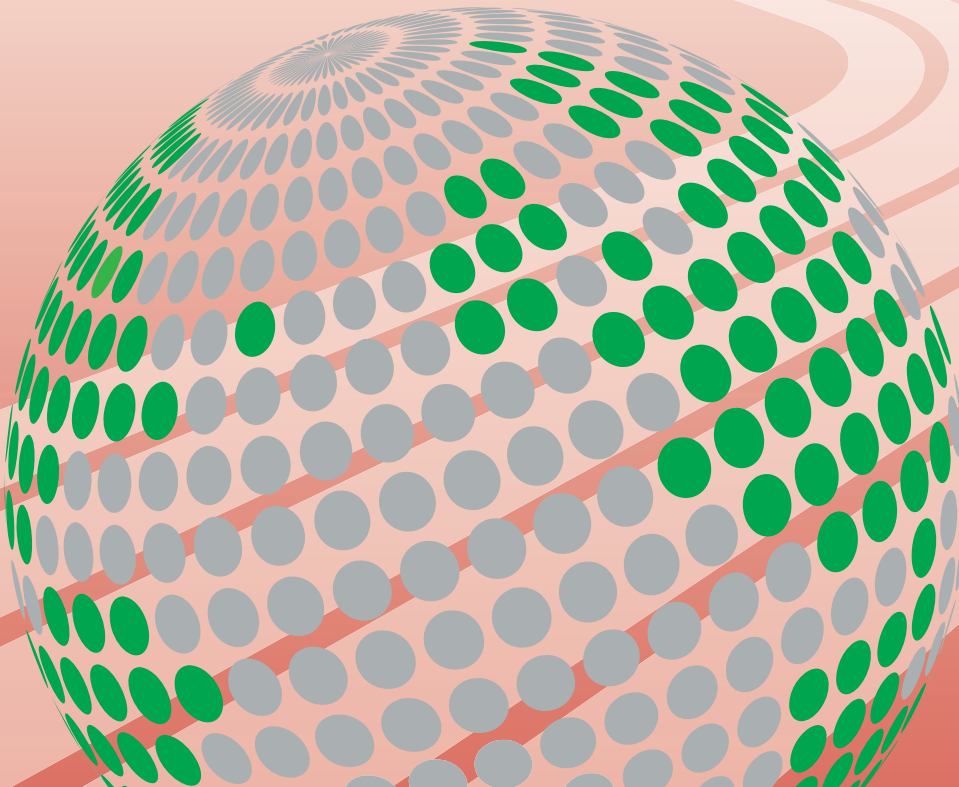
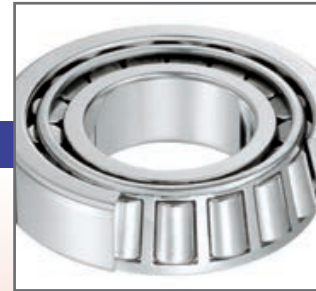




The Engineer's Tool Kit



T: 01642 677444 **F:** 01642 677444
E: info@sbtltd.co.uk
W: www.stocktonbearingsandtransmissions.co.uk

Unit 3, Crofton Court, Crofton Road,
Portrack, Stockton on Tees, TS18 2QR





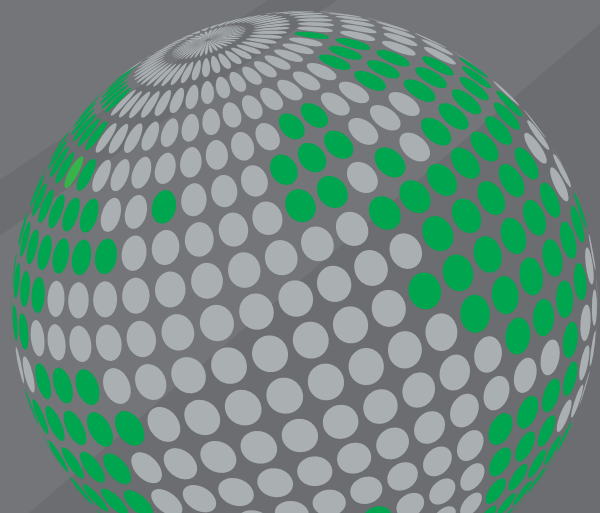
Established in 1990 by Pat Hodgers & Martyn Semark, Stockton Bearings and Transmissions Ltd has grown to become the areas largest 'Independent Authorised Distributor' of Bearings, Belts, Chain, Seals and Power Transmission equipment. Committed to providing a level of service second to none with the simple belief that "stockists should stock" and stock should be available 24 hours a day, 7 days a week, 365 days a year.

The company has attracted the attention of some of the worlds leading manufacturers, recognising a company who would not only stock their products but also promote and represent them with 100% commitment and loyalty. From early 1999 we were one of a number of like minded independent distributors who joined the Independent Authorised Distributor Alliance Ltd "National Power, Local Strength, IADA Ltd". IADA is a body of like-minded independents and has now grown to a total of 54 branches across the UK, which means we can now offer nationwide coverage and compete for National accounts. Further to this, our purchasing power has been augmented with obvious benefits both to ourselves and our customers. IADA currently consists of 19 independent distributors who have the desire to remain "independent".

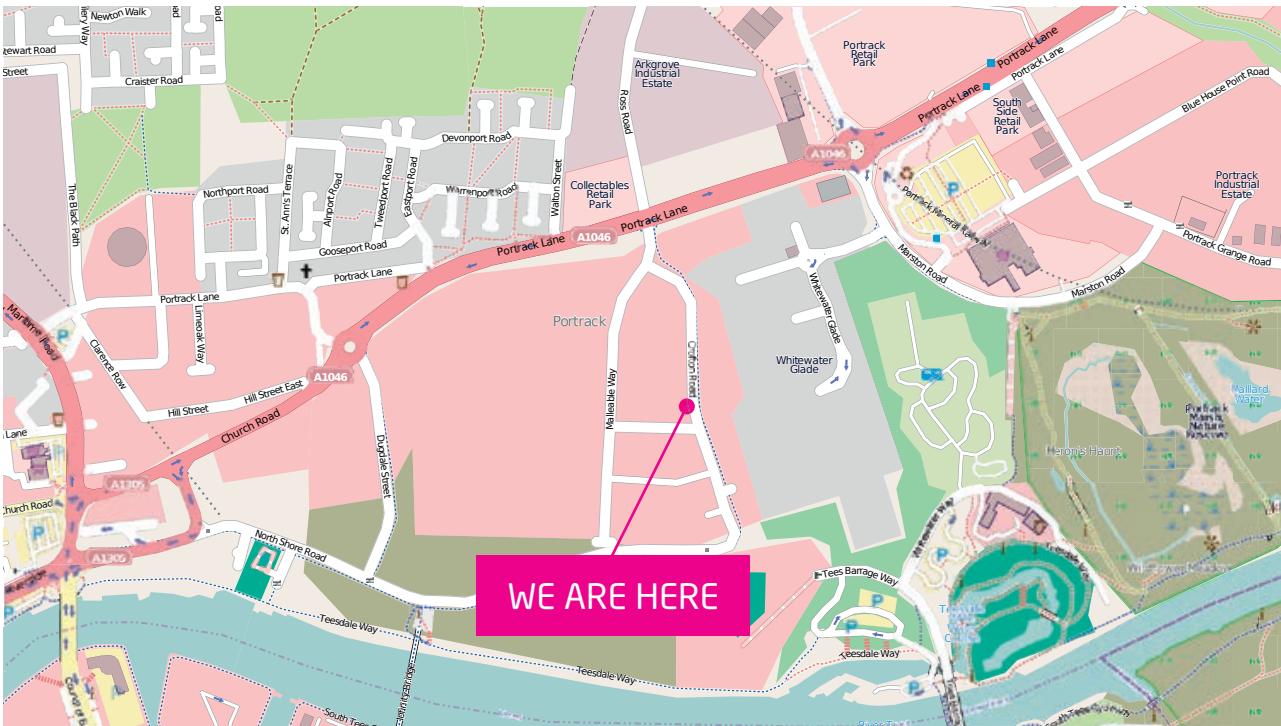
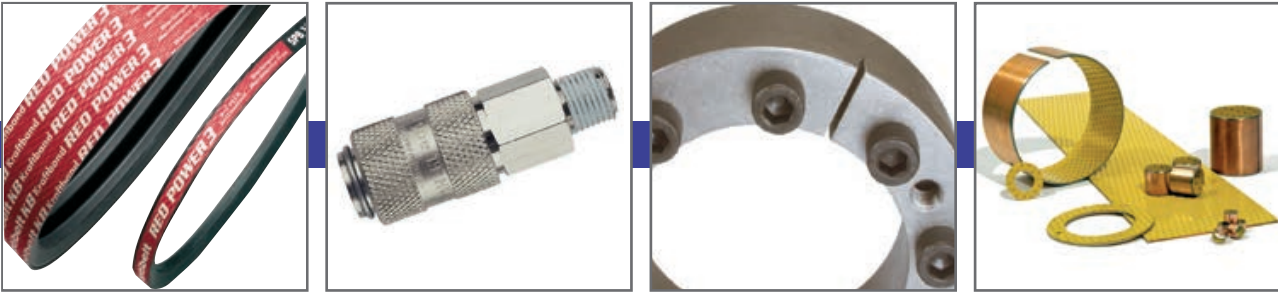
With a combined total of 54 locations represented throughout the UK reaching from Plymouth in the South, to Inverness in the North our prime objective is "one member per town".



"The best service by far in the North East, with experienced staff who always go out of their way to help!"



Established in 1990, Stockton Bearings and Transmissions are dedicated to supplying the needs of local industry with a top class professional service along with products from the worlds leading manufacturers.



Trade Counter & Office Opening Hours:

Mon - Fri 08:00 - 17:30 Sat 08:30 - 12:00 24 Hour Call
Out Service Available *** Pneumatics now in Stock ***

T: 01642 677444 **F:** 01642 677444

E: info@sbtltd.co.uk

W: www.stocktonbearingsandtransmissions.co.uk

Unit 3, Crofton Court, Crofton Road,
Portrack, Stockton on Tees, TS18 2QR



Success through co-operation

IADA was formed in 1998 by a group of independent distributors, offering MRO supply solutions, looking for a way to improve the level of service and coverage for their customers. We now have over 50 branches across the UK.

Put us to the test...

Many companies can offer what look like great prices...but saving 10% on goods is not always the saving it seems. At IADA we will look at the reason why you are replacing parts, and using our unrivalled in house expertise we can offer MRO supply solutions from which you will see much greater savings. IADA are an authorised distributor, so you can be assured of getting high quality products from industry leading manufacturers.

Why IADA... Simple

That's it, we make our customers life simple. Our branches carry large stocks which can be tailored to our customers individual requirements. Our branches have in house expertise which means you get to speak to someone who can help with any technical requests. Because of our unique structure you can expect fast responses to any request, as that decision can be made locally, not at a far removed head office. We provide all this at market leading prices... sounds to good to be true, Try us and see!

Come and see us

With fully stocked trade counters and friendly well trained staff at every location you will always be assured of a warm welcome, and you may be surprised at the vast range of product held in stock ready to go.

IADA Limited

Tel: +44 (0) 1604 779 323 / Fax: +44 (0) 1604 779 318

E-mail: sales@iadaltd.co.uk



CONTENTS

BEARINGS	4 - 48	BEARINGS
FLUID POWER	49 - 76	FLUID POWER
BELT DRIVES	77 - 93	BELT DRIVES
CHAIN DRIVES & HARDWARE	94 - 120	CHAIN DRIVES & HARDWARE
SEALS	121 - 126	SEALS
LUBRICATION & MAINTENANCE	127 - 139	LUBRICATION & MAINTENANCE
TOOLS	140 - 142	TOOLS
CASTORS	143 - 158	CASTORS

GENERATION C

SETTING A NEW STANDARD FOR DEEP GROOVE BALL BEARINGS

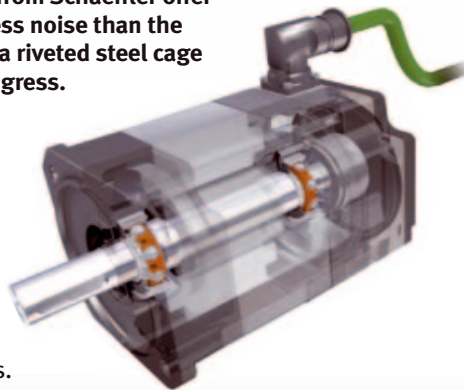


'Generation C' deep groove ball bearings from Schaeffler offer 35 per cent less friction and 50 per cent less noise than the existing designs. The novel HRS seal and a riveted steel cage deliver smoother running and less dust ingress.

Improved Energy Efficiency

35% less friction means less heat, so higher running speeds are possible along with greater stability provided by the new steel cage.

'Generation C' is ideal for applications in which low noise and smooth running are critical - such as ventilators, washing machines, electric motors and power tools.



Direct benefits include a reduction in operating costs, extended maintenance intervals, longer grease life and increased protection against dust contamination.

The dimensions of the new bearings correspond to the previous bearing types, enabling easy replacement.

BENEFITS

- 50% NOISE REDUCTION
- 35% LESS FRICTION
- HIGHER SPEEDS
- REDUCED ENERGY CONSUMPTION
- LONGER OPERATING LIFE
- LOWER OPERATING COSTS

DESIGN IMPROVEMENTS

- OPTIMISED OSCULATION
- IMPROVED RACEWAY SURFACES
- NEW HRS SEAL
- OPTIMISED DUST SHIELD
- LABYRINTH-TYPE SEAL FUNCTION
- NEW RIVETED STEEL CAGE
- -30°C to +120°C OPERATING RANGE

FAG

BEARINGS



Deep groove design for radial & radial / axial loads
 Available with metal shields (2Z) or rubber seals (2HRS)
 Available with radial internal clearance CN, C3, C2 (etc)
 Available in corrosion resistant material (prefix S...)
 Available in bore size 3mm up to 2000mm
 Available with steel, brass (M / Y) or plastic (TV) cages

6000 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
6000	10	26	8
6001	12	28	8
6002	15	32	9
6003	17	35	10
6004	20	42	12
6005	25	47	12
6006	30	55	13
6007	35	62	14
6008	40	68	15
6009	45	75	16
6010	50	80	16
6011	55	90	18
6012	60	95	18
6013	65	100	18
6014	70	110	20
6015	75	115	20
6016	80	125	22
6017	85	130	22
6018	90	140	24
6019	95	145	24
6020	100	150	24
6021	105	160	26
6022	110	170	28
6024	120	180	28
6026	130	200	33
6028	140	210	33
6030	150	225	35
6032	160	240	38
6034	170	260	42
6036	180	280	46
6038	190	290	46

6200 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
6200	10	30	9
6201	12	32	10
6202	15	35	11
6203	17	40	12
6204	20	47	14
6205	25	52	15
6206	30	62	16
6207	35	72	17
6208	40	80	18
6209	45	85	19
6210	50	90	20
6211	55	100	21
6212	60	110	22
6213	65	120	23
6214	70	125	24
6215	75	130	25
6216	80	140	26
6217	85	150	28
6218	90	160	30
6219	95	170	32
6220	100	180	34
6222	110	200	38
6224	120	215	40
6226	130	230	40
6228	140	250	42
6230	150	270	45
6232	160	290	48
6234	170	310	52
6236	180	320	52
6238	190	340	55



FAG



Heavy series deep groove design for radial & radial / axial loads
Available with radial internal clearance CN, C3,

6300 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
6300	10	35	11
6301	12	37	12
6302	15	42	13
6303	17	47	14
6304	20	52	15
6305	25	62	17
6306	30	75	19
6307	35	80	21
6308	40	90	23
6309	45	100	25
6310	50	110	27
6311	55	120	29
6312	60	130	31
6313	65	140	33
6314	70	150	35
6315	75	160	37
6316	80	170	39
6317	85	180	41
6318	90	190	43
6319	95	200	45
6320	100	215	47
6322	110	240	50
6324	120	260	55
6326	130	280	58
6328	140	300	62
6330	150	320	65
6332	160	340	68
6334	170	360	72
6336	180	380	75
6338	190	400	78

6400 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
6403	17	62	17
6404	20	72	19
6405	25	80	21
6406	30	90	23
6407	35	100	25
6408	40	110	27
6409	45	120	29
6410	50	130	31
6411	55	140	33
6412	60	150	35
6413	65	160	37
6414	70	180	42
6415	75	190	45
6416	80	200	48
6417	85	210	52
6418	90	225	54



FAG SmartCheck

takes intelligent machine monitoring to a new level: compact, easy to operate and at a unique price/performance ratio. Thus, makes the online monitoring of small, non process critical systems like electric motors, pumps, compressors, ventilators, fans and gearboxes cost-efficient.

The innovative real time monitoring system employs a number of novel technologies and trend-setting functions. These include the combination of information provided by the measurement of classic parameters and vibration based process parameters. The measuring system detects potential damage to machines early and reliably and helps to avoid unplanned shutdowns and costly secondary damage. Thus, the FAG SmartCheck already offers numerous options that future machine monitoring schemes cannot be imagined without.



FAG



Narrow series deep groove design for radial & radial / axial loads
 Available with metal shields (2Z) or rubber seals (2HRS)
 Available in corrosion resistant material (prefix S...)

61800 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
61800	10	19	5
61801	12	21	5
61802	15	24	5
61803	17	26	5
61804	20	32	7
61805	25	37	7
61806	30	42	7
61807	35	47	7
61808	40	52	7
61809	45	58	7
61810	50	65	7
61811	55	72	9
61812	60	78	10

61900 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
61900	10	22	6
61901	12	24	6
61902	15	28	7
61903	17	30	7
61904	20	37	9
61905	25	42	9
61906	30	47	9
61907	35	55	10
61908	40	62	12
61909	45	68	12
61910	50	72	12
61911	55	80	13
61912	60	85	13



Wide series deep groove design for radial & radial / axial loads
 Available with rubber seals (2RSR)

62200 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
62200-A-2RSR	10	30	14
62201-A-2RSR	12	32	14
62202-A-2RSR	15	35	14
62203-A-2RSR	17	40	16
62204-A-2RSR	20	47	18
62205-A-2RSR	25	52	18
62206-A-2RSR	30	62	20
62207-A-2RSR	35	72	23
62208-A-2RSR	40	80	23
62210-A-2RSR	50	90	23
62211-A-2RSR	55	100	25
62212-A-2RSR	60	110	28

62300 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
62301-A-2RSR	12	37	17
62302-A-2RSR	15	42	17
62303-A-2RSR	17	47	19
62304-A-2RSR	20	52	21
62305-A-2RSR	25	62	24
62306-A-2RSR	30	72	27
62307-A-2RSR	35	80	31
62308-A-2RSR	40	90	33
62309-A-2RSR	45	100	36
62310-A-2RSR	50	110	40



FAG

Single row angular contact ball bearings

Many sizes of angular contact ball bearings are supplied in X-life design

Available as matched pairs (UO & UA) for mounting together

7200 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
7200	10	30	9
7201	12	32	10
7202	15	35	11
7203	17	40	12
7204	20	47	14
7205	25	52	15
7206	30	62	16
7207	35	72	17
7208	40	80	18
7209	45	85	19
7210	50	90	20
7211	55	100	21
7212	60	110	22

7300 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
7301	12	37	12
7302	15	42	13
7303	17	47	14
7304	20	52	15
7305	25	62	17
7306	30	72	19
7307	35	80	21
7308	40	90	23
7309	45	100	25
7310	50	110	27
7311	55	120	29
7312	60	130	31



Double row angular contact ball bearings are units with solid inner and outer rings and ball and cage assemblies with polyamide, sheet steel or brass cages.

Their construction is similar to a pair of single row angular contact ball bearings in an O arrangement but they are narrower to a certain extent.

They differ in the size of the contact angle and the design of the bearing rings.



3200 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
3200	10	30	14
3201	12	32	15.9
3202	15	35	15.9
3203	17	40	17.5
3204	20	47	20.6
3205	25	52	20.6
3206	30	62	23.8
3207	35	72	27
3208	40	80	30.2
3209	45	85	30.2
3210	50	90	30.2
3211	55	100	33.3
3212	60	110	36.5



FAG

3300 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
3302	15	42	19
3303	17	47	22.2
3304	20	52	22.2
3305	25	62	25.4
3306	30	72	30.2
3307	35	80	34.9
3308	40	90	36.5
3309	45	100	39.7
3310	50	110	44.4
3311	55	120	49.2
3312	60	130	54

2200 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
2200	10	30	14
2201	12	32	14
2202	15	35	14
2203	17	40	16
2204	20	47	18
2205	25	52	18
2206	30	62	20
2207	35	72	23
2208	40	80	23
2209	45	85	23
2210	50	90	23
2211	55	100	25
2212	60	110	28



Self-aligning ball bearings are double row, self-retaining units comprising outer rings with a concave raceway, inner rings with a cylindrical or tapered bore and ball and cage assemblies.

The bearings are available in open and sealed designs.



1200 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
1200	10	30	9
1201	12	32	10
1202	15	35	11
1203	17	40	12
1204	20	47	14
1205	25	52	15
1206	30	62	16
1207	35	72	17
1208	40	80	18
1209	45	85	19
1210	50	90	20
1211	55	100	21
1212	60	110	22



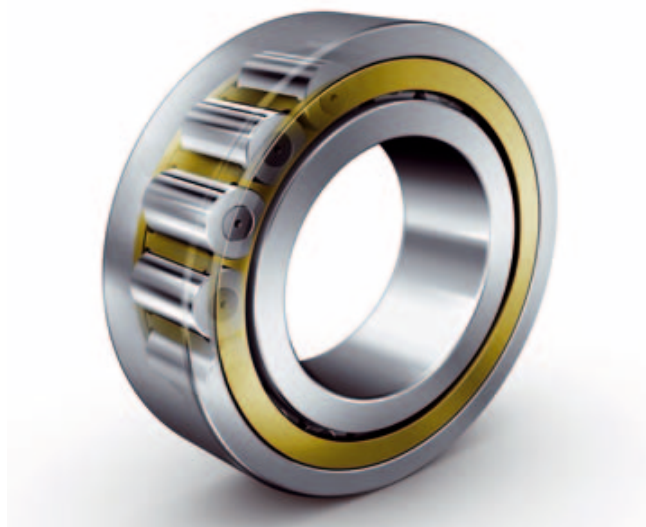
FAG

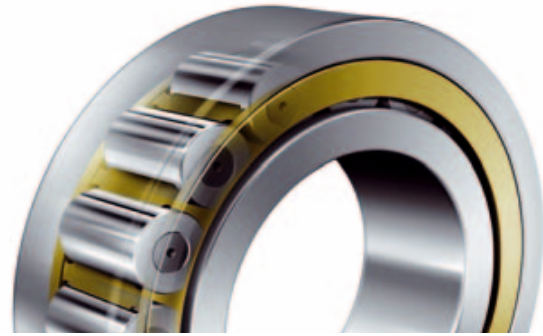


FAG X-life cylindrical roller bearing, single row
 Cage guided with plastic, brass or steel cages
 Bearing with higher load capacity, longer operating life and higher static safety factor
 Reduced friction and lower temperatures due to higher quality rollers and raceways
 Available in other dimension series
 Available in reduced or enlarged radial internal clearance classes
 Bearings with O/D over 120mm heat stabilized to +200°C

N200 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
N202	15	35	11
N203	17	40	12
N204	20	47	14
N205	25	52	15
N206	30	62	16
N207	35	72	17
N208	40	80	18
N209	45	85	19
N210	50	90	20
N211	55	100	21
N212	60	110	22
N215	75	130	25
N217	85	150	28
N218	90	160	30
N219	95	170	32
N220	100	180	34
N222	110	200	38
N224	120	215	40
N226	130	230	40
N228	140	250	42
N230	150	270	45
N236	180	320	52

NU200 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
NU202	15	35	11
NU203	17	40	12
NU204	20	47	14
NU205	25	52	15
NU206	30	62	16
NU207	35	72	17
NU208	40	80	18
NU209	45	85	19
NU210	50	90	20
NU211	55	100	21
NU212	60	110	22
NU215	75	130	25
NU217	85	150	28
NU218	90	160	30
NU219	95	170	32
NU220	100	180	34
NU222	110	200	38
NU224	120	215	40
NU226	130	230	40
NU228	140	250	42
NU230	150	270	45
NU236	180	320	52





N300 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
N303	17	47	14
N304	20	52	15
N305	25	62	17
N306	30	72	19
N307	35	80	21
N308	40	90	23
N309	45	100	25
N310	50	110	27
N311	55	120	29
N312	60	130	31
N313	65	140	33
N314	70	150	35
N315	75	160	37
N316	80	170	39
N317	85	180	41
N318	90	190	43
N319	95	200	45
N320	100	215	47
N322	110	240	50
N324	120	260	55
N326	130	280	58
N328	140	300	62

NU300 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
NU303	17	47	14
NU304	20	52	15
NU305	25	62	17
NU306	30	72	19
NU307	35	80	21
NU308	40	90	23
NU309	45	100	25
NU310	50	110	27
NU311	55	120	29
NU312	60	130	31
NU313	65	140	33
NU314	70	150	35
NU315	75	160	37
NU316	80	170	39
NU317	85	180	41
NU318	90	190	43
NU319	95	200	45
NU320	100	215	47
NU322	110	240	50
NU324	120	260	55
NU326	130	280	58
NU328	140	300	62

FAG cylindrical roller bearings are also available in NJ, NUP & NJ+HJ

Special bearings are made for traction motor and wind turbine applications along with many other specialist applications

Electrically insulated bearings are available in most sizes





SCHAEFFLER

Together we move the World...

Innovative technology partner for automotive, industrial and precision engineering applications

Increased energy efficiency, lower costs, strict low carbon objectives and improved operational safety are just some of the challenges presented to us by our customers. As a development partner, Schaeffler delivers the reliability, the quality and the innovation you need to move your world.

Our award-winning engineers excel at creative engineering that often involves an unconventional approach. We question established conventions, find unusual paths and dare to apply different perspectives to enable us to realise new and remarkable ideas.

Let us work together to realise your new and remarkable ideas. Together we move the world.

www.schaeffler.co.uk



FAG



Axial deep groove ball bearings comprise shaft locating washers, housing locating washers and ball and cage assemblies. The bearings are not self-retaining; the ball and cage assembly and bearing washers can therefore be fitted separately.

In addition to the series with flat washers, series are also available with spherical housing locating washers for the compensation of static angular misalignment. These designs are normally used in conjunction with seating washers.

Axial deep groove ball bearings are available in single and double direction designs. Both designs can support high axial forces but cannot be subjected to radial loads.

51200 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
51200	10	26	11
51201	12	28	11
51202	15	32	12
51203	17	35	12
51204	20	40	14
51205	25	47	15
51206	30	52	16
51207	35	62	18
51208	40	68	19
51209	45	73	20
51210	50	78	22
51211	55	90	25
51212	60	95	26



51100 Series			
Product	Shaft	Outside Dia	Width
	(mm)		
51100	10	24	9
51101	12	26	9
51102	15	28	9
51103	17	30	9
51104	20	35	10
51105	25	42	11
51106	30	47	11
51107	35	52	12
51108	40	60	13
51109	45	65	14
51110	50	70	14
51111	55	78	16
51112	60	85	17

Training

Schaeffler UK offers a broad mix of training courses at basic and advanced levels to suit all delegates.

Courses include:

- introduction to rolling bearings
- rolling bearing technology
- introduction to bearing lubrication
- bearing failure analysis
- mounting of bearings; bearings for electric motors
- condition monitoring
- vibration analysis (Levels 1 and 2)
- and FAG Detector III (Schaeffler's handheld vibration monitoring device).

Please contact us for more details.



FAG



The lubricants available from the Schaeffler Group are designed and tested for bearing arrangement engineering.

The Arcanol rolling bearing greases offer very good preconditions for favourable running behaviour of bearings and a long operating life and high operational security of the bearing arrangement.

The lubricant range is graduated such that almost all areas of application are covered.

Grease	Thickener	Operating temp °c	Tube			Cartridge	Can	Bucket		Hobcock	Drum
			20g	70g	250g			5kg	10kg		
MULTOP	Lithium soap with EP additives	-40 to +150			•	•	•	•	•	•	•
MULTI2	Lithium soap	-30 to +140	•		•	•	•	•	•	•	•
MULTI3	Lithium soap	-30 to +140			•	•	•	•	•	•	•
LOAD220	Lithium/calcium soap with EP additives	-20 to +140					•		•	•	•
LOAD400	Lithium/calcium soap with EP additives	-25 to +140				•	•	•	•	•	•
LOAD1000	Lithium/calcium soap with EP additives	-20 to +140						•		•	•
TEMP90	Calcium polycarbamide with EP additives	-40 to +160	•			•	•	•		•	•
TEMP110	Lithium complex soap	-40 to +160				•	•				
TEMP120	Polycarbamide with EP additives	-35 to +180					•	•		•	
TEMP200	PTFE	-40 to +260		•			•				
SPEED2,6	Polycarbamide	-50 to +120			•		•			•	
VIB3	Lithium complex soap with EP additives	-30 to +150				•	•	•		•	
BIO2	Lithium/calcium soap	-30 to +150				•	•		•	•	•
FOOD2	Aluminium complex soap	-30 to +120				•	•		•	•	•



+ Health Check

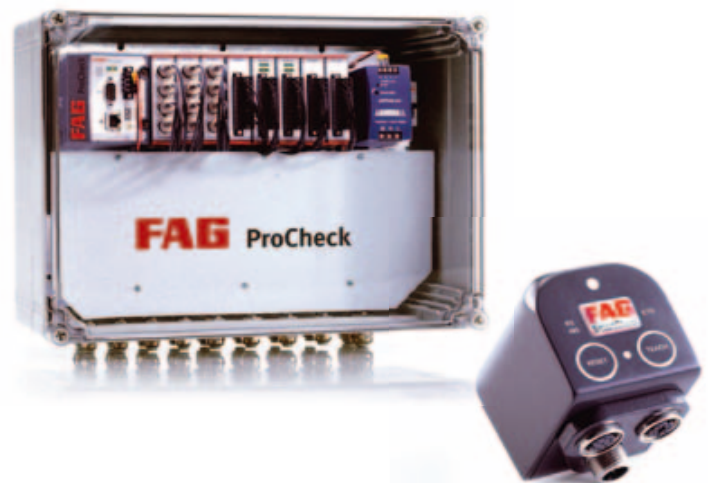
Prevention is Better than Cure



Keeping a healthy check on the condition of your plant and machinery means that the major financial headaches associated with unplanned downtime can be easily avoided.

Condition monitoring systems from Schaeffler UK are a cost-effective way of preventing problems before they arise. They enable engineers to keep control of their plant, minimise the risk of breakdown and reduce their maintenance costs.

So rather than waiting until things start to go wrong, why not make an appointment with an experienced Schaeffler engineer today and prevent those unforeseen problems from becoming a real headache.





The expertise of a manufacturer, the scale of a leader

NTN-SNR ROULEMENTS, part of the 3rd largest bearing manufacturing group in the world, is a major force as a designer, developer and manufacturer. Thanks to its strong brands, NTN-SNR is highly active in the automobile, industrial and aeronautics sectors. Each division meets the expectations of a global market and focuses on the business segments of its customers.



NTN-SNR offers top quality technical products and can provide specialist solutions.



With the widest range on the market, our teams work towards other requirements. Innovation is a decisive factor in our development: anticipating new solutions, enriching bearing functionalities, etc. More compact, lighter, more economical, more reliable, more effective, better for the environment... we are constantly innovating for and with our customers.

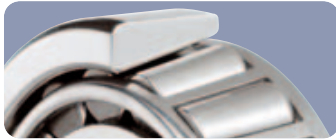
NTN-SNR is clearly focused on ecological solutions and is recognised as the partner and by developer of the companies of the future, ready to take up all market opportunities.



TAPERED ROLLER BEARINGS

These accept high radial loads and axial loads in one direction. They are generally fitted opposite a bearing of the same type. Load capacity depends on contact angle.

1 ROW OF TAPERED BEARINGS



Metric dimensions: ISO 355 and JIS B 1512 standards

Available with contact angles, spread from 10° to 30° and a large contact angle 40° (suffix D by NTN)

Inch dimensions: ABMA standard (including J metric series)

Can be equipped with flanges

2 ROWS OF TAPERED BEARINGS



Appears in the same form as two single-row bearings

Fitted face-to-face or back-to-back, with metric or inch dimensions

One-piece outer or inner rings

Single-row assemblies with spacers also exist

4 ROWS OF TAPERED BEARINGS



Composed of two double cones, two single flanges and one double flange

Extended life cycle thanks to the use of case hardened steel, hollow rollers and pin-type cages

Very high load capacities, adapted to rolling type applications

Available in sealed version (-LL)

ECO-TOP RANGE

Series meeting the need to protect the environment

Optimised design, enhanced life cycle, more compact bearing and reduced energy consumption



NTN BOWER RANGE

Wide range of tapered roller bearings with inner diameters up to 16 inches

Steel

Through hardened bearing steel (ECO-H)

Vacuum degassed case hardened steel (4T, ET) and special heat treatment for a longer life cycle (ETA / ECO)

Cage

Generally equipped with a cage in pressed sheets

Solid or steel pin-type cages for large bearings

Fibre glass reinforced polyamide cage possible depending on the application for smaller bearings

Contact torque



Bearing identified with the suffix -ST:

- Reduced drag torque
- Reduced heating
- Improved seizure resistance
- Simplified adjustments at assembly

Sealing

Possible variant: sealing at the large shoulder (suffixe -LX)





METRIC

Part n°	Inside Diameter (mm)	Outside Diameter (mm)	Width (mm)	Part n°	Inside Diameter (mm)	Outside Diameter (mm)	Width (mm)	Part n°	Inside Diameter (mm)	Outside Diameter (mm)	Width (mm)
30202	15	35	11,75	30218	90	160	32,5	32004	20	42	15
30203	17	40	13,25	30302	15	42	14,25	32005	25	47	15
30204	20	47	15,25	30303	17	47	15,25	32006	30	55	17
30205	25	52	16,25	30304	20	52	16,25	32007	35	62	18
30206	30	62	17,25	30305	25	62	18,25	32008	40	68	19
30207	35	72	18,25	30306	30	72	20,75	32009	45	75	20
30208	40	80	19,75	30307	35	80	22,75	32010	50	80	20
30209	45	85	20,75	30308	40	90	25,25	32011	55	90	23
30210	50	90	21,75	31305	25	62	18,25	32012	60	95	23
30211	55	100	22,75	31308	40	90	25,25	32013	65	100	23
30212	60	110	23,75	31310	50	110	29,25	32014	70	110	25
30213	65	120	24,75	31311	55	120	31,5	32024	120	180	38
30214	70	125	26,25	31313	65	140	36				

IMPERIAL

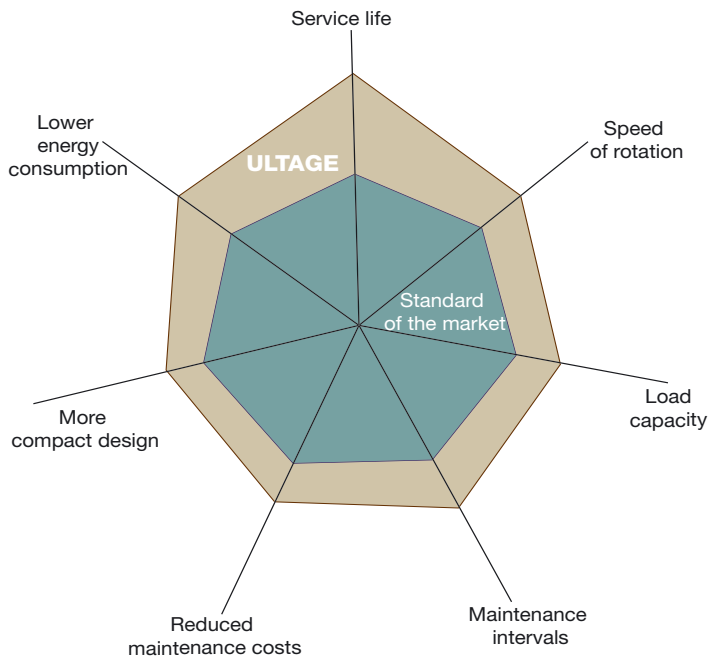
Part n°	Part n°	Part n°	Part n°	Part n°
4T-03062/03162	4T-3578/3525	4T-29585/29520	4T-559/552A	4T-JM205149/JM205110
4T-05079/05185S	4T-368A/362A	4T-29675/29620	4T-56418/56650	4T-JH211749/JH211710
4T-07087X/07210X	4T-3780/3720	4T-29685/29620	4T-M12648/M12610	4T-HM212047/HM212011
4T-07100S/07205	4T-387/382	4T-LM29749/LM29710	4T-M12649/M12610	4T-42690/42620
4T-07100S/07210X	4T-3877/3820	4T-JH307748/JH307710	4T-15123/15245	4T-44150/44348
4T-09067/09195	4T-387A/382	4T-3490/3420	4T-15590/15520	4T-L44643/L44610
4T-09074/09196	4T-387A/382A	4T-529/522	4T-16150/16283	4T-L44649/L44610
4T-LM102949/LM102910	4T-39590/39520	4T-529X/522	4T-18590/18520	4T-L45449/L45410
4T-JLM104948/JLM104948	4T-395A/394A	4T-535/532A	4T-18690/18620	4T-462/453X
4T-11590/11520	4T-3982/3920	4T-55175C/55437	4T-18790/18720	4T-46780/46720
4T-LM11749/LM11710	4T-3984/3920	4T-55200/55437	4T-19150/19268	4T-46790/46720
4T-LM11949/LM11910	4T-JH415647/JH415610	4T-5584/5535	4T-1986/1931	4T-47487/47420

Part n°	Part n°	Part n°	Part n°
4T-47686/47620	4T-LM603049/LM603011	4T-25590/25520	4T-64450/64700
4T-47896/47820	4T-A6075/A6162	4T-25877/25821	4T-645/632
4T-LM48548/LM48510	4T-L610549/L610510	4T-27687/27620	4T-65237/65500
4T-495/493	4T-JM612949/JM612910	4T-2788/2720	4T-LM67048/LM67010
4T-495A/493	4T-623/612	4T-28980/28921	4T-67388/67322
4T-56425/46650	4T-6379/6320	4T-LM501349/LM501310	4T-67390/67322
4T-566/563	4T-H212749/H212710	4T-JLM506849/JLM506810	4T-67790/67720
4T-567/563	4T-HM218248/HM218210	4T-JLM508748/JLM508710	4T-L68149/L68111
4T-575/572	4T-L225849/L225810	4T-JM511946/JM511910	4T-683/672
4T-593/592A	4T-M231649/M231610	4T-JM515649/JM515610	4T-JLM710949/JLM710910
4T-594/592A	4T-24780/24720	4T-JHM522649/JHM522610	
4T-594A/592A	4T-25580/25520	4T-52400/52618	

NTN-SNR ULTAGE : better performance for your applications

The ULTAGE name comes from a combination of the terms "ULTIMATE" and "STAGE". It is a name that provides you with optimised performance as standard, with respect to several technical criteria

PERFORMANCE COMPARISON

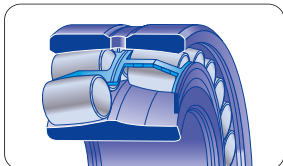


FROM 25 MM BORE UP TO 2180 MM EXTERNAL DIAMETER

NTN-SNR offers the widest range of spherical roller bearings on the market. They are available in a range of cage versions.

PRESSED STEEL CAGE (EA)

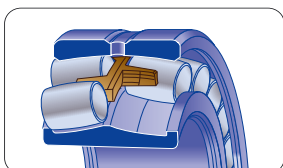
In two parts, centred on the inner ring



- > Reduced wear and friction
- > Optimum lubrication and high speeds

MACHINED SOLID BRASS CAGE (EM, L1)

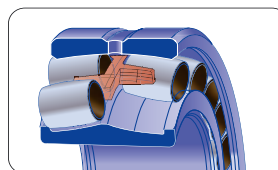
Single-piece cage, centred on the bearing housing or the inner ring



- > Extrem robustness for longer life in the most demanding environments.

SPECIAL CAGE FOR «VIBRATION APPLICATIONS» (EF800)

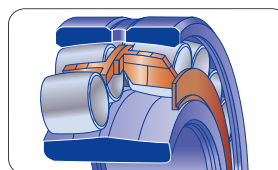
Single-piece cage with reduced bore, external diameter and radial clearance tolerances



- > Extremely accurate roller guides for longer service life.

POLYAMIDE CAGE (EG15)

Two-part, centred on the inner ring.



- > Performance and economy : elasticity and wrap-around profile for perfect guiding and reduced friction. (Max. running temperature 150°C)



Overall dimensions mm			Ultage	Part n°
d	D	B		
40	80	23	*	22208EAW33
40	80	23	*	22208EG15W33
40	80	23	*	22208EMW33
40	90	23		21308V
40	90	33	*	22308EAW33
40	90	33	*	22308EG15W33
40	90	33	*	22308EMW33
40	90	33	*	22308EF800
45	85	23	*	22209EAW33
45	85	23	*	22209EG15W33
45	85	23	*	22209EMW33
45	100	25		21309V
45	100	36	*	22309EAW33
45	100	36	*	22309EG15W33
45	100	36	*	22309EMW33
45	100	36	*	22309EF800
50	90	23	*	22210EAW33
50	90	23	*	22210EG15W33
50	90	23	*	22210EMW33
50	110	27		21310V
50	110	40	*	22310EAW33
50	110	40	*	22310EG15W33
50	110	40	*	22310EMW33
50	110	40	*	22310EF800
55	100	25	*	22211EAW33
55	100	25	*	22211EG15W33
55	100	25	*	22211EMW33
55	120	29		21311V
55	120	43	*	22311EAW33
55	120	43	*	22311EG15W33
55	120	43	*	22311EMW33
55	120	43	*	22311EF800
60	110	28	*	22212EAW33
60	110	28	*	22212EG15W33
60	110	28	*	22212EMW33
60	130	31		21312V
60	130	46	*	22312EAW33
60	130	46	*	22312EG15W33
60	130	46	*	22312EMW33
60	130	46	*	22312EF800
240	320	60	*	23948EMD1
240	360	92	*	23024EMW33
240	360	118	*	24048EMW33
240	400	128	*	23148EMW33
240	400	160		24148VMW33
240	440	120	*	22248EMW33
240	440	160	*	23248EMW33
240	500	155		22348VMW33
260	360	75	*	23952EMD1
260	400	104	*	23052EMW33
260	400	140		24052VMW33
260	440	144	*	23152EMW33
260	440	180		24152VMW33
260	480	130		22252VMW33
260	480	174		23252VMW33
260	540	164		22352VMW33
300	420	90		23960
300	420	90		23960L1
300	460	118	*	23060EMW33
300	460	160	*	24060EMW33
300	500	160	*	23160EMW33
300	500	200		24160VMW33
300	540	140		22260B
300	540	140		22260BL1
300	540	192		23260VMW33
300	620	185		22360B



Bearings available with cylindrical or tapered bore (EAK,EMK,EG15K,BK and K30 for 240xx and 241xx series). Bearing with tapered bore are generally fitted with adaptor or withdrawal sleeves. All types of clearances are available on stock or on request. Special clearances and special precisions are available on request.

*NTN-SNR ULTAGE Bearing.



NEEDLE BEARINGS

These bearings are mainly selected for constructions requiring reduced radial dimensions and maximum rigidity and load capacity. They have little resistance for axial forces (except thrusts and combined bearings).

NEEDLE ROLLER AND CAGE ASSEMBLIES



A needle cage comprises an inseparable cage and needles and can be used to design very compact, light, constructions with maximum capacity. The shaft and housing act as a raceway and must be machined in compliance with hardness, geometry and roughness characteristics. The needles are guided precisely, therefore the needle cage can absorb much higher speeds of rotation than contact needles.

Depending on the application, different types of materials and cages are available:

Types	Characteristics	Suffixes
K	Fibre glass reinforced polyamide	-T2
K or KJ	Welded pressed steel cage	-S
GK / GPK	In two parts	
K	Two rows	-ZW
KBK	For piston pins application	
KV	For piston pins application	-S
PK / GPK	For crank pins application	
KMJ	For crank pins application	-S

Inch solutions are also available (PCJ).

DRAWN CUP NEEDLE ROLLER BEARINGS



Compact and light, mainly used in applications with low loads, needle sockets represent a low-cost bearing solution; the outer ring is not machined, but is obtained using precision pressing processes. It must be noted that the geometry of the raceway depends on the geometry of the housing (the low thickness of the outer ring only provides the hardness and roughness necessary for the raceway).

Standard (HK) and heavy (HMK) series, available with or without sealing, with open or closed ends (BK, BMK)

Some dimensions are delivered with 2 rows of needles (-ZW)

Inches versions with cage (DCL, SCE) and contact needle versions (HCK).

NTN drawn cup needle roller bearing offer:

- simplified adapting thanks to an ideal geometry
- an improved life cycle: specific treatment of the cage and needles

NEEDLE ROLLER BEARINGS WITH SOLID RINGS



Needle roller bearings with solid rings are mainly used in applications with high loads.

- **Inseparable versions:** with or without an inner ring
 - Series 48, 49, 59 and 69. (Series 49 is also available with simple or double sealing)
 - NK series: also deliverable with the inner ring (NK+IR designation)
- If the bearing is used without an inner ring, the shaft will act as a raceway and must be machined appropriately



Separable versions: RNAO and NAO

With these versions, the inner and outer rings and the cage can be separated, opening up more assembly options.

The inner rings are delivered separately.

Versions with plunge grinding for seal support surfaces are also available.

These solid rings and needle bearings are also available in inch dimensions. (MR,MI)

NEEDLE AND ROLLER THRUST BEARINGS



Needle or roller thrust bearings are designed to absorb axial forces in one direction only. Support surfaces used as raceways must be ground and hardened.

- Needle thrust bearings: type AXK11
- Roller thrust bearings: series 811, 812, 874 and 893
Available with Polyamide cage (-T2), Aluminium alloy cage (-: lightness and enhanced performance when lack of lubricant) or pressed steel cage.

Washers:

- type **AS11** washers are thin (1 mm), therefore their support surfaces must be flat and rigid enough
- types **WS** (centered on the shaft) and **GS** (centered on the housing) are more rigid

COMBINED BEARINGS



When the application requires resistance to forces combined with substantial rigidity or minimum room, the use of combined bearings can lead to benefits. Depending on the type of bearings, axial forces may be absorbed in one or two directions.

- **Uni-directional axial forces**
The thrust part may comprise, either:
 - a radial contact (NKX) or angular contact (NKIA) ball bearing
 - rollers for high axial loads (NKXR)
 If the unit must be inseparable, a flange (-Z) is proposed

Two-way axial forces

Depending on the intensity of the forces, the thrust part will consist of needles (AXN) or rollers (ARN)

CAM FOLLOWERS



Cam followers are used for applications requiring guidance with minimum contact with cam and the linear guidance systems. Cam followers applications are very different to bearing applications. The cam followers is not fitted in a housing and its thicker outer ring rolls directly over a surface to provide guidance.

With or without a seal, with an outer ring with a convex or cylindrical profile, all cam followers are proposed:

- contact needle version (KRV-NATV) to accept significant loads
 - cage version (KR-NATR) to accept higher speeds
- Versions with two 2 rows of contact bearings also exist to increase capacity (NUTR, NUTW et NUKR)
- Stud Type: threaded shaft has a slot head or hex head screwdriver tightening system to simplify the attachment of the roller on the support surface. These rollers may be regreased by the shaft.
 - Yoke Type: with or without lateral guidance





NEEDLE ROLLER CAGE ASSEMBLIES

K8X11X8T2	K9X12X10T2	K10X14X13	K12X15X20
K8X11X10T2	K9X12X13T2	K10X16X12	K12X16X13
K8X11X13	K10X13X10T2	K11X14X10	K12X17X13
K8X12X10T2	K10X13X13	K12X15X9	K12X18X12
K8X12X12	K10X14X8	K12X15X10	
K8X12X13	K10X14X10	K12X15X13	

DRAWN CUP NEEDLE ROLLER BEARINGS

Shaft Diameter	Part n° open end design	Part n° closed end design	Shaft Diameter	Part n° open end design	Part n° closed end design
8	HK0810C		9	HMK0916	
8		BK0810C	10	HK1010	
8	HMK0810		10		BK1010
8	HMK0815		10	HK1012	
8	HMK0820T2		10		BK1012
9	HK0910		10	HK1015	
9		BK0910	10		BK1015
9	HK0912		10	HMK1010	
9		BK0912	10	HMK1012	
9	HMK0912		10	HMK1015	
			10	HMK1020	

MACHINED RING NEEDLE ROLLER BEARINGS (WITHOUT INNER RING).

Shaft mm	Part n°	Shaft mm	Part n°	Shaft mm	Part n°
10	NK10/12T2	16	RNA4901R	20	NK20/16R
10	NK10/16	16	NK16/16R	20	RNA5902
10	RNA498	16	NK16/20R	20	NK20/20R
12	NK12/12	16	RNA4901R	20	RNA6902R
12	NK12/16	17	NK17/16R	21	NK21/16R
12	RNA499	17	NK17/20R	21	NK21/20R
14	RNA4900R	18	NK18/16R	22	NK22/16R
14	NK14/16R	18	NK18/20R	22	NK22/20R
14	NK14/20R	19	NK19/16R	22	RNA4903R
15	NK15/16R	19	NK19/20R	22	RNA5903
15	NK15/20R	20	RNA4902R	22	RNA6903R

THRUST NEEDLE ROLLER BEARINGS

Shaft mm	Thrust needle roller and cage assembly	washer	inner ring	outer ring
10	AXK1100	AS1100	WS81100	GS81100
12	AXK1101	AS1101	WS81101	GS81101
15	AXK1102	AS1102	WS81102	GS81102
17	AXK1103	AS1103	WS81103	GS81103
20	AXK1104	AS1104	WS81104	GS81104
25	AXK1105	AS1105	WS81105	GS81105
30	AXK1106	AS1106	WS81106	GS81106
35	AXK1107	AS1107	WS81107	GS81107
40	AXK1108	AS1108	WS81108	GS81108
45	AXK1109	AS1109	WS81109	GS81109
50	AXK1110	AS1110	WS81110	GS81110

CAM FOLLOWERS STUD TYPE TRUCK ROLLERS

with cage	sealed type with cage	cylindrical outer	sealed type with cylindrical outer	full compliment type	full compliment with seal	outside diameter
KR16	KR16LL	KR16X	KR16XLL	KRV16	KRV16LL	16mm
KR19	KR19LL	KR19X	KR19XLL	KRV19	KRV19LL	19mm
KR22	KR22LL	KR22X	KR22XLL	KRV22	KRV22LL	22mm
KR26	KR26LL	KR26X	KR26XLL	KRV26	KRV26LL	26mm
KR30	KR30LL	KR30X	KR30XLL	KRV30	KRV30LL	30mm
KR32	KR32LL	KR32X	KR32XLL	KRV32	KRV32LL	32mm
KR35	KR35LL	KR35X	KR35XLL	KRV35	KRV35LL	35mm
KR40	KR40LL	KR40X	KR40XLL	KRV40	KRV40LL	40mm



SELF-ALIGNING BEARING UNITS



Standard range with more than 25 000 solutions



- The most extensive range on the market
- Materials: grey cast iron, sheet steel, stainless steel and thermoplastic
- Forged inner and outer rings, steel cages
- Efficient protection against corrosion by chemical passivation (grey cast housings)
- Efficient dust protection by stainless steel covers (stainless steel / grey cast range) or in plastic (thermoplastic range)
- Compact and efficient bearing systems
- Different bearing inserts for high and low temperature applications
- Bearing inserts available with cylindrical outer diameter
- Bearing inserts available with common inch bore diameter

Bearings with solid grease (Spot Pack)



- Reduce lubricant leakage because the base oil is retained in a solid mixture
- Prevents contamination of the surrounding environment
- Ensures a constant flow of lubricant at the bearing / raceway contact point
- Low running torque characteristics
- Solid grease protects a bearing against ingress of foreign matters

Bearing units with EN-GJS grey cast housings (ductile)



- More economical, energy saving through weight reduction
- 40% lighter and more compact than standard grey cast units
- Approximately 30% stronger in comparison with standard grey cast housings
- Shock resistant material even at low temperature
- Available as relubricatable or non-relubricatable
- Flange and pillow block versions available
- Interchangeable with standard self-aligning bearing units

Bearing units with rolled steel housings

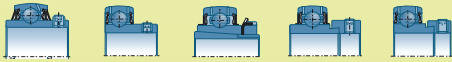


- Superior housing strength: more resistant than cast iron or steel sheets
- Reducing the risk of housing fracture, including under severe conditions
- Housing load 5 times higher than bearing insert dynamic capacity
- Suited for extreme applications: impact, high loads, vibrations
- Suited for steel and iron applications, extraction machines and equipment in contaminated environments





• Paliers auto-aligneurs en fonte grise • Grey cast iron self-aligning bearing units • Grauguss Gehäuselager
 • Soportes auto-alineantes en fundición gris • Supporti autoallineanti in ghisa • Mancais auto-alinháveis em ferro fundido cinzento



SNR	UCPE	USPE	UKPE..H	EXPE	ESPE
INA	RASEY	PASEY	-	RASE..N	PASE..N
SKF	SY..TF	-	SYJ..KF	SY..WF	SY..FM
RHP	NP	NP..A	NP10...K	NP..DEC	NP..EC
NTN	UCPL..D1*	ASP	UKP..D1,H23..X*	UEL..D1W3**	AEL..D1
RHP	SL	-	-	-	SL..EC
SKF	UCP**	USP	UKP..H**	EXP**	ESP
NSK	UCP	-	UKP..+H23..	EWP	ENP
ASAHI	UCP	-	UKP..+H23..	-	-
INA	RASEY - JIS	-	-	-	-
KOYO/TEK	UCP	-	UKP	NAP..M	SAP..M
NTN	UCHP..D1	-	-	UELHP..D1W3	-
SKF	UCPH	USPH	UKPH..H	EXPH	ESPH
NSK	UCPH	-	UKPH..+H23..	-	-
ASAHI	UCPH	-	-	-	-
KOYO/TEK	UCPH	-	-	-	-
SKF	UCPAE	USPAE	UKPAE..H	EXPAE	ESPAE
INA	RSHEY	PSHEY	-	RSHE..N	PSHE..N
SKF	SYF..TF	-	-	SYF..FM	-
RHP	SNP	SNP..A	-	SNP..DEC	SNP..EC
NTN	UCUP..D1	ASUP..	UKUP..D1,H23..X	UELUP..D1W3	AELUP..D1
SKF	UCPA/UCPG	USPA/USPG	UKPA./UKPG..H	EXPA/EXPG	ESPA/ESPG
NSK	UCPA	UBPA	-	EWPA	-
ASAHI	UCPA	-	-	-	-
KOYO/TEK	UCPA	-	-	-	-
SKF	UCFE	USFE	UKFE..H	EXFE	ESFE
INA	RCJY	PCJY	-	RCJ..N	PCJ..N
SKF	FY..TF	-	FYJ..KF	FY..WF	FY..FM
RHP	SF	SF..A	MSF..K	SF..DEC	SF..EC
NTN	UCF..D1*	ASF..D1	UKF..D1,H23..X*	UEL..D1W3**	AELF..D1
SKF	UCF**	USF	UKF..H**	EXF**	ESF
NSK	UCF	-	UKF..H23..	EFW	-
ASAHI	UCF	-	UKF..H23..	-	-
INA	RCJY..JIS	-	-	-	-
KOYO/TEK	UCF	-	UKF	-	SAF..FM
NTN	UCFS..D1	-	UKFS..D1,H23..X	UELF..D1W3	-
SKF	UCFS	-	UKFS..H	EXFS	-
NSK	UCFS	-	UKFS..H23..	-	-
ASAHI	UCFS	-	-	-	-
KOYO/TEK	UCFS	-	UKFS	-	-
SKF	UCFCE	USFCE	UKFCE..H	EXFCE	ESFCE
INA	RMEY	PMEY	-	RME	PME
RHP	FC	FC..A	-	FC..DEC	FC..EC
NTN	UCFC..D1***	ASFC..D1	UKFC..D1,H23..X***	UELFC..D1W3	AELFC..D1
SKF	UCFC	USFC	UKFC..H	EXFC	ESFC
NSK	FYC..TF	-	-	FYC..WF	FYC..FM
ASAHI	UCFC	-	UKFC..+H23..	EWFC	-
KOYO/TEK	UCFC	-	UKFC..+H	-	KHFC
INA	-	USFEE	-	-	ESFEE
NSK	-	USFTE	-	RFE	ESFTE
INA	-	-	-	-	PCFTR

SNR	UCFLE	USFLE	UKFLE..H	EXFLE	ESFLE
INA	RCJTY	PCJTY	-	RCJT..N	PCJT..N
SKF	FYTB..TF	-	FYTJ..KF	FYTB..WF	FYTJ..FM
RHP	SFT	SFT..A	MSFT..K	SFT..DEC	SFT..EC
NTN	UCFL..D1*	ASFL..D1	UKFL..D1,H23..X*	UELFL..D1W3**	AELFL..D1
SKF	UCFL**	USFL	UKFL..H**	EXFL**	ESFL
NSK	UCFL	UBFL	UKFL..+H23..	EWFL	-
INA	RCJTY..JIS	-	-	-	-
ASAHI	UCFL	BFL	UKFL..+H	-	KHFL
KOYO/TEK	UCFL	-	UKFL	-	SAFL..FM
SKF	UCFLZ	USFLZ	UKFLZ..H	EXFLZ	ESFLZ
INA	-	-	-	RCJTZ	-
NTN	-	ASFD..D1	-	-	AELFD..D1
SKF	-	USFD	-	-	ESFD
INA	-	FLCTEY	-	-	GLCTE
NSK	-	UBFD	-	-	ENFD
ASAHI	-	BLCTE	-	-	ENFD
RHP	-	LFTC..A	-	-	LFTC..EC
SKF	-	USFAE	-	-	ESFAE
INA	-	-	-	-	PSFT
NTN	UCFA..D1	-	UKFA..;H23..X	-	AELFA..D1
SKF	UCFA	USFA	UKFA..H	EXFA	ESFA
NSK	UCFA	-	-	-	-
ASAHI	UCFA	-	-	-	-
KOYO/TEK	UCFA	-	-	-	-
NTN	UCT..D1*	AST..D1	UKT..D1,H23..X*	UEL..D1W3**	AELT..D1
SKF	UCT**	UST	UKT..H**	EXT**	EST
INA	RTUEY	PTUEY	-	RTUE	PTUE
SKF	TUJ..TF	-	-	TU..FM	-
RHP	ST	ST..A	MST..K	ST..DEC	ST..EC
NSK	UCT	-	UKT..+H23..	EWT	-
ASAHI	UCT	-	UKT..+H	-	KHT
KOYO/TEK	UCT	-	UKT	-	-
NTN	UCT+ WB	UST+ WB	UKT..H+WB	EXT+WB	EST+WB
SKF	UCT..+WB	-	-	-	-
ASAHI	UCT..+WB	-	-	-	-
NTN	-	ASPT2..-10	-	-	AELPT2..-10
SKF	UCSP	USSP	UKSP..H	EXSP	ESSP
RHP	BT	BT..A	-	-	BT..EC
SKF	SPR 1	SPR 11 & 21	SPR 12 & 22	SPR 14 & 24	-
INA	-	HUSE..	-	-	-
RHP	BT	-	-	-	-
NTN	UCHB..D1	-	-	-	-
SKF	UCEHE	USEHE	UKEHE..H	EXEHE	ESEHE
INA	SCH	-	-	-	-
NSK	-	PHEY	-	RHE	PHE
ASAHI	UCEH	-	-	-	-
KOYO/TEK	UCECH	-	-	-	-
NTN	UCC..D1	ASC..	UKC..D1,H23..X*	UEL..D1W3**	AELC..D1
SKF	UCC	USC	UKC..H**	EXC**	ESC
NSK	UCC	-	UKC..+H23..	-	-
ASAHI	UCC	-	-	-	-
KOYO/TEK	UCC	-	UKC	-	-

* Egalement disponible en Série 300 et X (taille moyenne) / ** Egalement disponible en Série 300 / *** Egalement disponible en Série X (taille moyenne)
 * Also available in 300 and X-Series (medium size) / ** Also available in 300-Series / *** Also available in X-Series (medium size)

(1) Pour SP, 4 versions de boîtier disponibles / For SP, 4 available boxes / Für SP, 4 verschiedene Einbaurahmen erhältlich / Para SP, 4 versiones de envoltorios disponibles / Per prodotti speciali, 4 versioni di corpi disponibili / Para SP, 4 versões de embalagens disponíveis

• Roulements spécifiques: alésage carré, cylindrique et hexagonal / Special bearings: square, cylindrical and hexagonal bore



NTN	1AS... (1)	3AS... (1)
NBCA	DC..	DS..
NSK-BSC	W2..PPB../GW2..PPB..	W2..PPB../GW2..PPB..
INA	GVK...KTT-B / VK...KTT-B (AH..)	-
Fafnir	W2..PPB../GW2..PPB..	W2..PPB../GW2..PPB..

NTN	1AH... (1)	2AH... (1)
NBCA	HPC	HPS
NSK-BSC	..KRR..	..KRRB..
INA	-	SK...KRR-B
Fafnir	..KRR..	..KRRB..

NTN	1AC... (1)	3AC... (1)
NBCA	DC2..	DS2..
NSK-BSC	W2..PPB../GW2..PPB..	W2..PPB../GW2..PPB..
Fafnir	W2..PPB../GW2..PPB..	W2..PPB../GW2..PPB..

(1) Autres designs sur demande / Other designs on request

• Roulement insert avec bague extérieure cylindrique / Bearing insert with cylindrical outer ring



NTN	UCS2..D1**	UCS2..D1N	UELS2..D1**	UELS2..D1N	AELS2..NW3	AELS2..D1NW3	ASS2..N	ASS2..D1N
NSK-RHP	-	CUC2..	-	CEX2..	CES2..	-	CUS2..	-
RHP	11...;	UR2..	ENR2..	-	13...;EC	13...;ECG	13...;	-
KOYO/TEK	RB..	11...;CG	11...;DEC	-	-	-	-	-
ASAHI	ER..	-	-	-	-	-	-	-
INA	SER2..	-	-	-	KHR2..	-	-	-
NSK	-	E..KRR	-	-	RAE...NPP NR	-	-	-

** également disponible en Série 300 / also available in 300-Series

• Temperature



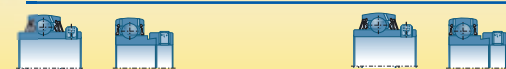
NTN	..HT2	..CT1
SKF	..T20	..T04
INA	..FA164.1	..FA101T
SKF	..VA201	..VA201
ASAHI	..HR 5	..CR 2A
RHP	-	..T1
NSK	..HT2	..CT1

• Etanchéités / Seals




NTN	..LLJ	-
SKF	..L3	..L4
INA	..KPP(B)-3	-
SKF	-	..2RF
ASAHI	-	-
RHP	T...;	-
NSK	..LLJ	-
KOYO/TEK	..L3	-

• Paliers auto-aligneurs en acier inoxydable • Stainless steel self-aligning bearing units • Nichtrostende Gehäuselager • Soportes auto-alineantes en acero inoxidable • Supporti autoallineanti in acciaio inox • Mancais auto-alinháveis em aço inoxidável



NTN	F-UCPM../LP03	-	SNR	SUCF	SESF
SNR	SUCP	SESP	ASAHI	MUCF	-
ASAHI	MUCP	-	DODGE	F4B-SCEZ	-
DODGE	P2B-SCEZ	-	SNR	SUCT	SEST
NTN	F-UCFM../LP03	-	ASAHI	MUCT	-
SNR	SUCFL	SESFL			
ASAHI	MUCFL	-			
DODGE	F2B-SCEZ	-			
SNR	SUCPA	SESPA			
ASAHI	MUCPA	-			


• Paliers auto-aligneurs thermoplastique • Thermoplastic self-aligning bearing units • Thermoplastik Gehäuselager • Soportes autoalinea termoplásticos • Supporti autoallineanti termoplastici • Mancais auto-alinháveis termoplásticos



NTN	F-UCPR2../LP03**	NTN	F-UCFLR2../LP03**
SNR	GNP	SNR	GSFT
SKF	SYK..TH/GFA	SKF	FYTBK..TH/GFA
INA	RASEY..TN VA	INA	RCJTY..TN VA
NSK - RHP	PNP..CR	NSK - RHP	PSFT..CR
NTN	F-UCFR2../LP03*		
SNR	GSF		
SKF	FYK..TH/GFA		
INA	RCJY..TN VA		
NSK - RHP	PSF..CR		

*: noir / black - **: blanc ou noir / white or black

• Paliers auto-aligneurs en tôle d'acier • Stamped steel self-aligning bearing units • Stahlblech Gehäuselager • Soportes auto-alineantes de chapa • Supporti autoallineanti in lamiera d'acciaio • Mancais auto-alinháveis em chapa de aço



NTN	ASPP	AELPP..W3	NTN	ASPFL	AELPFL
SNR	USPP	ESPP	SNR	USPFL	ESPFL
INA	PBY	PB	INA	RATY	RAT
SKF	P..RM	P..FM	SKF	PFT..RM	PFT..FM
RHP	-	LPB..EC	RHP	SLFL..A	SLFL..EC
ASAHI	BPP..Z2	KHPP..Z2	NSK	UBPFL	ENPFL
KOYO/JTEKT	SBPP	SAPP..FM	ASAHI	BPFL	KHPFL
NTN	USPFT	ESPFT	KOYO/JTEKT	SBPFL	SAPP..FM
INA	RATRY	RATR	SNR	USPFE	ESPFE
SKF	PFD..RM	PFD..FM	INA	-	MSTU
RHP	SLFT..A	SLFT..EC	NTN	ASPF	AELPF..W3
ASAHI	BPFT	-	SNR	USPF	ESPF
			INA	RAY	RA
			SKF	PF..RM	PF..FM
			RHP	SLFE..A	SLFE..EC
			NSK	UBPF	ENPF
			ASAHI	PBF	KHPF
			KOYO/JTEKT	SBPF	SAPP..FM

• Couvertres / Covers

Cover material		NTN	SNR	KOYO/JTEKT	ASAHI	RHP	INA	SKF
Couvercle acier (inox) / Stainless steel cover	fermé/closed / ouvert/open	SM- / S-	SCC../SCDE..	D.. / C	E / C	- / -	- / -	- / -
Couvercle fonte / Cast iron cover	fermé/closed / ouvert/open	CM- / C-	- / -	FD / FC	C / CE	- / -	- / -	- / -
Couvercle tôle / Protector cover (sheet metal)	fermé/closed / ouvert/open	- / -	PCC../ PCO..	- / -	- / -	..P / -	KASK / ECL..	ECY.. / ECYB..
Couvercle thermoplastique / Thermoplastic cover	fermé/closed / ouvert/open	- / -	CF.. / CV..	- / -	- / -	- / -	ECL.. / -	ECYB.. / -

Couvertres à utiliser pour palier en : / Covers suitable for units from:
 A : fonte - inox / cast iron - stainless steel B : fonte / cast iron C : fonte / cast iron D : thermoplastique / thermoplastic

• Roulements-inserts • Bearing inserts • Lagereinsätze • Rodamientos insertos • Cuscinetti "inserti" • Rolamentos insertos

	Series 200	Series 300	X-Series
NTN	UC2..D1	UC3..D1	UCX..D1
SNR	UC2..G2	UC3..G2	-
INA	GYE..KRRB / GYE..KRRB-FA107	-	-
SKF	YAR2..2F	-	-
RHP	10..G	-	10...G
NSK	UC2	UC3	UCX
ASAHI	UC2	UC3	UCX
KOYO/JTEKT	UC2	UC3	UCX
NTN	UEL2..D1W3	UEL3..D1W3	-
SNR	EX2..G2	EX3..G2	-
INA	GE..KRRB	-	-
SKF	YEL2..2F	-	-
RHP	10..DECG	-	-
NSK	EW2	-	-
ASAHI	UG2..+ER	-	-
KOYO/JTEKT	NA2	-	-
NTN	UK2..D1, H23..X	UK3..D1, H23..X	UKX.., H23..X
SNR	UK2..G2H	UK3..G2H	-
SKF	YSA2..2FK, H23	-	-
RHP	10..KG, H3	-	-
NSK	UK2..+H23	UK3..H23	UKX..H23
ASAHI	UK2..+H23	UK3	UKX
KOYO/JTEKT	UK2... H23..X	UK3... H23..X	UKX... H23X
NTN	AS2	-	-
SNR	US2..G2	-	-
INA	GAY..NPPB	-	-
SKF	YAT2	-	-
RHP	12..G	-	-
NSK	UB2	-	-
ASAHI	B	-	-
KOYO/JTEKT	SB2	-	-
NTN	AEL2..W3D1	-	-
SNR	ES2..G2	-	-
INA	GRAE..NPPB	-	-
SKF	YET2	-	-
RHP	12..ECG	-	-
NSK	EN2	-	-
ASAHI	KH2..AE	-	-
KOYO/JTEKT	SA2	-	-
NTN	F-UC2..D1/LP03	-	-
SNR	SUC2	-	-
DODGE	SCEZ	-	-
ASAHI	MUC2	-	-
KOYO/JTEKT	UC2..S6	-	-
NTN	-	-	-
SNR	SES2	-	-
ASAHI	-	-	-
DODGE	-	-	-
NTN	F-UC2..D1/LP03	-	-
SNR	MUC2..FD	-	-
SKF	YAR2..2RF/HVGA	-	-
INA	GYE..KRRB VA	-	-
NSK-RHP	J10...GCR	-	-
NTN	CS2..LLU	-	-
SNR	62..SEE	-	-
INA	2..NPPB	-	-
SKF	17262..2RS1	-	-
RHP	17262..2RS1	-	-
NSK	CS2..DDU	-	-
KOYO/JTEKT	CB2	-	-
FAG	762..2RSR	-	-
	Roulement insert bague caoutchouc / insert bearing with rubber liner	Roulement insert / Bearing insert	Bague caoutchouc / Rubber ring
SNR	ESR2..B	ES2..SRS	SRBB2
INA	RABR-B	RAE..NPPB	RABR
SKF	-	YET	RIS
NSK	-	AEL	T2066
SNR	CESR2..A	CE2..SRS	SRCA2
INA	RCSM-B	RAE..NPP	RCSM

Adapté au corps en acier inoxydable / Suitable for stainless steel housings
 Adapté au corps en fonte / Suitable for grey cast housings
 Adapté au corps en tôle / Suitable for sheet metal housings
 Adapté au corps en thermoplastique / Suitable for thermoplastic housings

Le tableau donne des informations sur des formes comparables. Il ne garantit pas l'interchangeabilité exacte sur le plan dimensionnel. / The tables give only information on comparable designs, review the critical dimensions for more precise interchanging or contact SNR customer service. / Die Tabelle gibt lediglich Auskunft über vergleichbare Bauformen, nicht jedoch über die exakte metrische Austauschbarkeit. / La tabla da información únicamente sobre formas comparables, no garantiza una intercambiabilidad exacta en el aspecto dimensional. / La tabella fornisce unicamente informazioni sulle forme costruttive paragonabili, non sull'eventuale intercambiabilità dimensionale. / A tabela dá informações exclusivamente sobre desenhos funcionalmente equivalentes e não dimensionalmente idênticos.

LINEAR GUIDANCE

Complete systems (shafts, systems)



- Modular design system (connection possibilities for AXC, AXDL, AXS, AXLT)
- Drive adaptations
- Power and cable tracks, gantry support legs
- Ready for installation as an integrated package

Ball rail systems



- Size: 15 to 55
- Conventional design with patented ball cage technology
- Wide range of bearing carriage styles
- Dimensions in accordance with DIN/ISO
- Miniature types. Sizes 9 to 15, available in small and wide rail versions

Ball screws



- Ground and rolled types (T7 available from stock)
- Diameter 6-80 mm, lead 1-50 mm (rolled type accuracy T7)
- Wide range of nuts (DIN/ISO, cylindrical, screw nut, with big lead)

Bearing units for ball screws



- Fixed bearing unit
- Floating bearing unit

Linear bushings



- Ball bushings
- Ball sleeve
- Top ball
- Linear Sets with ball bushings and top balls
- Shaft support rails, shaft support blocks, solid and hollow shafts



© NTN-SNR 2012-04 - Conception/Réalisation Service publicité NTN-SNR - Photos : © NTN-SNR / Pedro Studio Photo / Shutterstock



Christophe Quarry Operator

Need reliability and performance in your applications?

«In our business, daily production is measured in thousands of tonnes. The installations are large and are subjected to harsh treatment. As a quarry operator, my objectives are clear: to increase the active working time and improve the performance of my machines, whilst also reducing maintenance costs and improving productivity. Crushers, screens and conveyors... bearings play a key role in keeping machinery running smoothly from a mechanical point of view. Choosing NTN-SNR guarantees maximum productivity.»

NTN-SNR presents ULTAGE spherical roller bearings, the result of the latest technological breakthroughs. With the special EF800 series for screens and crushers, peace of mind is assured.



ULTAGE®



www.ntn-snr.com

With You



National Power Local Strength

Supplying industrial products, services and solutions since 1998



Barden UK is a world leader in the design and manufacture of super precision ball and roller bearings for a wide range of industries. Our success has been built on a solid foundation of manufacturing and engineering design expertise.

Our bearings are produced using advanced technology to the highest standard available. Our bearings are used in virtually every sector of industry where there is a need to meet critical tolerances, high speeds and reliable performance under the most demanding conditions

Our product range covers thousands of bearing variations ranging in size from 5mm to over 700mm outside diameter. Our bearings can meet and will usually exceed ISO P2 (ABEC 9) standards.



Products available include:

Angular Contact Ball Bearings –

Available in P4, P4S and P2 precision grade with 15° and 25° contact angles. Steel balls as standard.

Universally ground for interchangeable mounting arrangements or in dedicated matched bearing sets.



Series available: **7000, 71800, 71900, 7200, 7300**

Also available in optional versions as detailed below :

a) Sealed Bearings –

Sealed and grease using non-contact seals these bearings offer optimum performance in challenging applications. Eliminating contamination and cost effective due to pre-greasing, leading to time saved in preparation.

b) Direct Lubrication Version –

Designed for maximum speed where radial oil lubrication systems are featured. As a rule the use of DLR (Direct Lube) bearings results in a reduction of running costs and proves more reliable than systems using axial oil supply.

c) Ceramic Ball (Hybrid) Bearings -

Designed for high-speed, high rigidity applications. As ceramic balls are considerably lighter and harder than steel balls, they can run at higher speeds and lower temperatures. This leads to less heat generation, less energy and longer lubricant life.

Ceramic Ball Features

60% lighter than steel balls

- Centrifugal forces reduced
- Lower vibration levels
- Less heat generation
- Reduced ball skidding

50% higher modulus of elasticity

- Improved bearing rigidity
- Naturally fracture resistant

Tribochemically inert

- Low adhesive wear
- Improved Lubricant life
- Superior corrosion resistance

Which gives the following benefits of Ceramic Hybrid Bearings

- Depending on application service life can be 5 years longer
- Running speeds up to 50% higher
- Overall accuracy and quality improves
- Lower operating costs
- High temperature capability
- Electrically non-conductive

d) X-Life Ultra -

These are Hybrid bearings using ceramic balls and Cronidur (High Nitrogen Steel) rings designed for maximum demands on speed and load. Because of the finer structure of the Cronidur steel the bearings ensure cooler running, higher contact pressures and superior corrosion resistance. This increases the material fatigue life and gives extended service life.

Single and Double Row Cylindrical Roller Bearings –

Available in 3 designs -

- N10 series, single row
- NN30 series, double row
- NNU49 series, double row



Manufactured to SP and UP precision class, with brass and PEEK cages in tapered and parallel bore versions.

This range of bearings are particularly suitable for high load, high rigidity and high speed applications. For efficient lubrication these bearings are available with an annular groove and lubrication holes in the outer ring. Ceramic rollers are available for ultra high speed applications.



Ballscrew Support Bearings –

Manufactured to P4 precision grade and suitable for all screw drive and screw drive support applications.

a) Metric and Imperial Support Bearings –

Available as single direction, universally matchable design as standard. Dedicated matched bearing sets and narrow series BSB designs are also available.

Metric series available, BSB, 7602 and 7603.

Also available in sealed versions - Sealed and grease using non-contact seals these bearings offer optimum performance in challenging applications. Eliminating contamination and cost effective due to pre-greasing, leading to time saved in preparation.

Double Directional Angular Contact Thrust Ball Bearings –

Designed to axially locate spindles in both directions

and typically used in conjunction with cylindrical roller bearings (N and NN series) particularly suitable for heavy axial load applications.

Manufactured to SP and UP precision class with Brass cage.



2344 and 2347 series -

Available with 60° contact angle and large number of balls provides high axial stiffness for reasonably high speed applications.

Floating Displacement Bearings -

Series available FD10.

Designed for use in maximum speed and low load carrying capability applications. Using a combination of a ball bearing outer ring and a cylindrical roller bearing inner ring this ensures a free displacement of the outer ring relative to the inner ring during operation. Using ceramic balls and Cronidur (High Nitrogen Steel) inner rings as standard this enables high speed and adequate low carrying capacity.

Sealed and DLR (Direct Lube), Tapered and Parallel bore versions are also available.

Instrument and Miniature Bearings -

A wide range of very small metric and imperial ball bearings for use in a wide range of applications, from medical equipment, gyroscopes, measuring instruments and dental equipment.

Available with various cage materials, seals and shields and manufactured to P4 precision grade.

Typical Applications and Industries for Super Precision Bearings

- Machine Tools :
 - a) Grinding
 - b) Milling
 - c) Turning
 - d) Machining Centres
 - e) Ball Screw Supports
- Aerospace & Defence Industries
- Satellite Positioning Applications
- Automotive - Including Component Manufacture and Turbochargers
- Vacuum Pumps
- Textile Equipment
- Food Processing
- Robotics
- Medical & Dental Equipment
- High Speed Electric Motors
- Gas Turbines
- Spindle Repairers and Rebuilders
- Machine Tool Repairers and Rebuilders
- Specialist Applications

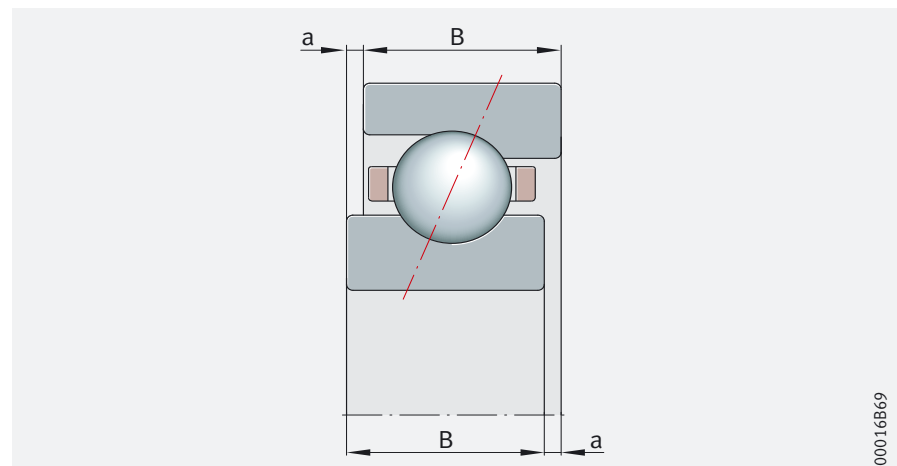


Spindle bearings

Universal bearings

FAG spindle bearings are always designed as universal bearings, which means that:

- the bearing rings are of the same width
- the projection on both sides of the bearing is of the same size, *Figure 2*.



B = bearing width
a = projection

Figure 2
Universal preload system

Advantages

Single bearings can be fitted in any arrangement required, such as a rigid X, O or tandem arrangement or with spring preloading, or can be combined in different sets.

In order to ensure uniform load-bearing in the tandem arrangement, the bearings used should have the same deviation in the inner ring bore and the outside diameter.

In an O arrangement and with rigid adjustment, sorting through checking of the interference between the shaft and bearing bore or the housing and bearing outside diameter can help to control the variations in the actual preload after mounting.

Arrangement of the bearings can be carried out in accordance with the arrow on the cylindrical surface of the outer ring. This provides logistical advantages for the customer, especially in spare parts procurement and stockholding of bearings.

Universal bearing sets

Bearing sets comprise universal bearings with the same deviation in the inner ring bore and the same deviation in the outside diameter. The deviation stands, starting from the actual value code, for the inner ring bore or the outside diameter on the bearing ring. The sets are of identical technical quality to single bearings with the same deviation in the inner ring bore and the outside diameter.

Marking of bearing sets

The first letter indicates the number of bearings in the set:

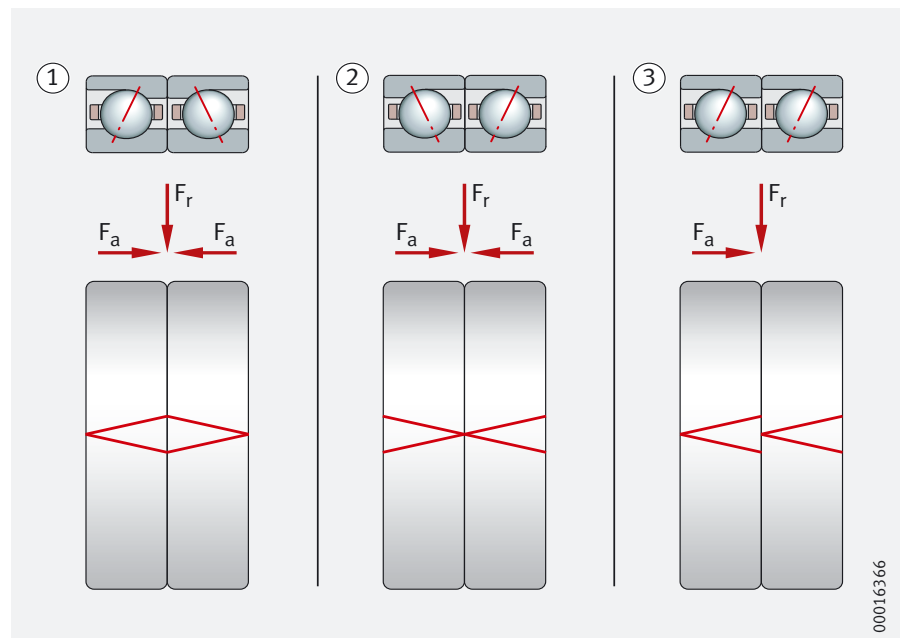
- D = 2 bearings (duplex)
- T = 3 bearings (triplex)
- Q = 4 bearings (quadruplex).

A "U" stands for "Universal", for example in DU. After these letters, the preload class is then indicated, for example "L" for light preload, in this case DUL.

Universal bearing sets can be fitted in any arrangement required. Possible bearing arrangements are shown in *Figure 3*.

- F_r = radial load
 F_a = axial load
- ① DU becomes DB, 2 bearing set in an O arrangement
 - ② DU becomes DF, 2 bearing set in an X arrangement
 - ③ DU becomes DT, 2 bearing set in a tandem arrangement

Figure 3
Bearing arrangements for a DU set



Ready-to-fit bearing sets

Ready-to-fit bearing sets are also available by agreement. In this case, the fitting sequence is indicated by a large arrow.

Ready-to-fit bearing sets correspond in technical terms to the universal bearing sets. However, the latter offer significant logistical advantages over the ready-to-fit sets, especially in spare parts procurement and stockholding.

Mounting and Handling of Super Precision bearings is essential for the full performance capacity to be achieved.

Common mistakes made when fitting any super precision bearings.

- Contamination of the bearing prior to fitting
- Assembling the bearing set in the wrong configuration
- Failing to correctly lubricate the bearings before mounting
- General fitting problems such as misalignment and incorrect pre-loading.

Mounting Procedure

- In preparation for mounting the bearing arrangement should be checked against a drawing or manual preferably, and the bearings must be arranged accordingly.
- The bearings are marked with the highest point of eccentricity and these marks should be aligned when mounting.
- Angular contact ball bearings may only be loaded in one axial direction, strict attention should

be paid to their direction while mounting.

- When mounting Tapered bore cylindrical roller bearings the clearance or preload fit depends how far the bearing is driven up the tapered seat. The best method is to use ring gauges to set the clearance/preload quickly and accurately.
- Induction heating is advisable for the mounting of precision bearings via the inner ring as this expands making mounting much easier. When fitting the bearing rings you should ensure that these are fitted tightly to the contact surface to avoid settling or misalignment. Premature failure could occur if this is not the case as the bearings would be operating without any preload.

Once mounted a correct running in procedure should always be used which ensures even distribution of lubricant and stabilises bearing temperature.

Barden Recommended Running-in Procedure is as follows:

Running-in process

Grease distribution is completed once a stable bearing temperature has been achieved.

Recommendations for the grease distribution cycle of super precision bearings, *Figure 4*.

The running-in process comprises several cycles of start/stop operation at different speeds and for different running times, while the stationary times after each cycle are very important. The number of cycles required may vary according to the bearing size, the number of bearings, the maximum speed and the bearing environment.

Further cycles should be carried out for an increased running time and with a shortened stationary time until the equilibrium temperature is achieved.



- ① Speed
- ② Running and stationary times
- ③ Running time
- ④ Stationary time
- ⑤ Time 11 min, 40 s
- ⑥ Time 56 min, 40 s

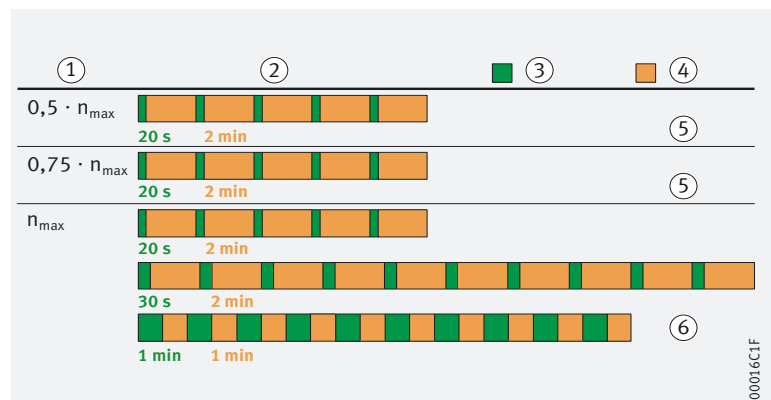


Figure 4
Grease distribution cycle for open and sealed spindle bearings



The industry standard

Oilite[®] has been acknowledged as the undisputed market leader in self-lubricating bearings for more than 80 years, and today sets the standard for other products with its quality and reliability.

The extensive technical knowledge and manufacturing resources behind Oilite[®] have resulted in a vast array of sophisticated, high quality components that are supplied to a wide range of industries, throughout the world.

Widest range in Europe

As well as being the UK's number one choice, Oilite[®] bearings are also produced for other EU markets and offer the widest choice of self-lubricating bearings anywhere in Europe. Standard stock ranges are available in metric and inch. To ensure that customers have the benefit of fast delivery, a large range of European sizes are always stocked.

- 1000 European standard sizes
- Stock holding for fast delivery

There are now five standard stock ranges, ISO Metric, Inch, DIN 1850, French Metric and Scandinavian Metric.

Bespoke products

Where customer requirements are not met by stock items, our bespoke service enables us to produce both bronze and iron bearings and customer specified structural parts that are specifically designed to meet individual requirements.

Manufacturing quality and efficiency

Our manufacturing facilities are highly automated for maximum efficiency and competitiveness. Rigorous quality control procedures are adopted at all stages of manufacture.

Custom Machining

We also specialise in machining Oilite[®] self-lubricating bearings and plates to meet individual specifications and tolerances. This service provides, for example, one-off requirements in machine maintenance or limited production runs in the OEM design field or for prototype testing before committing to tooling. Specialist tools and machining techniques are employed. This maintains the performance characteristics and physical properties which are the prerequisite of these components.

Certification

The company is certified to the Quality Management Systems requirement of ISO 9001:2008 by LRQA Certificate No. LRQ0960929 and is approved for use by:

- Augusta Westland
- Messier Dowty
- Hawker Beechcraft Corporation

Certificates of conformity & Certificates of material analysis are supplied by request.

Special Lubricants & Additives

The standard stock range of Oilite[®] bearings is impregnated with a mineral oil SAE 30 viscosity; all machined Oilite[®] bearings and plates are supplied fully impregnated after machining. A wide range of lubricants with varying temperature ranges are available to meet specific requirements. Lubricant additives are also available to impart anti-wear properties in marginal lubrication conditions such as stainless steel shaft applications.

Technical Advice

Extensive technical resources are available to resolve bearing problems. Engineers are always available to discuss projects in detail, without obligation.

Oilite[®] conforms to DIN 1850/ISO 2795

Oilite[®] metric bearings are manufactured to the tolerances set out in ISO 2795 - Plain Bearings from Sintered Material. The German stock range of bearings conform to DIN 1850.

Material Choice

Standard Oilite[®] - oil retaining tin bronze is the generally specified material. It gives a good balance between strength, wear resistance, conformability and durability in operation. Ideal in a wide variety of applications where "self lubricating" properties are required over a long period of time.

Super Oilite[®] - an iron copper material suited to high static loads and slow oscillatory motion.

Iron Oilite[®] - 100% iron oil-retaining bearings provide an ideal solution in high stress low revolution applications.

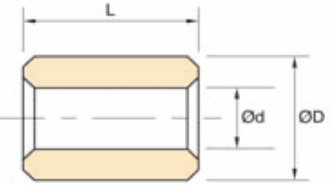


oilite® BEARINGS

PLAIN
BEARINGS

Metric plain bearings to ISO 2795

Part Code	Inner Diameter			Outer Diameter			Basic L (js13)	Tolerances	
	Basic	Min.	Max.	Basic	Min.	Max.		ID	OD
AS 0204*	2	2.014	2.024	4	4.015	4.027	4	E7	r7
AM 0205	2	2.002	2.012	5	5.019	5.031	2 4 3	G7	s7
AM 0305	3	3.002	3.012	5	5.019	5.031	3 4 6	G7	s7
AM 0306	3	3.002	3.012	6	6.019	6.031	3 4 6	G7	s7
AS 0308*	3	3.014	3.024	8	8.019	8.034	4	E7	r7
AM 0407	4	4.004	4.016	7	7.023	7.038	3 4 6	G7	s7
AM 0408	4	4.004	4.016	8	8.023	8.038	4 6 8 12	G7	s7
AS 0410*	4	4.020	4.032	10	10.019	10.034	8	E7	r7
AM 0508	5	5.004	5.016	8	8.023	8.038	4 5 8 10 12 16	G7	s7
AM 0509	5	5.004	5.016	9	9.023	9.038	4 5 8	G7	s7
AS 0510*	5	5.020	5.032	10	10.019	10.034	6 8 10	E7	r7
AS 0512*	5	5.020	5.032	12	12.023	12.041	10	E7	r7
AM 0609	6	6.004	6.016	9	9.023	9.038	4 6 10 12 16	G7	s7
AM 0610	6	6.004	6.016	10	10.023	10.038	4 6 10 12 16	G7	s7
AS 0612*	6	6.020	6.032	12	12.023	12.041	6 8 12	E7	r7
AS 0614*	6	6.020	6.032	14	14.023	14.041	12	E7	r7
AM 0710	7	7.005	7.020	10	10.023	10.038	5 8 10	G7	s7
AM 0711	7	7.005	7.020	11	11.028	11.046	8 10	G7	s7
AM 0811	8	8.005	8.020	11	11.028	11.046	6 8 12	G7	s7
AM 0812	8	8.005	8.020	12	12.028	12.046	6 8 12 16 20	G7	s7
AM 0814	8	8.005	8.020	14	14.028	14.046	8 12 16 20	G7	s7
AS 0818*	8	8.025	8.040	18	18.023	18.041	16	E7	r7
AM 0912	9	9.005	9.020	12	12.028	12.046	6 10 14	G7	s7
AM 0914	9	9.005	9.020	14	14.028	14.046	6 10 14	G7	s7
AM 1013	10	10.005	10.020	13	13.028	13.046	10 16	G7	s7
AM 1014	10	10.005	10.020	14	14.028	14.046	8 10 16 20 25	G7	s7
AM 1015	10	10.005	10.020	15	15.028	15.046	10 16 20 25	G7	s7
AM 1016	10	10.005	10.020	16	16.028	16.046	8 10 16 20 25	G7	s7
AS 1022*	10	10.025	10.040	22	22.028	22.046	20	E7	r7
AM 1215	12	12.006	12.024	15	15.028	15.046	12 16 20 25	G7	s7
AM 1216	12	12.006	12.024	16	16.028	16.046	8 12 16 20 25	G7	s7
AM 1218	12	12.006	12.024	18	18.028	18.046	8 12 16 20 25	G7	s7
AS 1225*	12	12.032	12.050	25	25.028	25.049	25	E7	r7
AM 1418	14	14.006	14.024	18	18.028	18.046	10 14 20	G7	s7
AM 1420	14	14.006	14.024	20	20.035	20.056	10 14 20 30	G7	s7
AS 1428*	14	14.032	14.050	28	28.028	28.049	30	E7	r7
AM 1519	15	15.006	15.024	19	19.035	19.056	10 15 20 25 30	G7	s7
AS 1520*	15	15.032	15.050	20	20.028	20.049	10 15 20 25 30	E7	r7
AM 1521	15	15.006	15.024	21	21.035	21.056	10 15 20 25	G7	s7
AM 1522	15	15.006	15.024	22	22.035	22.056	16 20 30	G7	s7
AS 1530*	15	15.032	15.050	30	30.028	30.049	30	E7	r7
AM 1620	16	16.006	16.024	20	20.035	20.056	10 12 16 20 25 30	G7	s7
AM 1622	16	16.006	16.024	22	22.035	22.056	12 16 20 25 30	G7	s7
AS 1632*	16	16.032	16.050	32	32.034	32.059	30	E7	r7
AM 1822	18	18.006	18.024	22	22.035	22.056	12 18 20 30	G7	s7
AM 1824	18	18.006	18.024	24	24.035	24.056	12 18 30	G7	s7
AM 1825	18	18.006	18.024	25	25.035	25.056	12 16 20 22 30	G7	s7
AS 1835*	18	18.032	18.050	35	35.034	35.059	30	E7	r7
AM 2024	20	20.007	20.028	24	24.035	24.056	16 20 25 32	G7	s7
AM 2025	20	20.007	20.028	25	25.035	25.056	15 20 25 30	G7	s7
AM 2026	20	20.007	20.028	26	26.035	26.056	15 20 25 30	G7	s7
AM 2028	20	20.007	20.028	28	28.035	28.056	20 25 30 40 50	G7	s7
AS 2040*	20	20.040	20.061	40	40.034	40.059	40	E7	r7
AM 2227	22	22.007	22.028	27	27.035	27.056	15 20 25 35	G7	s7
AM 2228	22	22.007	22.028	28	28.035	28.056	15 20 25 28 30	G7	s7
AM 2232	22	22.007	22.028	32	32.043	32.068	20 30 50	G7	s7
AM 2530	25	25.007	25.028	30	30.035	30.056	20 25 30 50	G7	s7



Concentricity
≤ 50 = IT9
> 50 = IT10

Bearings marked * are not included in ISO 2795.

For ordering see following part code examples.

4 ID x 7 OD x 4 long = AM040704 or 12 ID x 15 OD x 25 long = AM121525.

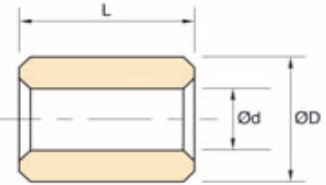
Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.

Metric plain bearings to ISO 2795 – continued

Part Code	Inner Diameter			Outer Diameter			Basic L (js13)				Tolerances					
	Basic	Min.	Max.	Basic	Min.	Max.					ID	OD				
AM 2532	25	25.007	25.028	32	32.043	32.068	20	25	30	35	40	G7	s7			
AM 2535	25	25.007	25.028	35	35.043	35.068	25	35	50			G7	s7			
AM 2545*	25	25.040	25.061	45	45.034	45.059	35					E7	r7			
AM 2833	28	28.007	28.028	33	33.043	33.068	20	30				G7	s7			
AM 2836	28	28.007	28.028	36	36.043	36.068	20	25	30	40		G7	s7			
AM 3035	30	30.007	30.028	35	35.043	35.068	20	25	30			G7	s7			
AM 3038	30	30.007	30.028	38	38.043	38.068	20	25	30	40		G7	s7			
AM 3040	30	30.007	30.028	40	40.043	40.068	25	35	40	45	50	60	G7	s7		
AM 3050*	30	30.05	30.075	50	50.034	50.059	60					E7	r7			
AM 3238	32	32.009	32.034	38	38.043	38.068	20	25	30	40		G7	s7			
AM 3240	32	32.009	32.034	40	40.043	40.068	20	25	30	40	50		G7	s7		
AM 3541	35	35.009	35.034	41	41.043	41.068	25	35	40			G7	s7			
AM 3544	35	35.009	35.034	44	44.043	44.068	22	28	35			G7	s7			
AM 3545	35	35.009	35.034	45	45.043	45.068	25	35	40	50	70		G7	s7		
AM 3642	36	36.009	36.034	42	42.043	42.068	22	28	36	45		G7	s7			
AM 3645	36	36.009	36.034	45	45.043	45.068	22	28	36	45		G7	s7			
AM 3844	38	38.009	38.034	44	44.043	44.068	25	35	45			G7	s7			
AM 3848	38	38.009	38.034	48	48.043	48.068	35	45	55			G7	s7			
AM 4046	40	40.009	40.034	46	46.043	46.068	30	40	50			G7	s7			
AM 4050	40	40.009	40.034	50	50.043	50.068	25	30	32	35	40	50	60	80	G7	s7
AM 4248	42	42.009	42.034	48	48.043	48.068	40	50				G7	s7			
AM 4252	42	42.009	42.048	52	52.053	52.099	40	50	60			G8	s8			
AM 4551	45	45.009	45.048	51	51.053	51.099	35	45	55			G8	s8			
AM 4555	45	45.009	45.048	55	55.053	55.099	35	45	55	65	75	80		G8	s8	
AM 4556	45	45.009	45.048	56	56.053	56.099	28	36	45	56		G8	s8			
AM 4565*	45	45.050	45.075	65	65.041	65.071	80					E7	r7			
AM 4855	48	48.009	48.048	55	55.053	55.099	50					G8	s8			
AM 4858	48	48.009	48.048	58	58.053	58.099	50					G8	s8			
AM 5058	50	50.009	50.048	58	58.053	58.099	35	50				G8	s8			
AM 5060	50	50.009	50.048	60	60.053	60.099	30	35	40	50	63	70	75	100	G8	s8
AM 5070*	50	50.050	50.089	70	70.043	70.089	70					E8	r8			
AM 5563	55	55.010	55.056	63	63.053	63.099	40	55				G8	s8			
AM 5570*	55	55.060	55.106	70	70.043	70.089	70					E8	r8			
AM 5565	55	55.060	55.106	65	65.041	65.087	40	55	70			E8	r8			
AM 6068	60	60.010	60.056	68	68.059	68.105	50	60	70			G8	s8			
AM 6070	60	60.010	60.056	70	70.059	70.105	50	60	120			G8	s8			
AM 6072	60	60.010	60.056	72	72.059	72.105	50	60	70			G8	s8			
AM 6075*	60	60.060	60.106	75	75.043	75.089	60	90				E8	r8			
AM 6080*	60	60.060	60.106	80	80.043	80.089	120					E8	r8			
AM 6085*	60	60.060	60.106	85	85.051	85.105	90					E8	r8			
AM 6370	63	63.010	63.056	70	70.059	70.105	40	50				G8	s8			
AM 6575*	65	65.060	65.106	75	75.043	75.089	60	90				E8	r8			
AM 6580*	65	65.060	65.106	80	75.043	75.089	60	90				E8	r8			
AM 7080*	70	70.060	70.106	80	75.043	75.089	60	90	120			E8	r8			
AM 7085*	70	70.060	70.106	85	85.051	85.105	60	90				E8	r8			
AM 7585*	75	75.060	75.106	85	85.051	85.105	70	100				E8	r8			
AM 7590*	75	75.060	75.106	90	90.051	90.105	70	100				E8	r8			
AM 75100*	75	75.060	75.106	100	100.051	100.105	100					E8	r8			
AM 8090*	80	80.060	80.106	90	90.051	90.105	70	100				E8	r8			
AM 8095*	80	80.060	80.106	95	95.051	95.105	70	100				E8	r8			
AM 80100*	80	80.060	80.106	100	100.051	100.105	120					E8	r8			
AM 80105*	80	80.060	80.106	105	105.054	105.108	100					E8	r8			
AM 8595*	85	85.072	85.125	95	95.051	95.105	100					E8	r8			
AM 85100*	85	85.072	85.125	100	100.051	100.105	100					E8	r8			
AM 90105*	90	90.072	90.125	105	105.054	105.089	80					E8	r8			
AM 90110*	90	90.072	90.125	110	110.054	110.108	80					E8	r8			
AM 100120*	100	100.072	100.125	120	120.054	120.108	80	100	120			E8	r8			

oilite®
BEARINGS

Note
ISO Metric Bearing Standard is G7 s7



Concentricity
≤ 50 = IT9
> 50 = IT10

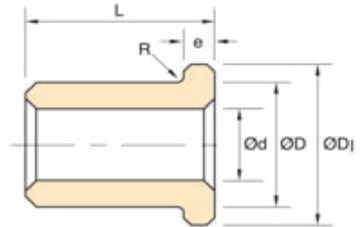
Bearings marked * are not included in ISO 2795.

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.



oilite® BEARINGS

PLAIN
BEARINGS



Metric flanged bearings to ISO 2795

Part Code	Inner Diameter			Outer Diameter			ØD1	e	Basic L	Tolerances	
	Basic	Min.	Max.	Basic	Min.	Max.				ID	OD
AL 0205	2	2.002	2.012	5	5.019	5.031	8	1.5	3	G7	s7
AT 0305*	3	3.020	3.032	5	5.015	5.027	8	1.5	4	E7	r7
AL 0306	3	3.004	3.016	6	6.019	6.031	9	1.5	3 4	G7	s7
AL 0408	4	4.004	4.016	8	8.023	8.038	12	2	4 6 8 12	G7	s7
AT 0408	4	4.020	4.032	8	8.019	8.034	10	1.5	6	E7	r7
AL 0509	5	5.004	5.016	9	9.023	9.038	13	2	4 5 8	G7	s7
AT 0510*	5	5.020	5.032	10	10.019	10.034	12	2	6	E7	r7
AL 0610	6	6.004	6.016	10	10.023	10.038	14	2	4 6 8 10 16	G7	s7
AT 0612*	6	6.020	6.032	12	12.023	12.041	14	2	6	E7	r7
AL 0711	7	7.005	7.020	11	11.028	11.046	15	2	5 8	G7	s7
AL 0812	8	8.005	8.020	12	12.028	12.046	16	2	6 8 12 16	G7	s7
AT 0814*	8	8.025	8.040	14	14.023	14.041	18	3	8	E7	r7
AT 0914*	9	9.025	9.040	14	14.023	14.041	19	2.5	6 10 14	E7	r7
AL 1013	10	10.005	10.020	13	13.028	13.046	17	2.5	8 10 16 20	G7	s7
AT 1014*	10	10.025	10.040	14	14.023	14.041	18	2	12	E7	r7
AL 1015	10	10.005	10.020	15	15.028	15.046	21	3	8 10 16 20	G7	s7
AL 1016	10	10.005	10.020	16	16.028	16.046	22	3	8 10 12 16	G7	s7
AT 1016*	10	10.025	10.040	16	16.023	16.041	20	3	8 10	E7	r7
AL 1215	12	12.006	12.024	15	15.028	15.046	21	3	12 16 20	G7	s7
AL 1217	12	12.006	12.024	17	17.028	17.046	23	3	12 16 20 25	G7	s7
AL 1218	12	12.006	12.024	18	18.023	18.041	24	3	8 12 20	G7	s7
AT 1218*	12	12.032	12.050	18	18.023	18.041	22	3	10 12	E7	r7
AL 1420	14	14.006	14.024	20	20.035	20.056	26	3	10 14 20	G7	s7
AL 1519	15	15.006	15.024	19	19.035	19.056	25	3	16 20 25	G7	s7
AL 1521	15	15.006	15.024	21	21.035	21.056	27	3	10 15 20 25	G7	s7
AT 1522*	15	15.032	15.050	22	22.028	22.049	28	3	12 16	E7	r7
AL 1620	16	16.006	16.024	20	20.035	20.056	27	3	16 20 25	G7	s7
AT 1620*	16	16.032	16.050	20	20.028	20.049	24	2	12	E7	r7
AL 1622	16	16.006	16.024	22	22.035	22.056	28	3	12 16 20 25	G7	s7
AT 1622*	16	16.032	16.050	22	22.028	22.049	28	4	12 16	E7	r7
AL 1824	18	18.006	18.024	24	24.035	24.056	30	3	12 18 22 30	G7	s7
AT 1825*	18	18.032	18.050	25	25.028	25.049	32	4	12 16	E7	r7
AL 2024	20	20.007	20.028	24	24.035	24.056	30	3	16 20 25	G7	s7
AL 2026	20	20.007	20.028	26	26.035	26.056	32	3	15 20 25 30	G7	s7
AT 2028*	20	20.040	20.061	28	28.028	28.049	35	4	16 20	E7	r7
AL 2228	22	22.007	22.028	28	28.035	28.056	34	3	15 20 25 30	G7	s7
AL 2530	25	25.007	25.028	30	30.035	30.056	39	3.5	20 25 32	G7	s7
AL 2532	25	25.007	25.028	32	32.043	32.068	39	3.5	20 25 30	G7	s7
AT 2535*	25	25.040	25.061	35	35.034	35.059	45	5	16 25	E7	r7
AL 2836	28	28.007	28.028	36	36.043	36.068	44	4	20 25 30	G7	s7
AL 3038	30	30.007	30.028	38	38.043	38.068	46	4	20 25 30	G7	s7
AT 3040*	30	30.040	30.061	40	40.034	40.059	50	5	20 30	E7	r7
AL 3238	32	32.009	32.034	38	38.043	38.068	46	4	20 25 32	G7	s7
AL 3240	32	32.009	32.034	40	40.043	40.068	48	4	20 25 30	G7	s7
AL 3545	35	35.009	35.034	45	45.043	45.068	55	5	20 25 35 40	G7	s7
AL 3848	38	38.009	38.034	48	48.043	48.068	58	5	25 35	G7	s7
AL 4046	40	40.009	40.034	46	46.043	46.068	56	5	25 32 40	G7	s7
AL 4050	40	40.009	40.034	50	50.043	50.068	60	5	25 30 40 50	G7	s7
AT 4050*	40	40.050	40.075	50	50.034	50.059	60	6	25 40	E7	r7
AL 4252	42	42.009	42.048	52	52.053	52.099	62	5	40 50	G8	s8
AL 4555	45	45.009	45.048	55	55.053	55.099	65	5	35 45 55	G8	s8
AT 4555*	45	45.050	45.075	55	55.041	55.071	65	6	30 45	E7	r7
AL 5060	50	50.009	50.048	60	60.053	60.099	70	5	32 35 40 50	G8	s8
AT 5060*	50	50.050	50.075	60	60.041	60.071	70	6	30 50	E7	r7
AT 6072	60	60.060	60.106	72	72.043	72.089	84	6	50 60	E8	r8
AT 6075	60	60.060	60.106	75	75.043	75.089	85	8	60	E8	r8
AT 7085	70	70.060	70.106	85	85.051	85.105	95	8	60	E8	r8
AT 8095	80	80.060	80.106	95	95.051	95.105	105	8	70	E8	r8
AT 90110	90	90.072	90.125	110	110.054	110.108	120	8	50	E8	r8
AT 100120	100	100.072	100.125	120	120.054	120.108	130	8	80	E8	r8

Bearings marked * are not included in ISO 2795.

For ordering see following part code examples. 4 ID x 8 OD x 6 long = AL040806 or 12 ID x 15 OD x 20 long = AL121520.

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.



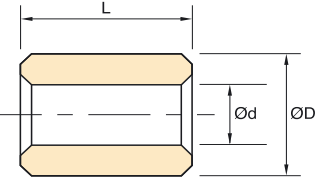
Inch plain bearings

Part Code	Inner Diameter Ød			Outer Diameter ØD			Basic L													
	Basic	Min.	Max.	Basic	Min.	Max.														
AI 0203	1/8	0.1255	0.1285	3/16	0.1885	0.1895	1/8													
AI 0204	1/8	0.1270	0.1280	1/4	0.2520	0.2530	1/4													
AI 0304	3/16	0.1865	0.1875	1/4	0.2510	0.2520	1/4	5/16	3/8	1/2										
AI 0305	3/16	0.1883	0.1888	5/16	0.3137	0.3142	3/16	1/4	5/16	3/8	1/2	5/8	3/4							
AI 0306	3/16	0.1885	0.1875	3/8	0.3770	0.3780	3/8													
AI 0405	1/4	0.2495	0.2505	5/16	0.3135	0.3145	1/2													
AI 0406	1/4	0.2508	0.2513	3/8	0.3767	0.3772	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	1					
AI 0407	1/4	0.2501	0.2506	7/16	0.4385	0.4390	1/4	5/16	3/8	7/16	1/2	5/8	3/4							
AI 0408	1/4	0.2507	0.2512	1/2	0.5020	0.5025	3/8	1/2	5/8	3/4	1									
AI 0506	5/16	0.3125	0.3135	3/8	0.3760	0.3770	1/2	5/8												
AI 0507	5/16	0.3132	0.3137	7/16	0.4390	0.4395	1/4	5/16	3/8	1/2	5/8	3/4	1	1 1/4	1 3/4					
AI 0508	5/16	0.3132	0.3137	1/2	0.5017	0.5022	1/4	5/16	3/8	1/2	5/8	3/4	1							
AI 0607	3/8	0.3755	0.3765	7/16	0.4390	0.4400	3/8	1/2	5/8											
AI 0608	3/8	0.3757	0.3762	1/2	0.5020	0.5025	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2			
AI 0609	3/8	0.3755	0.3765	5/8	0.5645	0.5655	5/8	1												
AI 0610	3/8	0.3754	0.3759	3/4	0.6260	0.6270	3/8	1/2	5/8	3/4	7/8	1	1 1/8							
AI 0612	3/8	0.3760	0.3770	3/4	0.7520	0.7530	1/2	1												
AI 0709	7/16	0.4382	0.4387	5/8	0.5637	0.5647	5/8	1												
AI 0710	7/16	0.4380	0.4390	3/4	0.6260	0.6270	3/4	1												
AI 0711	7/16	0.4383	0.4388	13/16	0.6890	0.6900	3/8	1/2	3/4	1	1 1/4									
AI 0810	1/2	0.5008	0.5013	3/4	0.6265	0.6275	1/4	5/16	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4			
AI 0811	1/2	0.5015	0.5020	13/16	0.6895	0.6905	3/8	1/2	5/8	3/4	7/8	1	1 1/4							
AI 0812	1/2	0.5015	0.5020	3/4	0.7525	0.7535	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	2					
AI 0814	1/2	0.5020	0.5030	7/8	0.8780	0.8790	1/2	1 1/2												
AI 0816	1/2	0.5010	0.5020	1	1.0030	1.0040	1													
AI 0911	5/8	0.5628	0.5638	13/16	0.6890	0.6900	1/2	5/8	3/4	1	1 1/4									
AI 0912	5/8	0.5640	0.5650	3/4	0.7520	0.7530	1													
AI 0913	5/8	0.5620	0.5630	13/16	0.8140	0.8150	3/4	1												
AI 1012	3/4	0.6255	0.6265	7/8	0.7515	0.7525	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2						
AI 1013	3/4	0.6265	0.6275	13/16	0.8145	0.8155	1/2	3/4	1	1 1/4	1 1/2									
AI 1014	3/4	0.6255	0.6265	7/8	0.8770	0.8780	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2						
AI 1016	3/4	0.6270	0.6280	1	1.0025	1.0035	1													
AI 1113	13/16	0.6875	0.6885	13/16	0.8140	0.8150	1													
AI 1115	13/16	0.6881	0.6891	13/16	0.9393	0.9403	5/8	1	1 1/4											
AI 1214	3/4	0.7505	0.7515	7/8	0.8765	0.8775	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2						
AI 1215	3/4	0.7535	0.7545	13/16	0.9405	0.9415	3/4	1												
AI 1216	3/4	0.7508	0.7518	1	1.0020	1.0030	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2	2 1/2	2 3/4		
UI 1216	3/4	0.7522	0.7532	1	1.0025	1.0035	1 1/2	1 3/4	2											
AI 1218	3/4	0.7525	0.7535	1 1/8	1.1280	1.1290	3/4	1	1 1/4											
AI 1220	3/4	0.7525	0.7535	1 1/4	1.2535	1.2545	1 1/8	1 1/4	1 1/2	2										
AI 1416	7/8	0.8755	0.8765	1	1.0017	1.0027	3/4	7/8	1	1 1/8	1 1/4	1 1/2								
AI 1418	7/8	0.8757	0.8767	1 1/8	1.1270	1.1280	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2						
AI 1618	1	1.0008	1.0018	1 1/8	1.1270	1.1280	1/2	3/4	1	1 1/8	1 1/4	1 1/2								
AI 1619	1	1.0010	1.0020	1 3/16	1.1885	1.1895	3/4	1 1/2												
AI 1620	1	1.0010	1.0020	1 1/4	1.2526	1.2536	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2						
AI 1622	1	1.0020	1.0030	1 3/8	1.3780	1.3790	1													
AI 1624	1	1.0025	1.0035	1 1/2	1.5040	1.5050	1	1 3/8	1 1/2	1 3/4	2									
AI 1820	1 1/8	1.1235	1.1245	1 1/4	1.2525	1.2535	1	1 1/4												
AI 1822	1 1/8	1.1258	1.1268	1 3/8	1.3770	1.3780	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/2						
AI 2024	1 1/4	1.2515	1.2525	1 1/2	1.5030	1.5040	5/8	1	1 1/4	1 1/2	1 3/4	1 3/4	2	2 1/2						
AI 2026	1 1/4	1.2525	1.2535	1 3/8	1.6287	1.6302	1	1 1/4	1 1/2	1 3/4	2	2 1/2								
AI 2226	1 3/8	1.3762	1.3772	1 5/8	1.6275	1.6290	1	1 1/4	1 1/2	1 3/4	2									
AI 2228	1 3/8	1.3775	1.3785	1 3/4	1.7545	1.7560	1 1/2	2	2 1/2											
AI 2428	1 1/2	1.5013	1.5023	1 3/4	1.7527	1.7542	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	3						
AI 2430	1 1/2	1.5025	1.5035	1 7/8	1.8790	1.8805	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2							
AI 2432	1 1/2	1.5025	1.5035	2	2.0030	2.0045	1 1/2	2	2 1/2	3	3 1/2									
AI 2633	1 5/8	1.6285	1.6300	2 1/8	2.0675	2.0690	1 3/8	2	2 1/2											
AI 2832	1 3/4	1.7510	1.7525	2	2.0030	2.0045	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2								
AI 2836	1 3/4	1.7510	1.7525	2 1/4	2.2530	2.2550	1 1/2	1 3/4	2	2 1/4	2 1/2									
AI 3236	2	2.0010	2.0025	2 1/4	2.2530	2.2550	1 1/2	1	1 1/2	1 3/4	2	2 1/2								
AI 3238	2	2.0015	2.0030	2 3/8	2.3775	2.3790	1 1/2	2 1/2	3											
AI 3240	2	2.0010	2.0025	2 1/2	2.5035	2.5055	1 1/2	1 3/4	2	2 1/4	2 1/2	3								
AI 3642	2 1/4	2.2530	2.2550	2 5/8	2.6285	2.6305	2 1/2	3												
AI 3644	2 1/4	2.2510	2.2530	2 3/4	2.7540	2.7560	1 1/2	2	2 1/4	2 1/2	3									
AI 4046	2 1/2	2.5030	2.5050	2 7/8	2.8795	2.8815	2 1/2	3												
AI 4048	2 1/2	2.5015	2.5035	3	3.0045	3.0065	1 1/2	2	2 1/2	3										
AI 4856*	3	2.9880	3.0000	3 1/2	3.5020	3.5040	2 1/2	3												
AI 5664	3 1/2	3.5015	3.5035	4	4.0015	4.0040	3													
AI 6472	4	4.001	4.0035	4 1/2	4.5015	4.5040	4													

* Non standard chamfer (details on request).

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.

oilite® BEARINGS



Please use the following table for conversion from the fraction (length) to the two digit suffix of the part code. Example: AI030504 (1/4 length)

03 = 3/16	04 = 1/4	05 = 5/16
06 = 3/8	08 = 1/2	09 = 9/16
10 = 3/4	12 = 3/4	14 = 3/4
16 = 1	18 = 1 1/8	20 = 1 1/4
22 = 1 1/8	24 = 1 1/2	26 = 1 3/4
28 = 1 3/4	30 = 1 3/4	32 = 2
36 = 2 1/4	40 = 2 1/2	48 = 3

Some of the imperial sizes listed above can be supplied with different tolerance ranges. Before finalising designs or when ordering imperial bearings for repairs, please check with our sales department, the tolerance bands available, either from stock or for special orders.

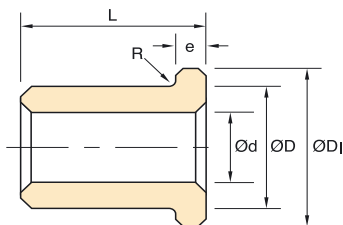


oilite® BEARINGS

PLAIN
BEARINGS

Inch flanged bearings

Part Code	Inner Diameter Ød			Outer Diameter ØD			ØD1	e	Basic L					
	Basic	Min.	Max.	Basic	Min.	Max.			Basic	Min.	Max.	Basic		
AJ 0305	3/16	0.1880	0.1885	3/16	0.3137	0.3142	0.3750	0.062	3/16	1/4	3/8	1/2		
AJ 0406	1/4	0.2505	0.2510	3/8	0.3767	0.3772	0.5000	0.062	3/16	1/4	3/8	1/2	3/4	
UJ0406	1/4	0.2510	0.2520	3/8	0.3765	0.3775	0.4688	0.062	3/16	1/4	3/8	1/2	3/4	
AJ 0508	5/16	0.3130	0.3135	1/2	0.5020	0.5025	0.6250	0.062	1/4	3/8	1/2	3/4		
AJ 0509	5/16	0.3120	0.3125	5/16	0.5640	0.5650	0.6562	0.125	3/8	1/2	3/4	1		
AJ 0608	3/8	0.3755	0.3760	1/2	0.5015	0.5020	0.6250	0.062	1/4	3/8	1/2	3/4	3/8	7/8
UJ 0608	3/8	0.3755	0.3760	1/2	0.5020	0.5025	0.6250	0.140	1/2	3/4	7/8	1	1 1/4	
AJ 0609	3/8	0.3747	0.3752	5/16	0.5640	0.5650	0.7500	0.062	1/2	3/4	7/8	1	1 1/4	
UJ0609	3/8	0.3750	0.3760	5/16	0.5630	0.5640	0.7400	0.062	1/2	3/4	7/8	1	1 1/4	
AJ 0610	3/8	0.3757	0.3762	3/8	0.6265	0.6275	0.7500	0.125	3/8	1/2	3/4	1	1 1/4	
AJ 0709	7/16	0.4401	0.4406	5/16	0.5641	0.5651	0.7500	0.062	1/2	3/4	7/8	1	1 1/4	
AJ 0810	1/2	0.5000	0.5005	3/8	0.6265	0.6275	0.7500	0.098	1/2	3/4	7/8	1	1 1/4	
AJ 0812	1/2	0.5008	0.5013	3/4	0.7517	0.7527	1.0000	0.125	1/2	3/4	7/8	1	1 1/4	
AJ 1012	5/8	0.6275	0.6285	3/4	0.7525	0.7535	1.1250	0.094	1/2	3/4	7/8	1	1 1/4	
AJ 1014	5/8	0.6255	0.6265	7/8	0.8770	0.8780	1.2500	0.125	1/2	3/4	7/8	1	1 1/4	1 1/4
AJ 1216	3/4	0.7508	0.7518	1	1.0020	1.0030	1.3750	0.125	3/4	1	1 1/4	1 1/2	1 3/4	
UJ1216	3/4	0.7495	0.7505	1	1.0010	1.0020	1.4375	0.125	3/4	1	1 1/4	1 1/2	1 3/4	
AJ 1416	7/8	0.8755	0.8765	1	1.0017	1.0027	1.2500	0.125	1	1 1/4	1 1/2	1 3/4	2	
AJ 1418	7/8	0.8757	0.8767	1 1/8	1.1270	1.1280	1.6250	0.125	3/4	1	1 1/4	1 1/2	1 3/4	2
AJ 1620	1	1.0010	1.0020	1 1/4	1.2526	1.2536	1.7500	0.125	1	1 1/4	1 1/2	1 3/4	2	2 1/4
UJ 1620	1	1.0010	1.0020	1 1/4	1.2520	1.2530	1.5000	0.125	3/4	1	1 1/4	1 1/2	1 3/4	2
AJ 1822	1 1/8	1.1260	1.1270	1 1/4	1.3776	1.3786	1.8750	0.125	1	1 1/4	1 1/2	1 3/4	2	2 1/4
AJ 2024	1 1/4	1.2510	1.2520	1 1/2	1.5030	1.5040	1.8750	0.125	3/4	1	1 1/4	1 1/2	1 3/4	2
AJ 2026	1 1/4	1.2516	1.2526	1 3/4	1.6280	1.6295	2.0000	0.125	1	1 1/4	1 1/2	1 3/4	2	2 1/4
AJ 2226	1 3/8	1.3745	1.3755	1 3/4	1.6270	1.6285	1.8750	0.125	3/4	1	1 1/4	1 1/2	1 3/4	2
AJ 2428	1 1/2	1.5016	1.5026	1 3/4	1.7510	1.7525	1.8700	0.120	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4
UJ2428	1 1/2	1.5020	1.5030	1 3/4	1.7505	1.7520	2.0000	0.094	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4
AJ 2430	1 1/2	1.5016	1.5026	1 3/4	1.8780	1.8795	2.5000	0.188	1	1 1/4	1 1/2	1 3/4	2	2 1/4
AJ3236	2	2.0015	2.0030	2 1/4	2.2535	2.2540	2.5000	0.125	3/4	1	1 1/4	1 1/2	1 3/4	2
AJ3240	2	2.0005	2.0020	2 1/2	2.4995	2.5010	3.0000	0.375	2 3/4	3	3 1/4	3 1/2	3 3/4	4
AJ4452	2 3/4	2.7500	2.7520	3 1/4	3.2480	3.2500	4.0000	0.188	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4
AJ4856	3	3.0000	3.0020	3 1/2	3.5000	3.5020	4.0000	0.375	2 3/4	3	3 1/4	3 1/2	3 3/4	4



Please use the following table for conversion from the fraction (length) to the two digit suffix of the part code. Example: AI030504 (1/4 length)

03 = 3/16	04 = 1/4	05 = 5/16
06 = 3/8	08 = 1/2	09 = 9/16
10 = 5/8	12 = 3/4	14 = 7/8
16 = 1	18 = 1 1/8	20 = 1 1/4
22 = 1 1/8	24 = 1 1/2	26 = 1 3/4
28 = 1 3/4	30 = 1 3/4	32 = 2
36 = 2 1/4	40 = 2 1/2	48 = 3

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.

Inch thrust washers

Part Code	Inner Diameter Ød			Outer Diameter ØD			Length e		
	Basic	Min.	Max.	Basic	Min.	Max.	Basic	Min.	Max.
AW 061002	3/8	0.3750	0.3800	3/8	0.6230	0.6280	3/8	0.122	0.1280
AW 081402	1/2	0.5050	0.5100	7/8	0.8750	0.8800	3/8	0.122	0.1280
AW 091801	17/32	0.5312	0.5412	1	1.1200	1.1250	7/16	0.059	0.0655
AW 112002	21/32	0.6562	0.6662	1 1/4	1.2450	1.2500	3/16	0.090	0.0968
AW 132402	25/32	0.7812	0.7912	1 1/2	1.4950	1.5000	3/8	0.122	0.1280
AW 142402	3/4	0.8750	0.8800	1 1/2	1.4950	1.5000	3/8	0.122	0.1280
AW 143002	7/8	0.8780	0.8830	1 5/8	1.8660	1.8710	3/8	0.122	0.1280
AW 162802	1	1.0100	1.0150	1 29/32	1.7710	1.7810	3/8	0.122	0.1280
AW 163202	1 1/32	1.0320	1.0420	2	1.9950	2.0000	3/8	0.120	0.1300
AW 203002	1 1/4	1.2490	1.2540	1 3/8	1.8750	1.8800	3/8	0.120	0.1300
AW 204802	1 1/4	1.2490	1.2540	3	2.9980	3.0030	3/8	0.120	0.1300
AW 204804	1 1/4	1.2490	1.2540	3	2.9980	3.0030	3/4	0.245	0.2550
AW 234002	1 13/32	1.4062	1.4162	2 1/2	2.4950	2.5000	5/16	0.151	0.1613
AW 263802	1 1/2	1.6240	1.6260	2 3/4	2.3740	2.3790	3/8	0.120	0.1300
AW 365602	2 1/4	2.2480	2.2520	3 1/2	3.4980	3.5030	3/8	0.120	0.1300



Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.

Applications:

Provides self-lubricating thrust surfaces especially in applications where assembly does not lend itself to the use of a flanged bearing. Alternatively can provide a second thrust surface at the non-flanged end of a bearing.

In thrust applications PV should not exceed 0.36 N/mm² x m/s. Surface velocity (m/s) calculated on mean diameter of thrust face and pressure (N/mm²) on total thrust area.

We also offer specialised machining service for special sizes of bearings according to customers specific requirements.





and W/MLF Self Lubricated Bearings



(Dimensions and tolerances to ISO 3547)

Stock range includes

- Metric plain
- Metric flanged
- Metric washers
- Metric strip
- Imperial plain
- Imperial washers
- Imperial strip*



Externally Lubricated Bearings



(Dimensions and tolerances to ISO 3547)

Stock range includes

- Metric plain
- Metric washers
- Metric strip
- Imperial plain*
- Imperial washers*
- Imperial strip*

Structure	Steel support strip S.A.E 1010. Sintered Bronze layer. PTFE.
Static load	250 N/mm ²
Dynamic load	140 N/mm ²
Maximum sliding speed	2.5 m/s dry 5.0 m/s with oil
Operating temperature	-200°C to +280°C
Thermal conductivity	46 W/mK
Coefficient of friction	
W/MU Dry	0.02 to 0.20
W/MU Oiled	0.02 to 0.15
W/MLF Dry	0.04 to 0.30
W/MLF Oiled	0.02 to 0.10
Recommended housing tolerance	4.5mm/5.5mm H6 7.0mm/305mm H7
Recommended shaft tolerance	3.0mm/4.0mm h6 5.0mm/75mm f7 80mm/300mm h8
Recommended shaft finish	Ra ≤ 0.4um (N5)
Recommended shaft hardness	HB > 200

Structure	Steel support strip S.A.E 1010. Sintered Bronze layer. Co-Acetal polymer.
Static load	140 N/mm ²
Dynamic load	70 N/mm ²
Maximum sliding speed	2.5 m/s with grease
Operating temperature	-40°C to +110°C
Intermittent maximum temperature	130°C
Thermal conductivity	2W/mK
Coefficient of friction	0.05 to 0.12 with grease
Recommended housing tolerance	H7
Recommended shaft tolerance	h8
Recommended shaft finish	HB > 200
Recommended shaft hardness	HB > 200

W/MUB Bronze Support Strip instead of Steel

Has greater resistance to corrosion than standard W/MU product.
Range, dimensions and tolerances are as standard W/MU product.

Fitting Guidelines

1. Always use a fitting pin and fitting collar. See our fitting data sheet.
2. Lubricate back of bearing prior to assembly.
3. Chamfer lead in on housing to assist with assembly.





Wrapped Metric Plain Bearings. PTFE U Type

Reference	I.D.	O.D.	Recommended Tolerances						Standard Length Options (L)							
			Housing			Shaft			Bore		Tolerance +/- 0.25 mm					
	(mm)	(mm)						(mm)	(mm)							
TFP03 x L	3	4.5	H6	0	+0.006	h6	0	-0.008	3.000	3.048	3	4	5	6		
TFP04 x L	4	5.5	H6	0	+0.008	h6	0	-0.008	4.000	4.048	3	4	6	10		
TFP05 x L	5	7	H7	0	+0.015	f7	-0.010	-0.022	4.990	5.055	5	8	10			
TFP06 x L	6	8	H7	0	+0.015	f7	-0.010	-0.022	5.990	6.055	6	8	10			
TFP07 x L	7	9	H7	0	+0.015	f7	-0.013	-0.028	6.990	7.055	10					
TFP08 x L	8	10	H7	0	+0.015	f7	-0.013	-0.028	7.990	8.055	8	12				
TFP10 x L	10	12	H7	0	+0.018	f7	-0.013	-0.028	9.990	10.058	8	10	12	15	20	
TFP12 x L	12	14	H7	0	+0.018	f7	-0.016	-0.034	11.990	12.058	12	15	20	25		
TFP13 x L	13	15	H7	0	+0.018	f7	-0.016	-0.034	12.990	13.058	10	20				
TFP14 x L	14	16	H7	0	+0.018	f7	-0.016	-0.034	13.990	14.058	10	12	15	20	25	
TFP15 x L	15	17	H7	0	+0.018	f7	-0.016	-0.034	14.990	15.058	10	12	15	20	20	25
TFP16 x L	16	18	H7	0	+0.018	f7	-0.016	-0.034	15.990	16.058	10	12	15	20	25	
TFP17 x L	17	19	H7	0	+0.018	f7	-0.016	-0.034	16.990	17.061	15	20				
TFP18 x L	18	20	H7	0	+0.018	f7	-0.016	-0.034	17.990	18.061	15	20	25			
TFP20 x L	20	22	H7	0	+0.021	f7	-0.025	-0.046	19.990	20.061	10					
TFP20 x L	20	23	H7	0	+0.021	f7	-0.025	-0.046	19.990	20.071	10	15	20	25	30	
TFP22 x L	22	25	H7	0	+0.021	f7	-0.025	-0.046	21.990	22.071	15	20	25	30		
TFP24 x L	24	27	H7	0	+0.021	f7	-0.025	-0.046	23.990	24.071	20	25	30			
TFP25 x L	25	28	H7	0	+0.021	f7	-0.025	-0.046	24.990	25.071	12	15	20	25	30	50
TFP28 x L	28	32	H7	0	+0.025	f7	-0.025	-0.050	27.990	28.085	20	25	30			
TFP30 x L	30	34	H7	0	+0.025	f7	-0.025	-0.050	29.990	30.085	15	20	25	30	40	
TFP32 x L	32	36	H7	0	+0.025	f7	-0.025	-0.050	31.990	32.085	20	30	40			
TFP35 x L	35	39	H7	0	+0.025	f7	-0.025	-0.050	34.990	35.085	20	30	35	40	50	
TFP36 x L	36	40	H7	0	+0.025	f7	-0.025	-0.050	35.990	36.085	15	35				
TFP40 x L	40	44	H7	0	+0.025	f7	-0.025	-0.050	39.990	40.085	20	30	40	50		
TFP45 x L	45	50	H7	0	+0.025	f7	-0.025	-0.050	44.990	45.105	20	30	40	45	50	
TFP50 x L	50	55	H7	0	+0.030	f7	-0.025	-0.050	49.990	50.110	20	30	40	50	60	
TFP55 x L	55	60	H7	0	+0.030	f7	-0.030	-0.060	54.990	55.110	20	25	30	40	50	60
TFP60 x L	60	65	H7	0	+0.030	f7	-0.030	-0.060	59.990	60.110	20	30	40	60	70	
TFP65 x L	65	70	H7	0	+0.030	f7	-0.030	-0.060	64.990	65.110	30	50	60	70		
TFP70 x L	70	75	H7	0	+0.030	f7	-0.030	-0.060	69.990	70.110	70					
TFP75 x L	75	80	H7	0	+0.030	f7	-0.030	-0.060	74.990	75.110	40	50	60	80		
TFP80 x L	80	85	H7	0	+0.035	h8	-0.030	-0.060	80.020	80.155	60	100				
TFP85 x L	85	90	H7	0	+0.035	h8	-0.036	-0.071	85.020	85.155	60	100				
TFP90 x L	90	95	H7	0	+0.035	h8	-0.036	-0.071	90.020	90.155	60	100				
TFP95 x L	95	100	H7	0	+0.035	h8	-0.036	-0.071	95.020	95.155	60	100				
TFP100 x L	100	105	H7	0	+0.035	h8	-0.036	-0.071	100.020	100.155	60	70	80	115		
TFP105 x L	105	110	H7	0	+0.035	h8	-0.036	-0.071	105.020	105.155	60	115				
TFP110 x L	110	115	H7	0	+0.035	h8	-0.036	-0.071	110.020	110.155	60	115				
TFP115 x L	115	120	H7	0	+0.035	h8	-0.036	-0.071	115.020	115.155	50	60	70			
TFP120 x L	120	125	H7	0	+0.040	h8	-0.036	-0.071	120.070	120.210	60	100				
TFP125 x L	125	130	H7	0	+0.040	h8	-0.043	-0.083	125.070	125.210	60	100				
TFP130 x L	130	135	H7	0	+0.040	h8	-0.043	-0.083	130.070	130.210	60	100				
TFP135 x L	135	140	H7	0	+0.040	h8	-0.043	-0.083	135.070	135.210	60	100				
TFP140 x L	140	145	H7	0	+0.040	h8	-0.043	-0.083	140.070	140.210	60	100				
TFP145 x L	145	150	H7	0	+0.040	h8	-0.043	-0.083	145.070	145.210	60	100				
TFP150 x L	150	155	H7	0	+0.040	h8	-0.043	-0.083	150.070	150.210	100					
TFP155 x L	155	160	H7	0	+0.040	h8	-0.043	-0.083	155.070	155.210	60	100				
TFP160 x L	160	165	H7	0	+0.040	h8	-0.043	-0.083	160.070	160.210	60	100				
TFP165 x L	165	170	H7	0	+0.040	h8	-0.043	-0.083	165.070	165.210	60	100				
TFP170 x L	170	175	H7	0	+0.040	h8	-0.043	-0.083	170.070	170.210	60	100				
TFP175 x L	175	180	H7	0	+0.040	h8	-0.043	-0.083	175.070	175.210	60	100				
TFP180 x L	180	185	H7	0	+0.046	h8	-0.043	-0.083	180.070	180.216	60	100				
TFP200 x L	200	205	H7	0	+0.046	h8	-0.050	-0.096	200.070	200.216	100					
TFP220 x L	220	225	H7	0	+0.046	h8	-0.050	-0.096	220.070	220.216	60	100				
TFP250 x L	250	255	H7	0	+0.052	h8	-0.050	-0.096	250.070	250.222	60	100				
TFP280 x L	280	285	H7	0	+0.052	h8	-0.056	-0.108	280.070	280.222	60	100				
TFP300 x L	300	305	H7	0	+0.052	h8	-0.056	-0.108	300.070	300.222	60	100				

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.





Wrapped Metric Flanged Bearings. PTFE U Type

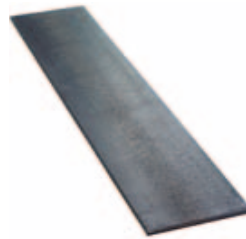
Reference	I.D. (mm)	O.D. (mm)	Recommended Tolerances			Bearing Size when fitted		Flange		Standard Length Options (L)				
			Housing		Shaft	Bore		Diameter		Tolerance +/- 0.25mm				
TFF06 x L	6	8	0	+0.015	-0.010	-0.022	5.990	6.055	11.5	12.5	4	7	8	
TFF08 x L	8	10	0	+0.015	-0.013	-0.028	7.990	8.055	14.5	15.5	5.5	7.5	9.5	
TFF10 x L	10	12	0	+0.018	-0.013	-0.028	9.990	10.058	17.5	18.5	7	9	12	17
TFF12 x L	12	14	0	+0.018	-0.016	-0.034	11.990	12.058	19.5	20.5	7	9	12	17
TFF14 x L	14	16	0	+0.018	-0.016	-0.034	13.990	14.058	21.5	22.5	12	17		
TFF15 x L	15	17	0	+0.018	-0.016	-0.034	14.990	15.058	22.5	23.5	9	12	17	
TFF16 x L	16	18	0	+0.018	-0.016	-0.034	15.990	16.058	23.5	24.5	12	17		
TFF18 x L	18	20	0	+0.021	-0.016	-0.034	17.990	18.061	25.5	26.5	12	17	22	
TFF20 x L	20	23	0	+0.021	-0.020	-0.041	19.990	20.071	29.5	30.5	11.5	16.5	21.5	
TFF25 x L	25	28	0	+0.021	-0.020	-0.041	24.990	25.071	34.5	35.5	11.5	16.5	21.5	
TFF30 x L	30	34	0	+0.025	-0.020	-0.041	29.990	30.085	41.5	42.5	16	26		
TFF35 x L	35	39	0	+0.025	-0.025	-0.050	34.990	35.085	46.5	47.5	16	26		
TFF40 x L	40	44	0	+0.025	-0.025	-0.050	39.990	40.085	52.5	53.5	16	26		
TFF45 x L	45	50	0	+0.025	-0.025	-0.050	44.990	45.105	57.5	58.5	16	26		

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.



Strip. PTFE U Type

Reference	Strip Sizes			
	Length	Width	Thickness	
TFS07150	500	150	0.704	0.744
TFS10200	500	215	0.950	0.990
TFS15240	500	245	1.470	1.510
TFS20240	500	245	1.960	2.000
TFS25240	500	245	2.460	2.500
TFS30240	500	245	3.020	3.060



Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.



Washers. Metric. PTFE U Type

Reference	I.D. (mm)	O.D. (mm)	Washer Sizes				Dowell hole		Dowell hole			
			Bore		O.D.	Thickness	Diameter		PCD			
TFW10	10	20	10.00	10.25	19.75	20.00	1.45	1.50	no hole	17.88	18.12	
TFW12	12	24	12.00	12.25	23.75	24.00	1.45	1.50	1.625	1.875	17.88	18.12
TFW14	14	26	14.00	14.25	25.75	26.00	1.45	1.50	2.125	2.375	19.88	20.12
TFW16	16	30	16.00	16.25	29.75	30.00	1.45	1.50	2.125	2.375	21.88	22.12
TFW18	18	32	18.00	18.25	31.75	32.00	1.45	1.50	2.125	2.375	24.88	25.12
TFW20	20	36	20.00	20.25	35.75	36.00	1.45	1.50	3.125	3.375	27.88	28.12
TFW22	22	38	22.00	22.25	37.75	38.00	1.45	1.50	3.125	3.375	29.88	30.12
TFW24	24	42	24.00	24.25	41.75	42.00	1.45	1.50	3.125	3.375	32.88	33.12
TFW26	26	44	26.00	26.25	43.75	44.00	1.45	1.50	3.125	3.375	34.88	35.12
TFW28	28	48	28.00	28.25	47.75	48.00	1.45	1.50	4.125	4.375	37.88	38.12
TFW32	32	54	32.00	32.25	53.75	54.00	1.45	1.50	4.125	4.375	42.88	43.12
TFW38	38	62	38.00	38.25	61.75	62.00	1.45	1.50	4.125	4.375	49.88	50.12
TFW42	42	66	42.00	42.25	65.75	66.00	1.45	1.50	4.125	4.375	53.88	54.12
TFW48	48	74	48.00	48.25	73.75	74.00	1.95	2.00	4.125	4.375	60.88	61.12
TFW52	52	78	52.00	52.25	77.75	78.00	1.95	2.00	4.125	4.375	64.88	65.12
TFW62	62	90	62.00	62.25	90.75	90.00	1.95	2.00	4.125	4.375	64.88	65.12
TFW95	95	115	95.00	95.25	115.00	114.75	1.95	2.00	4.125	4.375	105.87	106.12



Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.





Wrapped Imperial Plain Bearings. PTFE U Type

Reference	Bore		Recommended Tolerances				Bearing Size when fitted		Standard Length Options (L)			
			Housing		Shaft		Bore		Tolerance +/- 0.010"			
	(inch)		(inch)				(inch)		(inch)			
TFPI03TH x L	3/16	1/4	0.2497	0.2503	0.1858	0.1865	0.1867	0.1893	3/16	1/4	3/8	
TFPI04TH x L	1/4	5/16	0.3122	0.3128	0.2481	0.2490	0.2492	0.2518	1/4	3/8		
TFPI05TH x L	5/16	3/8	0.3747	0.3753	0.3106	0.3115	0.3117	0.3143	3/8	1/2		
TFPI06TH x L	3/8	15/32	0.4684	0.4691	0.3731	0.3740	0.3742	0.3769	3/8	1/2	5/8	3/4
TFPI07TH x L	7/16	17/32	0.5309	0.5316	0.4355	0.4365	0.4367	0.4394	1/2	3/4		
TFPI08TH x L	1/2	19/32	0.5934	0.5941	0.4980	0.4990	0.4992	0.5019	3/8	1/2	5/8	7/8
TFPI09TH x L	9/16	21/32	0.6559	0.6566	0.5605	0.5615	0.5617	0.5644	1/2	3/4		
TFPI10TH x L	5/8	23/32	0.7184	0.7192	0.6230	0.6240	0.6242	0.6270	1/2	5/8	3/4	7/8
TFPI11TH x L	11/16	25/32	0.7809	0.7817	0.6855	0.6865	0.6867	0.6895	7/8			
TFPI12TH x L	3/4	7/8	0.8747	0.8755	0.7479	0.7491	0.7493	0.7525	1/2	3/4	1	
TFPI14TH x L	7/8	1	0.9997	1.0005	0.8729	0.8741	0.8743	0.8775	3/4	7/8	1	
TFPI16TH x L	1	1 1/8	1.1246	1.1256	0.9979	0.9991	0.9992	1.0026	3/4	1	1 1/4	1 1/2
TFPI18TH x L	1 1/8	1 9/32	1.2808	1.2818	1.1226	1.1238	1.1240	1.1278	3/4	1		
TFPI20TH x L	1 1/4	1 13/32	1.4058	1.4068	1.2472	1.2488	1.2490	1.2528	3/4	1	1 1/4	1 3/4
TFPI22TH x L	1 3/8	1 17/32	1.5308	1.5318	1.3722	1.3738	1.3740	1.3778	1	1 3/8	1 3/4	
TFPI24TH x L	1 1/2	1 21/32	1.6558	1.6568	1.4972	1.4988	1.4990	1.5028	1	1 1/4	1 1/2	2
TFPI26TH x L	1 5/8	1 25/32	1.7808	1.7818	1.6222	1.6238	1.6240	1.6278	1	1 1/2		
TFPI28TH x L	1 3/4	1 15/16	1.9371	1.9381	1.7471	1.7487	1.7489	1.7535	1	1 1/2	1 3/4	2
TFPI30TH x L	1 7/8	2 1/16	2.0621	2.0633	1.8721	1.8737	1.8739	1.8787	1	1 7/8	2 1/4	
TFPI32TH x L	2	2 3/16	2.1871	2.1883	1.9969	1.9987	1.9989	2.0037	1	1 1/2	2	2 1/2
TFPI36TH x L	2 1/4	2 7/16	2.4365	2.4377	2.2489	2.2507	2.2509	2.2573	2	2 1/4	2 1/2	3
TFPI40TH x L	2 1/2	2 11/16	2.6869	2.6881	2.4993	2.5011	2.5013	2.5077	2	2 1/2	3	3 1/2
TFPI44TH x L	2 3/4	2 15/16	2.9358	2.9370	2.7482	2.7500	2.7502	2.7566	2	2 1/2	3	3 1/2
TFPI48TH x L	3	3 3/16	3.1858	3.1872	2.9982	3.0000	3.0002	3.0068	2	3	3 3/4	
TFPI56TH x L	3 1/2	3 11/16	3.6858	3.6872	3.4978	3.5000	3.5002	3.5068	2 1/2	3	3 3/4	
TFPI64TH x L	4	4 3/16	4.1858	4.1872	3.9978	4.0000	4.0002	4.0068	3	3 3/4	4 3/4	
TFPI80TH x L	5	5 3/16	5.1844	5.1860	4.9961	4.9986	4.9988	5.0056	3	3 3/4		
TFPI96TH x L	6	6 3/16	6.1858	6.1874	5.9975	6.0000	6.0002	6.0070	3	3 3/4		
TFPI112TH x L	7	7 3/16	7.1812	7.1830	6.9929	6.9954	6.9956	7.0026	3 3/4			

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.



Washers. Imperial. PTFE U Type

Reference	I.D.	O.D.	Washer Sizes					Dowell hole		Dowell hole		
			Bore		O.D.		Thickness		Diameter		PCD	
	(inch)		(inch)		(inch)		(inch)		(inch)		(inch)	
TFWTH06	0.500	0.875	0.500	0.510	0.865	0.875	0.061	0.063	0.067	0.077	0.682	0.692
TFWTH07	0.562	1.000	0.562	0.572	0.990	1.000	0.061	0.063	0.067	0.077	0.776	0.786
TFWTH08	0.625	1.125	0.625	0.635	1.115	1.125	0.061	0.063	0.099	0.109	0.870	0.880
TFWTH09	0.687	1.187	0.687	0.697	1.177	1.187	0.061	0.063	0.099	0.109	0.932	0.942
TFWTH10	0.750	1.250	0.750	0.760	1.240	1.250	0.061	0.063	0.099	0.109	0.995	1.005
TFWTH11	0.812	1.375	0.812	0.822	1.365	1.375	0.061	0.063	0.099	0.109	1.089	1.099
TFWTH12	0.875	1.500	0.875	0.885	1.490	1.500	0.061	0.063	0.130	0.140	1.182	1.192
TFWTH14	1.000	1.750	1.000	1.010	1.740	1.750	0.061	0.063	0.130	0.140	1.370	1.380
TFWTH16	1.125	2.000	1.125	1.135	1.990	2.000	0.061	0.063	0.161	0.171	1.557	1.567
TFWTH18	1.250	2.125	1.250	1.260	2.115	2.125	0.061	0.063	0.161	0.171	1.682	1.692
TFWTH20	1.375	2.250	1.375	1.385	2.240	2.250	0.061	0.063	0.161	0.171	1.807	1.817
TFWTH22	1.500	2.500	1.500	1.510	2.490	2.500	0.061	0.063	0.192	0.202	1.995	2.005
TFWTH24	1.625	2.625	1.625	1.635	2.615	2.625	0.061	0.063	0.192	0.202	2.120	2.130
TFWTH26	1.750	2.750	1.750	1.760	2.740	2.750	0.061	0.063	0.192	0.202	2.245	2.255
TFWTH28	2.000	3.000	2.000	2.010	2.990	3.000	0.091	0.093	0.192	0.202	2.495	2.505
TFWTH30	2.125	3.125	2.125	2.135	3.115	3.125	0.091	0.093	0.192	0.202	2.620	2.630
TFWTH32	2.250	3.250	2.250	2.260	3.240	3.250	0.091	0.093	0.192	0.202	2.745	2.755

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.





Wrapped Metric Plain Bearings. Acetal X Type

Reference	I.D. (mm)	O.D. (mm)	Recommended Tolerances				Bearing Size when fitted		Oil hole Diameter (mm)	Standard Length Options (L) Tolerance +/- 0.25mm					
			Housing		Shaft		Bore			Tolerance +/- 0.25mm					
			(mm)		(mm)		(mm)			(mm)					
TPX08 x L	8	10	0	+0.015	0	-0.022	8.040	8.107	no hole	8	10	12			
TPX10 x L	10	12	0	+0.018	0	-0.022	10.040	10.110	4	10	12	15	20		
TPX12 x L	12	14	0	+0.018	0	-0.027	12.040	12.110	4	10	12	15	20	25	
TPX14 x L	14	16	0	+0.018	0	-0.027	14.040	14.110	4	15	20	25			
TPX15 x L	15	17	0	+0.018	0	-0.027	15.040	15.108	4	10	12	15	25		
TPX16 x L	16	18	0	+0.018	0	-0.027	16.040	16.110	4	15	20	25			
TPX18 x L	18	20	0	+0.021	0	-0.027	18.040	18.111	4	15	20	25			
TPX20 x L	20	23	0	+0.021	0	-0.033	20.050	20.131	4	10	15	20	25	30	
TPX22 x L	22	25	0	+0.021	0	-0.033	22.050	22.131	6	15	20	25	30		
TPX24 x L	24	27	0	+0.021	0	-0.033	24.050	24.131	6	15	20	25	30		
TPX25 x L	25	28	0	+0.021	0	-0.033	25.050	25.131	6	15	20	25	30		
TPX28 x L	28	32	0	+0.025	0	-0.033	28.060	28.155	6	20	25	30			
TPX30 x L	30	34	0	+0.025	0	-0.033	30.060	30.155	6	20	30	40			
TPX32 x L	32	36	0	+0.025	0	-0.039	32.060	32.155	6	20	30	35	40		
TPX35 x L	35	39	0	+0.025	0	-0.039	35.060	35.155	6	20	30	35	50		
TPX40 x L	40	44	0	+0.025	0	-0.039	40.060	40.155	8	20	30	40	50		
TPX45 x L	45	50	0	+0.025	0	-0.039	45.080	45.195	8	20	30	40	45	50	
TPX50 x L	50	55	0	+0.030	0	-0.039	50.080	50.200	8	40	50	60			
TPX55 x L	55	60	0	+0.030	0	-0.046	55.080	55.200	8	20	25	30	40	50	60
TPX60 x L	60	65	0	+0.030	0	-0.046	60.080	60.200	8	30	40	60	70		
TPX65 x L	65	70	0	+0.030	0	-0.046	65.100	65.262	8	40	50	60	70		
TPX70 x L	70	75	0	+0.030	0	-0.046	70.100	70.262	8	25	40	50	65	70	80
TPX75 x L	75	80	0	+0.030	0	-0.046	75.100	75.262	9.5	40	60	80			
TPX80 x L	80	85	0	+0.035	0	-0.046	80.100	80.267	9.5	40	60	80	100		
TPX85 x L	85	90	0	+0.035	0	-0.054	85.100	85.267	9.5	30	40	60	80	100	
TPX90 x L	90	95	0	+0.035	0	-0.054	90.100	90.267	9.5	25	40	60	80	90	100
TPX95 x L	95	100	0	+0.035	0	-0.054	95.100	95.267	9.5	60	100				
TPX100 x L	100	105	0	+0.035	0	-0.054	100.100	100.267	9.5	50	60	80	95	115	
TPX105 x L	105	110	0	+0.035	0	-0.054	105.100	105.267	9.5	60	115				
TPX110 x L	110	115	0	+0.035	0	-0.054	110.100	110.267	9.5	60	110	115			
TPX115 x L	115	120	0	+0.035	0	-0.054	115.100	115.267	9.5	50	70				
TPX120 x L	120	125	0	+0.040	0	-0.054	120.100	120.272	9.5	60	100	110			
TPX125 x L	125	130	0	+0.040	0	-0.063	125.100	125.272	9.5	60	100	110			
TPX130 x L	130	135	0	+0.040	0	-0.063	130.130	130.280	no hole	50	60	80	100		
TPX135 x L	135	140	0	+0.040	0	-0.063	135.130	135.280	no hole	60	80				
TPX140 x L	140	145	0	+0.040	0	-0.063	140.130	140.280	no hole	50	60	80	100		
TPX145 x L	145	150	0	+0.040	0	-0.063	145.130	145.280	no hole	100					
TPX150 x L	150	155	0	+0.040	0	-0.063	150.130	150.280	no hole	50	60	80	100		
TPX160 x L	160	165	0	+0.040	0	-0.063	160.130	160.280	no hole	50	60	80	100		
TPX170 x L	170	175	0	+0.040	0	-0.063	170.130	170.280	no hole	50	60	80	100		
TPX180 x L	180	185	0	+0.046	0	-0.063	180.130	180.286	no hole	50	60	80	100		
TPX190 x L	190	195	0	+0.046	0	-0.072	190.130	190.286	no hole	50	60	80	100	120	
TPX200 x L	200	205	0	+0.046	0	-0.072	200.130	200.286	no hole	50	60	80	100	120	
TPX220 x L	220	225	0	+0.046	0	-0.072	220.130	220.286	no hole	50	60	80	100	120	
TPX240 x L	240	245	0	+0.046	0	-0.072	240.130	240.286	no hole	50	60	80	100	120	
TPX250 x L	250	255	0	+0.052	0	-0.072	250.130	250.292	no hole	50	60	80	100	120	
TPX260 x L	260	265	0	+0.052	0	-0.081	260.130	260.292	no hole	50	60	80	100	120	
TPX280 x L	280	285	0	+0.052	0	-0.081	280.130	280.292	no hole	50	60	80	100	120	
TPX300 x L	300	305	0	+0.052	0	-0.081	300.130	300.292	no hole	60	80	100	120		

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.





Wrapped Imperial Plain. Acetal X Type

Reference	I.D.		O.D.		Recommended Tolerances				Bearing Size when fitted		Oil hole	Standard Length Options (L)			
	Nominal		Housing		Shaft		Bore		Diameter	Tolerance +/- 0.010"					
	(inch)		(inch)				(inch)			(inch)	(inch)				
TFPI06TX x L	3/8	15/32	0.4694	0.4687	0.3648	0.3639	0.3694	0.3667	5/32	3/8	1/2	3/4			
TFPI07TX x L	7/16	17/32	0.5319	0.5312	0.4273	0.4263	0.4319	0.4292	5/32	1/2	3/4				
TFPI08TX x L	1/2	19/32	0.5944	0.5937	0.4897	0.4887	0.4944	0.4917	5/32	3/8	1/2	5/8	7/8		
TFPI09TX x L	9/16	21/32	0.6569	0.6562	0.5522	0.5512	0.5569	0.5542	5/32	1/2	3/4				
TFPI10TX x L	5/8	23/32	0.7195	0.7187	0.6146	0.6136	0.6195	0.6167	5/32	1/2	5/8	3/4	7/8		
TFPI11TX x L	11/16	25/32	0.7820	0.7812	0.6770	0.6760	0.6820	0.6792	5/32	7/8					
TFPI12TX x L	3/4	7/8	0.8758	0.8750	0.7390	0.7378	0.7444	0.7412	5/32	1/2	3/4	1			
TFPI14TX x L	7/8	1	1.0008	1.0000	0.8639	0.8627	0.8694	0.8662	1/4	3/4	7/8	1			
TFPI16TX x L	1	1 1/8	1.1258	1.1250	0.9888	0.9876	0.9944	0.9912	1/4	3/4	1	1 1/2			
TFPI18TX x L	1 1/8	1 9/32	1.2822	1.2812	1.1138	1.1126	1.1202	1.1164	1/4	3/4	1				
TFPI20TX x L	1 1/4	1 13/32	1.4072	1.4062	1.2387	1.2371	1.2452	1.2414	1/4	3/4	1	1 1/4	1 3/4		
TFPI22TX x L	1 3/8	1 17/32	1.5322	1.5312	1.3635	1.3619	1.3702	1.3664	1/4	1	1 3/8	1 3/4			
TFPI24TX x L	1 1/2	1 21/32	1.6572	1.6562	1.4884	1.4868	1.4952	1.4914	5/16	1	1 1/4	1 1/2	2		
TFPI26TX x L	1 5/8	1 25/32	1.7822	1.7812	1.6133	1.6117	1.6202	1.6164	5/16	1	1 1/2				
TFPI28TX x L	1 3/4	1 15/16	1.9385	1.9375	1.7393	1.7367	1.7461	1.7415	5/16	1	1 1/2	1 3/4	2		
TFPI30TX x L	1 7/8	2 1/16	2.0637	2.0625	1.8632	1.8616	1.8713	1.8665	5/16	1	1 1/2	2 1/4			
TFPI32TX x L	2	2 3/16	2.1887	2.1875	1.9881	1.9863	1.9963	1.9915	5/16	1	1 1/2	2	2 1/2		
TFPI36TX x L	2 1/4	2 7/16	2.4387	2.4375	2.2378	2.2360	2.2463	2.2415	5/16	2	2 1/4	2 1/2			
TFPI40TX x L	2 1/2	2 11/16	2.6887	2.6875	2.4875	2.4857	2.4963	2.4915	5/16	2	2 1/2				
TFPI44TX x L	2 3/4	2 15/16	2.9387	2.9395	2.7351	2.7333	2.7457	2.7393	5/16	2	2 1/2	3	3 1/2		
TFPI48TX x L	3	3 3/16	3.1889	3.1875	3.9849	3.9831	2.9959	2.9893	3/8	2	3	3 3/4			
TFPI56TX x L	3 1/2	3 11/16	3.6889	3.6875	3.4844	3.4822	3.4959	3.4893	3/8	2 1/2	3	3 3/4			
TFPI64TX x L	4	4 3/16	4.1889	4.1872	4.9839	4.9817	3.9959	3.9893	3/8	3	3 3/4	4 3/4			

Non-standard lengths can be supplied. If the size you require is not listed please contact our sales dept. We also offer a specialised machining service for low volume non-standard sizes and tolerances.



Lubricated Sliding Bearings



Oil or grease lubricated bearings. Carbon steel shell with sintered bronze layer with a co- acetal polymer layer. Available in metric and imperial sizes from stock.



Dry Sliding Bearings



Self lubricated plain & flanged bearings & strip. Carbon steel shell with sintered bronze layer filled with PTFE. Available in metric and imperial sizes from stock. Also bronze shell versions can be supplied to order.

White Metal Bearings



White metal bearings can be manufactured to order in various material grades.

Plastic Bearings Moulded & Machined



Available in metric sizes from stock. Can also be manufactured in many different types of plastic material to suit various applications. Machined for small quantities and moulded for large quantities.

Standard Wrapped Bearings



Oil or grease lubricated bearings. Carbon Steel shell with sintered bronze lining. Various metric and imperial sizes available from stock.



Ball Bearings



Ball bearings in chrome or stainless steel. ABEC 1, 3 or 5. With or without seals. Various ranges available from stock.

Machined Parts



Standard bearings modified. Custom shafts and bearings manufactured in cast bronze, plastic and other materials.

Cast Bronze Bearings with Solid Graphite Lubrication



Various material specifications are offered. Standard and special shapes are available.



COOPER[®]

THE

ORIGINAL

SPLIT ROLLER BEARING

The inventor of the split to the shaft roller bearing, Cooper has unrivalled expertise gained in over 100 years manufacturing both the bearing and the housing at their site in King's Lynn (UK)



HIGHEST CAPACITY

Cooper's position as a leader in the field has been recently re-affirmed with the introduction of the 01E/02E series. Equipped with a robust brass cage and larger rollers the new series ensures significant improvements in radial and axial capacity confirming Cooper as the highest capacity split bearing on the market.

WIDEST RANGE

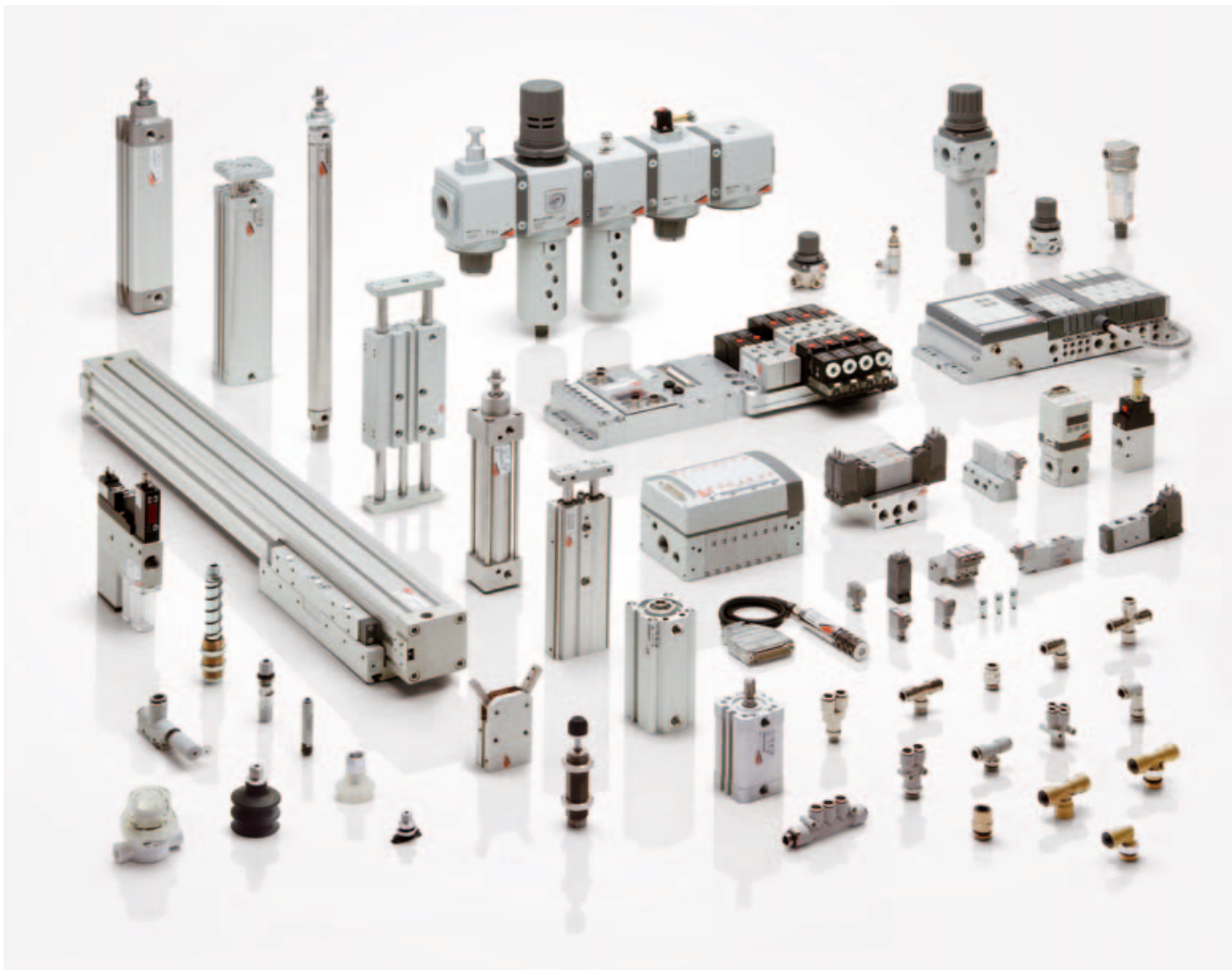
With 4 series of split cylindrical roller bearings: 100 (light), 01 (medium), 02 (heavy) and 03 (extra heavy) as well as a range of split taper roller bearings, Cooper has a range unmatched by any manufacturer.



For all information please visit...

www.CooperBearings.com





FLUID
POWER

Welcome to the world of Camozzi

CAMOZZI IS ONE OF THE WORLD'S LEADING SUPPLIERS OF ADVANCED PNEUMATIC COMPONENTS AND SYSTEMS WITH REPRESENTATION IN OVER 70 COUNTRIES SPANNING ALL FOUR CONTINENTS. IN SUCH A COMPETITIVE MARKET WE RECOGNIZE THE NEED TO BE DIFFERENT, SO WE HAVE STOOD OUT FROM THE CROWD FOR IN EXCESS OF 40 YEARS BY OFFERING ONLY THE HIGHEST QUALITY PRODUCTS WHICH ARE SUPPORTED BY A FULL RANGE OF SERVICES.

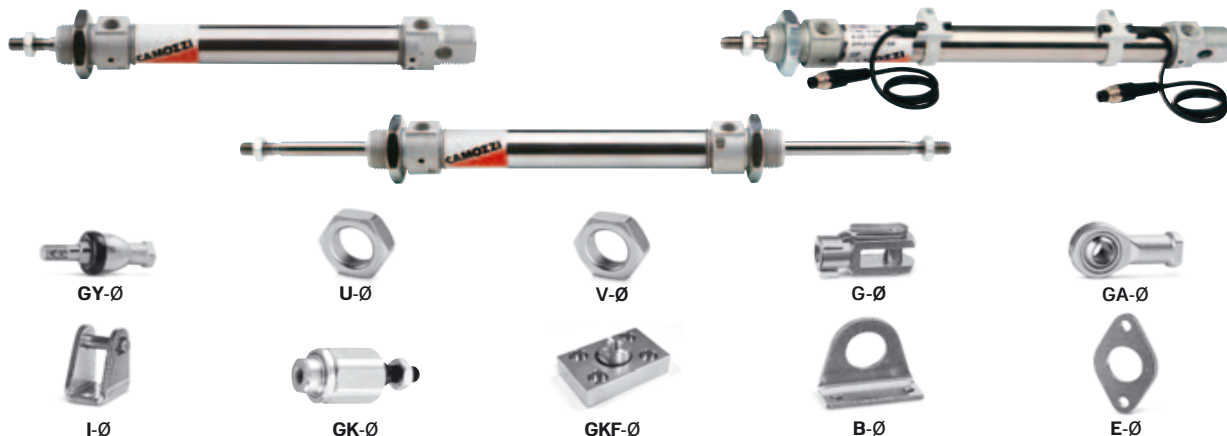
www.camozzi.co.uk



Series 16, 24 and 25 Mini-Cylinders

Single and double-acting (Cetop RP52-P DIN/ISO 6432)

Series 16: \varnothing 8 - 10 - 12 Series 24: \varnothing 16 - 20 - 25 - magnetic Series 25: \varnothing 16 - 20 - 25 - magnetic cushioned



FLUID POWER

CODING EXAMPLE

24 N2 A 16 A 100

24 » SERIES
 16 = non-magnetic
 24 = magnetic
 25 = magnetic, adjustable cushioning

N » VERSION
 N = Standard

2 » OPERATION
 1 = single-acting, front spring, no cushion
 2 = double-acting
 3 = double-acting, through-rod
 7 = single-acting, through-rod

A » MATERIALS
 rod = rolled stainless steel AISI 303
 tube = stainless steel AISI 304
 end-blocks = anodized AL

16 » BORE
 08 = \varnothing 8 mm 12 = \varnothing 12 mm 20 = \varnothing 20 mm
 10 = \varnothing 10 mm 16 = \varnothing 16 mm 25 = \varnothing 25 mm

A » CONSTRUCTION
 A = screw with ring + lock nut for rod
 RL = cylinder with rod lock \varnothing 20 - \varnothing 25

100 » STROKE
 Series 16: \varnothing 8-10 = 10-250 mm / \varnothing 12 = 10-300 mm
 Series 24-25: \varnothing 16 = 10-600 mm / \varnothing 20-25 = 10-1000 mm

» = standard
 V = rod seals in FKM

STANDARD STROKES FOR MINICYLINDERS SERIES 16-24-25

■ Double-acting
 * Single-acting

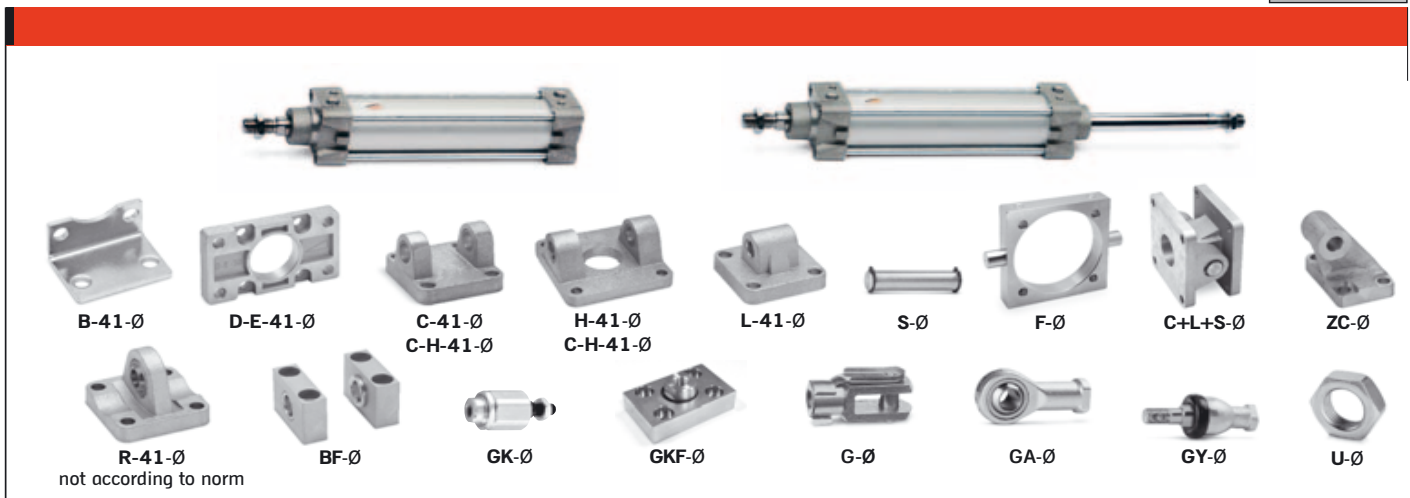
standard strokes

series	\varnothing	10	25	40	50	80	100	125	160	200	250	300	320	400	500
16	8	■*	■*	■*	■*	■	■	■	■	■					
16	10	■*	■*	■*	■*	■	■	■	■	■					
16	12	■*	■*	■*	■*	■	■	■	■	■					
24	16	■*	■*	■*	■*	■	■	■	■	■	■	■	■	■	■
24	20	■*	■*	■*	■*	■	■	■	■	■	■	■	■	■	■
24	25	■*	■*	■*	■*	■	■	■	■	■	■	■	■	■	■
25	16	■	■	■	■	■	■	■	■	■	■	■	■	■	■
25	20	■	■	■	■	■	■	■	■	■	■	■	■	■	■
25	25	■	■	■	■	■	■	■	■	■	■	■	■	■	■



Series 60 Cylinders

Single and double-acting, magnetic, cushioned Standard and low friction versions
 ∅ 32 - 40 - 50 - 63 - 80 - 100 - 125 (ISO 15552)



FLUID POWER

CODING EXAMPLE

60 M 2 L 050 A 0200

60 » SERIES

M » VERSION
M = magnetic L = low friction
N = non magnetic

2 » OPERATION
 1 = single-acting, front spring
 2 = double-acting*, front and rear cushioned
 3 = double-acting*, no cushion
 4 = double-acting*, rear cushioned
 5 = double-acting*, front cushioned
 6 = double-acting*, through-rod, front and rear cushioned
 7 = single-acting, through-rod
 * all double-acting cylinders are also available in the low friction version

L » MATERIALS
L = rolled stainless steel rod AISI 420B - anodised aluminium round tube - NBR seals - nuts and tie-rods zinc-plated steel - rod seals polyurethane
T = stainless steel AISI 420B tie-rods - stainless steel AISI 303 tie-rod nuts
C = rolled stainless steel AISI 303 piston rod, stainless steel AISI 304 piston rod nut
U = rolled stainless steel AISI 303 piston rod, AISI 304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts
W = rolled stainless steel AISI 304 piston rod, AISI304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts

050 » BORE
 032 = ∅ 32 mm **050** = ∅ 50 mm 080 = ∅ 80 mm 125 = ∅ 125 mm
 040 = ∅ 40 mm 063 = ∅ 63 mm 100 = ∅ 100 mm

A » CONSTRUCTION
A = standard with lock nut for rod
RL = cylinder with rod lock
F = cylinder with centre trunnion

0200 » STROKE
 10-2500 mm

» = standard
V = FKM rod seal **W** = all FKM seals -130C°
R = NBR rod seal **L** = low friction version without rod seal (rear supply only) **
 (_ _ _) = extended piston rod _ _ _ mm
 ** The possibility to order the cylinder without piston rod seal, further reduces the friction force, (this configuration is possible in applications where the cylinder is pressurized in the rear chamber only)

STANDARD STROKES FOR CYLINDERS SERIES 60

■ Single-acting (standard versions)
 * Double-acting (standard and low friction versions)
 Other strokes up to 2500 mm are available on request.

standard strokes

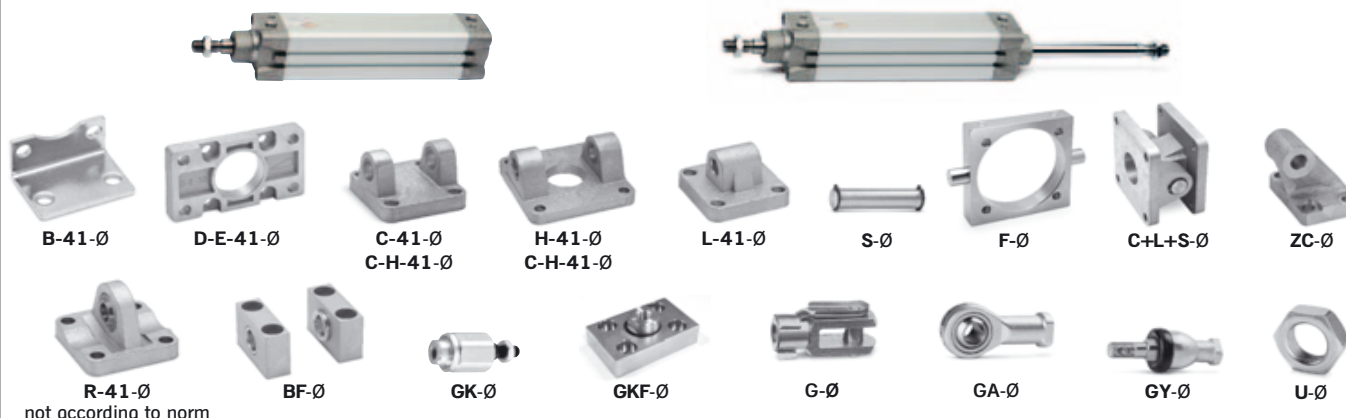
∅	25	50	75	100	125	150	160	200	250	300	320	400	500
32	■*	■*	■*	×	×	×	×	×	×	×	×	×	×
40	■*	■*	■*	×	×	×	×	×	×	×	×	×	×
50	■*	■*	■*	×	×	×	×	×	×	×	×	×	×
63	■*	■*	■*	×	×	×	×	×	×	×	×	×	×
80	■*	■*	■*	×	×	×	×	×	×	×	×	×	×
100		■*	■*	×	×	×	×	×	×	×	×	×	×
125		×	×	×	×	×	×	×	×	×	×	×	×

Series 61 Cylinders - Aluminium Profile

Single and double-acting, magnetic, cushioned Standard and low friction versions
 ø 32 - 40 - 50 - 63 - 80 - 100 - 125 (ISO 15552)



FLUID
POWER



not according to norm

CODING EXAMPLE

61 M2 P 050 A 0200

61	» SERIES
M	» VERSION M = standard, magnetic L = low friction
2	» OPERATION 1 = single-acting, front spring (ø 32 ± ø 100) 2 = double-acting*, front and rear cushioned 3 = double-acting*, no cushion 4 = double-acting*, rear cushioned 5 = double-acting*, front cushioned 6 = double-acting*, through-rod, front and rear cushioned 7 = single-acting, through-rod * all double-acting cylinders are also available in the low friction version
P	» MATERIALS P = rolled stainless steel rod, AISI 420B anodised profile aluminium tube NBR seals - rod seals polyurethane, nuts and tie-rods zinc-plated steel R = stainless steel AISI 420B tie-rods - stainless steel AISI 303 tie-rod nuts C = rolled stainless steel AISI 303 piston rod, stainless steel AISI 304 piston rod nut U = rolled stainless steel AISI 303 piston rod, AISI 304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts W = rolled stainless steel AISI 304 piston rod, AISI304 piston-rod nut, AISI 420B tie-rods, AISI 303 tie-rod nuts
050	» BORE 032 = ø 32 mm 050 = ø 50 mm 080 = ø 80 mm 125 = ø 125 mm 040 = ø 40 mm 063 = ø 63 mm 100 = ø 100 mm
A	» CONSTRUCTION A = standard with rod nut RL = cylinder with rod lock
0200	» STROKE 10-2500 mm
	» = standard W = all FKM seals + 130 C° V = FKM rod seal L = low friction version without rod seal (rear supply only) ** R = NBR rod seal (_ _ _) = extended piston rod _ _ _ mm ** The possibility to order the cylinder without piston rod seal, further reduces the friction force, (this configuration is possible in applications where the cylinder is pressurized in the rear chamber only)

STANDARD STROKES FOR CYLINDERS SERIES 61

■ Single-acting (standard versions)
 * Double-acting (standard and low friction versions)
 Other strokes up to 2500 mm are available on request

standard strokes	ø	25	50	75	80	100	125	150	160	200	250	300	320	400	500
32	ø	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*
40	ø	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*
50	ø	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*
63	ø	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*
80	ø	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*
100	ø		■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*
125	ø		■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*	■*



Cylinder Problem? The Solution Is Here. . .



The Fastest Cylinder Breakdown Service
Replacements made in as little as one hour!

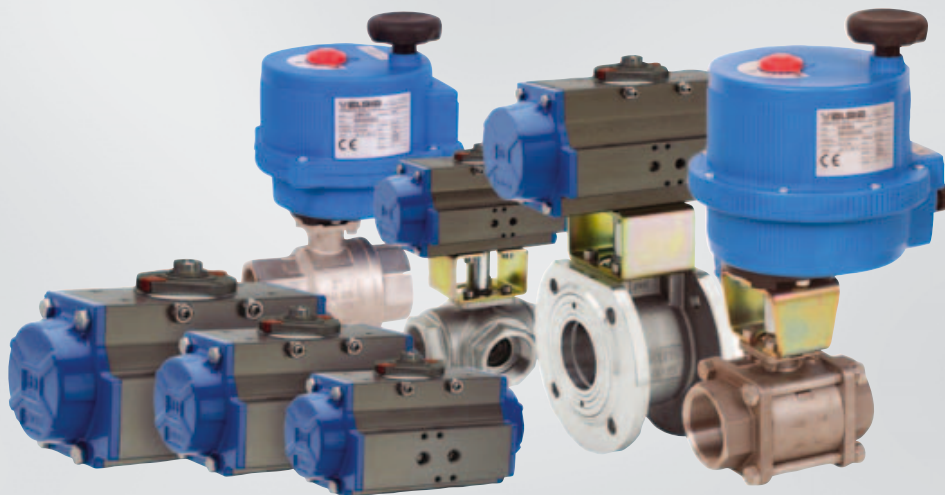


Standard and Non-Standard Strokes

Includes Many Cylinder Types

Totally Flexible Delivery and Collection Options Available

Actuated Valve Assemblies



SAME DAY DESPATCH
Try the service today!



Pneumatic and Electric Actuators

Single and Double Acting

Comprehensive Range of Valves (Ex-Stock)

Fully Assembled and Tested



Series 4 Valves and Solenoid Valves

3/2, 5/2 and 5/3 way CC CO CP

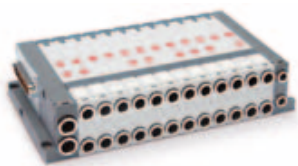
Connections: 1/8, 1/4 and 1/2 Coils sold separately. Full range available.

FLUID
POWER

 438-015-22	 438-011-22	 458-015-22	 458-011-22
 434-015-22	 434-011-22	 454-015-22	 454-011-22
 438-35	 458-35	 438-33	 458-33
 434-35	 454-35	 434-33	 454-33

Full Range Available:

Valve Islands



Mechanical and Manual Valves



Flow Control Valves



Automatic Valves



Series MX Filter-Regulators

MX2 Connections: 3/8, 1/2, 3/4 - MX3 Connections: 3/4, 1. Modular Bowl with technopolymer cover and bayonet-type mounting



CODING EXAMPLE

MX2 - 3/8 - FR0004

MX	» SERIES	
2	» SIZE	2 = 3/8 - 1/2 - 3/4 3 = 3/4 - 1
3/4	» CONNECTIONS	3/8 = 3/8 3/4 = 3/4 1/2 = 1/2 1 = 1
FR	» FILTER-REGULATOR	
0	» FILTERING ELEMENT WITH DESIGN TYPE	0 = 25 µm with relieving (standard) 1 = 5 µm with relieving 2 = 25 µm without relieving (with semiautomatic-manual drain only) 3 = 5 µm without relieving (with semiautomatic-manual drain only)
0	» DRAINING OF CONDENSATE*	0 = manual semiautomatic drain (standard) 3 = automatic drain 5 = depressuring drain, protected 8 = no drain with connections 1/8
0	» OPERATING PRESSURE (1 bar = 14.5 psi)	0 = 0.5 - 10 bar (standard) 7 = 0.5 - 7 bar (MX2 only) 4 = 0 - 4 bar
4	» PRESSURE GAUGE	0 = without pressure gauge (with threaded connection) 2 = with built-in pressure gauge 0-6 and working pressure 0 - 4 bar 3 = with built-in pressure gauge 0-10 and working pressure 0 - 7 bar (MX2 only) 4 = with built-in pressure gauge 0-12 and working pressure 0.5 - 10 bar (standard)

FLUID POWER



Air Treatment Box Sets

Complete Filter-Regulator Set with Bracket and Gauge

Integrated Gauge Version	
Size	Part No
3/8	MX2-FR-3/8-KIT-IG
1/2	MX2-FR-1/2-KIT-IG

External Gauge Version	
Size	Part No
1/4	FR 1/4 KIT
3/8	MX2-FR-3/8-KIT-EG
1/2	MX2-FR-1/2-KIT-EG

High Performance

Reduced Installation and Maintenance Time

Compact and Light Weight



Series MX Filters

MX2 Connections: 3/8, 1/2, 3/4 - MX3 Connections: 3/4, 1. Modular Bowl with technopolymer cover and bayonet-type mounting

FLUID POWER



CODING EXAMPLE

MX2 - 3/8 - F00

MX	» SERIES
2	» SIZE 2 = 3/8 - 1/2 - 3/4 3 = 3/4 - 1
3/8	» CONNECTIONS 3/8 = 3/8 3/4 = 3/4 1/2 = 1/2 1 = 1
F	» FILTER
0	» FILTERING ELEMENT 0 = 25 µm (standard) 1 = 5 µm
0	» DRAINING OF CONDENSATE* 0 = semiautomatic-manual drain (standard) 3 = automatic drain 5 = depressuring drain, protected 8 = no drain with connection 1/8

Series MX Pressure Regulators

MX2 Connections: 3/8, 1/2, 3/4 - MX3 Connections: 3/4, 1. Manifold Connections: 1/2 (MX2 only) Modular - Available with built-in pressure gauges or with connection for gauges



CODING EXAMPLE

MX2 - 3/4 - R004

MX	» SERIES
2	» SIZE 2 = 3/8 - 1/2 - 3/4 3 = 3/4 - 1
3/8	» CONNECTIONS 3/8 = 3/8 1/2 = 1/2 3/4 = 3/4 1 = 1
R	» TYPE OF REGULATOR R = pressure regulator M = Manifold pressure regulator (MX2 - 1/2 only)
0	» OPERATING PRESSURE (1 bar = 14.5 psi) 0 = 0.5 - 10 bar (standard) 4 = 0 - 4 bar 7 = 0.5 - 7 bar (only MX2)
0	» DESIGN TYPE 0 = relieving (standard) 1 = without relieving
4	» PRESSURE GAUGE 0 = without pressure gauge (with threaded connection for gauges) 2 = with built-in pressure gauge 0-6 and working pressure 0 - 4 bar 3 = with built-in pressure gauge 0-10 and working pressure 0 - 7 bar (MX2 only) 4 = with built-in pressure gauge 0-12 and working pressure 0.5 - 10 bar (standard)

Series MX Lubricators

Connections: MX2 - 3/8, 1/2, 3/4 - MX3 - 3/4, 1. Modular Bowl with technopolymer cover and bayonet-type mounting



CODING EXAMPLE

MX2 - 3/8 - L00

MX	» SERIES
2	» SIZE 2 = 3/8 - 1/2 - 3/4 3 = 3/4 - 1
3/8	» CONNECTIONS 3/8 = 3/8 1/2 = 1/2 3/4 = 3/4 1 = 1
L	» LUBRICATOR
00	» DESIGN TYPE 00 = atomized oil



Series N Filters and Coalescing Filters

Connections: 1/8 and 1/4
With screw-on transparent bowl



CODING EXAMPLE

N204 - F00

N	» SERIES
2	» SIZE 1 = small bowl 2 = standard bowl
04	» CONNECTION 08 = 1/8 04 = 1/4
F	» FILTER
0	» FILTERING ELEMENT 0 = 25 µm (standard) 1 = 5 µm B = 0.01 µm
0	» DRAINING OF CONDENSATE* 0 = manual - semiautomatic drain 4 = depressurisation only standard bowl (2) 5 = depressurisation, protected only standard bowl (2) 8 = no drain, connection 1/8

Series N Pressure Regulators

Connection: 1/8 and 1/4



CODING EXAMPLE

N1204 - R00

N	» SERIES
12	» SIZE
04	» CONNECTION 08 = 1/8 04 = 1/4
R	» REGULATOR
0	» OPERATING PRESSURE 0 = 0.5 - 10 bar (standard) 1 = 0 - 4 bar 2 = 0 - 2 bar (1/4 only) 7 = 0.5 - 7 bar (1/4 only)
0	» DESIGN TYPE 0 = self-relieving 1 = non-relieving

Series N Lubricators

Connections: 1/8 and 1/4
With transparent bowl



CODING EXAMPLE

N204 - L00

N	» SERIES
2	» SIZE 1 = small bowl 2 = standard bowl
04	» CONNECTIONS 08 = 1/8 04 = 1/4
L	» LUBRICATOR
00	» DESIGN TYPE 00 = atomized oil

Series N Filter-Regulators

Connections: 1/8 and 1/4
With transparent bowl



CODING EXAMPLE

N204 - D00 - 4

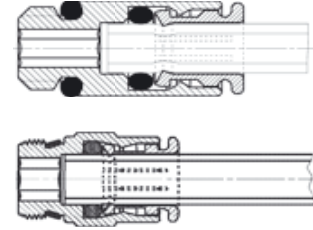
N	» SERIES
2	» SIZE 1 = small bowl 2 = standard bowl
04	» CONNECTIONS 08 = 1/8 04 = 1/4
D	» FILTER-REGULATOR
0	» FILTERING ELEMENT 0 = 25 µm standard 1 = 5 µm
0	» DRAINING OF CONDENSATE* 0 = semiautomatic, self-relieving 1 = semiautomatic, non-relieving 4 = depressurisation, self-relieving only standard bowl (2) 5 = depressurisation, protected self-relieving, only standard bowl (2) 8 = Connection 1/8, self-relieving
4	» OPERATING PRESSURE = 0.5 - 10 bar 2 = 0 - 2 bar (G1/4) 4 = 0 - 4 bar 7 = 0.5 - 7 bar (G1/4)



Series 6000 Super-Rapid Fittings for Plastic Tubes

Tube external diameters: 3 (Micro only), 4, 5, 6, 8, 10, 12, 14, 16 mm
 Threaded connections: M3 (Micro only), M5, M7, 1/8, 1/4 3/8, 1/2, R1/8, R1/4, R3/8, R1/2

Super-rapid fittings Series 6000 are available in 35 different models.
 Super-rapid fittings Series 6000 Micro are available in 14 different models.
 Connection and disconnection of the tube can be repeated several times and can be performed without the use of tools.
 The extractable internal collet allows the sealing ring (O-ring) to be easily replaced if it is damaged or in case of wear of the rubber compound.



FLUID POWER

Sprint®



- S6510 4-1/8 S6510 10-1/4
- S6510 4-1/4 S6510 10-3/8
- S6510 5-1/8 S6510 10-1/2
- S6510 5-1/4 S6510 12-1/4
- S6510 6-1/8 S6510 12-3/8
- S6510 6-1/4 S6510 12-1/2
- S6510 6-3/8 S6510 14-3/8
- S6510 8-1/8 S6510 14-1/2
- S6510 8-1/4 S6510 16-1/2
- S6510 8-3/8 S6510 16-3/4
- S6510 8-1/2

Male Connector



° = with 2661 Assembled
 * = with O-Ring Assembled
 *Y = with O-Ring Assembled
 It can be connected also to valve islands Series Y



With O-Ring Assembled

- 6512 3-M3°
- 6512 3-M5*
- 6512 4-M7-M*
- 6512 4-1/8-M*Y
- 6512 6-M7-M*
- 6512 6-1/8-M*Y
- 6512 8-1/8-M*Y
- 6512 10-1/4-M*
- 6512 4-M5
- 6512 4-M6
- 6512 4-1/8
- 6512 4-1/4
- 6512 5-M5
- 6512 6-M5
- 6512 6-1/8
- 6512 6-1/4
- 6512 8-1/8
- 6512 8-1/4
- 6512 8-3/8
- 6512 10-1/4
- 6512 10-3/8
- 6512 12-1/4
- 6512 12-3/8

- 6463 4-M5
- 6463 4-1/8
- 6463 5-1/8
- 6463 6-1/8
- 6463 6-1/4
- 6463 8-1/8
- 6463 8-1/4
- 6463 10-1/4



Female Stud

Sprint®



Swivel Elbow

- S6520 4-1/8 S6520 8-1/2
- S6520 4-1/4 S6520 10-1/4
- S6520 5-1/8 S6520 10-3/8
- S6520 5-1/4 S6520 10-1/2
- S6520 6-1/8 S6520 12-1/4
- S6520 6-1/4 S6520 12-3/8
- S6520 6-3/8 S6520 12-1/2
- S6520 8-1/8 S6520 14-3/8
- S6520 8-1/4 S6520 14-1/2
- S6520 8-3/8



Swivel Elbow with O-Ring Assembled

- 6522 4-M5
- 6522 4-1/8
- 6522 4-1/4
- 6522 5-M5
- 6522 6-M5
- 6522 6-1/8
- 6522 6-1/4
- 6522 8-1/8
- 6522 8-1/4
- 6522 8-3/8
- 6522 10-1/4
- 6522 10-3/8
- 6522 12-1/4
- 6522 12-3/8

Sprint®



Fixed Male Elbow-Taper

- S6500 4-1/8
- S6500 4-1/4
- S6500 5-1/8
- S6500 5-1/4
- S6500 6-1/8
- S6500 6-1/4
- S6500 8-1/8
- S6500 8-1/4
- S6500 8-3/8
- S6500 10-1/4
- S6500 10-3/8
- S6500 12-1/4
- S6500 12-3/8

Sprint®



Extended Swivel Elbow

- 6525 6-1/8
- 6525 6-1/4
- 6525 8-1/8
- 6525 8-1/4

- 6501 4-M5



With 2661 assembled

Full Range Available:

Super-Rapid Compact™ Fittings in Technopolymer Series 7000



Pipe Fittings Series 2000 / BSPT Adaptors



Sprint®



- S6430 4-1/8
- S6430 5-1/8
- S6430 5-1/4
- S6430 6-1/8
- S6430 6-1/4
- S6430 8-1/8
- S6430 8-1/4
- S6430 8-3/8
- S6430 10-1/4
- S6430 10-3/8
- S6430 10-1/2
- S6430 12-1/4
- S6430 12-3/8
- S6430 12-1/2
- S6430 14-1/2

Swivel branch tee



- 6432 4-M5
- 6432 4-1/8
- 6432 5-M5
- 6432 6-1/8
- 6432 6-1/4
- 6432 8-1/8
- 6432 8-1/4
- 6432 8-3/8
- 6432 10-1/4
- 6432 10-3/8
- 6432 12-1/4
- 6432 12-3/8

Swivel branch tee with O-Ring assembled

Sprint®



- S6440 4-1/8
- S6440 5-1/8
- S6440 6-1/8
- S6440 6-1/4
- S6440 8-1/8
- S6440 8-1/4
- S6440 8-3/8
- S6440 10-1/4
- S6440 10-3/8
- S6440 12-3/8
- S6440 14-1/2

Swivel branch tee



- 6442 4-M5
- 6442 4-1/8
- 6442 5-M5
- 6442 6-1/8
- 6442 6-1/4
- 6442 8-1/8
- 6442 8-1/4
- 6442 8-3/8
- 6442 10-1/4
- 6442 10-3/8
- 6442 12-1/4
- 6442 12-3/8

Swivel branch tee with O-Ring assembled

Sprint®



- 6451 4-M5*
- 6451 6-M5*
- S6450 4-1/8
- S6450 6-1/8
- S6450 8-1/8
- S6450 8-1/4

Swivel Y connector
*non swivel Model, with 2661 assembled



- 6622 4-M5
- 6622 4-1/8
- 6622 6-1/8
- 6622 6-1/4
- 6622 8-1/8
- 6622 8-1/4
- 6622 10-1/4

Banjo with O-Ring assembled



- 6632 4-1/8
- 6632 6-1/8
- 6632 6-1/4
- 6632 8-1/8
- 6632 8-1/4
- 6632 10-1/4

Double Banjo with O-Ring assembled



- 6620 4-M5
- 6620 4-1/8
- 6620 6-1/8
- 6620 6-1/4
- 6620 8-1/8
- 6620 8-1/4

Double Banjo Ring Connector
Assembly with 1631, 1635



- 1631 01...
- 1631 02...
- 1631 03...

01... = Single Banjo Stem
02... = Double Banjo Stem
03... = Triple Banjo Stem



- 6610 4-M5
- 6610 4-M6*
- 6610 4-1/8
- 6610 5-M5
- 6610 5-M6*
- 6610 5-1/8
- 6610 6-M5
- 6610 6-M6*
- 6610 6-1/8
- 6610 6-1/4
- 6610 8-1/8
- 6610 8-1/4
- 6610 8-3/8
- 6610 10- 1/4*
- 6610 10- 3/8*
- 6610 12-1/2*

Models without reference can be always assembled with 1631-1635
*Assembly required with SCU, SVU, SCO...M5
*Assembly required with 1635

Sprint®



- 6811 4-M5*
- 6811 4-1/8
- 6811 5-1/8
- 6811 5-1/4
- 6811 6-1/8
- 6811 6-1/4
- 6811 8-1/8
- 6811 8-1/4
- 6811 10-1/4
- 6811 10-3/8
- 6811 12-3/8
- 6811 14-1/2

Metric Male Adaptor
*with O-Ring assembled



- S6110 6 1/8
- S6110 6 1/4
- S6110 8 1/8
- S6110 8 1/4
- S6110 8 3/8
- S6110 10 1/4
- S6110 10 3/8
- S6110 10 1/2
- S6110 12 1/4
- S6110 12 3/8
- S6110 12 1/2

45° Male Elbow

Full Range Available:

Tubing & Accessories



QRC Series 5000



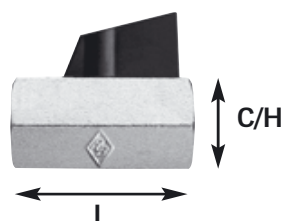
Ball Valves & Actuators

FLUID POWER

Mini Ball Valves

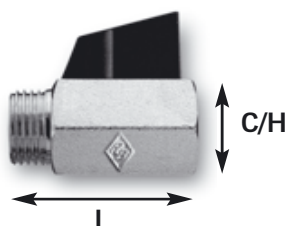
Suitable for most non-corrosive liquids and gases including air, water and fuels. Operating pressure 10 bar (147psi). Operating temperature -20°C to +90°C.

Female/Female



	L	C/H
3830 1/8	41	21
3830 1/4	41	21
3830 3/8	41	21
3830 1/2	46	25

Male/Female

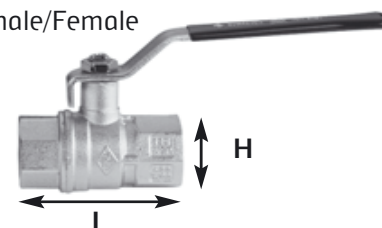


	L	C/H
3831 1/8	41	21
3831 1/4	41	21
3831 3/8	41	21
3831 1/2	46	25

Brass Ball Valves - Gas/WRAS Approved

Suitable for most non-corrosive liquids and gases including air, water, solvents and fuels. Operating temperature -20°C to +130°C

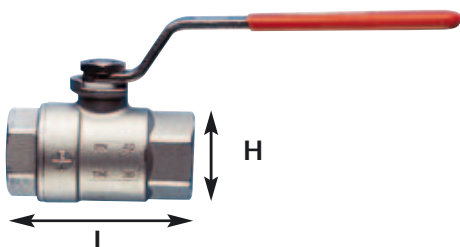
Female/Female



	L	H
6273 1/4	51.5	23
6273 3/8	51.5	23
6273 1/2	59	30
6273 3/4	67	36
6273 1	81.5	43.5
6273 1 1/4	94	53
6273 1 1/2	102.4	65
6273 2	123	80

Economy Stainless Steel Ball Valves Two-Piece Design

2-Piece stainless steel quarter turn ball valves with all wetted parts stainless steel AISI316. Other metal parts in stainless steel AISI304. Available with NPT threads. (Part No 700023)



	Thread	L	H
70400002	1/4	53.5	30
70400003	3/8	53.5	30
70400004	1/2	60	32.5
70400005	3/4	70	40
70400006	1	79	49
70400007	1 1/4	91	62
70400008	1 1/2	103	75
70400010	2	124	95

Pneumatically Actuated 2-Way Brass Ball Valves

Full bore, direct mounted actuator, nickel plated brass ball valves (low torque design). Also available in 1/4, 3/8, 2 1/2, 3, 4.



Double Acting

	Thread	Bar
8P007904	1/2	40
8P007905	3/4	40
8P007906	1	40
8P007907	1 1/4	40
8P007908	1 1/2	40
8P007910	2	40



Single Acting

	Thread	Bar
8P008104	1/2	40
8P008105	3/4	40
8P008106	1	40
8P008107	1 1/4	40
8P008108	1 1/2	40
8P008110	2	40

3-Way Option
Also Available
(L/T Port)

Full Range of Accessories Available:

Limit Switch Box



Namur 3/2 and 5/2 Solenoid Valves





Double Acting Actuated Ball Valve Assembly



Single Acting Actuated Ball Valve Assembly



Double Acting Actuator

ACTUATED BALL VALVES & ACCESSORIES

KELM's™ ongoing investment in technology and resource builds **Trust** and **Confidence** in the marketplace, assuring continuity in all aspects of **Engineering Distinction**.



- Double Acting & Single Acting
- ISO 5211 Mounting Pad
- Rack and Pinion Design
- Long Life
- NAMUR Interface
- Full Bore Valves
- Stainless Steel & Nickel Plated Valves available



Temperature Range:
-20°C to +80°C



Working Pressure:
2.5 bar to 8 bar

Please refer to pages 503-507 of our main 2013/14 Fluid Power Catalogue

FLUID POWER




KELMKTM NYLON TUBING

Enhanced Quality Performance

Metric Flexible Nylon Tubing, Type NT (to BS5409)



 Temperature Range:
-10°C to +80°C

- U.V. Stable
- Silicone Free
- Abrasion Resistant

Tech Sheet
3136

Manufactured from quality grade nylon granules. The properties of this tube make it ideal for use in pneumatic control systems. (Ideally suited for use with push-in fittings).

Other colours and lengths available on request

30 Metre Coils

5010	OD mm	ID mm	PSI	
NTM04/030	4	3	Natural	300
NTM04/025	4	2.5	Natural	400
NTM04/025N	4	2.5	Black	400
NTM04/025B	4	2.5	Blue	400
NTM04/025G	4	2.5	Green	400
NTM04/025R	4	2.5	Red	400
NTM04/025Y	4	2.5	Yellow	400
NTM05/030	5	3	Natural	400
NTM05/030N	5	3	Black	400
NTM05/030B	5	3	Blue	400
NTM05/030G	5	3	Green	400
NTM05/030R	5	3	Red	400
NTM05/030Y	5	3	Yellow	400
NTM05/033	5	3.3	Natural	300
NTM06/040	6	4	Natural	350
NTM06/040N	6	4	Black	350
NTM06/040B	6	4	Blue	350
NTM06/040G	6	4	Green	350
NTM06/040R	6	4	Red	350
NTM06/040Y	6	4	Yellow	350
NTM06/045	6	4.5	Natural	300
NTM08/060	8	6	Natural	350
NTM08/060N	8	6	Black	350
NTM08/060B	8	6	Blue	350
NTM08/060G	8	6	Green	350
NTM08/060R	8	6	Red	350
NTM08/060Y	8	6	Yellow	350
NTM08/055	8	5.5	Natural	350

30 Metre Coils

5010	OD mm	ID mm	PSI	
NTM08/055N	8	5.5	Black	350
NTM10/070	10	7	Natural	300
NTM10/070N	10	7	Black	300
NTM10/070B	10	7	Blue	300
NTM10/070G	10	7	Green	300
NTM10/070R	10	7	Red	300
NTM10/070Y	10	7	Yellow	300
NTM10/080	10	8	Natural	220
NTM10/080N	10	8	Black	220
NTM10/080B	10	8	Blue	220
NTM10/080G	10	8	Green	220
NTM10/080R	10	8	Red	220
NTM10/080Y	10	8	Yellow	220
NTM12/090	12	9	Natural	250
NTM12/090N	12	9	Black	250
NTM12/090B	12	9	Blue	250
NTM12/090G	12	9	Green	250
NTM12/090R	12	9	Red	250
NTM12/090Y	12	9	Yellow	250
NTM12/100	12	10	Natural	200
NTM12/100N	12	10	Black	200
NTM12/100R	12	10	Red	200
NTM14/110	14	11	Natural	250
NTM14/110N	14	11	Black	250
NTM15/120	15	12	Natural	200
NTM16/130	16	13	Natural	200
NTM18/140	18	14	Natural	200
NTM22/170	22	17	Natural	180

100 Metre Coils

5010	OD mm	ID mm	PSI	
NTM04/025-100	4	2.5	Natural	400
NTM05/030-100	5	3	Natural	400
NTM06/040-100	6	4	Natural	350
NTM06/040N-100	6	4	Black	350
NTM06/040B-100	6	4	Blue	350
NTM06/040G-100	6	4	Green	350
NTM06/040R-100	6	4	Red	350
NTM06/040Y-100	6	4	Yellow	350
NTM08/060-100	8	6	Natural	350
NTM08/060N-100	8	6	Black	350
NTM08/060B-100	8	6	Blue	350
NTM10/080-100	10	8	Natural	220
NTM10/080N-100	10	8	Black	220
NTM10/080B-100	10	8	Blue	220

500 Metre Drums

5010	OD mm	ID mm	PSI	
NTM06/040-500	6	4	Natural	350
NTM06/040-500B	6	4	Blue	350
NTM08/060-500	8	6	Natural	350

For Polyurethane Tube see page 492 of our main 2013/14 Fluid Power Catalogue



PLASTIC & METAL PUSH-IN FITTINGS

FLUID
POWER


ONE TOUCH & ONE TOUCH+ 16 bar PUSH-IN FITTINGS


- Convenient One-Touch fittings provide instant connections.
- Elliptical release ring facilitates pneumatic installation in confined spaces.
- Light manual pressure on the elliptical release ring is all that is required to instantly disconnect each tube, no special tools required.
- Nickel plated brass threaded body ensures anti-corrosion and anti-contamination.
- All taper threaded fittings are pre-coated with Teflon sealant and require no additional sealing.

One Touch Construction:

Resin Body: PBT
Metal Body: Brass nickel plated
Packing: NBR
Back Ring: POM
O-Ring: NBR
Collar: Nickel plated zinc
Sleeve: POM
Locking Claw: Stainless steel
Media: Air and Vacuum



 **Temperature Range:**
0°C to +60°C*

 **Working Pressure:**
10 bar (150 psi)

Please refer to pages 460-471 of our main 2013/14 Fluid Power Catalogue

One Touch+ Construction:

Resin Body: Technopolymer Resin
Metal Body: Brass nickel plated
Packing: NBR
Back O-Ring: POM
O-Ring: NBR
Collar: Nickel plated zinc
Collet: Technopolymer Resin
Sleeve: POM
Collet Ring: Brass nickel plated



 **Temperature Range:**
-10°C to +60°C*

 **Working Pressure:**
-0.8 bar to 16 bar*

Please refer to pages 472-476 of our main 2013/14 Fluid Power Catalogue

MICRO & ALL METAL PUSH-IN FITTINGS

- Convenient One-Touch fittings provide instant connections.
- Elliptical release ring facilitates pneumatic installation in confined spaces.
- Light manual pressure on the elliptical release ring is all that is required to instantly disconnect each tube, no special tools required.
- Nickel plated brass ensures anti-corrosion and anti-contamination.
- All taper threaded fittings are pre-coated with Teflon sealant and require no additional sealing.

Micro Construction:

Resin Body: PBT
Metal Body: Brass nickel plated
Packing: NBR
Back O-Ring: POM
O-Ring: NBR
Collar: Nickel plated zinc
Collet: PBT
Sleeve: POM
Collet Ring: Brass nickel plated



 **Temperature Range:**
0°C to +60°C*

 **Working Pressure:**
-0.8 bar to 10 bar*

Please refer to pages 483-489 of our main 2013/14 Fluid Power Catalogue

All Metal Construction:

Resin Body: Brass nickel plated
Packing: NBR
Back O-Ring: POM
O-Ring: NBR
Collet Ring: Brass nickel plated



 **Temperature Range:**
-10°C to +60°C*

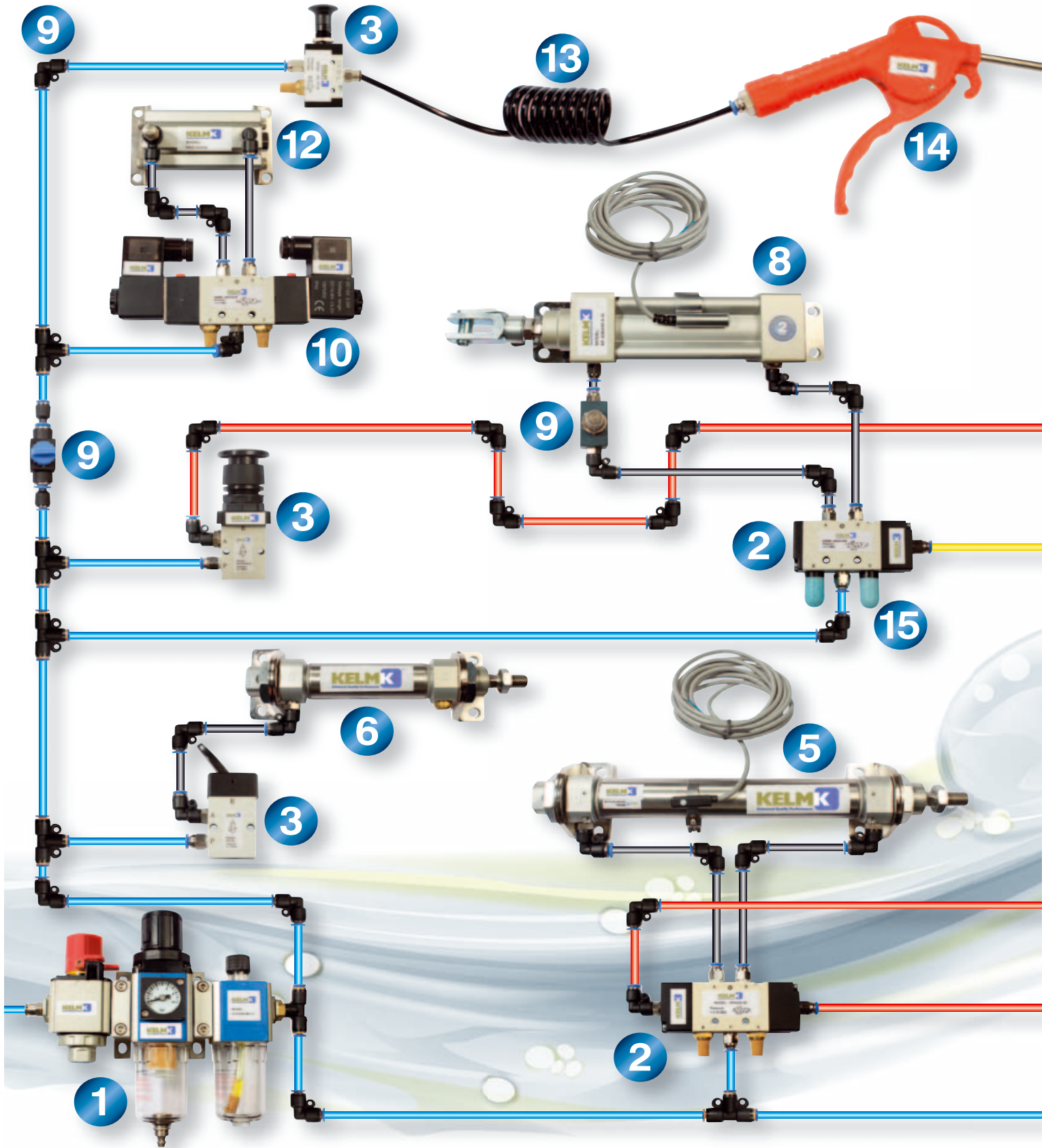
 **Working Pressure:**
0.8 bar to 8 bar*

Please refer to pages 477-481 of our main 2013/14 Fluid Power Catalogue

*Dependent upon tubing specification

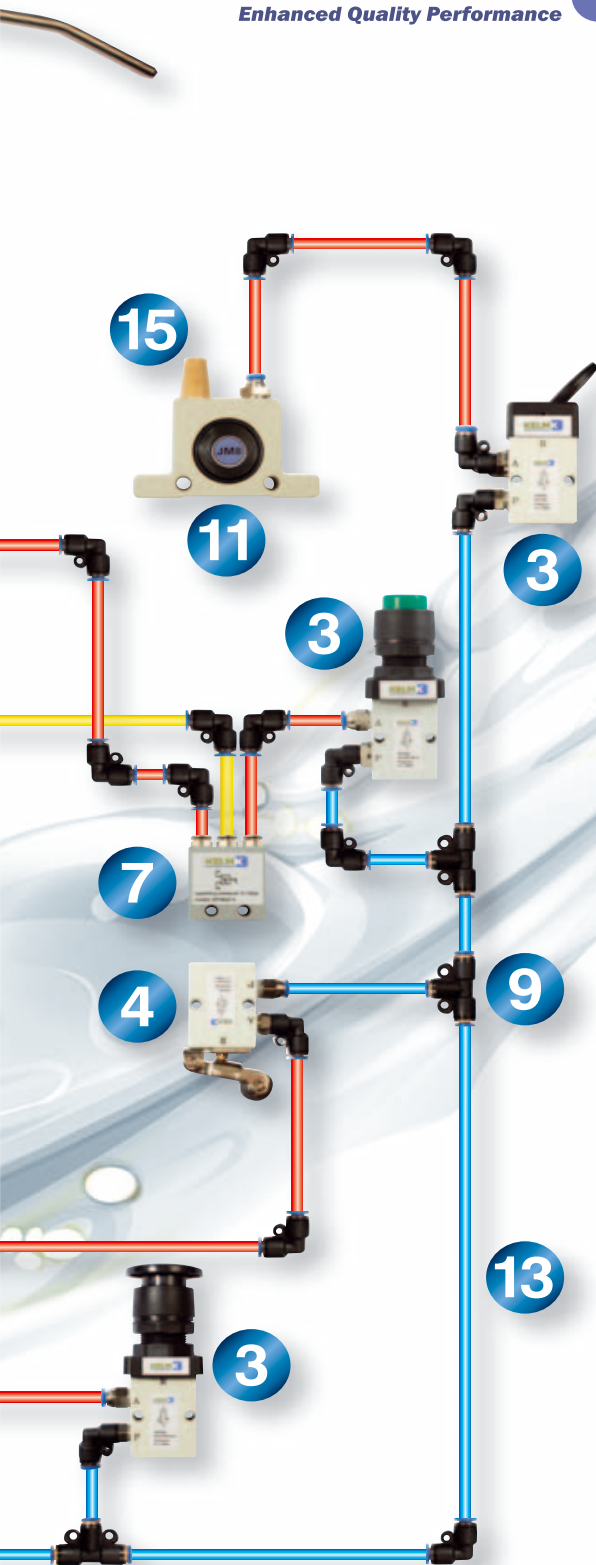


FLUID POWER



KELMK™ COMPRESSED AIR SYSTEM GUIDE

Enhanced Quality Performance



Please refer to pages of our main 2013/14 Fluid Power Catalogue

1 Air Preparation 1/8" up to 1" – Filters, Regulators and Lubrications.....	416 to 424
2 Pilot Operated Valves 1/8", 1/4", 3/8" and 1/2" - 3/2, 5/2 and 5/3 Valves.....	451 to 452
3 Manual Operated Valves M5, 1/8", 1/4", 3/8", 1/2" and 3/4" - 3/2, 4/2, 4/3, 5/2 and 5/3 Valves.....	446 to 450
4 Mechanical Operated Valves M5, 1/8" and 1/4" - 3/2.....	446 and 449
5 ISO 6432 Mini Cylinders Double Acting Magnetic in Bore Sizes 8mm to 40mm.....	429 to 430
Mounting and Reed Switch to suit.....	430 to 431
6 ISO 6432 Mini Cylinders Single Acting Magnetic in Bore Sizes 8mm to 40mm.....	428
Mounting and Reed Switch to suit.....	430 to 431
7 Logic and Specialist Valves Not, And, Yes, Oscillating, Impulse.....	456 to 458
8 ISO 15552 (Formally ISO 6431/VDMA 24562) Double Acting Magnetic Cylinders In Bore Sizes 32mm to 200mm.....	434 to 435
Mounting and Reed Switch to suit.....	436 to 438
9 Plastic and Metal Push In Fittings and Flow Restrictors 4mm O.D. up to 12mm O.D.	462 to 489
10 Solenoid Operated Valves Single Solenoid and Double Solenoid Valves - M5, 1/8", 1/4", 3/8" and 1/2" - 3/2, 5/2 and 5/3 Valves....	453 to 455
11 Pneumatic Vibrators 1/4" and 3/8" - Ball and Turbine.....	459
12 Compact Magnetic Cylinder Double Acting Magnetic in Bore Sizes 12mm to 100mm... ..	441 to 442
Mounting and Reed Switch to suit.....	443
13 Spring Coils and Tubing Nylon and Polyurethane.....	492 to 498
14 Blow Guns Plastic and Metal.....	495
15 Silencers Plastic, Sintered Bronze and Stainless Steel.....	765 to 767

FLUID POWER

Pneumatic Quick Release Couplings

Series 19KA & Accessories



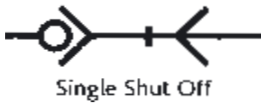
FLUID POWER



Temperature Range:
-20°C to +100°C
Standard Seal NBR



Maximum Static Working Pressure:
PB 35 bar (500 PSI)



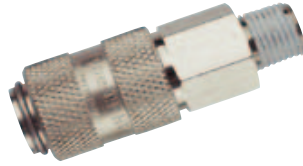
Interchangeability:
Standard PCL Series

Material:
Steel Nickel Plated, Buna Seal
(Standard Series Coupling)

Application:
General Purpose Pneumatic
Coupling, Original PCL

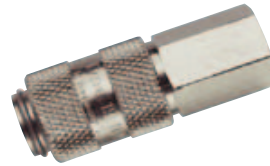
Tech Sheet
505

Couplings



Male Thread, BSPT

2510	1910	1/4"	3/8"	1/2"
19KAAK13MPX	19	63		
19KAAK17MPX	19	63		
19KAAK21MPX	22	68		



Female Thread, BSPP

2510	1910	1/4"	3/8"	1/2"
19KAIW13MPX	19	58		
19KAIW17MPX	19	58		
19KAIW21MPX	24	60		



Hose Tail

2510	To Suit Hose I.D.	1910	19	76
19KATF06MPX	6mm (1/4")	19	76	
19KATF08MPX	8mm (5/16")	19	76	
19KATF10MPX	10mm (3/8")	19	76	
19KATF13MPX	13mm (1/2")	19	76	

Plugs



Male Thread, BSPT

2510	1910	1/4"	3/8"	1/2"
19SFAK13SXN	14	50		
19SFAK17SXN	17	50		
19SFAK21SXN	21	57		



Female Thread, BSPP

2510	1910	1/4"	3/8"	1/2"
19SFIW13SXN	17	46		
19SFIW17SXN	17	47		
19SFIW21SXN	19	47		



Hose Tail

2510	To Suit Hose I.D.	1910	19	60
19SFTF05SXN	5mm	19	60	
19SFTF06SXN	6mm (1/4")	19	60	
19SFTF08SXN	8mm (5/16")	19	60	
19SFTF10SXN	10mm (3/8")	19	60	
19SFTF13SXN	13mm (1/2")	19	60	

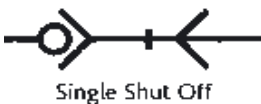
Series 25KS Safety Lock



Temperature Range:
-20°C to +100°C
Standard Seal NBR



Maximum Static Working Pressure:
PB 35 bar (500 PSI)



Interchangeability:
Cejn 320

Flow Rate:
1800 L/Min

Material:
Brass Nickel Plated

Application:
General Purpose Pneumatic
Coupling Euro Standard Design

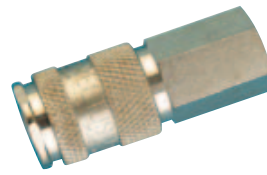
Tech Sheet
514

Couplings



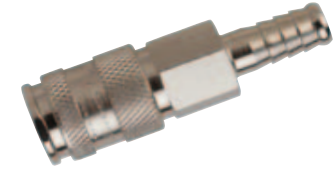
Male Thread, BSPT

2510	2510	1/4"	3/8"	1/2"
25KAAK13MPN	19	60		
25KAAK17MPN	19	60		
25KAAK21MPN	22	61		



Female Thread, BSPP

2510	2510	1/4"	3/8"	1/2"
25KAIW13MPN	19	56		
25KAIW17MPN	19	55		
25KAIW21MPN	24	58		



Hose Tail

2510	To Suit Hose I.D.	2510	19	74
25KATF06MPN	6mm (1/4")	19	74	
25KATF08MPN	8mm (5/16")	19	74	
25KATF09MPN	9mm	19	74	
25KATF10MPN	10mm (3/8")	19	74	
25KATF13MPN	13mm (1/2")	19	74	



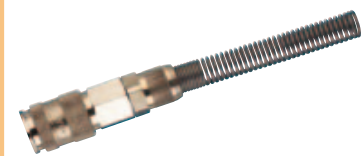
Quick Fit Tube Connection

2510	To Fit Tube Size mm	2510	19	60
25KAKO08MPN	6 x 8	19	60	



Panel Mount, Standard Hose Tail

2510	To Suit Hose I.D.	2510	19	76
25KATS06MPN	6mm (1/4")	19	76	
25KATS08MPN	8mm (5/16")	19	80	
25KATS10MPN	10mm (3/8")	19	87	



Quick Fit Tube Connection with Spring Guard

2510	To Fit Tube Size mm	2510	19	144
25KAKK08MPN	6 x 8	19	144	
25KAKK10MPN	8 x 10	19	155	

ROTARY ACTUATORS

NEW
INNOVATIVE
PRODUCTS

- Simple design eliminates the need for maintenance
- Single moving vane with a fixed seal
- Patented static tri-seal
- Pressure assisted seals
- No load full stroke operation with less than 3 psi air supply
- Dual output female drives together with dual ISO mounting pad
- Dual VDI/VDE 3845 mounting pad
- External spring return unit
- Adjustable end stops
- Thrust bearing support of the vane
- Direct NAMUR mount pad for solenoid valve
- Over 1 million cycles



NAMUR
Solenoid Valve



Double Acting



Single Acting



Please refer to pages 662-666 of our main
2013/14 Fluid Power Catalogue



ONE TOUCH EMERGENCY FITTINGS KITS

PLASTIC PUSH-IN FITTINGS

Convenient, compact boxes containing a selection of popular KELM™ One Touch Plastic Push-in Fittings along with handy tube cutter. Available in three sizes: 6mm, 8mm & 10mm. Can be used with Nylon 6, 11, 12, & Polyurethane (Ester & Ether).

METAL PUSH-IN FITTINGS ALSO AVAILABLE
Please refer to page 478 of our main 2013/14 Fluid Power Catalogue

Temperature Range:
Brass: 0°C to +60°C
Acetal: 0°C to +60°C
(dependent upon tubing specification)

Maximum Working Pressure:
10 bar (150 psi)
Negative Pressure:
-750mm Hg (10 Torr)
(dependent upon tubing specification)

Media:
Air & vacuum only.

Plastic Push-in

1060	
KELM-06MMBOX-P	6
KELM-08MMBOX-P	8
KELM-10MMBOX-P	10

Please refer to page 461 of our main 2013/14 Fluid Power Catalogue

Tech Sheet 1964



6mm Plastic Push-in Fittings & Tube Cutter

CONTENTS:

Tube Cutter PXC058 Qty: 1	Equal Tee 2019-8404 Qty: 10	Equal Connector 2019-8305 Qty: 10	Equal Bulkhead 2019-8503 Qty: 2
Equal Elbow 2019-8354 Qty: 8	1/8" BSPP Male Stud Elbow 2028-8247 Qty: 8	1/4" BSPP Male Stud Elbow 2028-8254 Qty: 5	
1/8" BSPT Flow Controller 2022-9852 Qty: 2	1/4" BSPT Flow Controller 2022-9878 Qty: 2	Flow Controller (Unidirectional) 2022-9746 Qty: 2	
1/8" BSPT Male Stud 2019-4965 Qty: 10	1/4" BSPT Male Stud 2019-4973 Qty: 10	Shut-off Valve (Tube x Tube) HVFF06-06 Qty: 2	
M5 BSPT Male Stud 2019-4957 Qty: 5	1/8" BSPP Male Stud 2028-7819 Qty: 10	1/4" BSPP Male Stud 2028-7843 Qty: 10	

8mm Plastic Push-in Fittings & Tube Cutter

CONTENTS:

Tube Cutter PXC058 Qty: 1	Equal Tee 2019-8412 Qty: 8	Equal Connector 2019-8313 Qty: 10	Equal Bulkhead 2019-8511 Qty: 2
Equal Elbow 2019-8362 Qty: 6	1/8" BSPP Male Stud Elbow 2028-8270 Qty: 6	1/4" BSPP Male Stud Elbow 2028-8288 Qty: 5	
1/8" BSPT Flow Controller 2022-9886 Qty: 2	1/4" BSPT Flow Controller 2022-9894 Qty: 2	Flow Controller (Unidirectional) 2022-9753 Qty: 2	
1/8" BSPT Male Stud 2019-4999 Qty: 10	1/4" BSPT Male Stud 2019-5004 Qty: 10	Shut-off Valve (Tube x Tube) HVFF08-08 Qty: 2	
3/8" BSPT Male Stud 2019-5012 Qty: 5	1/8" BSPP Male Stud 2028-7876 Qty: 10	1/4" BSPP Male Stud 2028-7884 Qty: 10	

10mm Plastic Push-in Fittings & Tube Cutter

CONTENTS:

Tube Cutter PXC058 Qty: 1	Flow Controller (Unidirectional) 2022-9761 Qty: 2	Equal Connector 2019-8321 Qty: 8
Equal Elbow 2019-8370 Qty: 3	1/8" BSPP Male Stud Elbow 2028-8312 Qty: 3	1/4" BSPP Male Stud Elbow 2028-8320 Qty: 3
1/4" BSPT Flow Controller 2022-9928 Qty: 2	3/8" BSPT Flow Controller 2022-9936 Qty: 1	Equal Tee 2019-8420 Qty: 2
1/8" BSPT Male Stud 2019-5038 Qty: 7	1/4" BSPT Male Stud 2019-5046 Qty: 7	Equal Bulkhead 2019-8529 Qty: 2
3/8" BSPT Male Stud 2019-5053 Qty: 5	1/8" BSPP Male Stud 2028-7926 Qty: 8	1/4" BSPP Male Stud 2028-7934 Qty: 6



HYDRAULIC HOSE

FLUID
POWER

- Market tried, tested and wanted
- High performance
- High quality
- Manufactured and tested to stringent international standards
- Competitively priced

JAYMAC has a competitively priced and high quality range of hydraulic hose suitable for all hydraulic applications with working pressures ranging from 40 bar (580 PSI) to 450 bar (6525 PSI), with sizes from 3/16" up to 6" ID.

The range consists of:

- SAE100R1AT
- SAE100R2AT
- MSHA approved SAE100R2AT
- EN857-1SC (compact)
- EN857-2SC (compact)
- EN856-4SP
- EN856-4SH
- SAE100R13
- SAE100R15
- SAE100R17
- 100R4
- 100R6
- 100R7 (thermoplastic)
- Wire braid steam hose
- PTFE convoluted and smooth bore
- Thermoplastic paint spray
- Thermoplastic sewer jetting

The range is tried, tested and used extensively through the world's manufacturing facilities and in the mobile plant industry.

Hose assembly service available From



If you have any requirements for sizes or types of hose not shown in the catalogue please contact a member of our sales department.

Tech Sheet
5000

HYDRAULIC HOSE CONNECTORS



Ferrules



R1AT, Non-skive

0309	To Suit Hose I.D.
FT1-12-04CF	1/4"
FT1-12-05CF	5/16"
FT1-12-06CF	3/8"
FT1-12-08CF	1/2"
FT1-12-10CF	5/8"
FT1-12-12CF	3/4"
FT1-12-16CF	1"
FT1-12-20CF	1.1/4"
FT1-12-24CF	1.1/2"
FT1-12-32CF	2"



R2AT, Non-skive

0309	To Suit Hose I.D.
FT2-12-04CF	1/4"
FT2-12-05CF	5/16"
FT2-12-06CF	3/8"
FT2-12-08CF	1/2"
FT2-12-10CF	5/8"
FT2-12-12CF	3/4"
FT2-12-16CF	1"
FT2-12-20CF	1.1/4"
FT2-12-24CF	1.1/2"
FT2-12-32CF	2"



R7

0309	To Suit Hose I.D.
FR78-03	3/16"
FR78-04	1/4"
FR78-05	5/16"
FR78-06	3/8"
FR78-08	1/2"

BSP

- Hexavalent chromium free plating.



BSP Male Inserts

0309	To Suit Hose I.D.
BM0404CF	1/4"
BM0604CF	3/8"
BM0605CF	3/8"
BM0606CF	3/8"
BM0608CF	3/8"
BM0806CF	1/2"
BM0808CF	1/2"
BM1010CF	5/8"
BM1212CF	3/4"
BM1616CF	1"
BM2020CF	1.1/4"
BM2424CF	1.1/2"
BM3232CF	2"



BSP Female Swept 90° Inserts

0309	To Suit Hose I.D.
BF029004CF	1/8"
BF049004CF	1/4"
BF049005CF	1/4"
BF069004CF	3/8"
BF069005CF	3/8"
BF069006CF	3/8"
BF069008CF	3/8"
BF089006CF	1/2"
BF089008CF	1/2"
BF109008CF	3/4"
BF109010CF	5/8"
BF129008CF	3/4"
BF129012CF	3/4"
BF169016CF	1"
BF209020CF	1.1/4"
BF249024CF	1.1/2"
BF329032CF	2"



BSP Female 90° Compact Inserts

0309	To Suit Hose I.D.
BF0490C04CF	1/4"
BF0690C06CF	3/8"
BF0890C08CF	1/2"
BF1290C12CF	3/4"
BF1690C16CF	1"



BSP Swivel Female Inserts

0309	To Suit Hose I.D.
BF0203CF	1/8"
BF0206CF	1/8"
BF0404CF	1/4"
BF0405CF	1/4"
BF0604CF	3/8"
BF0605CF	3/8"
BF0606CF	3/8"
BF0608CF	3/8"
BF0806CF	1/2"
BF0808CF	1/2"
BF1008CF	5/8"
BF1010CF	5/8"
BF1208CF	3/4"
BF1210CF	3/4"
BF1212CF	3/4"
BF1616CF	1"
BF2020CF	1.1/4"
BF2424CF	1.1/2"
BF3232CF	2"



BSP Female 45° Compact Inserts

0309	To Suit Hose I.D.
BF044504CF	1/4"
BF044505CF	1/4"
BF064504CF	3/8"
BF064505CF	3/8"
BF064506CF	3/8"
BF064508CF	3/8"
BF084506CF	1/2"
BF084508CF	1/2"
BF104505CF	5/8"
BF104510CF	5/8"
BF124508CF	3/4"
BF124512CF	3/4"
BF164516CF	1"
BF204520CF	1.1/4"
BF244524CF	1.1/2"
BF324532CF	2"

Banjo's



BSP Banjo Bolts

0309	To Suit Hose I.D.
BB04CF	1/4"
BB06CF	3/8"
BB08CF	1/2"
BB12CF	3/4"
BB16CF	1"



BSP Banjo Inserts

0309	To Suit Hose I.D.
B0404CF	1/4"
B0606CF	3/8"
B0808CF	1/2"
B1212CF	3/4"
B1616CF	1"

JUBILEE® CLAMPS & HOSE CLIPS



Jubilee® Hose Clips

- Precision engineered for quality, Jubilee clips are Kitemark approved to BS 5315:1991 and manufactured under the BS EN ISO 9002 quality system accepted by the British Standards Institution.
- The mild steel range is zinc protected for corrosion resistance and the stainless steel range is all 304 (A2) material.



Tech Sheet 591

CONTACT US FOR ANY OTHER JUBILEE PRODUCTS

Mild Steel, Zinc Protected

6666	UK size No.	UK min mm	UK max mm
000-MS	000	9.5	12
MOO-MS	MOO	11	16
OO-MS	OO	13	20
O-MS	O	16	22
OX-MS	OX	18	25
1A-MS	1A	22	30
1-MS	1	25	35
1X-MS	1X	30	40
1M-MS	1M	32	45
2A-MS	2A	35	50
2-MS	2	40	55
2X-MS	2X	45	60
3-MS	3	55	70
3X-MS	3X	60	80
4-MS	4	70	90
4X-MS	4X	85	100
5-MS	5	90	120
6-MS	6	110	140
6X-MS	6X	120	150
7-MS	7	135	165
7 1/2-MS	7.1/2	158	190
8 1/2-MS	8.1/2	184	216
9 1/2-MS	9.1/2	210	242
10 1/2-MS	10.1/2	235	267
11 1/2-MS	11.1/2	260	292
12 1/2-MS	12.1/2	286	318

304 Stainless Steel

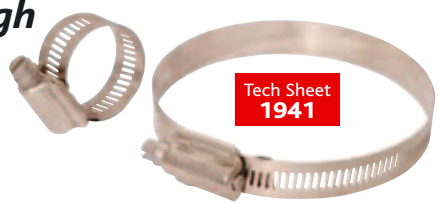
6666	UK size No.	UK min mm	UK max mm
000-SS	000	9.5	12
MOO-SS	MOO	11	16
OO-SS	OO	13	20
O-SS	O	16	22
OX-SS	OX	18	25
1A-SS	1A	22	30
1-SS	1	25	35
1X-SS	1X	30	40
1M-SS	1M	32	45
2A-SS	2A	35	50
2-SS	2	40	55
2X-SS	2X	45	60
3-SS	3	55	70
3X-SS	3X	60	80
4-SS	4	70	90
4X-SS	4X	85	100
5-SS	5	90	120
6-SS	6	110	140
6X-SS	6X	120	150
7-SS	7	135	165
7 1/2-SS	7.1/2	158	190
8 1/2-SS	8.1/2	184	216
9 1/2-SS	9.1/2	210	242
10 1/2-SS	10.1/2	235	267
11 1/2-SS	11.1/2	260	292
12 1/2-SS	12.1/2	286	318

Boxed Mild Steel, 10 Clips per Box

6666	UK size No.	UK min mm	UK max mm
000-MS-BOX	000	9.5	12
MOO-MS-BOX	MOO	11	16
OO-MS-BOX	OO	13	20
O-MS-BOX	O	16	22
OX-MS-BOX	OX	18	25
1A-MS-BOX	1A	22	30
1-MS-BOX	1	25	35
1X-MS-BOX	1X	30	40
1M-MS-BOX	1M	32	45
2A-MS-BOX	2A	35	50
2-MS-BOX	2	40	55
2X-MS-BOX	2X	45	60
3-MS-BOX	3	55	70

Jubilee® Stainless Steel High Torque Hose Clips

- Jubilee® High Torque clips for applications that require additional high levels of tightening torque; twice the tightening torque of standard worm drive clips. Recommended tightening torque 17 Nm (150 lb in).
- All stainless steel construction.



Tech Sheet 1941

6666	UK min mm	UK max mm
JHT35	20	35
JHT40	25	40
JHT45	25	45
JHT50	30	50
JHT70	40	70
JHT80	60	80
JHT95	70	95
JHT100	80	100
JHT120	90	120
JHT140	110	140
JHT160	130	160
JHT180	150	180
JHT200	170	200
JHT220	190	220

6666	UK min mm	UK max mm
JHT240	210	240
JHT260	230	260
JHT280	250	280
JHT300	270	300
JHT320	290	320
JHT340	310	340
JHT360	330	360
JHT380	350	380
JHT400	370	400
JHT420	390	420
JHT440	410	440
JHT480	450	480
JHT500	470	500

Please refer to pages 1094-1095 of our main 2013/14 Fluid Power Catalogue

FLUID POWER

High Pressure Washers



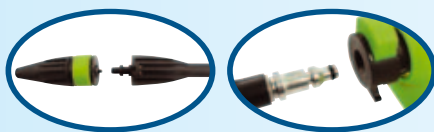
FLUID POWER

- 1500W
- Rated Pressure 70 bar
- Max Pressure 105 bar
- High pressure engineered plastic body, convenient store wire hanger rack
- High performance motor
- Long working life
- Auto-stop function, energy saving

- Stable wheel assembly
- Quick connectors between hose and gun, gun and machine, gun and different nozzles
- Easy assembly
- Wide range of accessories including turbo nozzle
- Advanced pump and motor design



Maximum Working Pressure: 70 bar



Innovative Quick Connectors between hose and gun, gun and machine



70 bar

0363			
------	--	--	--

BY01-HBE-70	70	6.5	1.5
-------------	----	-----	-----

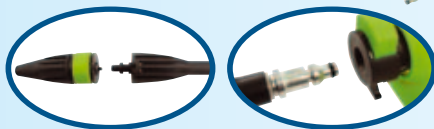
- 1900W
- Rated Pressure 90 bar
- Max Pressure 135 bar
- Portable upright style, one piece machine with handle
- High pressure engineered plastic body, convenient store wire hanger rack
- High performance motor
- Long working life
- Auto-stop function, energy saving
- Convenient storage for all accessories
- Stable wheel assembly
- Quick connectors between hose and gun, gun and machine, gun and different nozzles
- Easy assembly
- Wide range of accessories including turbo nozzle



Convenient storage for all accessories



Maximum Working Pressure: 90 bar



Innovative Quick Connectors between hose and gun, gun and machine

90 bar

0363			
------	--	--	--

BY01-VBS-90	90	7.0	1.9
-------------	----	-----	-----

- 2000W
- Rated Pressure 110 bar
- Max Pressure 165 bar
- Portable upright style, one piece machine with handle
- High pressure engineered plastic body, convenient store wire hanger rack
- High performance motor
- Long working life
- Auto-stop function, energy saving
- Convenient storage for all accessories
- Stable wheel assembly
- Quick connectors between hose and gun, gun and machine, gun and different nozzles
- Easy assembly
- Advanced pump and motor design
- Built-in chemical tank
- Turbo nozzle
- Variable fan nozzle
- Trigger safety lock



Maximum Working Pressure: 110 bar



110 bar

0363			
------	--	--	--

HP11860-110BAR	110	7.5	2
----------------	-----	-----	---

Please refer to pages 1172-1173 of our main 2013/14 Fluid Power Catalogue



CONAH

HOSE REELS

Plastic Air & Water Hose Reels

Mountable High Pressure Water & Air Steel Hose Reels

- Reinforced PVC hose.
- Tough Impact resistant polypropylene construction.
- 180° swivel.
- Self-layering hose guide for perfectly even hose rewinding.
- Speed-controlled return spring.
- Auto-locking mechanism allows easy use of hose at any length.
- Carry handle.
- Lightweight.



Maximum Working Pressure: 12.4 bar

9 Metre Hose Length

0800	L mtrs	(-ID-)	Inlet	Outlet
ZA02-9	9	5/16"	1/4" BSPT	1/4" BSPT



Maximum Working Pressure: Air: 17 bar

10 Metre Hose Length

0800	L mtrs	(-ID-)	Inlet	Outlet
ZA04-10B	10	3/8"	1/4" BSPT	1/4" BSPT



Maximum Working Pressure: Air: 15 bar

15 Metre Hose Length

0800	L mtrs	(-ID-)	Inlet	Outlet
ZA05-15	15	3/8"	1/4" BSPT	1/4" BSPT



Maximum Working Pressure: Air: 20 bar

20 Metre Hose Length

0800	L mtrs	(-ID-)	Inlet	Outlet
ZA05-20B	20	1/2"	1/2" BSPT	3/8" BSPT

FLUID POWER

Metal Air & Water Hose Reels

Mountable High Pressure Water & Air Steel Hose Reels

- Heavy ribbed steel plate to ensure strong support.
- Spring located in the middle to ensure stability.
- Four direction non snag rollers to reduce hose wear abrasion.
- Adjustable guide arm for multi positional mounting.
- Special swivel joint for easy maintenance and repair.
- Ball bearing swivel joint structure, largely reducing friction.

Maximum Working Pressure: 20 bar



Spring Rewind, 3/8"

0800				
SAHR-15-38	15m, 3/8" Rubber Air Hose, 3/8" BSPT Connections			
SAHR-15N-38	No Hose, Capacity 15m, 3/8" Rubber Hose			

Maximum Working Pressure: 20 bar

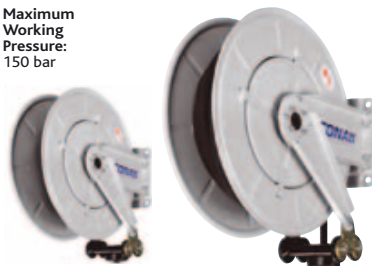


Spring Rewind, 1/2"

0800				
SAHR-15-12	15m, 1/2" Rubber Air Hose, 1/2" Connections			
SAHR-15N-12	No Hose, Capacity 15m 1/2" Rubber Hose			

- Compact for applications with critical space requirement.
- Heavy duty steel construction with corrosion resistant powder coating.
- Four direction non-sag rollers to reduce hose wear abrasion.
- Multi position ratchet lock and easy tension adjustment.
- Spring fully closed and lubricated.
- Full flow swivel
- Adjustable guide arm for multi positional mounting.

Maximum Working Pressure: 150 bar



Spring Rewind

0800				
SWHR-15-38	15m, 3/8" 1 Wire, 3/8" BSP Inlet - M22x1.5 outlet			
SWHR-15N-38	No Hose, Capacity 15m 3/8" 1 Wire			

Maximum Working Pressure: 270 bar



Manual Rewind

0800				
SWHR-30-38	30m, 3/8" 2 Wire, M22x1.5 Connections			
SWHR-30N-38	No Hose, Capacity 30m 3/8" 2 Wire			



EAGLE PRO®

High Force Hydraulic Tools & Solutions

- Innovative hydraulic technology
- Extensive product range
- Competitively priced
- Lifetime warranty*

*Excludes blades, hoses, electric motors & air pumps



FLUID
POWER

Single Acting, Low Height Cylinder with Fixing Holes

Tech Sheet
10062



Features

- Use in confined spaces.
- Complies with ASME B30.1. High strength steel for durability and increased safety.
- Mounting holes permit easy fixing.
- Heavy-duty piston return spring.
- High quality EAB-201 quick couplers.
- Grooved piston end requires no saddle.
- Environmentally friendly painting process provides a durable anti-corrosion finish.

Double Acting, High Tonnage Cylinder

Tech Sheet
10068



Features

- Complies with ASME B30.1.
- High strength steel for durability and increased safety.
- Double acting operation for fast piston retraction.
- Built-in safety valve prevents accidental over-pressurization.
- High quality EAB-201 quick couplers.
- Collar and piston threads for easy fixing.
- Environmentally friendly painting process provides a durable corrosion resistant finish.

Hydraulic Pump, Cylinder, Hose & Gauge

Tech Sheet
10072



Features

- Each set comes with a 6 foot hose, a high flow coupler, gauge, and gauge adaptor.
- Cylinders can be used in more applications.
- Monitor the system pressure is provided with the gauge.
- Low weight and high flow pumps provide more effective performance.

Electric Pumps

Tech Sheet
10077



Features

- Covers most applications in the industry.
- High flow rate reaches 20in³/min and 39in³/min.
- 10Ft 24V, remote control or solenoid control for operator safety.
- 0.75hp and 1.0 hp motor.
- Starts under full load.
- High strength frame with handle for maximum portability.

Bottle Jack, In-line Design

Tech Sheet
10088



Features

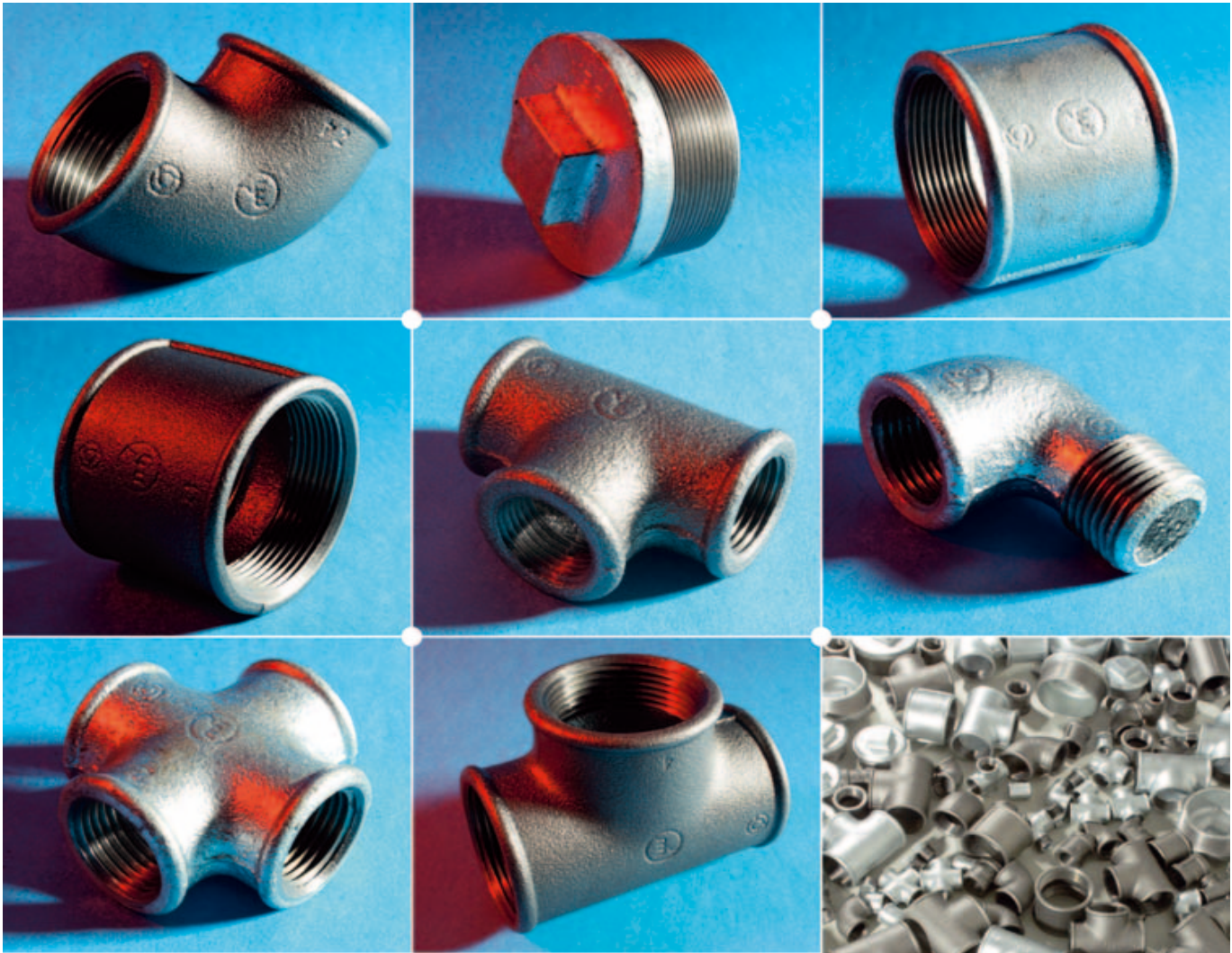
- Complies with ANSI/ASME PALD standards and CE/GS.
- Forged base and cylinder to ensure strength and eliminated leaks.
- Chromed pump piston and ram for added rust resistance.
- In-line design makes the jack more convenient to be positioned and operated.

Also Available from Eagle Pro

- High Pressure Hoses
- Pull Cylinders
- Tools
- Hydraulic Nut Splitters

Please refer to pages 246-259 of our main 2013/14 Fluid Power Catalogue





FLUID
POWER



MALLEABLE IRON FITTINGS

With huge stock holdings of FTM[®] Malleable Iron Pipe Fittings we are able to meet any of your requirements efficiently and on time.

The range is tried, tested and used extensively throughout the world's manufacturing facilities.

Applications:

- Construction
- Agriculture
- Mining
- Automotive
- Industrial

Please refer to pages 897-906 of our main 2013/14 Fluid Power Catalogue



METRIC HYDRAULIC TUBING

Hydraulic Tubing

Maximum working pressure has been determined according to DIN 2413 scope of application 1, for primarily static load at temperatures up to 120°C. **Please Note:** Due to new legislation governing the use of chromium plating the yellow zinc plated tube will be phased out of the manufacturers production and hence when stocks have been exhausted will be no longer available.

Its replacement will be the Chrome 6 free tube. Chrome 6 free tube will only become available as the yellow zinc plated stocks become exhausted in any particular size.

3 metre lengths may take up to 48 hours, 6 metre lengths may take up to 5 working days to be delivered, dependant on weight and delivery address location. Additional carriage charges may apply. For full details please contact us.

Minimum of 10 Lengths is advised upto 8mm to prevent damage in transit.



FLUID POWER

Bright - DIN 2391/C ST37.4, 3 Metre Lengths

0201	OD mm	mm	bar
HST4X1.0	4	1.0	624
HST6X1.0	6	1.0	365
HST6X1.5	6	1.5	624
HST6X2.0	6	2.0	989
HST8X2.0	8	2.0	624
HST12X2.5	12	2.5	485
HST14X1.5	14	1.5	217
HST14X2.0	14	2.0	303
HST16X2.5	16	2.5	337
HST18X2.0	18	2.0	226
HST18X2.5	18	2.5	300
HST20X2.5	20	2.5	259
HST20X3.0	20	3.0	321
HST20X3.5	20	3.5	388
HST22X1.5	22	1.5	132
HST22X2.0	22	2.0	181
HST25X1.5	25	1.5	115
HST25X2.0	25	2.0	157
HST25X2.5	25	2.5	201
HST25X3.0	25	3.0	257
HST28X1.5	28	1.5	102
HST28X2.5	28	2.5	177
HST28X3.0	28	3.0	217
HST30X2.5	30	2.5	164
HST30X4.0	30	4.0	279
HST35X2.0	35	2.0	109
HST35X2.5	35	2.5	139
HST35X3.0	35	3.0	169
HST35X5.0	35	5.0	303
HST38X3.0	38	3.0	155
HST42X3.0	42	3.0	139
HST42X4.0	42	4.0	190

Bright - DIN 2391/C ST37.4, 6 Metre Lengths

0201	OD mm	mm	bar
HST4X1.0-6M	4	1.0	624
HST6X1.0-6M	6	1.0	365
HST6X1.5-6M	6	1.5	624
HST6X2.0-6M	6	2.0	989
HST8X2.0-6M	8	2.0	624
HST12X2.5-6M	12	2.5	485
HST14X1.5-6M	14	1.5	217
HST14X2.0-6M	14	2.0	303
HST16X2.5-6M	16	2.5	337
HST18X2.0-6M	18	2.0	226
HST18X2.5-6M	18	2.5	300
HST20X2.5-6M	20	2.5	259
HST20X3.0-6M	20	3.0	321
HST20X3.5-6M	20	3.5	388
HST22X1.5-6M	22	1.5	132
HST22X2.0-6M	22	2.0	181
HST25X1.5-6M	25	1.5	115
HST25X2.0-6M	25	2.0	157
HST25X2.5-6M	25	2.5	201
HST25X3.0-6M	25	3.0	247
HST28X1.5-6M	28	1.5	102
HST28X2.5-6M	28	2.5	177
HST28X3.0-6M	28	3.0	217
HST30X2.5-6M	30	2.5	164
HST30X4.0-6M	30	4.0	279
HST35X2.0-6M	35	2.0	109
HST35X2.5-6M	35	2.5	139
HST35X3.0-6M	35	3	169
HST35X5.0-6M	35	5	303
HST38X3.0-6M	38	3.0	155
HST42X3.0-6M	42	3.0	139
HST42X4.0-6M	42	4	190

Chrome 6 Free, 3 Metre Lengths

0201	OD mm	mm	bar
HST4X1.0-C6F	4	1	624
HST6X1.0-C6F	6	1	365
HST6X1.5-C6F	6	1.5	624
HST6X2.0-C6F	6	2	989
HST8X1.0-C6F	8	1	259
HST8X1.5-C6F	8	1.5	423
HST8X2.0-C6F	8	2	624
HST10X1.0-C6F	10	1	201
HST10X1.5-C6F	10	1.5	321
HST10X2.0-C6F	10	2	460
HST12X1.0-C6F	12	1	164
HST12X1.5-C6F	12	1.5	259
HST12X2.0-C6F	12	2	365
HST14X1.5-C6F	14	1.5	217
HST14X2.0-C6F	14	2	303
HST15X1.5-C6F	15	1.5	201
HST15X2.0-C6F	15	2	279
HST16X1.5-C6F	16	1.5	187
HST16X2.0-C6F	16	2	259
HST16X2.5-C6F	16	2.5	337
HST16X3.0-C6F	16	3	423
HST18X1.5-C6F	18	1.5	164
HST18X2.0-C6F	18	2	226
HST18X2.5-C6F	18	2.5	300
HST20X2.0-C6F	20	2	201
HST20X2.5-C6F	20	2.5	259
HST20X3.0-C6F	20	3	321
HST20X3.5-C6F	20	3.5	388
HST20X4.0-C6F	20	4	460
HST22X1.5-C6F	22	1.5	132
HST22X2.0-C6F	22	2	181
HST22X2.5-C6F	22	2.5	232
HST25X1.5-C6F	25	1.5	115
HST25X2.0-C6F	25	2	157
HST25X2.5-C6F	25	2.5	201
HST25X3.0-C6F	25	3	247
HST25X4.0-C6F	25	4	347
HST28X1.5-C6F	28	1.5	102
HST28X2.0-C6F	28	2	139
HST28X2.5-C6F	28	2.5	177
HST28X3.0-C6F	28	3	217
HST30X2.5-C6F	30	2.5	164
HST30X3.0-C6F	30	3	201
HST30X4.0-C6F	30	4	279
HST35X2.0-C6F	35	2	109
HST35X2.5-C6F	35	2.5	139
HST35X3.0-C6F	35	3	169
HST35X5.0-C6F	35	5	303
HST38X3.0-C6F	38	3	155
HST38X4.0-C6F	38	4	213
HST42X3.0-C6F	42	3	139
HST42X4.0-C6F	42	4	190
HST50X3.0-C6F	50	3	115
HST50X5.0-C6F	50	5	201
HST50X6.0-C6F	50	6	247

The colour of the product may vary from that illustrated, due to new Health & Safety legislation controlling the use of chromium plating. The new plating will be silver rather than the traditional gold. Mixed stock may be supplied during the manufacturer's transitional period.

Contact us regarding tube manipulation

OPTIBELT WEDGE BELTS

optibelt RED POWER 3

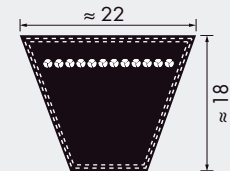
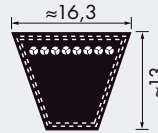
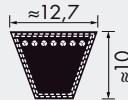


Maintenance Free
Up to 50% more power
Up to 97% efficient
Precision length tolerance
Available from
SPZ 1202 – SPC 10000

optibelt SK



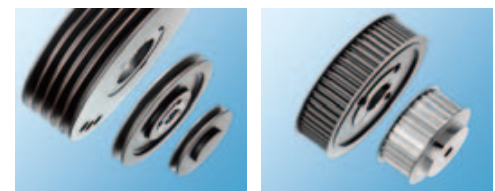
Premium quality as standard
Precise length tolerance
Up to 97% efficient



SPZ			SPA			SPB		SPC	
Min. Rec. Pulley Ø = 63 mm			Min. Rec. Pulley Ø = 90 mm			Min. Rec. Pulley Ø = 140 mm		Min. Rec. Pulley Ø = 224 mm	
487	1112	1837	732	1482	2360	1250	4250	2000	
512	1120	1850	757	1500	2382	1320	4300	2120	
562	1137	1862	782	1507	2432	1400	4500	2240	
587	1162	1887	800	1532	2482	1450	4560	2360	
612	1180	1900	807	1557	2500	1500	4750	2500	
630	1187	1937	832	1582	2532	1600	4820	2650	
637	1202	1987	850	1600	2582	1700	5000	2800	
662	1212	2000	857	1607	2607	1750	5070	3000	
670	1237	2037	882	1632	2632	1800	5300	3150	
687	1250	2120	900	1657	2650	1850	5600	3350	
710	1262	2137	907	1682	2682	1900	6000	3550	
722	1287	2150	932	1700	2732	2000	6300	3750	
737	1312	2187	950	1707	2782	2020	6700	4000	
750	1320	2240	957	1732	2800	2060	7100	4250	
762	1337	2287	982	1757	2832	2120	7500	4500	
772	1347	2360	1000	1782	2847	2150	8000	4750	
787	1362	2500	1007	1800	2882	2180		5000	
800	1387	2540	1032	1807	2932	2240		5300	
812	1400	2650	1060	1832	2982	2280		5600	
825	1412	2690	1082	1857	3000	2360		6000	
837	1437	2800	1107	1882	3032	2391		6300	
850	1462	2840	1120	1900	3082	2400		6700	
862	1487	3000	1132	1907	3150	2500		7100	
875	1500	3150	1157	1932	3182	2650		7500	
887	1512	3350	1180	1957	3282	2680		8000	
900	1537	3550	1207	1982	3350	2800		8500	
912	1562		1232	2000	3382	2840		9000	
925	1587		1250	2032	3550	2850		9500	
937	1600		1257	2057	3750	2900		10000	
950	1612		1272	2082	4000	3000		10600	
962	1637		1282	2120	4250	3150		11200	
987	1650		1307	2132	4500	3250		12500	
1000	1662		1320	2182		3350			
1012	1687		1332	2207		3450			
1024	1700		1357	2232		3550			
1037	1737		1382	2240		3650			
1047	1762		1400	2282		3750			
1060	1787		1407	2300		3800			
1077	1800		1432	2307		4000			
1087	1812		1457	2332		4050			

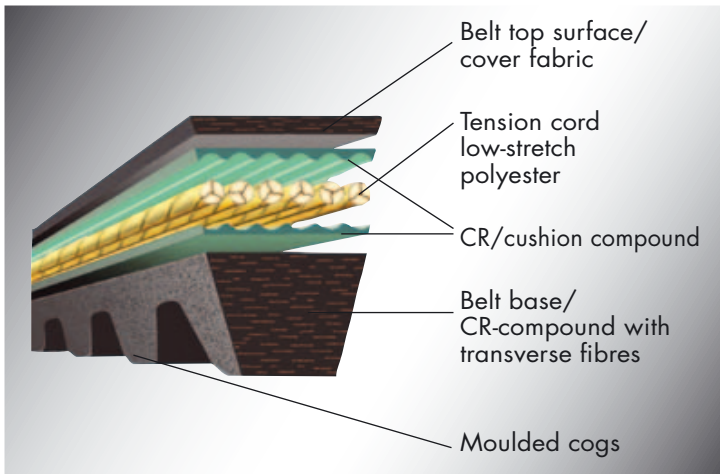
Intermediate and longer lengths available
Also available in American standard 3V/5V/8V

Optibelt pulleys available to suit



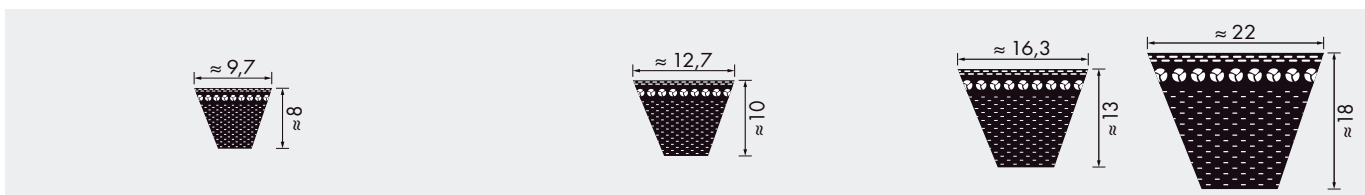
OPTIBELT RAW EDGE COGGED BELTS

optibelt SUPER X-POWER M=S



Ideal for very high power drives
 Cogging allows very small pulley diameters
 Individually ground flanks for precise length tolerance and smooth running.
 Very low stretch / low maintenance
 High temperature to 90°
 Specify SUPER E-POWER for extreme temperatures (-50°C to +120°C)

BELT DRIVES



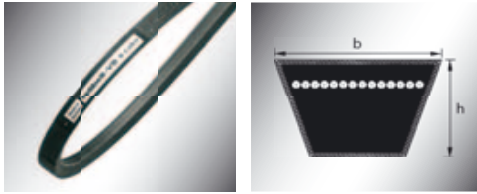
XPZ			XPA			XPB	XPC
Min. Rec. Pulley Ø = 56 mm			Min. Rec. Pulley Ø = 71 mm			Min. Rec. Pulley Ø = 112 mm	Min. Rec. Pulley Ø = 180 mm
587	1012	1562	707	1272	1882	1250	2000
612	1037	1587	732	1282	1900	1320	2120
630	1060	1600	757	1307	1932	1400	2240
637	1077	1612	782	1320	1950	1500	2360
662	1087	1662	800	1332	1982	1600	2500
670	1112	1700	807	1357	2000	1700	2650
687	1120	1750	832	1382	2120	1750	2800
710	1137	1762	850	1400	2240	1800	3000
730	1162	1800	857	1432	2360	1850	3150
737	1180	1850	882	1450	2500	1900	3350
750	1187	1900	900	1457	2650	2000	3550
762	1202	1950	907	1482	2800	2020	
772	1212	2000	932	1500	3000	2120	
787	1237	2120	950	1507	3150	2150	
800	1250	2150	957	1532	3350	2240	
812	1262	2240	982	1557	3550	2280	
825	1287	2360	1000	1582		2360	
837	1312	2500	1007	1600		2400	
850	1320	2540	1030	1607		2500	
862	1337	2650	1060	1632		2650	
875	1362	2690	1082	1650		2680	
887	1387	2800	1107	1682		2800	
900	1400	2840	1120	1700		2840	
912	1412	3000	1132	1732		3000	
925	1437	3150	1157	1750		3150	
937	1462	3350	1180	1757		3350	
950	1487	3550	1207	1782		3550	
962	1500		1232	1800			
987	1512		1250	1832			
1000	1537		1257	1850			

Also available in American standard 3VX, 5VX
 optibelt SUPER TX Classical profiles available ZX, AX, BX, CX



OPTIBELT CLASSICAL V-BELTS

optibelt VB



Profile	Z	A	B	C
b [mm]	10	13	17	22
h [mm]	6	8	11	14

Premium quality as standard for reliability and long life.

Precision length tolerance means no matching required – *within indicated S=CPlus range.

Z/10									A/13								
Min. Rec. Pulley Ø = 50 mm									Min. Rec. Pulley Ø = 71 mm								
Belt No.	Datum length L _d	Inside length L _i	Belt No.	Datum length L _d	Inside length L _i	Belt No.	Datum length L _d	Inside length L _i	Belt No.	Datum length L _d	Inside length L _i	Belt No.	Datum length L _d	Inside length L _i	Belt No.	Datum length L _d	Inside length L _i
Z 11	312	290	Z 38½	997	975	Z 68	1747	1725	A 16	437	407	A 46½	1210	1180	A 87	2240	2210
Z 12½	337	315	Z 39	1022	1000	Z 69	1772	1750	A 18	487	457	A 47	1230	1200	A 88	2270	2240
Z 14	397	375	Z 40	1038	1016	Z 70	1797	1775	A 19	510	480	A 47½	1245	1215	A 89	2291	2261
Z 15	422	400	Z 40½	1052	1030	Z 71	1822	1800	A 20	538	508	A 48	1250	1220	A 90	2316	2286
Z 16	447	425	Z 41	1063	1041	Z 73	1872	1850	A 21	565	535	A 48½	1255	1225	A 91	2341	2311
Z 17	472	450	Z 41½	1072	1050	Z 75	1922	1900	A 22	590	560	A 49	1280	1250	A 92	2367	2337
Z 18	497	475	Z 42	1082	1060	Z 78	1997	1975	A 23	605	575	A 50	1300	1270	A 93	2390	2360
Z 19	502	480	Z 43	1102	1080	Z 79	2022	2000	A 23½	630	600	A 51	1330	1300	A 94	2418	2388
Z 19¾	522	500	Z 43¼	1122	1100	Z 83½	2142	2120	A 24	640	610	A 52	1350	1320	A 95	2443	2413
Z 20	537	515	Z 44	1142	1120	Z 88	2262	2240	A 25	660	630	A 53	1380	1350	A 96	2468	2438
Z 20½	547	525	Z 45	1172	1150	Z 93	2382	2360	A 26	680	650	A 54	1405	1375	A 97	2494	2464
Z 21	552	530	Z 46	1187	1165	Z 98	2522	2500	A 26½	700	670	A 55	1430	1400	A 98	2530	2500
Z 21¼	562	540	Z 46½	1202	1180				A 27	716	686	A 56	1452	1422	A 100	2570	2540
Z 22	582	560	Z 47	1216	1194				A 27½	730	700	A 57	1480	1450	A 102	2621	2591
Z 23	597	575	Z 48	1237	1215				A 28	740	710	A 58	1505	1475	A 104	2680	2650
Z 24	622	600	Z 48½	1247	1225				A 29	760	730	A 59	1530	1500	A 105	2697	2667
Z 25	652	630	Z 49	1272	1250				A 29½	780	750	A 60	1555	1525	A 107	2755	2725
Z 26	672	650	Z 50	1292	1270				A 30	797	767	A 61	1580	1550	A 108	2773	2743
Z 27	692	670	Z 51	1317	1295				A 31	805	775	A 62	1605	1575	A 110	2830	2800
Z 27½	722	700	Z 52	1342	1320				A 31½	830	800	A 63	1630	1600	A 112	2875	2845
Z 28	732	710	Z 53	1368	1346				A 32	843	813	A 64	1655	1625	A 114	2926	2896
Z 28½	747	725	Z 54	1393	1371				A 32½	855	825	A 65	1680	1650	A 116	2976	2946
Z 29	752	730	Z 55	1422	1400				A 33	871	841	A 66	1706	1676	A 118	3030	3000
Z 29½	772	750	Z 56	1444	1422				A 34	880	850	A 67	1730	1700	A 120	3078	3048
Z 30	787	765	Z 57	1472	1450				A 34½	905	875	A 68	1755	1725	A 124	3180	3150
Z 31	797	775	Z 58	1497	1475				A 35	919	889	A 69	1780	1750	A 128	3280	3250
Z 31½	822	800	Z 59	1522	1500				A 35½	930	900	A 70	1805	1775	A 132	3380	3350
Z 32	842	820	Z 60	1546	1524				A 36	944	914	A 71	1830	1800	A 136	3484	3454
Z 33	847	825	Z 61	1572	1550				A 37	955	925	A 72	1855	1825	A 140	3580	3550
Z 33½	872	850	Z 62	1597	1575				A 37½	980	950	A 73	1884	1854	A 144	3688	3658
Z 34	887	865	Z 63	1622	1600				A 38	995	965	A 74	1910	1880	A 148	3780	3750
Z 35	897	875	Z 64	1648	1626				A 38½	1005	975	A 75	1930	1900	A 158	4030	4000
Z 36	922	900	Z 65	1673	1651				A 39	1030	1000	A 76	1960	1930	A 167	4280	4250
Z 37	947	925	Z 66	1697	1675				A 40	1046	1016	A 77	1986	1956	A 187	4780	4750
Z 38	972	950	Z 67	1722	1700				A 40½	1060	1030	A 78	2010	1980	A 197	5030	5000
									A 41	1071	1041	A 79	2030	2000			
									A 41½	1080	1050	A 80	2062	2032			
									A 42	1090	1060	A 81	2090	2060			
									A 42½	1105	1075	A 82	2113	2083			
									A 43	1130	1100	A 83	2130	2100			
									A 43½	1135	1105	A 83½	2150	2120			
									A 44	1150	1120	A 84	2164	2134			
									A 45	1173	1143	A 84½	2180	2150			
									A 45½	1180	1150	A 85	2190	2160			
									A 46	1198	1168	A 86½	2230	2200			

BELT DRIVES

Also available in sections 5/6/8/20/25/D/E – see OPTIBELT catalogue for details



OPTIBELT CLASSICAL V-BELTS

optibelt VB

B/17									C/22								
Min. Rec. Pulley Ø = 50 mm									Min. Rec. Pulley Ø = 71 mm								
Belt No.	Datum length L _d	Inside length L _i	Belt No.	Datum length L _d	Inside length L _i	Belt No.	Datum length L _d	Inside length L _i	Belt No.	Datum length L _d	Inside length L _i	Belt No.	Datum length L _d	Inside length L _i	Belt No.	Datum length L _d	Inside length L _i
B 23	610	570	B 60	1565	1525	B 107	2758	2718	C 43	1148	1090	C 98	2558	2500	C 240	6154	6096
B 24	655	615	B 61	1590	1550	B 108	2790	2750	C 47	1258	1200	C 99	2583	2525	C 248	6358	6300
B 25	670	630	B 62	1615	1575	B 110	2840	2800	C 48	1273	1215	C 100	2598	2540	C 264	6758	6700
B 26	690	650	B 63	1640	1600	B 112	2885	2845	C 49	1308	1250	C 101	2618	2560	C 270	6916	6858
B 26½	710	670	B 64	1665	1625	B 114	2940	2900	C 51	1353	1295	C 102	2649	2591	C 280	7158	7100
B 27	726	686	B 65	1690	1650	B 115	2961	2921	C 52	1378	1320	C 104	2700	2642	C 295	7558	7500
B 28	750	710	B 66	1716	1676	B 116	2990	2950	C 53	1408	1350	C 105	2725	2667	C 300	7678	7620
B 29	765	725	B 67	1740	1700	B 118	3040	3000	C 54	1433	1375	C 106	2750	2692	C 315	8058	8000
B 30	790	750	B 68	1765	1725	B 120	3088	3048	C 55	1458	1400	C 108	2808	2750			
B 31	815	775	B 69	1790	1750	B 122	3139	3099	C 56	1483	1425	C 110	2858	2800			
B 32	840	800	B 69½	1801	1761	B 124	3190	3150	C 57	1508	1450	C 112	2903	2845			
B 32½	865	825	B 70	1815	1775	B 126	3240	3200	C 58	1533	1475	C 114	2954	2896			
B 33	876	836	B 71	1840	1800	B 128	3290	3250	C 59	1558	1500	C 115	2979	2921			
B 34	890	850	B 72	1869	1829	B 130	3342	3302	C 60	1582	1524	C 116	3008	2950			
B 34½	915	875	B 73	1890	1850	B 132	3390	3350	C 61	1608	1550	C 117	3023	2965			
B 35	929	889	B 74	1920	1880	B 134	3444	3404	C 62	1632	1574	C 118	3058	3000			
B 36	940	900	B 75	1940	1900	B 136	3490	3450	C 63	1658	1600	C 120	3106	3048			
B 37	965	925	B 76	1970	1930	B 138	3545	3505	C 65	1708	1650	C 122	3157	3099			
B 37½	990	950	B 77	1990	1950	B 140	3590	3550	C 66	1734	1676	C 124	3208	3150			
B 38	1005	965	B 78	2021	1981	B 142	3640	3600	C 67	1758	1700	C 126	3258	3200			
B 38½	1015	975	B 79	2040	2000	B 144	3698	3658	C 68	1785	1727	C 128	3308	3250			
B 39	1040	1000	B 80	2072	2032	B 146	3740	3700	C 69	1808	1750	C 130	3360	3302			
B 40	1056	1016	B 81	2100	2060	B 148	3790	3750	C 70	1836	1778	C 132	3408	3350			
B 40½	1070	1030	B 82	2123	2083	B 150	3850	3810	C 71	1858	1800	C 134	3462	3404			
B 41	1080	1040	B 83	2140	2100	B 151	3890	3850	C 72	1887	1829	C 136	3508	3450			
B 41½	1090	1050	B 83½	2160	2120	B 152	3901	3861	C 73	1912	1854	C 138	3563	3505			
B 42	1100	1060	B 84	2174	2134	B 154	3952	3912	C 74	1938	1880	C 140	3608	3550			
B 42½	1115	1075	B 85	2200	2160	B 155	3990	3950	C 75	1958	1900	C 142	3665	3607			
B 43	1130	1090	B 86	2240	2200	B 156	4002	3962	C 76	1988	1930	C 144	3716	3658			
B 43½	1140	1100	B 87	2250	2210	B 158	4040	4000	C 77	2014	1956	C 146	3758	3700			
B 44	1160	1120	B 88	2280	2240	B 160	4104	4064	C 78	2039	1981	C 148	3808	3750			
B 45	1190	1150	B 89	2301	2261	B 162	4155	4115	C 79	2058	2000	C 150	3868	3810			
B 45½	1203	1163	B 90	2326	2286	B 165	4240	4200	C 80	2090	2032	C 158	4058	4000			
B 46	1215	1175	B 91	2340	2300	B 167	4290	4250	C 81	2118	2060	C 162	4158	4100			
B 46½	1220	1180	B 92	2377	2337	B 173	4434	4394	C 82	2141	2083	C 166	4274	4216			
B 47	1240	1200	B 93	2400	2360	B 175	4490	4450	C 83	2166	2108	C 167	4308	4250			
B 48	1255	1215	B 94	2428	2388	B 177	4540	4500	C 83½	2178	2120	C 168	4325	4267			
B 48½	1265	1225	B 94½	2440	2400	B 180	4612	4572	C 84	2192	2134	C 170	4376	4318			
B 49	1290	1250	B 95	2453	2413	B 187	4790	4750	C 85	2217	2159	C 173	4452	4394			
B 50	1315	1275	B 96	2478	2438	B 195	4993	4953	C 86	2242	2184	C 175	4503	4445			
B 51	1340	1300	B 96½	2490	2450	B 197	5040	5000	C 87	2268	2210	C 177	4558	4500			
B 52	1360	1320	B 97	2505	2465	B 208	5340	5300	C 88	2298	2240	C 180	4630	4572			
B 52½	1375	1335	B 98	2540	2500	B 210	5374	5334	C 89	2319	2261	C 187	4808	4750			
B 53	1390	1350	B 99	2555	2515	B 220	5640	5600	C 90	2344	2286	C 190	4884	4826			
B 53½	1400	1360	B 100	2580	2540	B 236	6040	6000	C 92	2395	2337	C 195	5011	4953			
B 54	1412	1372	B 101	2605	2565	B 240	6136	6096	C 93	2418	2360	C 197	5058	5000			
B 55	1440	1400	B 102	2640	2600	B 248	6340	6300	C 94	2446	2388	C 208	5358	5300			
B 56	1462	1422	B 103	2656	2616	B 264	6740	6700	C 95	2471	2413	C 210	5392	5334			
B 57	1490	1450	B 104	2690	2650	B 276	7040	7000	C 96	2496	2438	C 220	5658	5600			
B 58	1513	1473	B 105	2707	2667	B 280	7140	7100	C 96½	2508	2450	C 225	5773	5715			
B 59	1540	1500	B 106	2740	2700				C 97	2522	2464	C 236	6058	6000			

BELT DRIVES

OPTIBELT KRAFTBAND

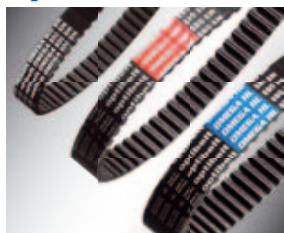


Optibelt Kraftbands are precisely manufactured as complete units rather than by fabricating from loose belts making them highly flexible and resistant to delamination. Kraftbands are particularly well suited to drives with very long centre distances, high shock loading or vibration or where the shafts are vertically orientated.

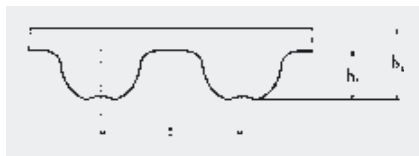
Available in most of the aforementioned constructions and sizes including:
 RedPower 3 [SPB, SPC, 3V, 5V, 8V]
 Standard wrapped Wedge [SPZ, SPA, SPB, SPC, 3V, 5V, 8V], Classical V [A,B,C,D,]
 Raw Edge Cogged [3VX, 5VX]

OPTIBELT TIMING BELTS

optibelt OMEGA / optibelt OMEGA HP



Exceptional reliability and consistency
 Runs perfectly in both standard HTD® & RPP® Pulleys
 Unique low noise tooth profile
 Up to 98% efficient
OMEGA HP – High Performance, allows up to 2.5X power on standard pulleys
 Also available in selected sizes 8M & 14M
 OMEGA HL – for high shock load applications
 OMEGA FanPower – Ultra high performance for fan drives in the petro/Chem industry



Section	2M	3M	5M	8M	14M
Tooth height h_t [mm]	0.70	1.10	1.90	3.20	5.60
Total belt thickness h_s [mm]	1.30	2.30	3.40	5.40	9.50
Tooth pitch t [mm]	2.00	3.00	5.00	8.00	14.00

3M				5M			
Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth
111	37	384	128	180	36	700	140
129	43	390	130	225	45	710	142
141	47	420	140	255	51	720	144
144	48	426	142	265	53	740	148
150	50	435	145	270	54	750	150
159	53	447	149	280	56	755	151
165	55	462	154	295	59	775	155
168	56	474	158	300	60	790	158
171	57	480	160	305	61	800	160
174	58	486	162	325	65	825	165
177	59	495	165	330	66	830	166
180	60	501	167	340	68	835	167
183	61	513	171	350	70	850	170
186	62	519	173	360	72	860	172
192	64	522	174	365	73	890	178
195	65	525	175	370	74	900	180
201	67	531	177	375	75	925	185
204	68	537	179	385	77	935	187
207	69	558	186	400	80	940	188
210	70	564	188	415	83	950	190
213	71	570	190	420	84	965	193
225	75	582	194	425	85	975	195
240	80	597	199	450	90	980	196
246	82	600	200	460	92	1000	200
249	83	606	202	475	95	1025	205
252	84	615	205	490	98	1035	207
255	85	633	211	500	100	1050	210
267	89	669	223	520	104	1100	220
276	92	675	225	525	105	1125	225
282	94	711	237	535	107	1135	227
285	95	738	246	540	108	1200	240
288	96	804	268	550	110	1270	254
291	97	816	272	560	112	1380	276
294	98	843	281	565	113	1400	280
300	100	882	294	575	115	1420	284
312	104	888	296	580	116	1425	285
315	105	1062	354	600	120	1500	300
318	106	1569	523	610	122	1595	319
330	110	1692	564	615	123	1690	338
333	111			630	126	1790	358
339	113			635	127	1870	374
345	115			640	128	1895	379
357	119			645	129	2000	400
363	121			650	130	2110	422
366	122			665	133	2350	470
				670	134	2525	505

BELT DRIVES

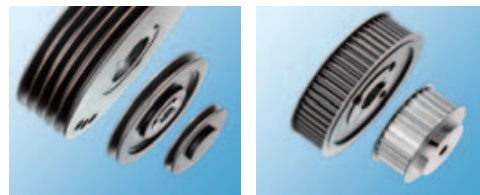
OPTIBELT TIMING BELTS

optibelt OMEGA / optibelt OMEGA HP

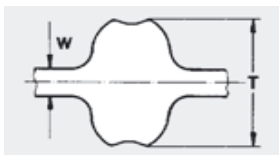
8M				14M			
Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth
288	36	1224	153	966	69	2800	200
352	44	1248	156	1092	78	3150	225
376	47	1256	157	1190	85	3360	240
416	52	1264	158	1344	96	3500	250
424	53	1280	160	1400	100	3850	275
480	60	1304	163	1456	104	4326	309
512	64	1328	166	1512	108	4578	327
520	65	1344	168	1610	115		
560	70	1360	170	1680	120		
576	72	1400	175	1778	127		
600	75	1424	178	1890	135		
608	76	1440	180	2100	150		
624	78	1520	190	2310	165		
632	79	1552	194	2450	175		
640	80	1584	198	2590	185		
656	82	1600	200				
680	85	1680	210				
712	89	1696	212				
720	90	1728	216				
760	95	1760	220				
776	97	1800	225				
784	98	1904	238				
800	100	1936	242				
824	103	2000	250				
840	105	2080	260				
848	106	2104	263				
856	107	2240	280				
880	110	2248	281				
896	112	2272	284				
912	114	2400	300				
920	115	2504	313				
960	120	2600	325				
976	122	2800	350				
1000	125	3280	410				
1040	130						
1056	132						
1064	133						
1080	135						
1096	137						
1120	140						
1128	141						
1160	145						
1184	148						
1200	150						
1216	152						

BELT DRIVES

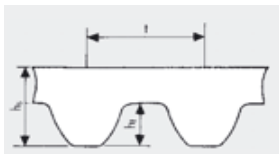
Optibelt pulleys also available to suit



Other Profiles



Double Sided in pitches
D5M, D8M, D14M, DS8M



STD® Profile in pitches
S3M, S5M, S8M, S14M
Also in High Power
OMEGA HP
(S5MHP, S8MHP)

Open ended lengths



Supplied in 30m rolls or cut to length.

Available in sizes:

3M in Widths 6, 9, 15, 20 mm

5M in Widths 6, 9, 10, 15, 20, 25,

30 mm

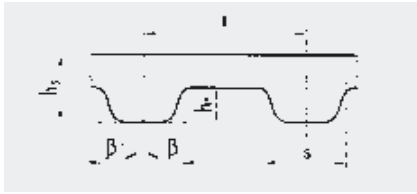
8M in Widths 10, 15, 20, 25, 30 mm

High Power OmegaHP version available on request



OPTIBELT CLASSICAL TIMING BELTS

optibelt ZR



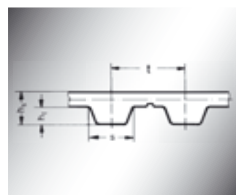
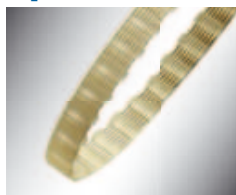
Section	MXL	XL	L	H	XH	XXH
Total belt thickness h_s [mm]	1.14	2.30	3.60	4.30	11.20	15.70
Tooth pitch t [mm]	2.032	5.08	9.525	12.70	22.225	31.75
Tooth height h_t [mm]	0.51	1.27	1.91	2.29	6.35	9.53

MXL				XL			
Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth
67,06	33	274,32	135	152,40	30	584,20	115
91,44	45	282,45	139	177,80	35	609,60	120
109,73	54	284,48	140	203,20	40	619,76	122
111,76	55	288,54	142	218,44	43	629,92	124
113,79	56	298,70	147	223,52	44	635,00	125
115,82	57	300,74	148	228,60	45	660,40	130
117,86	58	304,80	150	233,68	46	685,80	135
121,92	60	310,90	153	238,76	47	690,88	136
123,95	61	323,09	159	243,84	48	695,96	137
136,14	67	325,12	160	248,92	49	711,20	140
138,18	68	335,28	165	254,00	50	726,44	143
142,24	70	345,44	170	259,08	51	736,60	145
144,27	71	355,60	175	269,24	53	751,84	148
146,30	72	365,76	180	274,32	54	762,00	150
152,40	75	373,89	184	279,40	55	777,24	153
154,43	76	386,08	190	284,48	56	787,40	155
160,53	79	396,24	195	294,64	58	802,64	158
162,56	80	406,40	200	299,72	59	812,80	160
166,62	82	449,07	221	304,80	60	817,88	161
168,66	83	457,20	225	314,96	62	838,20	165
170,69	84	479,55	236	320,04	63	863,60	170
172,72	85	503,94	248	325,12	64	873,76	172
178,82	88	505,97	249	330,20	65	889,00	175
182,88	90	510,03	251	340,36	67	914,40	180
184,91	91	520,19	256	345,44	68	965,20	190
186,94	92	544,58	268	350,52	69	970,28	191
191,01	94	568,96	280	355,60	70	985,52	194
193,04	95	605,54	298	360,68	71	990,60	195
197,10	97	629,92	310	375,92	74	995,68	196
203,20	100	640,08	315	381,00	75	1046,48	206
205,23	101	680,72	335	396,24	78	1051,56	207
207,26	102	705,10	347	406,40	80	1097,28	216
209,30	103	731,52	360	411,48	81	1102,36	217
213,36	105	741,68	365	421,64	83	1112,52	219
215,39	106	812,80	400	426,72	84	1168,40	230
217,42	107	881,89	434	431,80	85	1264,92	249
219,46	108	920,50	453	441,96	87	1285,24	253
223,52	110	940,82	463	447,04	88	1305,56	257
227,58	112	1011,94	498	452,12	89	1473,20	290
229,62	113	1026,16	505	457,20	90	1600,20	315
231,65	114			462,28	91		
233,68	115			467,36	92		
243,84	120			477,52	94		
247,90	122			482,60	95		
249,94	123			487,68	96		
254,00	125			492,76	97		
256,03	126			497,84	98		
264,16	130			508,00	100		
268,22	132			533,40	105		
272,29	134			558,80	110		

BELT DRIVES

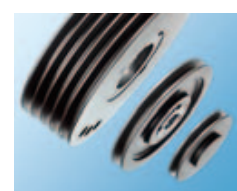
OPTIBELT POLYURETHANE TIMING BELTS

optibelt ALPHA



	t [mm]	h ₁ [mm]	h _s [mm]	s [mm]
T2,5	2,5	0,70	1,30	1,50
T5	5,0	1,20	2,20	2,65
T10	10,0	2,50	4,50	5,30

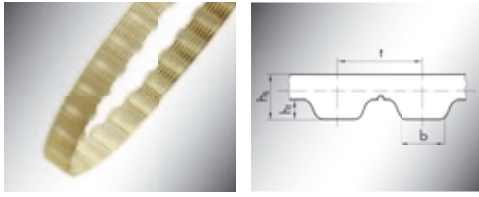
T2.5		T5				T10			
Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth
120	48	165	33	690	138	260	26	1460	146
145	58	185	37	700	140	320	32	1500	150
160	64	200	40	720	144	350	35	1560	156
177,5	71	215	43	725	145	370	37	1600	160
180	72	220	44	750	150	400	40	1610	161
200	80	225	45	780	156	410	41	1700	170
210	84	245	49	800	160	440	44	1750	175
230	92	250	50	815	163	450	45	1780	178
245	98	255	51	840	168	500	50	1800	180
265	106	260	52	850	170	530	53	1880	188
277,5	111	270	54	860	172	550	55	1960	196
285	114	275	55	900	180	560	56	2250	225
290	116	280	56	940	188	600	60		
305	122	295	59	990	198	610	61		
317,5	127	300	60	1000	200	630	63		
330	132	305	61	1075	215	650	65		
342,5	137	320	64	1100	220	660	66		
380	152	325	65	1115	223	690	69		
420	168	330	66	1140	228	700	70		
480	192	340	68	1215	243	720	72		
500	200	350	70	1315	263	750	75		
540	216	355	71	1350	270	780	78		
600	240	360	72	1380	276	800	80		
620	248	365	73	1440	288	810	81		
650	260	375	75			840	84		
780	312	390	78			850	85		
915	366	400	80			880	88		
950	380	410	82			890	89		
		420	84			900	90		
		425	85			910	91		
		430	86			920	92		
		440	88			950	95		
		445	89			960	96		
		450	90			970	97		
		455	91			980	98		
		460	92			1000	100		
		475	95			1010	101		
		480	96			1050	105		
		500	100			1080	108		
		510	102			1100	110		
		525	105			1110	111		
		545	109			1140	114		
		550	110			1150	115		
		560	112			1200	120		
		575	115			1210	121		
		590	118			1240	124		
		600	120			1250	125		
		610	122			1300	130		
		620	124			1320	132		
		625	125			1350	135		
		630	126			1390	139		
		640	128			1400	140		
		650	130			1420	142		
		660	132			1440	144		
		675	135			1450	145		



BELT DRIVES

OPTIBELT POLYURETHANE TIMING BELTS

optibelt ALPHA



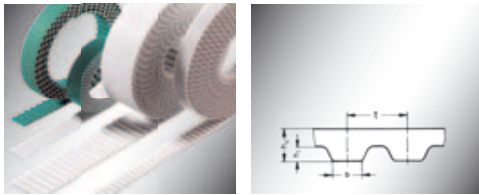
	t [mm]	h ₁ [mm]	h _s [mm]	b [mm]
AT5	5,0	1,20	2,70	2,50
AT10	10,0	2,50	5,00	5,00

AT5				AT10			
Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth	Pitch Length (mm)	No. Teeth
225	45	860	172	500	50	1150	115
255	51	975	195	530	53	1200	120
280	56	1050	210	560	56	1210	121
300	60	1125	225	600	60	1250	125
340	68	1500	300	610	61	1280	128
375	75			660	66	1300	130
390	78			700	70	1320	132
420	84			730	73	1350	135
450	90			780	78	1360	136
455	91			800	80	1400	140
500	100			840	84	1420	142
545	109			890	89	1480	148
600	120			920	92	1500	150
610	122			960	96	1600	160
660	132			980	98	1700	170
710	142			1000	100	1720	172
720	144			1010	101	1800	180
750	150			1050	105	1860	186
780	156			1080	108	1940	194
825	165			1100	110		

Other Profiles: Double Sided DT2.5, DT5, DT10 Classical MXL, XL, L

optibelt ALPHA LINEAR & V (JOINED)

Polyurethane Timing Belts supplied open ended or joined to any length (multiple of pitch). Available with steel reinforcing cords as standard or Aramid cords for rust free applications.



Profile	Standard Widths	Profile	Standard Widths
T5*	6, 8, 10, 12, 16, 20, 25, 32, 50	XL	6,35; 7,94; 9,53; 12,70; 19,05; 25,40
T10*	10, 12, 16, 20, 25, 32, 40, 50, 75, 100	L	9,53; 12,70; 19,05; 25,40; 38,10; 50,80
T20	25, 32, 40, 50, 75, 100	H	12,70; 19,05; 25,40; 38,10; 50,80; 76,20; 101,60
AT5*	6, 8, 10, 16, 25, 32, 50, 75, 100	XH	25,40; 50,80; 76,20; 101,60
AT10*	16, 25, 32, 50, 75, 100, 150	5M	10,00; 15,00; 20,00; 25,00; 50,00
AT20	25, 32, 50, 75, 100, 150	8M	20,00; 25,00; 30,00; 50,00; 85,00; 100,00
*Available with tracking guides K6/K13		14M	25,00; 40,00; 55,00; 85,00; 100,00; 150,00

optibelt ALPHAFLEX Truly Endless PU Timing Belts.



lengths from 1500 mm to 12,000 mm in increments of tooth pitch. Reinforced with steel cords for heavy duty conveying and motion control applications. Available in Profiles : T5, T10, T20, AT5, AT10, AT20, 5M, 8M, 14M

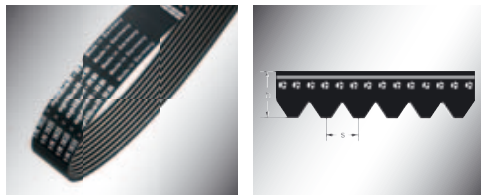
optibelt ALPHA SPECIAL Adapted timing belts



optibelt ALPHA LINEAR, V & FLEX belts can be supplied with a wide variety of backings, attachments and machines profiles to suit a variety of conveying and handling operations.

OPTIBELT RIBBED BELTS

optibelt RB



Profile	PH	PJ	PK	PL	PM
s [mm]	1,60	2,34	3,56	4,70	9,40
h [mm]	2,50	3,50	4,60	7,00	13,00

PH		PJ				PK				PL				PM	
Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)	Effective Length (mm)
698	27,50	280	11,00	1301	51,20	630	24,80	1570	61,80	954	37,50	4051	159,50	2286	90,00
735	28,90	330	13,00	1309	51,50	648	25,50	1600	63,00	991	39,00	4191	165,00	2388	94,00
762	30,00	356	14,00	1316	51,80	698	27,50	1655	65,20	1075	42,30	4470	176,00	2515	99,00
813	32,00	362	14,30	1321	52,00	730	28,70	1690	66,50	1194	47,00	4622	182,00	2693	106,00
858	33,80	381	15,00	1333	52,50	775	30,50	1755	69,10	1270	50,00	5029	198,00	2832	111,50
864	34,00	406	16,00	1355	53,40	800	31,50	1854	73,00	1333	52,50	5385	212,00	2921	115,00
886	34,90	414	16,30	1371	54,00	812	32,00	1885	74,20	1371	54,00	6096	240,00	3010	118,50
955	37,60	432	17,00	1397	55,00	830	32,70	1930	76,00	1397	55,00			3124	123,00
965	38,00	457	18,00	1428	56,20	865	34,00	1956	77,00	1422	56,00			3327	131,00
975	38,40	483	19,00	1439	56,70	875	34,50	1980	78,00	1562	61,50			3531	139,00
990	39,00	508	20,00	1475	58,10	890	35,00	2030	79,90	1613	63,50			3734	147,00
1016	40,00	559	22,00	1549	61,00	913	36,00	2050	80,70	1664	65,50			4089	161,00
1080	42,50	584	23,00	1600	63,00	920	36,20	2080	82,00	1715	67,50			4191	165,00
1092	43,00	610	24,00	1651	65,00	940	37,00	2120	83,50	1764	69,50			4470	176,00
1096	43,10	660	26,00	1663	65,50	954	37,60	2145	84,40	1803	71,00			4648	183,00
1168	46,00	711	28,00	1752	69,00	962	37,80	2170	85,40	1841	72,50			5029	198,00
1194	47,00	723	28,50	1780	70,00	990	39,00	2235	88,00	1943	76,50			5410	213,00
1200	47,20	737	29,00	1854	73,00	1015	40,00	2255	88,80	1981	78,00			6121	241,00
1222	48,10	762	30,00	1895	74,60	1080	42,50	2362	93,00	2020	79,50			6883	271,00
1230	48,40	813	32,00	1910	75,20	1090	43,00	2460	96,90	2070	81,50			7646	301,00
1262	49,70	836	32,90	1915	75,40	1125	44,30	2515	99,00	2096	82,50			8408	331,00
1270	50,00	864	34,00	1930	76,00	1150	45,30	2845	112,00	2134	84,00			9169	361,00
1285	50,60	914	36,00	1956	77,00	1165	45,90			2197	86,50			9931	391,00
1290	50,80	955	37,60	1965	77,40	1190	46,80			2235	88,00			10693	421,00
1301	51,20	965	38,00	1981	78,00	1200	47,20			2324	91,50			12217	481,00
1309	51,50	1016	40,00	1992	78,40	1222	48,10			2362	93,00			13741	541,00
1316	51,80	1092	43,00	2083	82,00	1230	48,40			2476	97,50			15266	601,00
1321	52,00	1105	43,50	2155	84,80	1245	49,00			2515	99,00				
1333	52,50	1110	43,70	2210	87,00	1270	50,00			2705	106,50				
1371	54,00	1123	44,20	2337	92,00	1285	50,60			2743	108,00				
1397	55,00	1130	44,50	2489	98,00	1290	50,80			2845	112,00				
1439	56,70	1150	45,30			1321	52,00			2895	114,00				
1475	58,10	1168	46,00			1330	52,40			2921	115,00				
1600	63,00	1194	47,00			1345	53,00			2997	118,00				
1854	73,00	1200	47,30			1371	54,00			3086	121,50				
1895	74,60	1222	48,10			1397	55,00			3124	123,00				
1915	75,40	1244	49,00			1439	56,70			3289	129,50				
1930	76,00	1262	49,70			1460	57,50			3327	131,00				
1956	77,00	1270	50,00			1520	59,80			3492	137,50				
1992	78,40	1285	50,60			1560	61,40			3696	145,50				
2083	82,00														
2155	84,80														

BELT DRIVES

OPTIBELT INSTALLATION & MAINTENANCE TOOLS

Even premium quality OPTIBELT belts will not perform if they are incorrectly installed.

Two of the biggest contributing factors towards premature belt failure and poor energy efficiency are incorrect belt tension and pulley misalignment.

OPTIBELT installation & maintenance tools including the Optical or Acoustic tension testers or laser pulley alignment tool make correcting these problems a quick and straight forward job, and one which can result in significant cost savings and improved reliability.



Optical tension tester



Laser pulley aligner



Acoustic tension tester



Service Box



ARE YOUR BELT DRIVES OPTIMISED?

Optibelt are a German based, globally present, manufacturer of drive belts. We only manufacture premium quality products which, we believe, offer the ultimate in performance and value to the user.

"Precision for your drive"

Norbert, 42, Foreman

Quiet running Timing belts which can transmit up to 250% more power using standard pulleys.

V-Belts which can run at 97% efficiency without any maintenance throughout their service life.

BELT DRIVES



- Increased Productivity
- Reduced Energy Consumption
- Exceptional Reliability
- Lower Replacement Costs
- Reduced Maintenance Costs





MATERIAL HANDLING
ALPHA

POLYURETHANE TIMING BELTS

FIRST CLASS PRODUCTS FOR FLEXIBLE DRIVE SOLUTIONS AND CONVEYANCE CHALLENGES

“It’s matter of trust.”
Paul, 46, Chief engineer

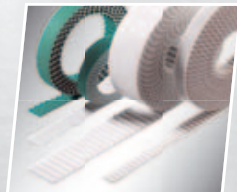


- optibelt ALPHA FLEX
- Length range from approx. 1500 mm to 24,000 mm
 - Optional with polyamide fabric on the teeth
 - Direct weld on of cleats and guides possible

- optibelt ALPHA LINEAR
- High tension force with low elongation
 - High positioning accuracy
 - Optional design includes high flexible steel, aramid and stainless steel tension members



optibelt ALPHA FLEX



optibelt ALPHA LINEAR

BELT DRIVES



High Performance Composite (HPC) V-Belts



A quick to install, easy to inventory, permanent upgrade for conventional endless rubber V-belts. Made from high performance polyurethane elastomers reinforced with multiple plies of polyester fabric, Fenner Drives' HPC V-Belts offer problem solving alternatives to V-belts of classical and metric SP wedge cross-sections.



Keyless Locking Devices

B-LOC® Trantorque®

The key to better machine design is no key at all! From gears to cams, propeller hubs to grinding wheels, timing pulleys to conveyor rolls, the B-LOC and Trantorque family of Keyless Locking Devices provides the ultimate solution to mount and position all kinds of components effortlessly.



Polyurethane Belting & O-Rings



The most comprehensive range of polyurethane belting and O-Rings available, including Eagle® Orange 85. All standard V-, round and flat profiles are in stock, right here, right now, ready to go to you. Our belts are easily made endless in the field with Fenner Drives welding kits. Custom profiles, durometers and top surfaces are also our specialty.



Belt & Chain Tensioning Systems



Automatically take up the slack with T-Max Belt and Chain Tensioners. Improve drive efficiency and extend component life with proper tension. A variety of design and size options suitable for a wide range of power transmission/motion transfer applications including RT3000 and RT4000 Series for single and multiple V-belt drives and other high-speed, heavy-duty applications.



Composite Idler Pulleys and Chain Sprockets



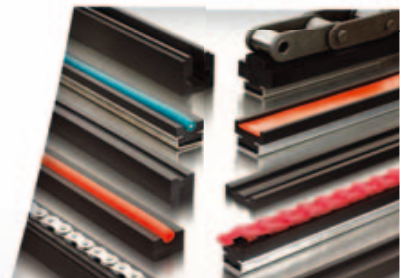
High strength, high performance glass-reinforced nylon makes our idler pulleys and chain sprockets extremely durable yet light weight and corrosion resistant. A cost effective alternative to conventional metal parts. Available in a wide range of stock sizes for V-, round, and flat belts and industry standard pitch chains. Use with a T-Max Tensioner for an off-the-shelf drive tensioning solution.



UHMW Belt & Chain Guides



Fight friction and extend belt or chain life with Trackstar UHMW guides. A wide variety of standard profiles are available for all industry standard V-, round, and flat belts and single and double pitch chains. Manufactured to exacting tolerances and always in stock ready to ship to you today; whether one stick or a hundred, call us: we've got it!





V & Wedge Belts

V & Wedge belts are available in both wrapped and cogged raw edge constructions, they are oil and heat resistant and meet ISO 1813 for static conductivity, also available banded and hexagonal making them truly universal.

Range;

Z, A, B, C, D, E, AA, BB & CC (V wrapped)

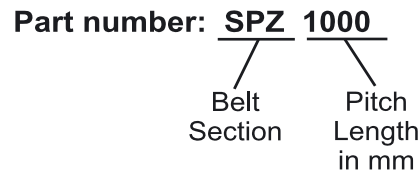
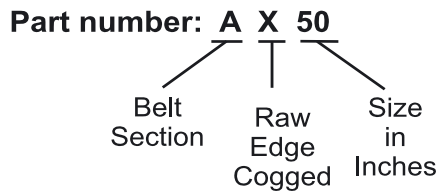
AX, BX, CX, AVX10 & AVX13 (V raw edge cogged)

SPZ, SPA, SPB & SPC (wedge wrapped)

SPZX, SPAX, SPBX & SPCX (wedge raw edge cogged)

A, B, C, SPZ, SPA, SPB, SPC, 3V, 5V & 8V (V & wedge wrapped banded)

V & Wedge belts conform to all ISO, DIN, BS & ASAE International standards.



V & Wedge Belt Pulleys

V-Pulleys are manufactured according to ISO 4183 and DIN2211-3 norms and are made from cast iron EN-GJL-200 UNI EN 1561 and phosphate.

Range;

SPZ (50 - 630mm pitch dia) 1 - 6 grooves

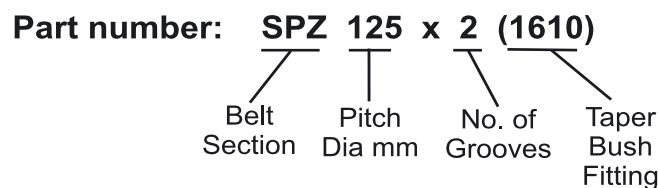
SPA (75 - 800mm pitch dia) 1 - 6 grooves

SPB (112 - 1000mm pitch dia) 1- 10 grooves

SPC (200 - 1250mm pitch dia) 3 - 10 grooves

Both pilot & taper bored options and available and are designed for use with both standard Vee and Wedge belt sections.

All V-pulleys are statically balanced and suitable for peripheral speeds up to 35mtrs/sec.



MEDWAY®



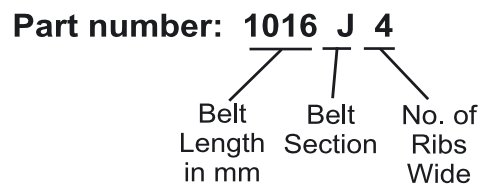


Poly V Belts

Poly-V belts also known as “Ribbed belts” are ideally suited for high speed or high ratio applications. They offer smooth, vibration free performance, in a single compact drive, which is resistant to heat and abrasion so leading to a longer service life and meet ISO 1813 for static conductivity.

Range;
 H section (1.60mm pitch)
 J section (2.34mm pitch)
 K section (3.56mm pitch)
 L section (4.70mm pitch)
 M section (9.40mm pitch)

Poly-V belts conform to ISO9982, DIN7867 & ASA S 211.5



BELT DRIVES
(VALUE RANGE)



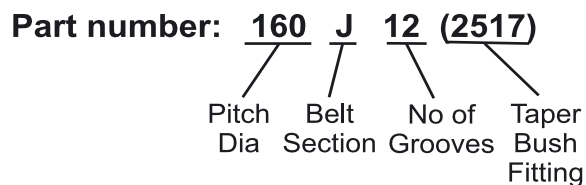
Poly V Belt Pulleys

Poly V-Pulleys are manufactured according to ISO 4183 and DIN2211-3 norms and are made from cast iron EN-GJL-200 UNI EN 1561 and phosphate.

Range;
 J section (20 - 400mm pitch dia) 4 - 6 - 8 & 12 grooves
 K section (limited range)
 L section (80 - 630mm pitch dia) 6 - 8 - 10 - 12 - 16 & 20 grooves
 M section (180 - 710mm pitch dia) 6 - 10 - 16 & 20 grooves

Both pilot & taper bored options and available and are designed for use with standard width poly-V belt sections.

All Poly V-pulleys are statically balanced and suitable for peripheral speeds up to 35mtrs/sec.



MEDWAY®





Timing (Synchronous) Belts

Timing (Synchronous) drive belts today can provide more HP/KW, higher torque, lower speeds and quieter operations than ever before; they provide a positive drive by the meshing of belt teeth with the grooves of mating pulleys and eliminate belt slip.

They are oil and heat resistant and meet ISO 1813 for static conductivity, full anti-static options are available.

Range;

XL, L, H & XH (classical sections)

3M, 5M, 8M & 14M (HTD sections)

T2.5, T5 & T10 (Metric pitch sections)

Timing (Synchronous) belts conform to all ISO, DIN, BS & ASAE International standards.

Part number: **800 - 8M - 30**



Timing Belt Pulleys

Timing (Synchronous) Pulleys are manufactured from either cast iron EN-GJL-200 UNI EN 1561, Aluminium 6082 T6 UNI 9006/4 or Steel C45 E UNI EN 10083-1.

Range;

MXL - XL - L - H - XH & XXH sections

3M - 5M - 8M - 14M & 20M sections

T2.5 - T5 & T10 sections

Both pilot & taper bored options are available in a wide range of standard widths and are designed for use with both standard synchronous & high power belt sections.

Not all timing pulleys are statically balanced but are suitable for peripheral speeds up to 35mtrs/sec.

Part number: **44 - 8M - 30 F (2012)**

MEDWAY®



Tsubaki in partnership with IADA

Tsubaki, the world's leading manufacturer of roller chain products, was awarded the title of supplier of the year from the Independent Authorised Distributor Alliance (IADA) for 2010 in its inaugural year of supply. The award, which is voted for by the group's members, is presented to the supplier that best matches the group's philosophy of high quality and service throughout the year.

Throughout the first twelve months with IADA, Tsubaki consistently provided IADA members with the highest levels of performance in relation to delivery, customer service and product quality. It has a wide product range that is designed to meet the needs of most applications; consistently outperforming competitors in operational life and efficiency.

About Tsubaki

Established in 1917, Tsubakimoto Chain Company is the world's premier manufacturer of power transmission products with strong market positions in premium quality ANSI & BS roller conveyor & engineering chains and associated power transmission components such as cam clutches, reducers & linear actuators.

At Tsubaki we know that customers want the best. Indeed, we take pride in our ability to deliver an extensive product lineup that satisfies these high expectations. We are also aware that each and every one of our customers has unique requirements. Our focus is on providing our customers around the world with concrete solutions by developing products to suit different countries, regions and business environments.

Tsubakimoto UK in Nottingham, serves the markets of the UK, Ireland and Iceland.



Tsubakimoto UK offices and distribution centre in Nottingham, UK

Stockholding UK/Europe

Tsubaki stocks a wide range of standard power transmission products; many of which provide innovative solutions. We pride ourselves on customer service excellence and understand the importance of having stock available to fulfil our customer's requirements. The UK and European warehouses hold stock in excess of £18m and offer a wide product range of drive, conveyor, attachment chains & sprockets. We also supply power transmission component products such as cam clutches, torque limiters and couplings.



Roller Chain Guide



Roller Chain

Start your product selection here



Attachment Chain



CHAIN DRIVES & HARDWARE

* Contact Tsubaki as the application requires further investigation.

TSUBAKI GT4 Winner: Standard Roller Chain

TSUBAKI, the world's largest and most advanced manufacturer of chain has released a new 4th generation BS/DIN standard roller chain. The latest generation chain, branded Tsubaki GT4 Winner hosts a number of manufacturing and material developments.

Repeated testing and field data indicate that wear between the bearing parts is a primary limiting factor in overall chain life, particularly in externally lubricated chain types such as BS/DIN standard roller chain. TSUBAKI has committed significant amounts of research and development to making improvements in this area, to reduce wear and chain elongation over a longer period of time-even for standard drive roller chain.

2. Seamless Bush > Perfectly Cylindrical

The new Tsubaki BS/DIN series chain has a seamless bush with a very precise cylindrical profile and surface finish resulting in better surface contact between the pin and bush along with improved lubricant retention.

3. Easy dis-assembly > Centre Sink Rivet

With Tsubaki's design of rivet head the chain is easily dis-assembled with an additional benefit being that in the event of the chain being overloaded, the markings on the rivet head will identify pin rotation.

4. Increased Transmission Capacity > Ring Coining

The Ring Coined connecting link allows the chain to be specified up to its full kW rating. The precision and strength achieved on these components is far beyond that of competitor's offerings. The typical standard slip-fit connecting link is usually much weaker than the other links. Tsubaki's Ring Coin technology has overcome that.

CO² Reduction

Tsubaki takes its environmental responsibility very seriously in its state-of-the-art production facilities. The new BS/DIN series chain contributes significantly to reducing CO² emissions due to the greatly extended replacement frequency.



Chain Features

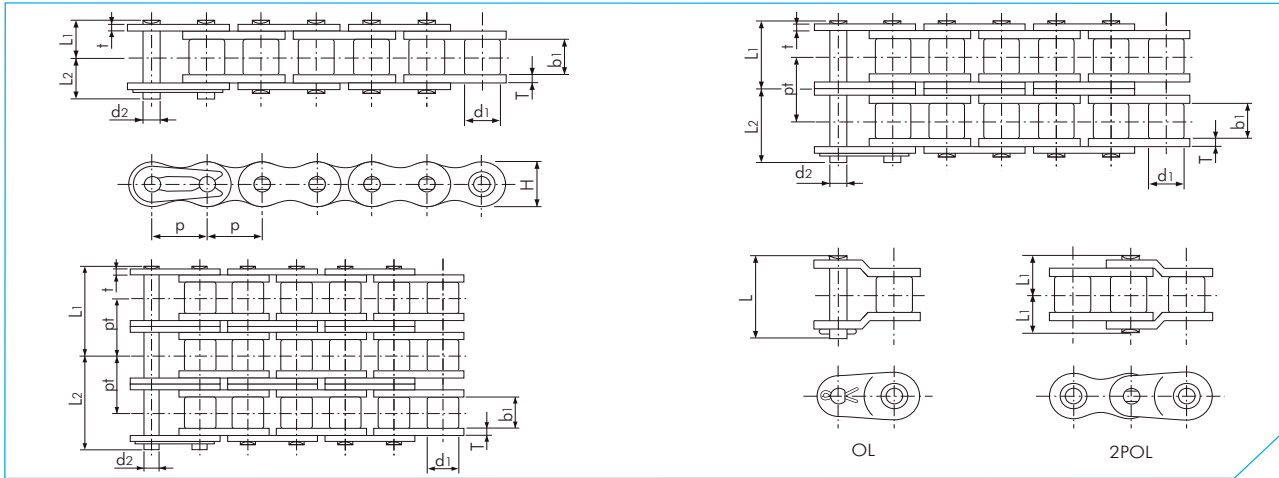
- ① Lube Grooves (LG)
- ② Seamless Bush
- ③ Centre Sink Rivet
- ④ Ring Coin

Four Key Features

1. Pre Lubrication Lube Groove (LG)

TSUBAKI's new BS/DIN series roller chain utilise a new production technique to manufacture a seamless bush with grooves incorporated on the inner surface. The lube-grooved (LG) bush holds oil at the point of contact where the chain needs it most, providing an internal reservoir for lubricant. The result is a chain that lasts longer with lower maintenance costs over the lifetime of the chain.

BS GT4 WINNER STANDARD ROLLER CHAIN



Dimensions in mm

TSUBAKI Chain No.	Pitch p	Roller Diameter d1	Inner Width b1	Pin			Link Plate			Transverse Pitch pt	Min. Tensile Strength acc. to ISO 606 kN	Min. Tensile Strength acc. to Tsubaki kN	Av. Tensile Strength acc. to Tsubaki kN	Approx. Mass kg/m	
				Diameter d2	Length L1	Length L2	Length L	Thickness T	Thickness t						Height H (max)
RS05B-1					3.80	4.70	-							0.18	
RS05B-2	8.00 (0.315")	5.00	3.00	2.30	6.65	7.52	-	0.75	0.75	7.10	5.64	7.8	8.9	0.35	
RS05B-3					9.45	10.34	-				5.64	11.1	12.8	0.53	
RF06B-1					6.10	7.70	14.20				-	8.9	9.9	0.39	
RF06B-2	9.525 (3/8")	6.35	5.72	3.27	11.43	12.57	-	1.30	1.00	8.20	10.24	16.9	18.7	0.75	
RF06B-3					16.90	17.50	-				10.24	24.9	27.4	1.11	
RS08B-1					8.40	10.00	18.40				-	17.8	19.0	0.70	
RS08B-2	12.70 (1/2")	8.51	7.75	4.45	15.30	16.90	33.60	1.60	1.60	12.00	13.92	31.1	35.2	1.35	
RS08B-3					22.25	23.85	47.60				13.92	44.5	52.3	2.00	
RS10B-1					9.55	11.25	21.10				-	22.2	23.0	0.95	
RS10B-2	15.875 (5/8")	10.16	9.65	5.08	17.85	19.55	39.40	1.50	1.50	14.70	16.59	44.5	49.0	1.85	
RS10B-3					26.15	27.85	56.10				16.59	66.6	73.5	2.80	
RS12B-1					11.10	13.00	24.80				-	28.9	31.0	1.25	
RS12B-2	19.05 (3/4")	12.07	11.68	5.72	20.85	22.75	46.30	1.80	1.80	16.10	19.46	57.8	67.1	2.50	
RS12B-3					30.60	32.50	66.00				19.46	86.7	92.0	3.80	
RS16B-1					17.75	19.95	38.90				-	60.0	70.0	2.70	
RS16B-2	25.40 (1")	15.88	17.02	8.28	33.55	35.75	73.80	4.00	3.20	21.00	31.88	106.0	128.0	5.40	
RS16B-3					49.50	51.70	105.90				31.88	160.0	192.0	8.00	
RS20B-1					19.90	23.10	46.95				-	95.0	98.1	3.85	
RS20B-2	31.75 (1 1/4")	19.05	19.56	10.19	38.25	41.45	84.85	4.40	3.40	26.00	36.45	170.0	197.0	7.65	
RS20B-3					56.50	59.70	121.35				36.45	250.0	295.0	11.45	
RS24B-1					26.65	31.85	62.00	6.00	5.60	33.40	-	160.0	167.0	7.45	
RS24B-H-1					29.30	34.20	-	7.50	6.00	36.20	-	-	234.0	270.0	8.20
RS24B-2	38.10 (1 1/2")	25.40	25.40	14.63	50.80	56.00	112.95	6.00	5.60	33.40	48.36	280.0	335.0	14.65	
RS24B-3					75.10	80.20	161.35				48.36	425.0	500.0	21.75	
RS28B-1					32.45	37.45	74.50				-	200.0	200.0	9.45	
RS28B-2	44.45 (1 3/4")	27.94	30.99	15.90	62.15	67.15	136.85	7.50	6.30	36.40	59.56	360.0	374.0	18.80	
RS28B-3					91.95	96.95	196.45				59.56	530.0	560.0	28.20	
RS32B-1					32.10	37.70	73.50				-	250.0	255.0	10.25	
RS32B-2	50.80 (2")	29.21	30.99	17.81	61.25	66.85	135.25	7.00	6.30	42.20	58.55	450.0	485.0	21.10	
RS32B-3					90.50	96.10	193.80				58.55	670.0	729.0	29.90	
RS40B-1					39.25	45.05	88.85				-	355.0	373.0	16.35	
RS40B-2	63.50 (2 1/2")	39.37	38.10	22.89	75.40	81.20	163.55	8.50	8.00	52.90	72.29	630.0	716.0	32.00	
RS40B-3					111.50	117.30	235.85				72.29	950.0	1080.0	47.75	
RS48B-1					49.30	58.80	117.70				-	560.0	565.0	25.00	
RS48B-2	76.20 (3")	48.26	45.72	29.23	95.00	104.40	209.00	12.10	10.00	63.80	91.21	1000.0	1150.0	50.00	
RS48B-3					140.60	150.00	300.20				91.21	1500.0	1520.0	75.00	

Note:

1. Connecting links are clip type for sizes up to RS16B, and cotter type for sizes RS20B to RS48B.
2. RF06B chain has flat-shaped link plates.
3. Intermediate plate of multi strand RF06B-2 and RS08B-2 chain is a solid plate.
4. Center sink riveting is applied to RS08B-1 to RS16B-1 single strand chain.
5. Double stake riveting is applied to all other sizes including multi-strand chain.
6. When a single pitch offset link is used, please calculate a 35% reduction of the fatigue strength.
7. RS24B-H-1 chain is a reinforced RS24B-1 chain.

Lambda Lube Free Roller Chain

Tsubaki's Lambda Chains were the first in the industry to use a special oil-impregnated bush. Since their launch in 1988, they have been adopted for diverse industries and applications, and their performance has been highly rated. Tsubaki has a wide line-up of lube-free, long life products that help customers reduce costs.

Technical Evolution

As a pioneer in the lube-free chain market, Tsubaki will reveal some of the key elements behind Lambda's outstanding performance:

Sintered Bush

A special oil-impregnated sintered bush in combination with a special coated pin for long-term internal lubrication is the secret of Tsubaki Lambda's long economic life and wear resistance.

Easy Cutting

BS Lambda chain can be disassembled quick and safely with an original Tsubaki Chain Tool without damaging the bushes (RS08B-LM-1 to RS16B-LM-1).

Patented Ring Coining Process

Breakage of the chains connecting link is no issue at Tsubaki thanks to this unique feature. By applying the patented Ring Coining process, Tsubaki generates a cold deformation around the pin hole of the connecting link plate. This results in residual stress around the pin hole and thereby adds strength. By using this process transmission capacity is 100% of the base chain.

Special Environments

Tsubaki Lambda has outstanding performance in temperatures up to 150°C. For temperatures above 150°C Tsubaki has a special high-temperature Lambda available. Please contact Tsubaki for more detailed information.

For applications in the food industry, Tsubaki can supply Lambda chain with bushes impregnated with food grade lubricating oil (NSF-H1 and H3 certified).

When an application needs water wash downs or is exposed to moisture, and lubrication is not possible or desirable, Lambda N.E.P. is most efficient.

Advantages

Tsubaki has enhanced the Lambda with the following advantages:

Save Maintenance Costs

No expensive labour costs as it is not required to manually lubricate this chain.

Save Purchasing Costs

Lower frequency of purchasing due to the high quality of the chain and it's long economic life. No purchasing of lubricants or lubrication systems necessary.

Higher Productivity

No unforeseen downtime due to chain breakdown. Less time required for maintenance and therefore more time for production.

Environmental Friendly

Applications run clean thus reducing the risk of contaminating products, machines, floor etc.

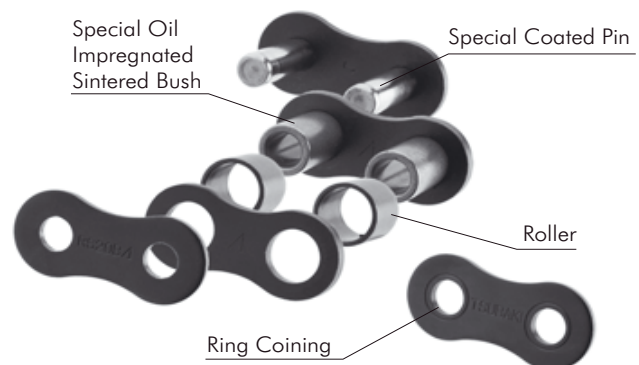
Inter-Changeability

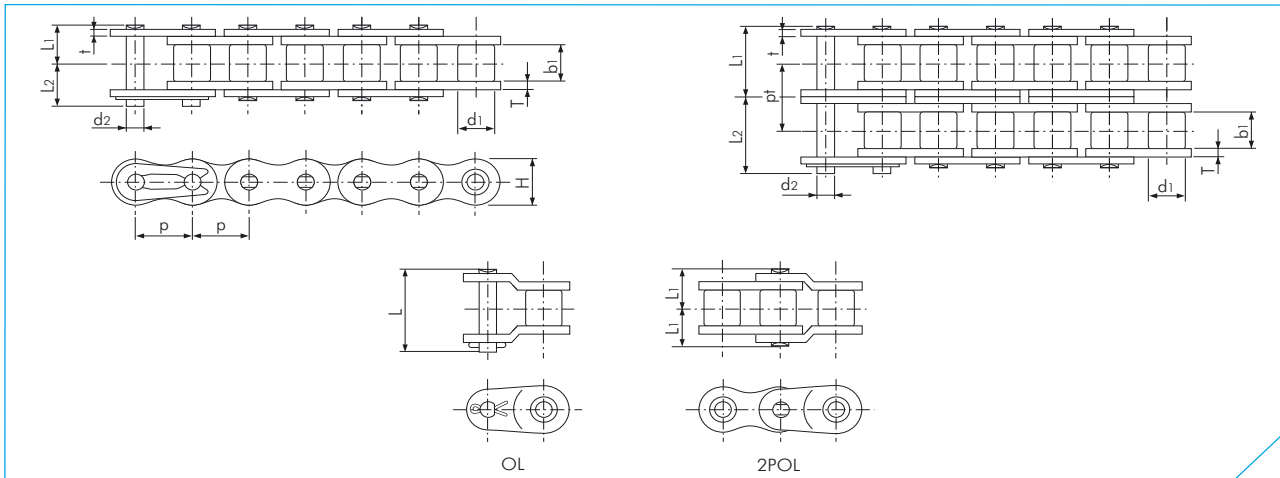
Chains:

- BS Lambda: BS Lambda Chains are fully interchangeable with standard BS roller chains.
- ANSI Lambda: Only simplex ANSI Lambda is interchangeable with standard ANSI roller chain. However, as the pins are longer than those of the standard ANSI roller chain, please make sure that there is no interference with the machine.

Sprockets:

- BS Lambda: Standard BS roller chain sprockets can be used. However, due to the extended lifetime of BS Lambda chain, Tsubaki recommends to install sprockets with hardened teeth in every Lambda application.
- ANSI Lambda: Only simplex ANSI roller chain sprockets are interchangeable. Multi strand sprockets need to be customised due to the thickness of the roller link plates. Due to the extended lifetime of ANSI Lambda chain, Tsubaki advises to install sprockets with hardened teeth in every Lambda application.





BS LAMBDA CHAIN

Dimensions in mm

TSUBAKI Chain No.	Pitch p	Roller Diameter d1	Inner Width b1	Pin			Link Plate			Transverse Pitch pt	Min. Tensile Strength acc. to ISO 606 kN	Approx. Mass kg/m	
				Diameter d2	Length L1	Length L2	Length L	Thickness T	Thickness t				Height H (max)
RF06B-LM-1	9.525 (3/8")	6.35	5.72	3.28	6.10	7.70	15.10	1.30	1.00	8.20	-	8.9	0.39
RF06B-LM-2					11.20	12.80	25.90				10.24	16.9	0.75
RS08B-LM-1	12.70 (1/2")	8.51	7.75	4.45	8.40	10.00	18.60	1.60	1.60	12.00	-	17.8	0.70
RS08B-LM-2					15.30	16.90	34.50				13.92	31.1	1.35
RS10B-LM-1	15.875 (5/8")	10.16	9.65	5.08	9.55	11.25	20.80	1.50	1.50	14.70	-	22.2	0.95
RS10B-LM-2					17.85	19.55	39.40				16.59	44.5	1.85
RS12B-LM-1	19.05 (3/4")	12.07	11.68	5.72	11.10	13.00	24.40	1.80	1.80	16.10	-	28.9	1.25
RS12B-LM-2					20.85	22.75	45.90				19.46	57.8	2.50
RS16B-LM-1	25.40 (1")	15.88	17.02	8.28	17.75	19.95	39.30	4.00	3.20	21.00	-	60.0	2.70
RS16B-LM-2					33.55	35.75	73.40				31.88	106.0	5.40
RS20B-LM-1	31.75 (1 1/4")	19.05	19.56	10.19	19.90	23.10	46.60	4.40	3.40	26.40	-	95.0	3.85
RS20B-LM-2					38.25	41.45	84.60				36.45	170.0	7.65
RS24B-LM-1	38.10 (1 1/2")	25.40	25.40	14.63	26.65	31.85	61.70	6.00	5.60	33.40	-	160.0	7.45
RS24B-LM-2					50.80	56.00	112.80				48.36	280.0	14.65

Note:

1. Connecting links are clip type for sizes up to RS16B-LM, and cotter type for sizes RS20B-LM to RS24B-LM.
2. RF06B-LM chain has flat shaped link plates.
3. Intermediate plate of RF06B-LM-2 and RS08B-LM-2 is a solid plate.
4. Centre sink riveting is applied for RS08B-LM-1 to RS16B-LM-1. Double stake riveting is applied to all other sizes including multi-strand chain.
5. Warning: previous generations of Lambda chain can not be connected with the above chains due to different dimensions.
6. When a single pitch offset link is used, please calculate a 35% reduction of the fatigue strength.
7. Also available in N.E.P. specification.

CHAIN DRIVES & HARDWARE

BS Chain For Corrosive Environments

Whether your operation requires a sanitary environment, is exposed to corrosive chemicals, is heated to extreme temperatures, runs through a freezer, is exposed to the outdoors or is affected by excessive moisture: our specially designed and tested chains will outlast your current chains and contribute to a cost effective application.

Corrosion Resistant Chain (Stainless Steel base)

BS PC Engineering Plastic Combination Chain

The pins and pin link plates of these chains are made of SUS304 (spring clips SUS301). Engineering plastic (white) is used for the inner link. This combination makes it a lube-free, low noise (5 dB lower than BS standard roller chain) and lightweight chain (50% lighter than BS standard roller chain). Working temperature range: -20°C to +80°C.

BS SS Stainless Steel Chain

All basic components of this chain are made of Stainless Steel SUS304 (except the spring clips, which are made of SUS301). This chain can be used in special environments such as underwater, acidic and alkaline applications. It can also be used in high and low temperatures (-20°C to +400°C). SUS304 is only marginally magnetic, which is the result of the cold-forging process.

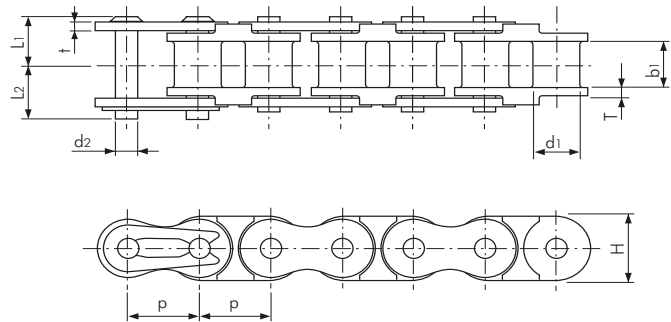
Corrosion Protected Chain (Carbon Steel base)

BS N.E.P. New Environmental Plating Chain

BS N.E.P. Chain is a TSUBAKI BS chain that has undergone a special surface treatment. The link plates, bushes and bearing pins have a special three stage layer applied in order to provide the maximum protection from the operating or environmental conditions. (Spring clips are SUS301). N.E.P. Rollers have a special coating designed to resist the corrosive conditions as well as the severe dynamic contact between roller and sprocket.

This chain is suitable for use in environments exposed to seawater, acid-rain and other adverse weather conditions. This chain does not contain any chemically hazardous substances such as Hexavalent Chromium, Lead, Cadmium and Mercury as regulated by RoHS \checkmark . The kilowatt ratings are the same as those of the corresponding BS chain with a working temperature range: -10°C to +150°C. Above +60°C a special high-temperature lubrication is required. Of course, BS LAMBDA N.E.P. chain is also available.

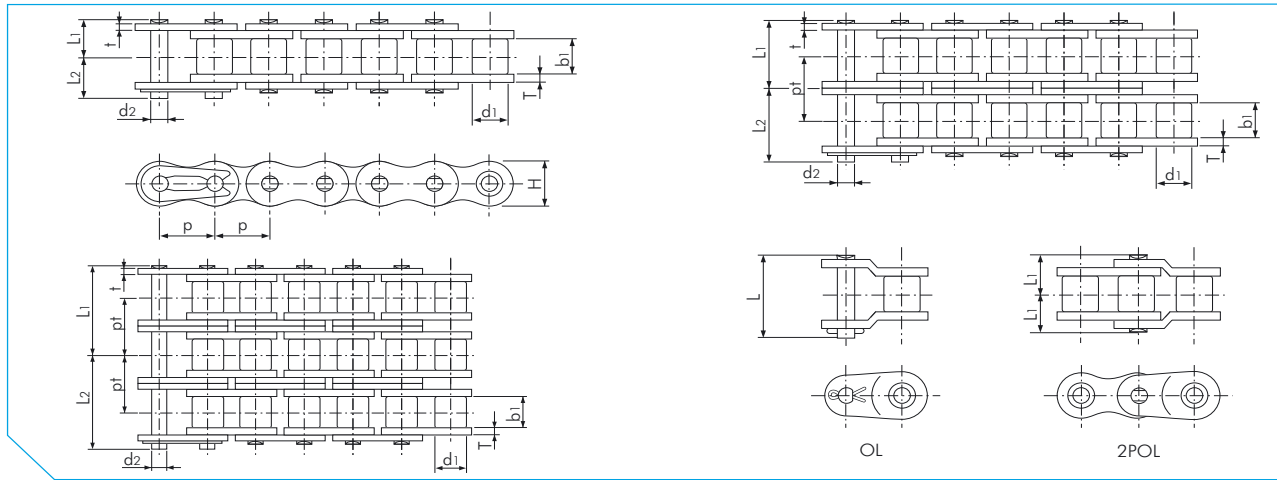
\checkmark RoHS= Restriction of Hazardous Substances



BS PC CHAIN

Dimensions in mm

TSUBAKI Chain No.	Pitch p	Bush Diameter d_1	Inner Width b_1	Pin			Link Plate			Max. Allowable Load acc. to Tsubaki kN	Approx. Mass kg/m
				Diameter d_2	Length L1	Length L2	Thickness T	Thickness t	Height H (max)		
RF06B-PC-1	9.525 (3/8")	6.35	5.72	3.28	6.50	7.25	1.30	1.00	8.60	0.20	0.23
RF08B-PC-1	12.70 (1/2")	8.51	7.75	4.45	8.35	10.05	1.60	1.50	12.00	0.46	0.40
RF10B-PC-1	15.875 (5/8")	10.16	9.65	5.08	9.55	11.25	1.50	1.50	14.70	0.53	0.51
RF12B-PC-1	19.05 (3/4")	12.07	11.68	5.72	11.10	13.00	1.80	1.80	16.10	0.70	0.67



BS SS CHAIN

Dimensions in mm

TSUBAKI Chain No.	Pitch p	Roller Diameter d1	Inner Width b1	Pin			Link Plate			Transverse Pitch pt	Max. Allowable Load acc. to Tsubaki kN	Approx. Mass kg/m	
				Diameter d2	Length L1	Length L2	Length L	Thickness T	Thickness t				Height H (max)
RF06B-SS-1	9.525 (3/8")	6.35	5.72	3.28	6.50	7.25	15.45	1.30	1.00	8.20	-	0.28	0.39
RF06B-SS-2					11.60	12.30	28.85				10.24	0.56	0.75
RS08B-SS-1	12.70 (1/2")	8.51	7.75	4.45	8.35	10.05	20.05	1.50	1.50	12.00	-	0.50	0.70
RS08B-SS-2					15.30	17.00	34.60				13.92	1.00	1.35
RS08B-SS-3					22.25	23.95	48.60				13.92	1.50	2.00
RS10B-SS-1	15.875 (5/8")	10.16	9.65	5.08	9.55	11.25	22.90	1.50	1.50	14.70	-	0.67	0.95
RS10B-SS-2					17.85	19.55	39.40				16.59	1.34	1.85
RS10B-SS-3					26.20	27.80	56.00				16.59	2.01	2.80
RS12B-SS-1	19.05 (3/4")	12.07	11.68	5.72	11.10	13.00	26.70	1.80	1.80	16.10	-	0.89	1.25
RS12B-SS-2					20.90	22.70	46.10				19.46	1.78	2.50
RS12B-SS-3					30.65	32.60	65.60				19.46	2.67	3.80
RS16B-SS-1	25.40 (1")	15.88	17.02	8.28	17.75	19.95	38.90	4.00	3.20	21.00	-	2.10	2.70
RS16B-SS-2					33.55	35.75	73.80				31.88	4.20	5.40
RS20B-SS-1	31.75 (1 1/4")	19.05	19.56	10.19	20.10	23.10	48.40	4.50	3.50	26.00	-	2.95	3.85

BS N.E.P. CHAIN

Dimensions in mm

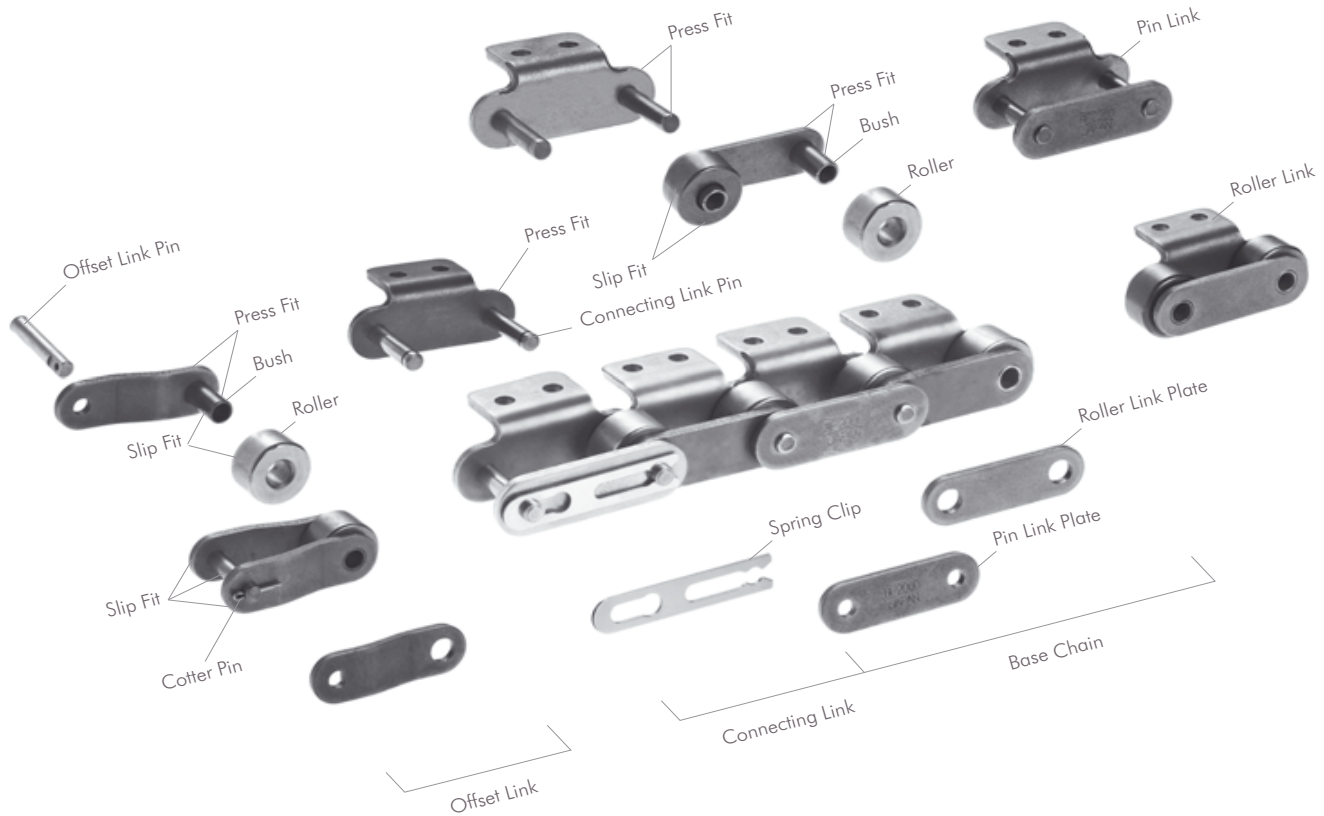
TSUBAKI Chain No.	Pitch p	Roller Diameter d1	Inner Width b1	Pin			Link Plate			Transverse Pitch pt	Min. Tensile Strength acc. to ISO 606 kN	Min. Tensile Strength acc. to Tsubaki kN	Av. Tensile Strength acc. to Tsubaki kN	Approx. Mass kg/m	
				Diameter d2	Length L1	Length L2	Length L	Thickness T	Thickness t						Height H (max)
RF06B-NEP-1	9.525 (3/8")	6.35	5.72	3.28	6.35	7.65	14.20	1.30	1.00	8.20	-	8.9	9.0	9.9	0.39
RF06B-NEP-2					11.43	12.57	-				10.24	16.9	17.0	18.7	0.75
RS08B-NEP-1	12.70 (1/2")	8.51	7.75	4.45	8.40	10.00	18.40	1.60	1.60	11.80	-	17.8	19.0	20.9	0.70
RS08B-NEP-2					15.30	16.90	33.60				13.92	31.1	32.0	35.2	1.35
RS10B-NEP-1					9.55	11.25	21.10				1.50	1.50	14.70	-	22.2
RS10B-NEP-2	15.875 (5/8")	10.16	9.65	5.08	17.85	19.55	39.40	1.50	1.50	14.70	16.59	44.5	44.5	49.0	1.85
RS12B-NEP-1	19.05 (3/4")	12.07	11.68	5.72	11.20	13.10	24.80	1.80	1.80	16.10	-	28.9	31.0	34.1	1.25
RS12B-NEP-2					20.85	22.75	46.30				19.46	57.8	61.0	67.1	2.50
RS16B-NEP-1					25.40 (1")	15.88	17.02				8.28	17.75	19.95	38.90	4.00
RS16B-NEP-2	31.75 (1 1/4")	19.05	19.56	10.19	33.55	35.75	73.80	4.50	3.50	26.00	31.88	106.0	128.0	141.0	5.40
RS20B-NEP-1	31.75 (1 1/4")	19.05	19.56	10.19	19.90	23.10	46.95	4.40	3.40	26.00	-	95.0	98.1	108.0	3.85
RS20B-NEP-2					38.25	41.45	84.85				36.45	170.0	197.0	217.0	7.65
RS24B-NEP-1	38.10 (1 1/2")	25.40	25.40	14.63	26.65	31.85	62.00	6.00	5.60	33.44	-	160.0	167.0	184.0	7.45



Introduction to TSUBAKI Attachment Chain

In the world of attachment chain TSUBAKI is the manufacturer you require to assure smooth operation. Whether your application requires attachments or extended pins in Carbon Steel, N.E.P., Nickel Plating or Stainless Steel, TSUBAKI is your partner. TSUBAKI's maintenance free solution, LAMBDA, is also available with a wide range of attachments. When starting with a completely new design, TSUBAKI can tailor make an attachment chain for you in any specification.

Attachment Chain Structure



Standard Product Range

The product range for our standard attachment chains is:

- BS Single Pitch Standard chain + standard attachments
- ANSI Single Pitch Standard chain + standard attachments
- ANSI Single Pitch HP Hollow Pin chain
- ANSI Single Pitch CU Curved chain
- ANSI Double Pitch Standard chain + standard attachments
- ANSI Double Pitch HP Hollow Pin chain



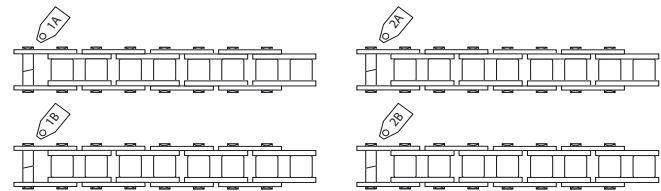
Match & Tag Service: High Accuracy, Narrow Tolerance Service

For TSUBAKI, quality is second nature- and so for customers with specific application requirements, we are able to supply chains with a specific length tolerance, or even pairs & multiple chains length matched and tagged in the same way for easy identification and installation. This is as a result of the sophisticated chain length measurement equipment (the "Matchy") kept in house within the European headquarters with supply times for such chains kept to a minimum-ideal for distributors, final consumers and OEM customers alike.

Tolerances

When chains have to run in parallel for conveying purposes in for instance packaging machines or when a minimum of difference in chain length is required in lifting applications (accumulator towers in the steel and carpet industry)

TSUBAKI excels in quality performance. We can guarantee a maximum chain length difference of 0.50 mm independent of the total chain length demanded by our customers!



Custom Made Attachments



Canning



Bookbinder



Packaging

Tsubaki Gripper Chain

New solution for the thermoforming process found with Tsubaki's wide range of 'Gripper' chains.

Tsubaki has launched a new range of 'gripper' chains to be used for thermoforming in various sectors including food, electrical and medical packaging. Whereas conventional gripping attachments often open vertically, Tsubaki's range opens to the side as well which provides a larger opening preventing jams and making loading easier. This innovative solution is available with many variations of transmission chain, including Tsubaki's unique Lambda lube-free chain. Offering extended chain life and minimal maintenance Tsubaki's gripper chain offers a fresh, new option for thermoforming.



PERFORMANCE THROUGH INNOVATION

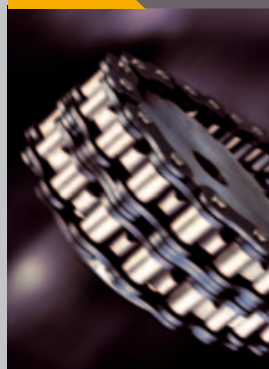
Drive Chain Series



GT4 Winner

- Unique Lube Groove Bush
- Longer Wear Life - Lower CO₂ Emission
- High Transmission Capacity
- Easy Disassembly
- Accuracy of Chain Length Tolerance

Lube Free Series



LAMBDA Chain

- Absolutely no Lubrication Required
- Longer Wear Life
- Clean Handling & Running
- Higher Production Output & Reduced Maintenance
- ANSI LAMBDA KF Series now available (usable at high temperatures up to 230°C and suitable for food product applications)

Corrosion Resistant Series



Engineering Plastic Chain

- Lube Free Operation
- Cleaner & Quieter Operation
- Easy Maintenance
- Alternative to Stainless Steel Chain

Corrosion Protected Series



N.E.P. Chain

- Innovative Surface Treatment
- Superior Corrosion Resistance
- Environmentally Friendly

Mechanical Components



Cam Clutches (Freewheel)

- Full European Range
- For Indexing, Backstopping & Over-running Applications
- From as low as 6 Nm up to 686.000 Nm Torque Capacity
- Available from Stock

Industry Specific



TSUBAKI's product range and service capabilities are amongst the best in the business, from standard attachments through to specific industry applications. For example: **Gripper chain** - for form, fill & vacuum seal wrapping industry.

Specialist attachments and specific matched length tolerance chains are available to meet your production schedules.



TSUBAKI: Value Added Services

Installation

TSUBAKI engineers can support installation projects from initial quotation stage, through on-site support during installation and then to final sign off at commission. TSUBAKI products offer best value for money when correctly installed, hence our support during this critical stage.



Surveying

TSUBAKI can support chain users by providing a site survey of their entire plant. This ensures the ordering of complex chain is made simple by an easy-to-use survey database. TSUBAKI wants this to be an effective business tool so uses simple language to identify chain and attachment detail. The survey results can also help reduce your overall stock level and further reduce cost by identifying and consolidating common chain types.



Condition Based Monitoring Service

TSUBAKI offers regular and scheduled site visits to monitor its chain's performance. Customers receive a detailed report recommending the necessary actions to ensure best possible performance and value.



Training Services

TSUBAKI offers technical training packages tailored to suit your needs. From a simple introduction to chain and installation basics; through to chain selection, advanced failure analysis and application specific advice; TSUBAKI can partner with apprentices, maintenance engineers, and designers to ensure its wealth of experience is available.



Chain Analysis

TSUBAKI can analyse any returned chain to make a comprehensive and easy-to-follow report. We can often recommend TSUBAKI products that will offer further application benefits.



Chain Selection

TSUBAKI has experience of many application types and unique machine designs. We can offer a full chain selection package, working directly with engineers and designers to ensure the product specified is the 'perfect fit' for your needs.



CHAIN DRIVES
& HARDWARE

RENOLD



- Our leading standard steel transmission chain
- Excellent wear resistance
- Wide waisted GP plate shape
- Fatigue performance rated as ISO + 60%
- Guarantee of 15,000 hours
- End-softened, spin riveted pin for easy cutting
- 3/8" to 4" pitch, simplex & duplex

CHAIN DRIVES & HARDWARE

Renold's unique control over pin / bush contact makes sure that wear life exceeds other brands. Little initial chain adjustment is therefore required. Renold roller chain is highly fatigue resistant, giving up to four times the life of other leading competitor chains.

Breaking loads exceed the minimum requirements of the international standards.

Renold's end-softened pin and spin rivet help to minimise downtime. All you need is a Renold pin extractor

and you can disassemble Renold roller chain in seconds; no need to grind the head of the pin, no need for lengthy downtime.

Simplex

Renold BS Order Code	ISO No.	Pitch inch	Connecting links					
			4	107	11	26	12	30
SD06B1X10FT	06B-1	0.375	✓	✓	-	✓	-	✓
SD08B1X10FT	08B-1	0.500	✓	✓	-	✓	-	✓
SD10B1X10FT	10B-1	0.625	✓	✓	-	✓	-	✓
SD12B1X10FT	12B-1	0.750	✓	✓	-	✓	-	✓
SD16B1X10FT	16B-1	1.000	✓	✓	-	✓	✓	✓
SD20B1X10FT	20B-1	1.250	✓	✓	-	✓	✓	✓
SD24B1X10FT	24B-1	1.500	✓	✓	✓	-	✓	✓

Duplex

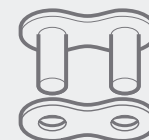
Renold BS Order Code	ISO No.	Pitch inch	Connecting links					
			4	107	11	26	12	30
SD06B2X10FT	06B-2	0.375	✓	✓	-	✓	-	✓
SD08B2X10FT	08B-2	0.500	✓	✓	-	✓	-	✓
SD10B2X10FT	10B-2	0.625	✓	✓	-	✓	-	✓
SD12B2X10FT	12B-2	0.750	✓	✓	-	✓	-	✓
SD16B2X10FT	16B-2	1.000	✓	✓	-	✓	✓	✓
SD20B2X10FT	20B-2	1.250	✓	✓	-	✓	✓	✓
SD24B2X10FT	24B-2	1.500	✓	✓	✓	-	✓	✓



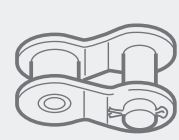
S11/S58



S26



S107



S12



S30

RENOLD Syno™



- No lubrication normally required
- Outside of chain totally dry-to-the-touch
- Nickel-plated plates
- Food industry-approved lubricant within sintered bush
- Unique food industry-approved roller coating
- Dimensionally interchangeable with standard chain
- ISO standard pin diameter, therefore standard attachments on outer links

For use in hygiene-sensitive applications or situations where contamination from lubricant is to be avoided, Renold Syno chain displays all the characteristics you need from a chain. With a food industry-approved lubricant within the sintered bush, this chain will in almost all instances not need relubricating. The roller coating is also suitable for use in the food industry; a unique feature on any chain.

Available in boxed 10-foot lengths from 06B to 24B and ANSI 40 to ANSI 100, simplex and duplex with a standard pin diameter, this means that Renold Syno chain is dimensionally interchangeable with standard roller chain and is even compatible with standard sprockets.

With the kind of excellent wear and fatigue resistance that you expect from a Renold chain, Syno chain outlasts any competitor

product promoted as low-lube or non-lube. Already tried and tested by major companies in the food sector and elsewhere, if you have to operate with minimal lubrication but can't compromise on performance, we can boost your productivity, cut your downtime and save you time and money.

CHAIN DRIVES
& HARDWARE

Simplex

Renold BS Order Code	ISO No.	Pitch inch	Connecting links				
			26	107	11	12	30
06B1SNX10FT	06B-1	0.375	✓	✓	-	-	✓
08B1SNX10FT	08B-1	0.500	✓	✓	✓	-	✓
10B1SNX10FT	10B-1	0.625	✓	✓	✓	-	✓
12B1SNX10FT	12B-1	0.750	✓	✓	✓	-	✓
16B1SNX10FT	16B-1	1.000	✓	✓	✓	✓	✓
20B1SNX10FT	20B-1	1.250	✓	✓	✓	✓	✓
24B1SNX10FT	24B-1	1.500	-	✓	✓	✓	✓

Duplex

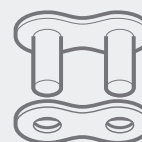
Renold BS Order Code	ISO No.	Pitch inch	Connecting links				
			26	107	11	12	30
06B2SNX10FT	06B-2	0.375	✓	✓	✓	-	✓
08B2SNX10FT	08B-2	0.500	✓	✓	✓	-	✓
10B2SNX10FT	10B-2	0.625	✓	✓	✓	-	✓
12B2SNX10FT	12B-2	0.750	✓	✓	✓	-	✓
16B2SNX10FT	16B-2	1.000	✓	✓	-	✓	✓
20B2SNX10FT	20B-2	1.250	✓	✓	✓	✓	✓
24B2SNX10FT	24B-2	1.500	-	✓	✓	✓	✓



S11/S58



S26



S107



S12

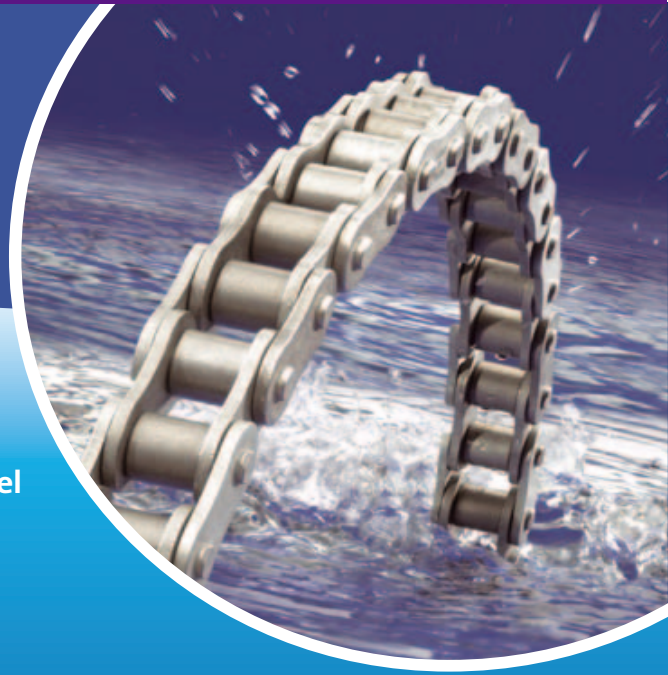


S30



Renold Hydro-Service®

Superior corrosion resistance for chain



- Superior corrosion resistance
- Last as much as 30 times longer than standard carbon steel
- Hexavalent chrome free
- 350 hours corrosion protection during salt spray tests to DIN 50021
- Cold extruded, solid bush and roller delivering maximum Renold performance
- Plates and rollers shot peened to our exact specifications
- Wear and fatigue resistance that delivers maximum working life
- Lubrication that improves wear performance

CHAIN DRIVES & HARDWARE

Renold Hydro-Service chain delivers superior corrosion resistance, lasting as much as 30 times longer than standard carbon steel in applications that have to deal with water or salt spray. It is ideal for wash-down environments.

Hydro-Service chain is also more economical, and stronger, than stainless steel.

Each component is mechanically treated prior to assembly to ensure consistent, secure protection. The

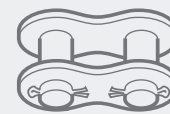
surface treatment is free of hexavalent chrome, complying with legislation relating to environmental and health & safety considerations.

Simplex

Renold BS Order Code	ISO No.	Pitch inch	Connecting links				
			26	107	11	12	30
06B1HSX10FT	06B-1	0.375	✓	✓	-	-	✓
08B1HSX10FT	08B-1	0.500	✓	✓	-	-	✓
10B1HSX10FT	10B-1	0.625	✓	✓	-	-	✓
12B1HSX10FT	12B-1	0.750	✓	✓	-	-	✓
16B1HSX10FT	16B-1	1.000	✓	✓	-	✓	-
20B1HSX10FT	20B-1	1.250	✓	✓	-	✓	-
24B1HSX10FT	24B-1	1.500	-	✓	✓	✓	-

Duplex

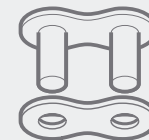
Renold BS Order Code	ISO No.	Pitch inch	Connecting links				
			26	107	11	12	30
06B2HSX10FT	06B-2	0.375	✓	✓	-	-	✓
08B2HSX10FT	08B-2	0.500	✓	✓	-	-	✓
10B2HSX10FT	10B-2	0.625	✓	✓	-	-	✓
12B2HSX10FT	12B-2	0.750	✓	✓	-	-	✓
16B2HSX10FT	16B-2	1.000	✓	✓	-	✓	-
20B2HSX10FT	20B-2	1.250	✓	✓	-	✓	-
24B2HSX10FT	24B-2	1.500	-	✓	✓	✓	-



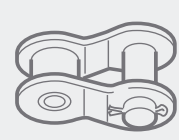
S11/S58



S26



S107



S12



S30

Renold Conveyor Chain

Standard stock range of BS conveyor chain, available ex-stock. 3,000 to 30,000lb chains produced in our dedicated UK manufacturing cell.

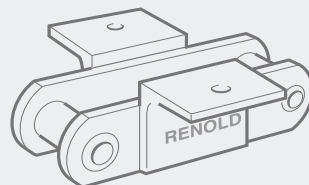
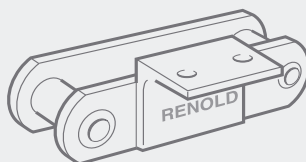
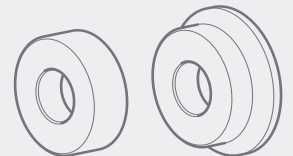
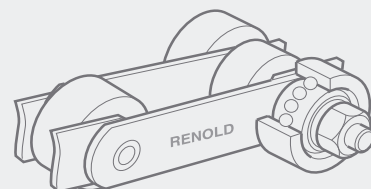
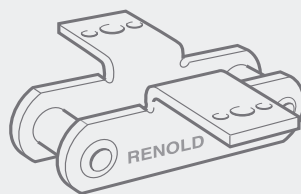
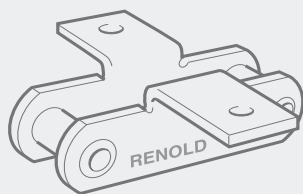


- Fast availability of standard integral attachments

- Standard cast iron sprockets available ex-stock

- Supporting this standard range we also have the capability to supply specials and custom-designed products.

CHAIN DRIVES
& HARDWARE



RENOLD SD



- An extensive product line of European (BS), ANSI and DIN standard chains
- Competitive prices and delivery
- Consistent quality
- Depth of inventory

CHAIN DRIVES & HARDWARE

If you are looking for a good quality product from a reliable supplier for “standard duty” chain applications, look to **RENOLD SD**, the new benchmark in the economy chain category.

Renold is recognized as the worldwide leader in chain products and has established manufacturing facilities across the globe.

While most suppliers buy-in their economy line of chain, Renold manufactures its own.

Simplex

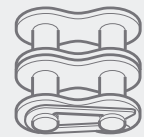
Renold BS Order Code	ISO No.	Pitch inch	Connecting links					
			4	107	11	26	12	30
SD08B1X10FT	08B-1	0.375	✓	✓	-	-	-	✓
SD10B1X10FT	10B-1	0.500	✓	✓	-	✓	-	✓
SD12B1X10FT	12B-1	0.625	✓	✓	-	✓	-	✓
SD16B1X10FT	16B-1	0.750	✓	✓	-	✓	✓	✓
SD20B1X10FT	20B-1	1.000	✓	✓	-	✓	✓	✓
SD24B1X10FT	24B-1	1.500	✓	✓	✓	-	✓	✓

Duplex

Renold BS Order Code	ISO No.	Pitch inch	Connecting links					
			4	107	11	26	12	30
SD08B2X10FT	08B-2	0.375	✓	✓	-	-	-	✓
SD10B2X10FT	10B-2	0.500	✓	✓	-	✓	-	✓
SD12B2X10FT	12B-2	0.625	✓	✓	-	✓	-	✓
SD16B2X10FT	16B-2	0.750	✓	✓	-	✓	✓	✓
SD20B2X10FT	20B-2	1.000	✓	✓	-	✓	✓	✓
SD24B2X10FT	24B-2	1.500	✓	✓	✓	-	✓	✓



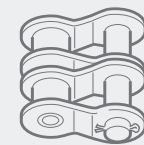
Nr. 4



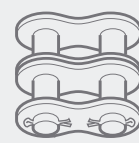
Nr. 26



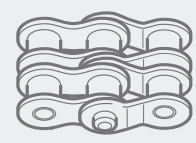
Nr. 107



Nr. 12



Nr. 11



Nr. 30

Renold Stainless Steel



- All components made from austenitic rust-proof steel
- All components receive surface finishing to remove stress raisers
- Lubrication that improves wear performance
- Tensile strength is approximately 65% that of standard carbon steel chain

Renold Stainless Steel chain is made from high grades of austenitic rust-proof steel. These perform extremely well in environments that are acidic, alkaline, where direct contact with food is a consideration, where the chain will be exposed

to water, and for very high or very low temperature locations (-40° to +400°C) where resistance to corrosion is a requirement.

Renold Stainless Steel chain should be selected when resistance to

chemical action is critical.

It is manufactured using FDA approved material and is prelubricated with USDA H1 approved lubricant.

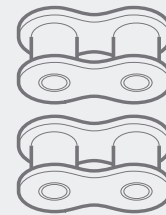
CHAIN DRIVES & HARDWARE

Simplex

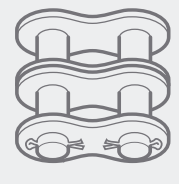
Renold BS Order Code	ISO No.	Pitch inch	Connecting links					
			4	107	11	58	26	12
05B1SSX10FT	05B-1	0.315	✓	✓	-	-	✓	-
06B1SSX10FT	06B-1	0.375	✓	✓	-	-	✓	✓
08B1SSX10FT	08B-1	0.500	✓	✓	✓	-	✓	-
10B1SSX10FT	10B-1	0.625	✓	✓	✓	-	✓	-
12B1SSX10FT	12B-1	0.750	✓	✓	✓	-	✓	-
16B1SSX10FT	16B-1	1.000	✓	✓	✓	-	✓	-

Duplex

Renold BS Order Code	ISO No.	Pitch inch	Connecting links					
			4	107	11	58	26	12
05B2SSX10FT	05B-2	0.315	✓	✓	-	-	✓	-
06B2SSX10FT	06B-2	0.375	✓	✓	-	-	✓	✓
08B2SSX10FT	08B-2	0.500	✓	✓	✓	-	✓	-
10B2SSX10FT	10B-2	0.625	✓	✓	✓	-	✓	-
12B2SSX10FT	12B-2	0.750	✓	✓	✓	-	✓	-
16B2SSX10FT	16B-2	1.000	✓	✓	✓	-	✓	-



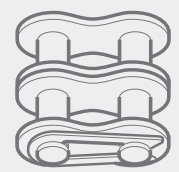
No.4



No. 11



No. 107



No. 26



RENOLD

www.renold.com



National Power Local Strength

Supplying industrial products, services and solutions since 1998

Experts & Tools

At your service
for more
performance

Experienced and well equipped Bearing Experts at your side to scale new heights.

Our custom-made offer:

- tools and products to maintain your bearings
- theoretical and practical training on bearings and their maintenance
- technical assistance in mounting and extracting bearings
- renovation of bearings and machine tool spindles.
- expertise in damaged bearings and lubrication
- vibration analysis of rotating machinery
- rental of special tools
- maintenance audit of your organisation

Find Experts & Tools on our site at www.ntn-snr.com/services

And through expertsandtools@ntn-snr.com



www.ntn-snr.com



With You



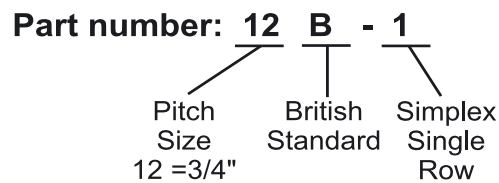
Roller Chain

Roller chain and sprockets provide high power, synchronous drive systems suitable for a wide range of applications, Steel, Stainless Steel and Nickel plated options are available, coupled together produce a precision gear system.

Range;
06B-1 to 32B-3 (3/8" - 2" pitch British STD)
ASA35-1 to ASA160-3 (3/8" - 2" pitch American STD)

-1 = Simplex (single row) -2 = Duplex (2 rows) -3 = Triplex (3 rows)

An extensive range is available of BS, ANSI and DIN standard chains.



CHAIN DRIVES
& HARDWARE
(VALUE RANGE)



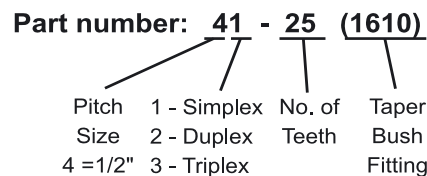
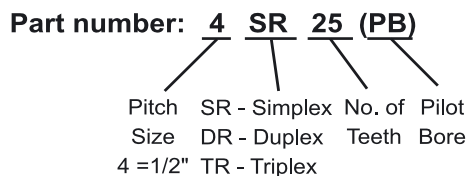
Roller Chain Sprockets

Sprockets & Platewheels are manufactured for Simplex, Duplex & Triplex chains to DIN 8187 & ISO/R 606 and are made from either cast iron EN-GJL-200 UNI EN 1561 and phosphate or Steel C45E UNI EN 10083-1.

Range;

06B-1-2-3	3/8"x7/32"	081-1	1/2"x1/8"	083-1	1/2"x3/16"
085-1	1/2"x1/4"	08B-1-2-3	1/2"x5/16"	10B-1-2-3	5/8"x3/8"
12B-1-2-3	3/4"x7/16"	16B-1-2-3	1"x17.02mm	20B-1-2-3	1-1/4"x3/4"
24B-1-2-3	1-1/2"x1"	28B-1-2-3	1-3/4"x1-1/4"	32B-1-2-3	2"x1-1/4"

Both pilot & taper bored options and available and are designed for use with British standard roller chain.



MEDWAY®

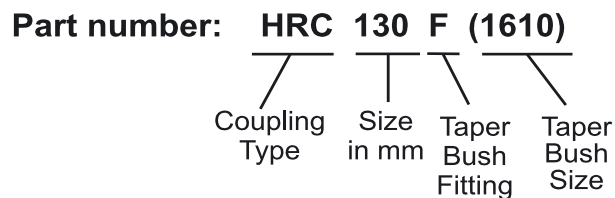


Couplings

Couplings are essentially a quick and simple solution to connecting 2 shafts of the same or different diameters. Flexible allow for slight misalignments of the shafts while rigid will hold the shafts dead parallel to each other.

Range;
 HRC 70 - HRC280 (Flexible spider)
 F40 - F220 (Flexible tyre)
 L070 - L225 (Flexible insert)
 RM12 - RM50 (Rigid)

Both flexible and rigid couplings are available with either pilot & taper bored options. Rubber inserts and tyres can be supplied in FRAS (Fire resistant & anti-static) compounds.



CHAIN DRIVES
& HARDWARE
(VALUE RANGE)

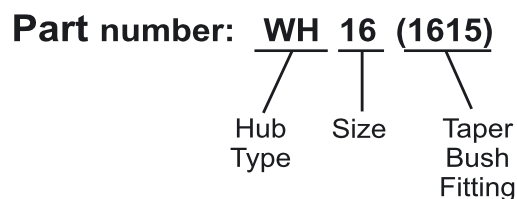


Weld On & Bolt On Hubs

A Weld on hub is fixed to its mating component by welding into position. Bolt on hubs have predetermined holes on a defined PCD for fixing to its mating component. Both designs are drilled, tapped and taper bored to accommodate a standard taper bush to create a location point for a drive shaft.

Range;
 WH12 - WH50 (1215 - 5050 taper bush)
 BF12 - BF30 (1210 - 3020 taper bush)

Weld on hubs are manufactured from C45E UNI EN 10083-1 and Bolt on hubs are made from cast iron EN-GJL-200 UNI EN 1561 and phosphate.



MEDWAY®





Taper Bushes

Taper bushes are made from cast iron EN-GJL-200 UNI EN 1561 and phosphated, they are the most convenient and cost effective method of fixing drive components to a mating shaft as they are pre-bored with the required shaft a keyway size. They can be used with belt pulleys, sprockets, couplings, hubs and adaptors and form a vital link between shaft and component.

Range;
1008 - 5050 both metric & imperial

Metric keyways conform to UNI 6604 DIN 6885 and imperial keyways to BS46: part 1: 1958.

Part number: 1610 x 25mm

Bush Type	Bore Size

CHAIN DRIVES
& HARDWARE
(VALUE RANGE)



Locking Elements

Locking elements are manufactured from steel C45E UNI EN 10083-1, they are the most convenient and cost effective method of fixing drive components to a mating shaft as they are pre-bored with the required shaft size and can be fitted into a parallel mating bore.

Range;

KLAA (19 - 150mm bore)	KLAB (19 - 150mm bore)
KLBB (114 - 350mm bore)	KLCC (8 - 150mm bore)
KLDA (19 - 150mm bore)	KLDB (19 - 150mm bore)
KLEE (25 - 220mm bore)	KLFF (15 - 60mm bore)
KLGG (19 - 20mm bore)	KLHH (18 - 80mm bore)

Part number: KL AA 019

/		\
Locking set	Type	Bore size

MEDWAY®



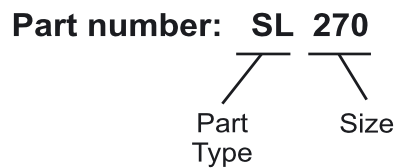


Motor Bases

Motor slide bases are a cost effective method of mounting electric motors, that may require adjustment to center distances or where re-tensioning may be required.

Manufactured from steel they have pre-machined slots to suit the corresponding motor frame size.

Range;
SL210 - SL490 (Motor frame sizes 63 - 180)

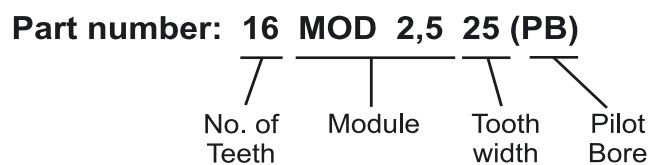


Gears & Racks

Gears and Racks are manufactured from C45 E UNI EN 10083-1 Steel and are produced to DIN 3962/63/67.

Both Bevel & Spur gears are available with standard pilot bore sizes, our in-house machine workshop can add the required bore and keyway sizes, in addition we can add grub screws or change the dimensions to suit your requirements.

Range;
Spur gears with boss (mod 1 - mod 6)
Spur gears without boss (mod 1 - mod 6)
Bevel gear pairs 1:1, 2:1, 3:1 & 4:1 (mod 1,5 - mod 5)





Male Rod End Bearings

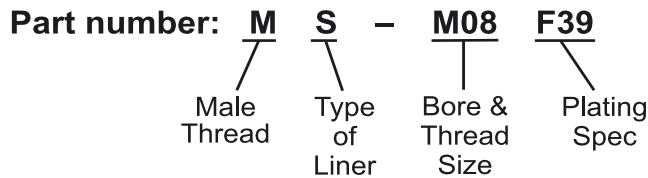
Male Rod End bearings are available in a wide range of designs and materials, metric and imperial threads both right and left handed and metric and imperial bore sizes.

Materials include Steel, Stainless Steel and Aluminium and are plated or anodised to the colour of your choice with GR-Nylon, Bronze, Polyurethane and PTFE liners.

Range;

MP-M (3 - 25mm bore and thread sizes)	MP- (3/16" - 1" bore and thread sizes)
MB-M (3 - 25mm bore and thread sizes)	MB- (3/16" - 1" bore and thread sizes)
MH-M (3 - 25mm bore and thread sizes)	MH- (3/16" - 1" bore and thread sizes)
MS-M (3 - 25mm bore and thread sizes)	MS- (3/16" - 1" bore and thread sizes)

Metric rod ends are based on DIN 648 specifications and imperial rod ends are based on SAE J1120 specification. All products are ELV and RoHS compliant.



CHAIN DRIVES
& HARDWARE
(VALUE RANGE)



Female Rod End Bearings

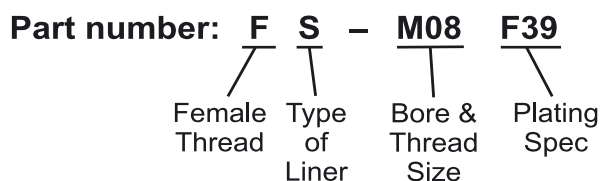
Female Rod End bearings are available in a wide range of designs and materials, metric and imperial threads both right and left handed and metric and imperial bore sizes.

Materials include Steel, Stainless Steel and Aluminium and are plated or anodised to the colour of your choice with GR-Nylon, Bronze, Polyurethane and PTFE liners.

Range;

FP-M (3 - 25mm bore and thread sizes)	FP- (3/16" - 1" bore and thread sizes)
FB-M (3 - 25mm bore and thread sizes)	FB- (3/16" - 1" bore and thread sizes)
FH-M (3 - 25mm bore and thread sizes)	FH- (3/16" - 1" bore and thread sizes)
FS-M (3 - 25mm bore and thread sizes)	FS- (3/16" - 1" bore and thread sizes)

Metric rod ends are based on DIN 648 specifications and imperial rod ends are based on SAE J1120 specification. All products are ELV and RoHS compliant.



MEDWAY®



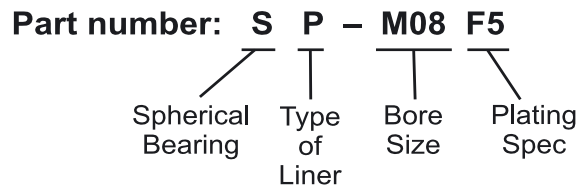
Spherical Bearings

Spherical bearings are available in a wide range of designs and materials, including Steel, Stainless Steel and Aluminium and are plated or anodised to the colour of your choice with GR-Nylon, Bronze, Polyurethane and PTFE liners.

Range;

SP-M	(3 - 25mm bore size)	SP-	(3/16" - 1" bore size)
SPH-M	(6 - 16mm bore size)	SPH-	(3/16" - 1" bore size)
GE-ES	(6 - 140mm bore size)	GEZ-	(1/2" - 3-1/2" bore size)
GE-UK	(6 - 120mm bore size)	COM-	(3/16" - 1" bore size)

Metric spherical bearings are based on DIN 648 specifications and imperial spherical bearings are based on SAE J1120 specification. All products are ELV and RoHS compliant.



CHAIN DRIVES
& HARDWARE
(VALUE RANGE)



Ball Joints

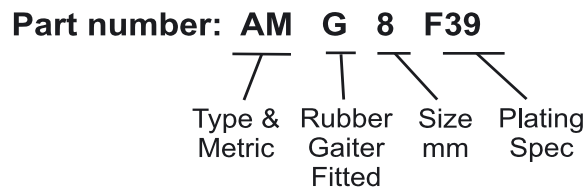
Ball Joints are available in a wide range of designs and materials, light-weight nylon, die cast zinc alloy, steel and stainless steel are available in styles incorporating retaining springs, safety clips, swaging, nylon liners and detachable studs.

Range;

A, BL, BM, C, D, F, I, M, P, Q & T series

Metric ball joints are based on DIN 648 and imperial ball joints are based on SAE J1120 specification.

All products are ELV and RoHS compliant.



MEDWAY®





Clevises

Clevis joints, also known as 'yoke' or 'fork' ends, are available in both metric and imperial thread and hole sizes. Folding spring pins along with standard clevis pins are available to ease assembly of clevises with their mating parts.

Range;

GM series (Metric clevis)

ESM (Metric folding spring pin)

NBM (Metric clevis pin)

DEM (Metric clevis pin)

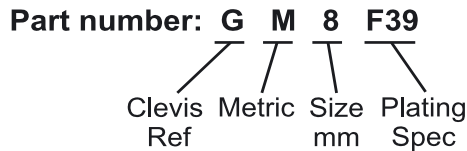
GI series (Imperial clevis)

ESI (Imperial folding spring pin)

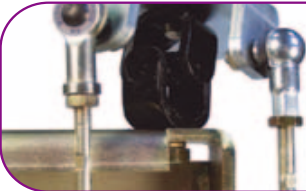
NBI (Imperial clevis pin)

DEI (Imperial clevis pin)

Metric Clevis components are based on DIN 71752 and all imperial on DIN 71802, all items are ELV and RoSH compliant.



CHAIN DRIVES
& HARDWARE
(VALUE RANGE)



Linkages

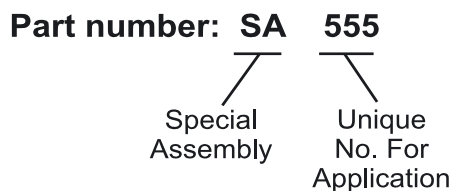
Rod-based linkage assemblies comprise typically of a linkage rod, and two linkage components, such as a clevis, rod end or ball joint attached to each end, the centers of the components might be set to a pre-determined distance.

Medway is the UK's market leader for linkage related components, as shown in the previous pages, but in addition we are able to produce a wide range of custom made linkage assemblies to suit individual customer requirements. Such assemblies are used in a wide variety of applications; agricultural, construction equipment, road sweepers, motor-sport, position sensors, lawn mowers, luxury cars... and so on. To assist you our design team are on hand to help with design and application requirements.

Range;

100% to individual customer applications.

All linkages are produced to tight dimensional tolerances and are ELV and RoSH compliant.



MEDWAY®

Our products

Orings

At IADA we stock all ranges of Orings including British Imperial (BS1806), British Metric (BS4518). European Metric (ISO/DIN 3601), including German (DIN 3771), Swedish (SMS 1586/1588) and French (NFT 47 501). American (SAE AS568A, MS 29 513) and Japanese Metric (JISB 2401).



Many of our Orings are available with various approvals FDA, WRC, WRAS, UL, DVGW, KTW, BGVV, KIWA, USP, NSF/ANSI, EN549, EN681-1, EN682 are just some of the approvals available.

All approvals can be provided with full certification.

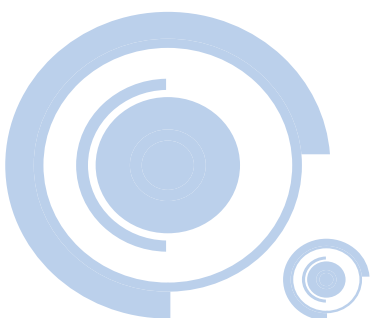
Bonded Seals

Our huge stock holding of Bonded Seals makes IADA many engineers first choice when faced with assembly downtime. All ranges are stocked in standard and self centred with a wide choice of elastomers and metals to suit your application. Consignment stocks are available, for more information please contact our sales department to discuss further.



Circlips

Both standard and non-standard ranges are stocked by IADA. Our range includes parts manufactured by Beneri, Rotor-clip and Cirteq. Our main stock holding is produced from Carbon spring steel and Stainless steel. However IADA offers a quick turnaround plating facility for those special requirements. IADA also carries a comprehensive range of E-clips, Wire rings, Snap rings and numerous other Fastener supplies.








Many of our Orings are available with various approvals

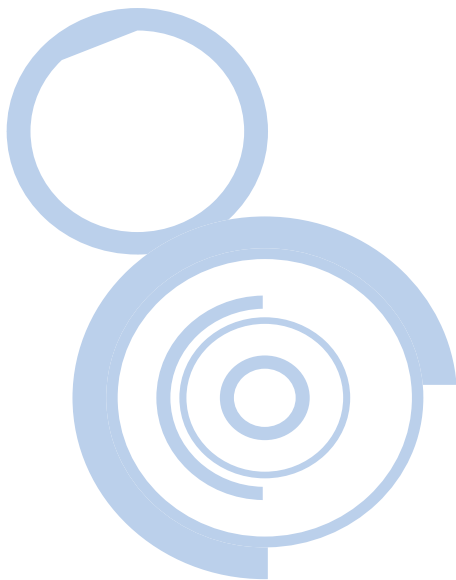


Oil Seals

With our extensive Oilseal stock of over 8,000 different sizes and various styles, IADA is an ideal choice to service your production and replacement part requirements.

Brands available include NTK, TTO, NAK, MFC, GUFERO, FREUDENBERG, NOK, CR, NATIONAL, PIONEER WESTON, STEMCO , GOETZE, GARLOCK, KACO, PAYEN, JM CLIPPER, STEFA, AEROQUIP, MERKEL, CORTECO AND MORE

	Rubber Covered Single Lipped	Rubber Covered Double Lipped	Metal Cased Single Lipped	Metal Cased Double Lipped	Totally Metal Cased Seal
					
Pioneer	R21	R23	R4	R6	R1
Stefa	CB	CC	BB	BC	DB
Nok	SC	TC	VC1	SB	SA
Garlock	92	94	71, 91	76	68
Freudenberg	BA	BASL	B1	B1SL	B2
Chicago-Rawhide			CRW1	CRWA1	CRWA1
Kaco	DG	DGS	DF	DFS	DFK
Goetze	827N	827S	822N	822S	824S



Over 8,000 different sizes and various styles

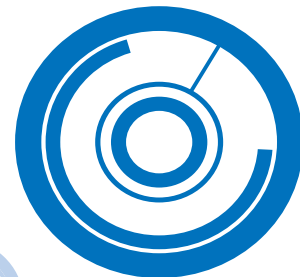


Kits

Oring kits, Bonded Seal Kits, Circlips kits, Copper washer kits, Fibre Washer kits, Splicing kits are just some of the off the shelf kits available.

Other quality products stocked at IADA include:

- V Rings
- Gamma Seals
- RJT Orings
- Back up Rings
- VK Seals
- U seals
- Distributor Seals (DE & DI)
- Gland Packing
- Hydraulic Seals
- Selon Washers
- Seloc Washers
- Oring Cord
- Quad Rings
- Speedi – Sleeves
- Rubber Sheeting
- PTFE BAR
- Lubricants and Greases
- Safety Equipment
- Gaskets



We also have a unique in house kitting facility



Special Parts

Our extensive capabilities continue with our moulding facility. IADA is able to manufacture and supply high performance moulded Orings and rubber components to various industries.

There are no minimum order values and more importantly for that critical application all orings are molded. We Produce from all common elastomers many of which are able to operate in extreme conditions. Our extensive offer of elastomers includes the worlds most specified elastomer, Viton®.

There are three major generally used grades of Viton® fluoroelastomer: A, B and F. They differ primarily in their resistance to fluids, and in particular aggressive lubricating oils and oxygenated fuels. Such as methanol and ethanol automotive fuel blends. There is also a class of high performance Viton® grades: GB, GBL, GP, GLT, ETP, and GFLT.

SEALS



Our extensive capabilities continue with our moulding facility



The following materials and advanced versions of them are available in a number of colours and shore hardness.

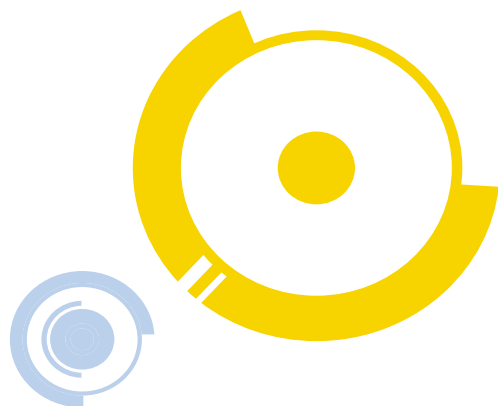
- Nitrile (Buna-N)
- Viton® (FPM, FKM)
- Neoprene® (CR)
- EPDM
- Silicone (VMQ)
- High Nitrile
- Aflas® (Tetrafluoroethylene Propylene, FEPM)
- Fluorosilicone (FVMQ)
- Polyurethane
- HNBR
- SBR (Styrene-Butadiene)
- Natural Rubber
- Polyacrylate (ACM)
- Butyl (IIR)
- PTFE
- Hypalon®
- Vamac® (AEM) - Ethylene Acrylic
- Perfluoroelastomers
- XNBR -Carboxylated Nitrile
- ECO - epichlorohydrin rubber
- PTFE Encapsulated



Many of the above are available with various approvals, including full certification FDA, WRC, WRAS, UL, DVGW, KTW, BGVV, KIWA, USP, NSF/ANSI, EN549, EN681-1, EN682 are just some of the approvals available.

All approvals can be provided with full certification.

Lifting the Ceiling on Sealing



SEALS

Material temperature ranges

Nitrile (Buna-N, NBR)

-30°F to 250°F (-34°C to 121°C)

EPDM (Ethylene Propylene, EPM)

-70°F to 300°F (-57°C to 149°C)

Neoprene® (Chloroprene, CR)

-35°F to 225°F (-37°C to 107°C)

SBR (Styrene-Butadiene)

-70°F to 225°F (-57°C to 107°C)

Silicone (VMQ)

-65°F to 450°F (-54°C to 232°C)

Butyl (IIR)

-75°F to 250°F (-59°C to 121°C)

Polyacrylate (ACM)

-5°F to 350°F (-21°C to 177°C)

Hypalon®

-20°F to 250°F (-29°C to 121°C)

Viton® (Fluorocarbon, FKM)

-15°F to 400°F (-26°C to 205°C)

Polyurethane

-40°F to 180°F (-40°C to 82°C)

Fluorosilicone (FVMQ)

-100°F to 350°F (-73°C to 177°C)

Aflas® (Tetrafluoroethylene Propylene, FEPM)

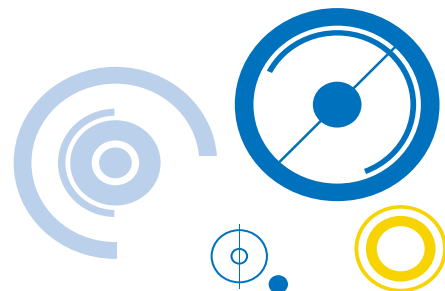
25°F to 450°F (-4°C to 232°C)

Kalrez® (Perfluoroelastomer, FFKM)

-15°F to 600°F (-26°C to 316°C)

Viton® Neoprene® Vamac® Hypalon® Kalrez® are registered trademarks of DuPont Dow Elastomers

Aflas® is a registered trademark of the Asahi Glass Co.
All technical information supplied in this brochure is for guide only











HYDRAULIC OIL SUPER 32/46/68 FG



- Fully synthetic, transparent, odourless hydraulic fluids based on Poly Alpha Olefins (PAO)
- NSF H1 registered for use where incidental food contact may occur
- Operates over a wide temperature range and demonstrates excellent low foam characteristics
- Provides excellent protection against wear of hydraulic system components

	32		46		68
	30265-AA		30267-AA		30270-AA
	30266-AA		30268-AA		30271-AA



40+

- An engineers essential 'cure-all' product
- Quickly frees seized nuts, bolts and fasteners
- High corrosion protection and water displacement properties
- Safe on most paints, plastics and rubbers

	31564-AA		31563-AA
	31532-AC		31711-AA
			31712-AA



MACHINE OIL FG



- NSF H1 registered for use on metal-to-metal moving parts such as hinges
- Can be used as an anti-corrosion coating for metal in high humidity conditions
- Creates a highly effective lubricating and anti-friction film

	30247-AA		30255-AA
---	----------	---	----------



PENETRATING OIL

- Frees seized components rapidly
- Lubricates fine and close tolerance threads
- Contains MoS2
- Softens rust and carbon deposits

	30240-AA		32117-AA
---	----------	---	----------



SILICONE LUBRICANT


- Odourless, colourless and non-staining
- Exhibits excellent slip properties on blades, tables, chutes and conveyors
- Safe on wood, glass, fabrics, metals, rubbers and most hard surfaces
- WRAS approved

	31631-AA	
---	----------	---



SILICONE ANTI-STICK

- Concentrated silicone lubricant
- Helps prevent jams, inhibits adhesive build up on blades and sealers
- Odourless, tasteless, colourless and chemically inert
- Operational temp range: -50C to +200C

	31572-AA
---	----------



SILICONE FG



- NSF H1 registered for use in the food and beverage industry
- Eliminates squeaking, binding and sticking
- Highly water-resistant and repels water from treated areas
- Use on high-speed bagging lines and on chutes/slides

	30248-AA
---	----------



GEAR OIL SUPER 150/220/320 FG



- Fully synthetic, transparent, odourless gear oils based on Poly Alpha Olefins (PAO)
- NSF H1 registered for use where incidental food contact may occur
- Excellent lubricity with EP additives for proven anti-wear performance. Ideal for use on highly loaded gears and gears subjected to extremes of temperature

150	220	320
 30272-AA	 30274-AA	 30276-AA
 30273-AA	 30275-AA	 30277-AA

COPPER ANTI-SEIZE




- Use on threaded fasteners to prevent seizing during prolonged maintenance intervals
- Formulated with micro-ionised copper and anti-oxidant additives
- Good protection even in highly corrosive environments
- Reduces friction and wear

 30303-AA  30239-AA

DRY MOLY SPRAY




- Use in higher load applications where PTFE lubricants would fail, but a dry film is still required
- Tough and long lasting
- Operational temp range: -150C to +400C
- Use as a running-in treatment on rolling and sliding bearings

 31576-AA

GEAR & WIRE ROPE LUBRICANT



- Deep penetration for internal protection of wire ropes
- Forms a dry non-peeling film that overcomes the limitations of grease lubrication
- Can be applied to gears in motion and is suitable for all running speeds

 31583-AA

MOISTURE REMOVER FG




- Prevents corrosion by displacing moisture
- Provides precision lubrication with its thin, high dielectric strength, lubricating film
- NSF H2 registered, ideal for use on electronics in the food & beverage industry
- Can be used as a multi light purpose lubricant

 30260-AA

AMBERGLIDE



- Use where temperatures regularly reach a sustained +120C to +160C
- Provides long lasting durable film
- Significantly increases re-lubrication intervals
- PTFE fortified lubricant
- Displaces moisture

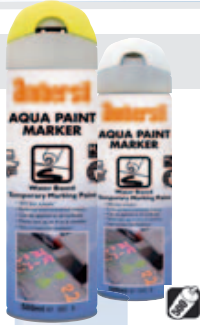
 31571-AA

ASSEMBLY PASTE FG



- Prevents seizure of threaded components enabling easy and quick dismantling
- Particularly effective as an anti-seize on oven fans
- NSF H1 registered



 31587-AA  31586-AA



AQUA PAINT MARKER

- Environmentally preferred temporary marking paint
- Highly visible colours that last 4-6 months and can be removed sooner with soapy water and a brush
- Unique 360 spray system for use at all angles, even vertically
- ONE-CLICK safety cap prevents accidental discharge in transit
- Ideal for industries where environmental impact and product performance are critical

 32050-AA
 32053-AA

 32051-AA
 32054-AA


 32052-AA
 32055-AA



CHAIN LUBE FG



- NSF H1 PTFE chain lubricant for use above the food line
- Excellent penetration and lubrication properties
- Can be used as a general, heavy duty, PTFE lubricant
- Leaves a tenacious, long lasting lubricating film


 30245-AA

 30278-AA



CHAINSPRAY

- Molybdenum Disulfide (MoS₂) fortified chain lubricant
- Offers maximum adhesion to chain links with excellent penetration
- Resists 'water wash off' and dust absorption
- High temperature resistance up to +200C
- Ideal for fast moving or exposed chains

 31575-AA



BELT DRESSING FG



- Apply to all types of belt to increase grip, reduce squeak and prolong life
- Protects belts from deterioration through oxidation and heat
- NSF H1 registered
- Use on belts subjected to wet environments

 30257-AA



AMBERGREASE FG1



- NSF H1 registered, white, NLGI type 2, aluminium complex grease
- Very good extreme pressure performance: 4-ball weld load: >200Kg
- Use in areas subjected to moist or wet operating conditions
- Ideal for all types of bearings and rails/ surfaces in low temperature areas

 31584-AA



AMBERGREASE FG2



- NSF H1 registered, translucent, NLGI type 2 silicone grease
- Operational temp. range: -20C to +220C
- Shell Four Ball Weld Load (IP 239): 180Kg
- Use on bearings subjected to high temperatures such as oven conveyors, oven fan bearings and bakery lines


 31585-AA



AMBERGREASE EXL

- Highly visible red, NLGI type 2 grease, Lithium-Calcium Complex thickened
- Suitable for use in all types of anti-friction sliding surfaces and plain bearings
- Exceptional load carrying capacity: 4-ball weld load >800Kg
- Use on critical and high load bearings and sliding surfaces







 30304-AB

 31574-AA



PAINT MARKER HD

- Acrylic Paint Pen with abrasion resistant nib
- Long-lasting vibrant colours
- Rapid drying
- Ideal for marking rusted surfaces

 32067-AA	 32068-AA	 32069-AA
 32070-AA	 32071-AA	 32072-AA



FOOD GREASE FG



- NSF H1 registered, NLGI type 2, white grease, aluminium complex thickened
- Use on plain bearings and hinges. Particularly useful for limited access areas where regular grease penetration may be difficult
- Operational temp. range: -50C to +165C
- High corrosion protection and water displacement properties

 30259-AA



HI-LOAD LUBE FG




- Heavy duty / high pressure resistant grease
- NSF H1 registered, NLGI type 2, white, aluminium complex thickened grease
- Operational temp range: -40C to +180C
- Use on heavily loaded bearings and components
- 4-ball weld load >400Kg

 30279-AB  31966-AA



AMBERKLENE FE10

- Fast and effective solvent degreaser for use on chains, gears, cogs, motors and more
- Fast evaporation that does not leave a residue
- Powerful flushing action, rapidly removes contaminants
- Safe for use on ferrous and non-ferrous metals and most plastics

 31553-AA  32116-AA
 31563-AF  30308-AA  31697-AA



AMBERKLENE ME20

- Heavy-duty cleaner for extra stubborn soiling which requires a longer contact time
- Removes heavy deposits of oil and grease, waxes and silicones
- Higher flash point of +41C
- Leaves a clean, dry surface

 31554-AA  31636-AB
 31698-AA  30309-AA



AMBERCLENS

- Multipurpose foaming cleaner
- Use to remove general grime and soiling on all hard surfaces or on upholstery to gently lift out grime
- Quick and easy use. Spray on, wipe off
- Anti-static formulation inhibits dust attraction

 31592-AA  31593-AA
 31759-AB  31594-AA (NON-FLAM)



AMBERCLENS FG
























- NSF A1 registered for general cleaning in the food industry
- Use to remove grime or soiling from equipment, metal parts and machinery
- Foaming action helps break down soiling for effective cleaning
- Stable, non-dripping foam

 30241-AA



ACRYLIC PAINT

- RAL referenced for accurate colour matches
- Fast drying <5 minutes
- Good flexibility and hardness
- Once dry it has a high UV resistance
- Available in 400ml spray can

 20180-AA MATT BLACK	 20555-AA	 20191-AA
 20181-AA MATT WHITE	 20556-AA	 20192-AA
 20182-AA GLOSS BLACK	 20557-AA	 20193-AA
 20183-AA GLOSS WHITE	 20558-AA	 20194-AA
	 20559-AA	
	 20189-AA	
	 20190-AA	
	 32060-AA SATIN BLACK	
	 20185-AA	
	 20186-AA	
	 20187-AA	
	 20188-AA	
	 20195-AA	



AMBERTRON

- Ultra pure contact cleaner for mission critical electronics maintenance
- Very fast evaporation
- Excellent material compatibility. Safe for use on glass, metals, plastics and rubber
- Quick and efficient cleaning


 31552-AA  31694-AA  31695-AA



CONTACT CLEANER FG



- NSF K2 registered
- Use to remove grime and contamination from PCB's and contacts
- Non-conductive and non-corrosive
- Prolongs the life expectancy of components
- Reduces voltage drops due to contamination

 31588-AA



IPA SOLVENT


- Gentle, yet highly effective alcohol based cleaning solvent
- Excellent material compatibility, safe to use on plastics and rubber
- Particularly effective on production line optical devices. Also removes moisture
- Evaporates to leave a clean, dry surface

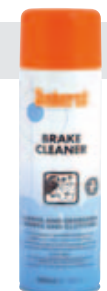
 31713-AA  31569-AA
 31714-AA  31716-AA  31715-AA



AIR DUSTER


- Powerful, dry, inert gas that removes dust and loose debris from electronics
- Safe on all surfaces, including delicate sensors and electronics
- Non ozone depleting, does not contain CFC's or HCFC's
- Zero odour in use

 31570-AA



BRAKE CLEANER


- Effectively removes brake fluid, grease, oil and hardened deposits instantly
- Safe on metals, most plastics, coatings and rubbers (always test prior to use)
- Removes anti-corrosion coating on new brake discs prior to fitting
- Reduces disc-brake squeal and clutch

 30282-AA  31772-AA



FAST CLEAN 200

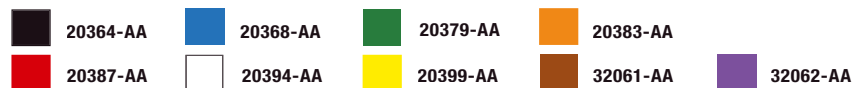
- Powerful degreaser for removing oil, grease, tar, bitumen and other tough soiling
- Safe on all metals, test on plastics before use
- For use where a chlorinated solvent cannot be used but a high solvency power and very fast evaporation are still required
- Dries to a residue free finish

 31890-AA



MARKER PEN

- Use for metal working/fabrication, electrical installations, machine construction, civil engineering, or general component identification and quality control checks
- Tenacious resin binds paint to the writing surface almost eliminating the problems associated with accidental rub-off and will not wash off with water/rain



SUGAR REMOVER & INHIBITOR FG

- Dual action: Softens sugar whilst oil removes sugar bond to metal surfaces
- NSF H1 registered
- Helps reduce scraping, improves equipment performance
- Leaves a light lubricating film that inhibits re-adhesion



32082-AA



31590-AA



LABEL & ADHESIVE REMOVER FG

- Use to remove labels from shipping containers, packing boxes and bulk storage
- NSF K3 registered
- Removes paper labels in 3 mins
- Improves packaging line efficiency by reducing jamming caused by label and adhesive build-up



30254-AA



TOUGH WIPES

- Highly effective on a range of soiling types tar, resins, oils, paints and more
- Contains anti-pathogen agents effective against common bacteria and viruses such as Weil's Disease, MRSA and E. Coli
- Cleaner and towel together in one convenient wipe



30766-AA



30767-AC



HAND CLEANING WIPES

- Use for cleaning light to medium grime from hands, tools and equipment
- Combats common germs
- Economical hand cleaning
- Keeps expensive hand-tools clean



31798-AA



SOLID MARKER

- Solid paint stick for rough and hard surfaces
- Use on difficult surfaces such as concrete, timber and stone
- Nib can be 'sharpened' for more detailed lines
- Marks are highly visible, long-lasting and resistant to wash-off



32065-AA



32066-AA



5024A SILICONE SEALANT

- Ready to use, one part silicone sealant suitable for use as a general purpose sealing and bonding agent, a space filling rubber adhesive, or formed-in-place gasket
- High modulus & Non-slump
- Offers good adhesion to glass, glazed ceramics, aluminium and metal



30730-AA



30732-AA



30735-AA



31753-AA



31753-AB





TUF CUT

- Range of specialist metal cutting lubricants based on a mixture of lubricants, extreme pressure additives and anti-oxidants
- Ready-to-use products that provide exceptional performance in demanding applications
- Suitable for use on a wide range of metals, including stainless and high carbon steels.

- | | | | |
|--|---|---|---|
|  31579-AA (SPRAY) |  31580-AA (LIQUID) |  31581-AA (COMPOUND) |  30313-AA (AQUA) |
|  31582-AA (FOAM) |  31723-AA (LIQUID) |  31724-AA (COMPOUND) |  30314-AA (AQUA) |



FLAW DETECTOR

- Highly effective system that can be used anywhere, simply, and without complicated test equipment
- Simple, economical and cost effective
- Can be applied direct to the component to be tested without the need for dismantling
- Fast acting visual results

- | | | |
|--|--|--|
| CLEANER | PENETRANT | DEVELOPER |
|  30288-AA |  30289-AA |  30290-AA |



RUST CONVERTER


- Restores rusted metal to form a sound, paintable, and protected surface
- Easy and ready to use - not necessary to paint afterwards
- Reduces the need for brushing/grinding back to bare metal, saving time and money
- Non corrosive product

-  30301-AA



LEAK DETECTOR

- Water-based formulation, no oils, silicones or harmful solvents; no 'run-off' hazard
- Non-flammable and completely odourless
- Ideal for preventative maintenance checks, new installation checks, and on all HVAC systems

-  31633-AA  31781-AA



EASY WELD

- Biodegradable solvent anti-spatter
- Easy removal of spatter by light brushing after welding
- Economical in use due to its thin film performance
- Helps keep treated nozzles clear for optimal gas flow
- Non-silicone, heat resistance barrier

-  30287-AA



BIOWELD

- Water-based spatter release agent which gives exceptional results without the use of harmful solvents or silicones
- Odourless, non-flammable and safe in use
- Allows post welding operations, painting etc to be undertaken without interference
- Contains rust inhibiting agent

-  31621-AA  31775-AA  31776-AA



SPATTER RELEASE

- Traditional, non-flammable, solvent based spatter release formulation
- Prevents spatter adhesion on welding equipment, work pieces, jigs and surrounding areas
- Does not affect post welding operations
- Anti-spatter film is easily wiped away

-  31620-AA



GALVA COLOUR

- 2-in-1 anti-corrosion primer and colour top coat
- Easy application with fast results
- Ideal for external pipe-line identification, railings, security fences, and storage tanks
- RAL colours for accurate colour matches



BRIGHT, COLD GALVANISE

- Barrier coating protects metalwork and steels from corrosion
- For use on bare, non-rusted steel and seams
- Weathers at same rate as surrounding hot-dip zinc layer for 'invisible' repairs
- Long lasting corrosion protection

 30292-AA



COLD GALVANISE

- 99% pure zinc at 88% concentration in cured film for maximum protection and adhesion to the metal
- Maximum anti-corrosion protection
- Ideal for pipes, housings, and structural metals exposed to the weather
- Can be used as a primer

 30291-AA



CORROSION INHIBITOR


- Use on ferrous metal as a long-term protective coating for stored equipment
- Film will not harden or crack
- Can be used as an anti-seize/anti-rust treatment for fasteners
- Forms a 'self repairing' waxy film

 31628-AA  31708-AA  31709-AA



CLEAR MOULD PROTECTIVE

- Repels and displaces moisture, leaving a durable, clear, protective film
- Will not stain the moulding, recommended for use with clear or white polymers
- Protective film allows handling, and will resist acid finger marks
- Easily 'moulded-off'

 31547-AA



FORMULA 6

- A medium duty, silicone mould release agent
- Improves surface finish and will not build up in the mould
- Also useful as an anti-stick agent in the textiles, printing and shoe industries
- Operational up to +200C

 31535-AA  31680-AA



FORMULA 5

- Medium duty, non-silicone release agent
- For release of all types of thermoplastics, some thermosetting plastics, silicone rubber and many other types of rubber
- Does not build up in the mould
- Operational up to +150C

 31540-AA  31679-AA

65 years ago Ambersil began manufacturing products developed to meet the most exacting standards of industry.

Ambersil has grown to become a true 'single source' supplier for industrial aerosols and chemicals. We provide maintenance professionals with exceptional product quality and performance, whilst maximising value for money. The Ambersil MRO product range is your strategic maintenance chemical partner.

Ambersil



Ambersil
YOUR COMPLETE CHEMICAL SOLUTION

**CLEANERS / DEGREASERS
LUBRICANTS
GREASES & OILS
ANTI-CORROSION
PAINTS & PENS
METAL WORKING
POLYMER PROCESSING**



Targeting
Cleaning / Degreasing



Targeting
Lubrication, Oils, & Greases



Targeting
Anti-Corrosion & Paints



Targeting
Welding



Targeting
Metal Working



Targeting
Fault Finding



Targeting
Workshop Additions



Targeting
Polymer Processing



Targeting
Food / Beverage / Pharma

FAG



The lubricants available from the Schaeffler Group are designed and tested for bearing arrangement engineering.

The Arcanol rolling bearing greases offer very good preconditions for favourable running behaviour of bearings and a long operating life and high operational security of the bearing arrangement.

The lubricant range is graduated such that almost all areas of application are covered.

Grease	Thickener	Operating temp °c	Tube			Cartridge	Can	Bucket		Hobcock	Drum
			20g	70g	250g	400g	1Kg	5kg	10kg	25kg	180kg
MULTOP	Lithium soap with EP additives	-40 to +150			•	•	•	•	•	•	•
MULTI2	Lithium soap	-30 to +140	•		•	•	•	•	•	•	•
MULTI3	Lithium soap	-30 to +140			•	•	•	•	•	•	•
LOAD220	Lithium/calcium soap with EP additives	-20 to +140					•		•	•	•
LOAD400	Lithium/calcium soap with EP additives	-25 to +140				•	•	•	•	•	•
LOAD1000	Lithium/calcium soap with EP additives	-20 to +140						•		•	•
TEMP90	Calcium polycarbamide with EP additives	-40 to +160	•			•	•	•		•	•
TEMP110	Lithium complex soap	-40 to +160				•	•				
TEMP120	Polycarbamide with EP additives	-35 to +180					•	•		•	
TEMP200	PTFE	-40 to +260		•			•				
SPEED2,6	Polycarbamide	-50 to +120			•		•			•	
VIB3	Lithium complex soap with EP additives	-30 to +150				•	•	•		•	
BIO2	Lithium/calcium soap	-30 to +150				•	•		•	•	•
FOOD2	Aluminium complex soap	-30 to +120				•	•		•	•	•

READY BOOSTER

THE NEW SINGLE POINT LUBRICATOR FROM NTN-SNR



READY BOOSTER Benefits

- Significant savings due to the flexibility of use (1-12 months and stoppable)
- Suitable for tight and restricted areas (125 cm³)
- Ready to use: no assembly and no tools required
- Only one lubricator for all of your applications: inside and outside (-20°C up to 60°C)
- IP68 protection class: Reliable lubrication even in extremely moist and dusty areas

APPLICATIONS

Due to its compact size, the Ready Booster can be used in various applications:

- Bearings, Plummer block
- Chains
- Electrical motors, fans, pumps, conveyors, etc.

FOR YOUR APPLICATION, SELECT THE MOST SUITABLE GREASE FOR YOUR AUTOMATIC LUBRICATOR



UNIVERSAL



HEAVY DUTY +



VIB



HIGH TEMP



CHAIN OIL



FOOD AL



TECHNICAL INFORMATION

- Gas generating unit
- Reliable and economical
- Transparent cartridge
- Immediate activation (less than 1 day)

IP68 protection

Max. pressure 5 bars

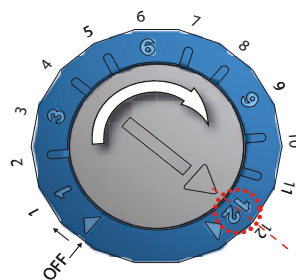
Discharge period from 1 to 12 months

Stoppable

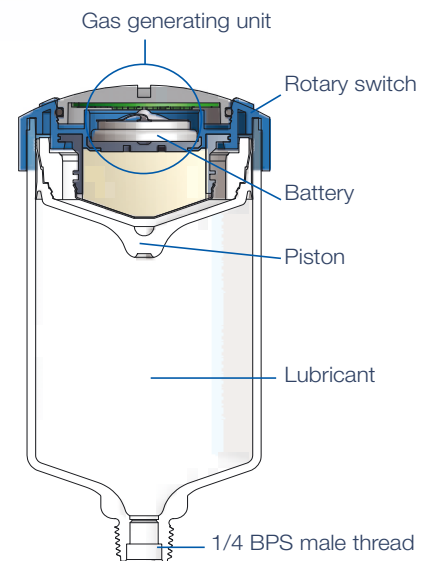
Capacity of 125 cm³

Operating temperatures: from -20°C up to +60°C

Several accessories available



Rotary switch for discharge period setting



Operating temperatures: from -20°C up to +60°C

LUBRICATION & MAINTENANCE

BONDLOC[™]

ADHESIVES & SEALANTS



Bondloc have been manufacturing adhesives in the UK for over 20 years and have built a worldwide reputation for manufacturing very competitively priced, high performance adhesives for a wide range of industries.

With over 2000 adhesive product formulations all available to the IADA group of distributors we have a solution for most bonding applications. Bondloc's highly experienced technical team are available to give you free advice on any bonding requirements that you may have.

If the product you require isn't shown here please contact your local IADA distributor who will be able to provide you with any product you require from the Bondloc range.

Bondloc Technical Desk: +44 (0)1299 269 269
www.bondloc.co.uk

THREAD LOCKING

Engineers Kit

Designed and manufactured by Bondloc UK, this easy to carry, tough reinforced plastic case, with expanded polystyrene interior, contains a range of Bondloc adhesives and sealant products which have proven to be the most frequently used by engineers across a broad spectrum of industries.



LUBRICATION & MAINTENANCE

Screwlock B222

Anaerobic adhesive for locking threads and preventing loosening. Seals out moisture to prevent corrosion. Ideal for small screws, circuit board fixings etc.

- ◆ Ideal for fine threaded components.
- ◆ Prevents loosening.
- ◆ Chemical resistant.
- ◆ Low strength.
- ◆ Temperature resistance -40 to +150°C.

Sizes:
25ml, 50ml, 250ml.



Nutlock B243

Oil tolerant adhesive for direct application to 'as received' parts. Locks threads and prevents loosening. Seals out moisture to prevent corrosion.

- ◆ Oil tolerant.
- ◆ Prevents loosening.
- ◆ Chemical Resistant.
- ◆ Medium strength.
- ◆ Temperature resistance -55 to +150°C.

Sizes:
25ml, 50ml, 250ml.



Studlock B270

Anaerobic adhesive for locking threads and preventing loosening. Use on all studs up to 1" diameter & coarse threaded bolts and casting interfaces.

- ◆ Locks threads.
- ◆ Prevents loosening.
- ◆ High breakaway strength.
- ◆ High strength.
- ◆ Temperature resistance -55 to +150°C.

Sizes:
25ml, 50ml, 250ml.



Superglue B401

General purpose adhesive for bonding most materials including metals, plastics, wood, ceramics, rubber, glass, card and leather.

- ◆ Surface insensitive.
- ◆ General purpose adhesive.
- ◆ Super fast cure.
- ◆ Medium viscosity.
- ◆ 110cP.
- ◆ Bonds in 5 seconds.

Sizes:
20g, 50g.



CYANOACRYLATES

Superglue B406

For bonding most rubbers and plastics, 'O' Rings and EFDM in seconds. Can be used with B770 Primer for difficult plastics and Elastomers.

- ◆ Fast cure.
- ◆ 30cP.
- ◆ Temperature resistance -40 to +100 C.

Sizes:
20g, 50g.



Superglue B454

Gap fill, non drip general purpose adhesive gel, suitable for bonding metals, plastics, wood, ceramics, metals, card, leather, plastics, rubber and many other absorbent materials.

- ◆ Instant thixotropic gel.
- ◆ Gap fills and non drip.
- ◆ Toughened.

Sizes:
20g.



Superglue - B480 Black

Rubber toughened adhesive for bonding most materials including plastics, rubbers, metals, card, glass and wood.

- ◆ Rubber toughened.
- ◆ Flexible.
- ◆ Black cyanoacrylate.
- ◆ 400cP

Sizes:
20g, 50g.



STRUCTURAL

Rapid 5 minute Epoxy - B2012

Bonds most materials including metals, plastics, wood, ceramics, rubber, leather, card, glass and many other materials.

- ◆ Ideal for non close fitting surfaces.
- ◆ Suitable for bonding and filling cracks.
- ◆ Good clarity
- ◆ Neutral in appearance.
- ◆ Cures in 5 minutes.

Size: _____
28ml



Plastic Weld B3294

Ideal for bonding most plastics including ABS, PVC, acrylics, and most reinforced plastics, styrene and vinyls. Metals and wood.

- ◆ Ideal for Bonding dissimilar surfaces, e.g. plastic to metal.
- ◆ Impact and fluid resistant.
- ◆ High strength.

Size: _____
28ml



GASKETING

Gasket Eliminator B518

For sealing flanges and gaskets on close fitting, rigid machined parts.

- ◆ Any shape or size of gasket can be made, replacing the need for pre-cut gaskets.
- ◆ For close fitting parts up to 0.5mm gap.
- ◆ Resists temperatures up to 150°C.
- ◆ Fast cure

Size: _____
50ml. 250ml.



Multi Gasket B574

Simple to apply, fast curing, flexible, scratch filling gasket maker that provides an instant low pressure seal.

- ◆ Seals rapidly.
- ◆ General purpose flange sealant to fill scratches and gauges up to 0.5mm.
- ◆ Works to a maximum continuous operating temperature of 150°C.

Size: _____
50ml. 250ml.



RETAINING

Retainer B603

Ideal for retaining bearings brushes and keyways.

- ◆ Use to bond all cylindrical close fitting parts up to 0.15mm gap, especially where thorough degreasing is not possible.
- ◆ Temperature resistance -55 to +150°C.

Size: _____
25ml, 50ml, 250ml.



Retainer B638

Increases torsional strength and enables slip-fitted parts to withstand higher cyclic loadings.

- ◆ Use to retain and seal heavy duty parts.
- ◆ Typical fixture time is 5 minutes.
- ◆ Temperature resistance -50 to +120°C.

Size: _____
25ml, 50ml, 250ml.



Bearing Fit B641

Recommended for use on parts that may need future dismantling.

- ◆ Gap fills to 0.2mm diametrically
- ◆ Replaces mechanical fixings.
- ◆ Medium strength.
- ◆ Temperature resistance -50 to +150°C.

Size: _____
25ml, 50ml, 250ml.



High Temp Retainer - B648

Ideal for high temperature - retention of parts with a clearance or interference fit, i.e. retaining bushes, fans, bearings, seals, liners etc.

- ◆ Retains slip & press fit parts.
- ◆ Replaces mechanical fixings.
- ◆ High strength.
- ◆ Temperature resistance -50 to +175°C.

Size: _____
25ml, 50ml, 250ml.



THREADSEALING

Hydraulic Seal - B542

B542 is used for all types of hydraulic connections, sealing against typical pressure line ratings, use to fit valves and threaded couplings.

- ◆ Ideal for all types of metal parts.
- ◆ Locks and seals hydraulic and pneumatic fittings.
- ◆ High pressure resistant.
- ◆ Medium strength.
- ◆ Temperature resistance -55 to +150°C

Size: _____
25ml, 50ml, 250ml



Stainless Steel Pipe Seal B567

Provides an instant seal at low pressures on stainless steel, copper and other metals.

- ◆ Lubricating Teflon particles smooth assembly and increase sealing tightness.
- ◆ Vibration proof and can withstand temperature and pressure changes.
- ◆ Temperature resistance -50 to +150°C

Size: 50ml
250ml



Pipe Seal - B577

Ideal for sealing pipes, pipe fittings and plugs and gives an instant low pressure seal.

- ◆ Seals threads and pipes up to 75mm.
- ◆ Replaces pastes, hemp and PTFE tape.
- ◆ Allows repositioning of parts or fittings.
- ◆ Will not shred, creep or shrink.
- ◆ Resists 10 bar pressure.
- ◆ Temperature resistance -55 to +150°C.

Size: 50ml
250ml



Hand Tools



Our most competitively priced hand tools which are still covered by a lifetime guarantee.



Our top-of-the-range hand tools suitable for daily use by the professional user. Designed and manufactured from the highest quality components, these tools are made to last a lifetime.

Gardening



Tried and tested traditional garden tools incorporate hardwood solid ash shafts with YD handles.



Top of the range tools incorporating the best quality, design and materials for long life.

Air Tools



The workshop range features traditional designs with proven reliability. These tools represent the very best value in everyday air tools yet are supported by our extensive after-sales service.



The Generation range incorporates some of the best designs in air tools of recent date. Features include soft grip handles and housings which help reduce vibration and chill, and exhaust systems designed to reduce noise levels.



Our Premier range offers the very best in performance and price backed with a 2-year guarantee. We specify the very highest quality components and manufacturing designs to ensure a long and durable life.

Jacking, Lifting & Towing



Our entry level range of hydraulic equipment. Designed for the professional user in a demanding workshop environment a good value for money.



Our top-range of hydraulic equipment, predominately manufactured in Europe to exacting standards.



The same quality as the 'Red' Premier range. These models are fitted with 'Rocket Lift' function which reduces the number of strokes needed to operate the unit.



Electric Power Tools



These tools offer good reliability at the very best value in everyday electric power tools. They still have the same professional support and after-sales service as with the rest of the Sealey range.



Traditional designs and proven workshop reliability define our Sealey Power Tool range. They represent the very best value in everyday power tools and are supported by our extensive after-sales service in exactly the same way as our high-end Premier range.



Our range of Premier Power Tools offer the very best in performance. We specify the very highest quality components and manufacturing designs to ensure a long and durable working life and are confident that these tools offer the best value around.

Storage & Workstations



Competitive range of Professional Topchests and Rollcabs featuring:

- ✓ Ball Bearing Drawer Runners.
- ✓ High gloss triple baked enamel finish.
- ✓ Tumbler type security locks.
- ✓ Heavy-duty castors.



Full range of Professional Topchests and Rollcabs:

- ✓ Heavy-Duty Ball Bearing Drawer Runners.
- ✓ Full Height Rear-Locking Mechanism.
- ✓ Models available in Red and Black.



Our top of the range Professional Topchests and Rollcabs:

- ✓ Self Locking Drawer Mechanism.
- ✓ Heavy-Duty Ball Bearing Drawer Runners.
- ✓ Full Range of Tool Trays available.
- ✓ Rollcabs feature Heavy-duty Worktable.
- ✓ Anti-shock Rubber Protection on all corners.



Range of Industrial quality cabinets, workbenches and accessories:

- ✓ Heavy-Duty Ball Bearing Drawer Runners.
- ✓ Heavy gauge steel with powder coating for rust and solvent protection.
- ✓ Cabinets feature partitioned drawers with high load bearing capacity.
- ✓ Self locking drawer mechanism with high quality lock and coded keys.

EXPERTS & TOOLS: THE TOOLS



MOUNTING & DISMOUNTING TOOLS:

Mounting and dismounting a bearing: these essential stages determine the life span of the installation as well as its correct operation.

Experts
& Tools



Cold mounting:

The tool case for a quick and accurate bearing fitting in complete safety.



Hot mounting:

Induction heating: Practical, simple, safe, environmentally-friendly ... What else?



Hydraulic mounting:

Precise, effortless with a revolutionary nut, always ready for use thanks to its "back & forth" feature!



Dismounting tools:

Hydraulic or mechanical dismounting:
All kinds of pullers (2 or 3 arms) for a safe and clean operation whatever the position and the size of the bearing.



Instruments:

Simple, safe and precise monitoring of operating machine temperature with a laser pointer thermometer.

And more tools for bearing fitting and handling...



Tellure Rôta institutional & industrial wheels and castors

Tellure Rôta has been manufacturing wheels and castors in Italy since 1953 and today they offer a significant range of institutional and industrial wheels and castors for all industry applications.

The wheels vary in size from 40mm to 400mm and the carrying capacities from 40kg to 3500kg. Most wheels are available in standard duty zinc plated and stainless steel swivel, swivel braked and fixed castor plus heavy duty pressed steel and fabricated castors.

The wheel types are: **Rubber** - standard, elastic and thermo plastic
Polyurethane - injected, cast, elastic injected and cast and Vulkoprin
Nylon (Polyamide) - injected
Resin - up to 300° centigrade
Cast iron

The wheels and castors shown on the following pages are believed to be the most commonly required products from the tellure Rôta range. These pages only represent approximately 1/3 of the total tellure Rôta range so if you cannot find what you require please ask.

Most of the range of tellure Rôta products is held, in stock, in the UK so deliveries can usually be made in 2-3 days. Should larger quantities, that require manufacturing, be required then the typical lead time is 15 working days.

Tellure Rôta products are made to a high standard (TUV accredited) and are competitively priced.

Selecting wheels and castors


The specification of tellure Rôta wheels and castors is stated as a consequence of testing wheels and castors in accordance with ISO 22878:2004 and ISO 22883:2004.








There are five environmental factors that affect the performance of a wheel or castor and these are: load capacity, speed of travel, ambient temperature, floor conditions and cycle time. These must all be considered when selecting a wheel or castor. Please also consider the issue between softer wheel treads (quieter running but carry less load than the same sized harder tread wheel) and harder tread wheel (noiser, carry more load but can damage floors).

















 **Series 36 - Injection moulded polyurethane tyred nylon centre plain bore wheel**


- A 'heavier' duty institutional castor.
- Zinc plated pressed steel castor housing.
- Suitable for environments where atmospheric agents, alcohol, glycol, mineral and organic acids, base solutions and saturated vapour are present.
- Temperature 0° to +40°C
- Tested in accordance with ISO 22878:2004
- Manufactured in accordance with ISO 22881:2004












Wheel 


							 plain bore
40	18	8	22	40	0.02	361101	
50	18	8	22	55	0.03	361102	
60	25	8	28	70	0.06	361103	












Square Top Plate Castors 

									 swivel		 fixed		 swivel + brake	
40	18	59	42x42	32x32	5	23	76	40	0.11	364301	0.11	365101	0.13	368101
50	18	66	55x55	40x40	6	24	76	55	0.13	364302	0.12	365102	0.16	368102
60	25	83	60x60	45x45	6	21	84	70	0.24	364303	0.21	365103	0.28	368103

Round Top Plate Castors with Bolt Hole 

									 swivel		 swivel + brake
40	18	59	35	10	23	76	40	0.10	363101	0.12	367101
50	18	66	35	10	24	76	55	0.11	363102	0.13	367102
60	25	83	42	13	21	84	70	0.21	363103	0.25	367103

Round Top Plate Castors with Threaded Stem 






















									 swivel		 swivel + brake	
40	18	59	M10	20	35	23	76	40	0.12	366301	0.14	369101
50	18	66	M10	20	35	24	76	55	0.13	366302	0.16	369102
60	25	83	M12	25	42	21	84	70	0.24	366303	0.28	369103

Series 37AE - Grey rubber small wheel and castors

- Grey non-marking rubber tyre on a black nylon centre including threadguards.
- Plain bore.
- Light duty applications.
- Zinc plated pressed steel castor housings.
- Suitable for humid environments with medium/harsh chemicals but not suitable for applications where organic solvents, chlorinated substances, hydrocarbons and mineral oils are present.
- Temperature 0° to +40°C
- Tested in accordance with ISO 22878:2004
- Manufactured in accordance with ISO22881:2004











Plain Bore Wheel including Threadguards and Axle Set



									
50	18	8	22	35	0.06	37AE1101			
60	22	8	28	50	0.10	37AE1102			
80	24	8	28	55	0.17	37AE1103			
100	23	8	28	60	0.22	37AE1104			










Square Top Plate Castors



										
50	20	67	55x55	40x40	6	24	76	35	0.20	37AE4101
60	24	83	60x60	45x45	6	21	84	50	0.28	37AE4102
80	24	104	60x60	45x45	6	25	91	55	0.37	37AE4103
100	23	121	60x60	45x45	6	32	95	55	0.42	37AE4104










Round Top Plate Castors with Bolt Hole



									
50	20	66	35	10	24	76	35	0.16	37AE3101
60	24	83	41	12	24	84	50	0.25	37AE3102
80	24	104	41	12	30	91	55	0.34	37AE3103
100	23	120	41	12	32	95	55	0.37	37AE3104

Round Top Plate Castors with Threaded Stem




									
50	20	66	M8	15	35	24	76	35	0.17
60	24	83	M12	25	41	21	84	50	0.27
80	24	104	M12	25	41	25	91	55	0.36
100	23	120	M12	25	41	32	95	55	0.41



Series 60 - Injection moulded polyurethane tyre bonded to nylon wheel centre and castors


- Red injection moulded polyurethane wheel (55 shore D) with polyamide 6 centre.
- Plain or roller bearing bore.
- Standard to medium-heavy duty loads.
- Zinc plated (unless described as stainless) pressed steel castor housing.
- Suitable for food processing, textile, chemical industries and tanneries.
- Suitable where atmospheric agents, alcohol and glycol, mineral and organic acids, base solutions and saturated vapours are present.
- Temperature -15°C to +80°C
- Tested in accordance with ISO 22878:2004
- Manufactured in accordance with ISO 22883:2004

Wheels



Ø	W	H	W	W	W	W	W	W	W	W	W	W	W
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
80	30	12	39	220	120	120	0.11	601101	0.13	603101	0.13	603201	
100	30	12	44	300	170	170	0.15	601102	0.16	603102	0.16	603202	
125	35	15	44	350	220	230	0.25	601103	0.27	603103	0.27	603203	
150	35	15	44	500	250	250	0.38	601105	0.40	603105	0.40	603205	
150	45	20	59	500	280	350	0.47	601104	0.52	603104	0.52	603204	
200	50	20	59	700	380	450	0.82	601106	0.87	603106	0.87	603206	


Standard Duty Castors - NL



Ø	W	H	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
80	30	107	100x85	80x60	9	12	39	120	120	0.62	604201	0.38	605701	0.81	606601	0.55	607701	0.57	606401
100	30	128	100x85	80x60	9	12	35	120	170	0.74	604202	0.43	605702	0.89	606602	0.67	607702	0.68	606402
125	35	156	100x85	80x60	9	12	37	120	220	0.91	604203	0.66	605703	1.05	606603	0.85	607703	0.87	606403
150	35	182	100x85	80x60	9	12	37	120	220	1.08	604204	0.80	605704	1.21	606604	1.01	607704	1.03	606404
150	45	194	140x110	105x80	11	20	56	156	300	1.83	604211	1.46	605711	2.11	606611	1.69	607711	1.74	606411
200	50	240	140x110	105x80	11	20	56	156	300	2.23	604206	2.01	605706	2.49	606606	2.13	607706	2.18	606406

Overall height of Bolt Hole 150 dia x 45 tread width = 188 and 200 dia = 236.

Medium Duty Castors - M




Ø	W	H	W	W	W	W	W	W	W	W	W	W	W	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
150	45	194	140x110	105x80	11	56	178	350	2.17	604311	1.46	605911	2.64	606811
200	50	240	140x110	105x80	11	56	178	450	2.62	604306	2.01	605906	3.04	606806

150	45	194	140x110	105x80	11	56	178	350	2.32	604711	1.51	605911	2.68	606831
200	50	240	140x110	105x80	11	56	178	450	2.66	604706	2.06	605906	3.11	606826


 **Series 60 - Injection moulded polyurethane tyre bonded to nylon wheel centre and castors**

Medium-Heavy Duty Castors - P




Castor Type	Series	Height	Wheel Dia	Wheel Width	Wheel Depth	Wheel Spacing	Wheel Spacing	Weight (Kg)	Weight (Kg)	Swivel	Weight (Kg)	Fixed	Weight (Kg)	Swivel + Brake	
Swivel	100	30	138	100x85	80x60	9	46	123	170	1.03	607102	0.54	608102	1.18	609002
	125	35	161	100x85	80x60	9	48	123	230	1.17	607103	0.75	608103	1.31	609003
Swivel + Brake	100	30	138	100x85	80x60	9	46	123	170	1.05	607302	0.55	608302	1.19	609102
	125	35	161	100x85	80x60	9	48	123	230	0.19	607303	0.77	608303	1.33	609103

Medium-Heavy Duty Castors - P



Castor Type	Series	Height	Wheel Dia	Wheel Width	Wheel Depth	Wheel Spacing	Wheel Spacing	Weight (Kg)	Weight (Kg)	Swivel	Weight (Kg)	Fixed	Weight (Kg)	Swivel + Brake	
Swivel	150	45	200	140x110	105x80	11	70	126	350	2.81	607604	1.39	608604	3.38	609004
	200	50	250	140x110	105x80	11	70	126	450	3.20	607606	1.83	608606	3.77	609006
Swivel + Brake	150	45	200	140x110	105x80	11	70	126	350	2.87	607504	1.44	608504	3.44	609104
	200	50	250	140x110	105x80	11	70	126	450	3.24	607506	1.88	608506	3.91	609106


Stainless Steel Standard Duty Castors - NLX



Castor Type	Series	Height	Wheel Dia	Wheel Width	Wheel Depth	Wheel Spacing	Wheel Spacing	Weight (Kg)	Weight (Kg)	Swivel	Weight (Kg)	Fixed	Weight (Kg)	Swivel + Brake	Weight (Kg)	Bolt Hole	Weight (Kg)	Bolt Hole + Brake		
Swivel	80	30	107	100x85	80x60	9	12	39	120	120	0.61	604401	0.35	605101	0.78	606701	0.55	607901	0.61	608801
	100	30	128	100x85	80x60	9	12	35	120	170	0.65	604402	0.40	605102	0.83	606702	0.61	607902	0.82	608802
Swivel + Brake	125	35	156	100x85	80x60	9	12	37	120	220	0.81	604403	0.64	605103	0.95	606703	0.79	607903	0.94	608803
	150	35	182	100x85	80x60	9	12	37	120	220	0.97	604404	0.81	605104	1.10	606704	0.90	607904	1.03	608804
Bolt Hole	150	45	194	140x110	105x80	11	20	56	156	300	1.77	604411	1.33	605111	2.06	606711	1.57	607911	1.85	608811
	200	50	240	140x110	105x80	11	20	56	156	300	2.20	604406	1.74	605106	2.48	606706	2.14	607906	2.40	608806
Bolt Hole + Brake	80	30	107	100x85	80x60	9	12	39	120	120	0.64	604601	0.38	605601	0.81	606721	0.58	608001	0.62	608821
	100	30	128	100x85	80x60	9	12	35	120	170	0.65	604602	0.41	605602	0.84	606722	0.62	608002	0.82	608822
Swivel + Brake	125	35	156	100x85	80x60	9	12	37	120	220	0.83	604603	0.66	605603	0.97	606723	0.81	608003	0.96	608823
	150	35	182	100x85	80x60	9	12	37	120	220	0.99	604604	0.83	605604	1.12	606724	0.82	608004	1.25	608824
Bolt Hole + Brake	150	45	194	140x110	105x80	11	20	56	156	300	1.82	604611	1.38	605611	2.11	606731	1.62	608011	1.90	608831
	200	50	240	140x110	105x80	11	20	56	156	300	2.25	604606	1.79	605606	2.53	606726	2.19	608006	2.45	608826

Overall height of Bolt Hole 150 dia x 45 tread width = 188 and 200 dia = 236.

Stainless Steel Medium-Heavy Duty Castors - PX




Castor Type	Series	Height	Wheel Dia	Wheel Width	Wheel Depth	Wheel Spacing	Wheel Spacing	Weight (Kg)	Weight (Kg)	Swivel	Weight (Kg)	Fixed	Weight (Kg)	Swivel + Brake	
Swivel	150	45	200	140x110	105x80	11	70	126	350	2.77	607004	1.38	607114	3.34	607214
	200	50	250	140x110	105x80	11	70	126	450	3.24	607006	1.80	607116	3.81	607216
Swivel + Brake	150	45	200	140x110	105x80	11	70	126	350	2.75	607314	1.53	607414	3.32	607514
	200	50	250	140x110	105x80	11	70	126	450	3.28	607316	1.85	607416	3.85	607516













CASTORS




 **Series 64 - Cast polyurethane tyre bonded to cast iron centre wheel and castors**












- Brown 'TR' cast polyurethane (95+/-3 Shore A) bonded to cast iron centre, painted green.
- Plain bearing with and without ball bearings.
- Standard to extra heavy duty loads.
- Wheels available in standard duty brackets (NL), medium duty brackets (M), medium heavy duty brackets (P), heavy duty brackets (EP), electro welded medium heavy duty brackets (EE MHD), electro welded heavy duty brackets (EE HD), electro welded extra heavy duty brackets (EE EHD), twin wheel electro welded medium heavy duty brackets (EEG MHD), twin wheel electro welded heavy duty brackets and twin wheel electro welded extra heavy duty brackets (EEG EHD).
- Manual handling applications.
- Suitable for use on compact floors.
- Not recommended for soft, non compact floors such as asphalt.
- Suitable for use where alcohol and glycol are present.
- Not recommended for use with mineral and organic acids, base solutions and saturated vapour.
- Temperature -20°C to +80°C
- Tested in accordance with ISO 22878:2004
- Manufactured in accordance with ISO 22883:2004

Plain Bore Wheel 

												
100	40	15H7	45	55	30	500	300	1.50	641102			
125	40	20H7	60	60	30	600	400	1.30	641103			
150	40	20H7	60	70	40	730	500	2.90	641104			
150	50	20H7	60	70	40	910	700	3.70	641114			
180	50	20H7	60	70	40	1100	800	4.40	641105			
200	50	20H7	60	70	40	1500	950	4.60	641106			
200	60	25H7	60	70	40	1700	1000	6.00	641116			
200	80	40H7	80	95	60	2000	1400	8.40	641126			
250	50	20H7	60	75	45	1800	1100	6.60	641107			
250	80	40H7	80	95	60	2800	1600	11.00	641117			
250	80	60H7	80	95	60	2800	1600	10.10	641127			
300	80	50H7	80	100	65	3400	2000	14.40	641108			
300	100	50H7	100	120	80	4200	2500	21.20	641118			
350	100	50H7	100	120	80	4700	2800	26.10	641109			
400	100	50H7	100	120	80	5000	3500	31.60	641110			


These wheels can be used as drive wheels: the wheel hub is manufactured so that it can easily be reworked to achieve a spline or key housing. The carrying capacity given is valid for movements at a maximum speed of 6Km/h also if used as a drive wheel on mainly straight routes. To use as a steering drive wheel or at speeds higher than 6Km/h it is advisable to contact sales support to access any reduction of the maximum applicable loads that may be necessary. To prevent the polyurethane coating from deteriorating, any reworking on the wheel must be done keeping the temperature under 80°C (which is recommended as the maximum limit during normal use of the product).
















Ball Bearing Bore Wheel 

												
80	28	12	32	28	8	370	190	280	0.51	642151	0.46	644151
100	38	15	40	35	11	500	220	380	1.02	642152	0.91	644152
125	38	15	40	35	11	600	240	450	1.45	642153	1.34	644153
125	50	20	55	47	14	800	270	550	1.98	642163	1.76	644163
125	50	25	55	47	14	800	270	550	1.96	642363	1.76	644163
125	60	20	58	47	15	800	250	600	2.86	642103	2.62	644103
150	50	20	55	47	14	910	290	700	2.50	642154	2.28	644154
150	50	25	55	47	14	910	290	700	2.48	642354	2.28	644154
150	60	20	58	47	15	1400	350	850	2.83	642104	2.59	644104
150	80	25	88	62	18	1700	400	1000	5.69	642124	5.19	644124
160	50	20	55	47	14	1000	300	750	2.65	642164	2.43	644164
160	50	25	55	47	14	1000	300	750	2.63	642364	2.43	644164
180	50	20	55	47	14	1100	350	900	3.02	642155	2.80	644155
200	50	20	55	47	14	1500	380	1000	3.65	642156	3.43	644156
200	50	25	55	47	14	1500	380	1000	3.63	642356	3.43	644156
200	80	25	86	62	17	2000	450	1600	7.26	642166	6.74	644166
200	80	30	86	62	17	2000	450	1600	7.24	642366	6.74	644166
250	60	25	65	62	17	2500	480	1500	8.13	642157	7.61	644157
250	60	30	65	62	17	2500	480	1500	8.10	642357	7.61	644157
250	80	25	86	62	17	2800	500	1900	9.81	642167	9.81	644167
250	80	30	86	62	17	2800	500	1900	9.80	642367	9.81	644167
300	60	30	65	62	17	3200	550	1750	11.43	642158	10.96	644158
300	80	30	86	62	17	3400	600	2300	13.80	642168	13.33	644168
400	100	50	120	110	28	4500	750	2800	28.86	642129	26.30	644129


 **Series 64 - Cast polyurethane tyre bonded to cast iron centre wheel and castors**
















Standard Duty Castors - NL




															
80	28	107	100x85	80x60	9	39	120	220	0.95	644551	0.82	644651	1.11	645451	
100	38	128	100x85	80x60	9	37	120	220	1.51	644552	1.40	644652	1.67	645452	
125	38	156	100x85	80x60	9	39	120	220	1.97	644553	1.86	644653	2.13	645453	
125	50	165	140x110	105x80	11	57	156	300	3.38	644563	2.89	644663	3.58	645463	
150	50	194	140x110	105x80	11	56	156	300	3.87	644554	3.59	644654	4.12	645464	
160	50	199	140x110	105x80	11	56	156	300	3.98	644564	3.71	644664	4.23	645474	
180	50	220	140x110	105x80	11	56	156	300	4.48	644555	4.21	644655	4.68	645465	
200	50	240	140x110	105x80	11	56	156	300	5.16	644556	4.92	644656	5.36	645466	
















Medium Duty Castors - M




															
150	50	194	140x110	105x80	11	56	178	500	4.21	644954	3.59	644654	4.65	645564	
160	50	199	140x110	105x80	11	56	178	500	4.33	644964	3.71	644664	4.78	645574	
200	50	240	140x110	105x80	11	56	178	500	5.55	644956	4.92	644656	5.91	645566	
















Medium-Heavy Duty Castors - P




															
80	28	128	100x85	80x60	9	46	-	280	1.38	645851	0.96	646851	-	-	
100	38	138	100x85	80x60	9	46	123	350	1.93	645852	1.52	646852	2.06	644852	
125	38	161	100x85	80x60	9	46	123	350	2.37	645853	2.04	646853	2.50	644853	
















Medium-Heavy Duty Castors - P



															
125	50	170	140x110	105x80	11	70	126	550	3.66	645863	2.65	646863	4.24	644863	
150	50	200	140x110	105x80	11	70	126	700	4.81	645854	3.55	646854	5.33	644854	
160	50	205	140x110	105x80	11	70	126	750	4.93	645864	4.08	646864	5.45	644864	
180	50	228	140x110	105x80	11	70	126	750	5.30	645855	4.45	646855	5.90	644855	
200	50	250	140x110	105x80	11	70	126	750	6.06	645856	5.15	646856	6.66	644856	

Extra-Heavy Duty Castors - EP



															
100	38	140	100x85	80x60	9	46	-	380	2.15	647852	1.92	648852	-	-	
125	38	164	100x85	80x60	9	48	-	450	2.64	647853	2.44	648853	-	-	
125	50	188	140x110	105x80	11	70	-	550	4.61	647863	4.16	648863	-	-	
150	50	200	140x110	105x80	11	70	126	700	5.04	647854	4.63	648854	5.56	646654	
150	60	200	135x110	105x80	11	70	-	850	5.44	647824	4.96	648824	-	-	
160	50	205	140x110	105x80	11	70	126	750	5.16	647864	4.75	648864	5.68	646664	
180	50	228	140x110	105x80	11	70	126	900	5.60	647855	5.20	648855	6.20	646655	
200	50	250	140x110	105x80	11	70	126	1000	6.35	647856	6.06	648856	6.95	646656	
200	80	275	175x140	140x105	14	66	-	1600	12.30	647866	10.46	648866	-	-	
250	60	300	175x140	140x105	14	66	-	1500	13.16	647857	11.32	648857	-	-	


CASTORS

























































Series 73AE - Elastic rubber wheels with polyamide 6 centre

- Non marking blue elastic rubber tyre with Shore A hardness of 70 and black polyamide 6 centre.
- Plain bore and ball bearing bore.
- Standard to medium-heavy duty loads.
- Suitable for humid environments with medium-harsh chemicals. Not suitable for applications where organic solvents and hydrocarbons are present.
- Temperature -20°C to +70°C
- Tested in accordance with ISO 22878:2004
- Manufactured in accordance with ISO 22883:2004

Plain Bore Wheel



																																																																																																																																																																																																																																																			
100	36	12	44	200	100	150	0.22	73AE1102																																																																																																																																																																																																																																											

Smooth Rolling Wheels and Castors

With minimal effort

Tellure Rôta stands for **experience** and has been designing and manufacturing institutional and industrial wheels and castors since 1953.

Tellure Rôta **continuously innovates**. The tellure Rota laboratory constantly seek new materials and solutions for the market place. All products are tested according to international standards for wheels and castors.

Tellure Rôta always supports the market place with **technical assistance**. Experts with many years experience are at customers' disposal to help them to choose the right wheel for each application and to provide specific information.



UNI EN ISO 9001 : 2008
UNI EN ISO 14001 : 2004
OHSAS 18001:2007

 **tellure Rôta**
MOVING SOLUTION

Light Duty Castors

V Series Light Duty - Top Plate Fitting

A range of light duty general purpose castors offering top plate fittings and industry standard bolt hole centres.



- Light Duty Range
- Pressed steel top plate bracket
- Ball bearing swivel head
- Wheel sizes from 50mm to 200mm
- Load capacities of 50kg to 250kg
- Brake options available on all sizes
- Threadguards supplied fitted, as standard
- Good selection of wheel types

Wheel Dia. (mm)	Tread Width (mm)	Load Cap. (kg)	Overall Height (mm)	Plate / Bolt Hole Dimensions		Suits Bolt Dia (mm)	Wheel Type	Bearing Type	Catalogue Reference		
				Plate	Bolt Ctrs				Swivel	Braked	Fixed
50	18	50	72	50 x 50	36 x 36	6	White Polypropylene	Plain	LSV050PP	LSV050PPBR	n/a
50	18	50	72	50 x 50	36 x 36	6	Grey Rubber Tyred	Plain	LSV050RP	LSV050RPBR	n/a
75	25	70	95	75 x 60	55 x 42	8	White Polypropylene	Plain	LSV075PP	LSV075PPBR	LFV075PP
75	25	50	95	75 x 60	55 x 42	8	Grey Rubber Tyred	Plain	LSV075RP	LSV075RPBR	LFV075RP
75	22	50	95	75 x 60	55 x 42	8	Black Rubber Tyred	Roller	LSV075RMB	LSV075RMBBR	LFV075RMB
100	30	125	128	102 x 84	80 x 60	8	White Polypropylene	Plain	LSV100PP	LSV100PPBR	LFV100PP
100	24	70	128	102 x 84	80 x 60	8	Grey Rubber Tyred	Plain	LSV100RP	LSV100RPBR	LFV100RP
100	24	70	128	102 x 84	80 x 60	8	Black Rubber Tyred	Roller	LSV100RMB	LSV100RMBBR	LFV100RMB
125	37	160	155	102 x 84	80 x 60	8	White Polypropylene	Plain	LSV125PP	LSV125PPBR	LFV125PP
125	24	100	155	102 x 84	80 x 60	8	Grey Rubber Tyred	Plain	LSV125RP	LSV125RPBR	LFV125RP
125	24	100	155	102 x 84	80 x 60	8	Black Rubber Tyred	Roller	LSV125RMB	LSV125RMBBR	LFV125RMB
160	40	200	190	135 x 110	105 x 80	10	White Polypropylene	Plain	LSV160PP	LSV160PPBR	LFV160PP
160	22	160	190	135 x 110	105 x 80	10	Grey Rubber Tyred	Plain	LSV160RP	LSV160RPBR	LFV160RP
160	22	160	190	135 x 110	105 x 80	10	Black Rubber Tyred	Roller	LSV160RMB	LSV160RMBBR	LFV160RMB
200	40	250	235	135 x 110	105 x 80	10	White Polypropylene	Plain	LSV200PP	LSV200PPBR	LFV200PP
200	30	205	235	135 x 110	105 x 80	10	Grey Rubber Tyred	Plain	LSV200RP	LSV200RPBR	LFV200RP
200	30	205	235	135 x 110	105 x 80	10	Black Rubber Tyred	Roller	LSV200RMB	LSV200RMBBR	LFV200RMB



Light Duty Castors

V Series Light Duty - Single Bolt Hole Fitting

A range of light duty general purpose castors offering single bolt hole fittings.



- Light Duty Range
- Pressed steel single bolt hole bracket
- Ball bearing swivel head
- Wheel sizes from 50mm to 200mm
- Load capacities of 50kg to 125kg
- Brake options available on all sizes
- Threadguards supplied fitted, as standard
- Good selection of wheel types

Wheel Dia. (mm)	Tread Width (mm)	Load Cap. (kg)	Overall Height (mm)	Plate / Bolt Hole Dimensions		Suits Bolt Dia (mm)	Wheel Type	Bearing Type	Catalogue Reference		
				Plate	Bolt Ctrs				Swivel	Braked	Fixed
50	20	55	72	n/a	n/a	10	White Polypropylene	Plain	LSV050PPBH	LSV050PPBHBR	n/a
50	18	50	72	n/a	n/a	10	Grey Rubber Tyred	Plain	LSV050RPBH	LSV050RPBHBR	n/a
75	20	75	100	n/a	n/a	10	White Polypropylene	Plain	LSV075PPBH	LSV075PPBHBR	n/a
75	21	70	100	n/a	n/a	10	Grey Rubber Tyred	Plain	LSV075RPBH	LSV075RPBHBR	n/a
100	20	80	135	n/a	n/a	12	White Polypropylene	Plain	LSV100PPBH	LSV100PPBHBR	n/a
100	27	80	135	n/a	n/a	12	Grey Rubber Tyred	Plain	LSV100RPBH	LSV100RPBHBR	n/a
125	35	125	155	n/a	n/a	12	White Polypropylene	Plain	LSV125PPBH	LSV125PPBHBR	n/a
125	27	100	155	n/a	n/a	12	Grey Rubber Tyred	Plain	LSV125RPBH	LSV125RPBHBR	n/a

Expander Fittings for Single Bolt Hole Fitting Castors

This range of Nylon fittings allow castors to be fitted to hollow tube constructed equipment and furniture. Available loose or factory fitted to your choice of castor.

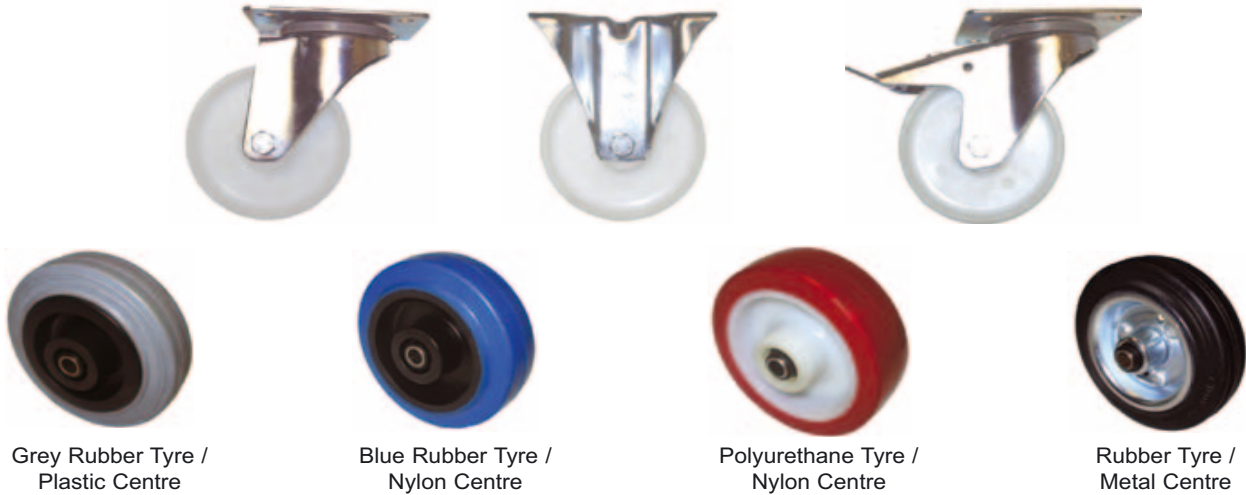
Tube Size (Internal mm)		Catalogue Reference	
Min	Max	Round	Square
19	21.5	WR07 19/21.5	n/a
21.5	24	WR07 21.5/24	WR47 21.5/24
24	27	WR07 24/27	WR47 24/27
27	30	WR07 27/30	WR47 27/30
31	35	WR07 31/35	n/a
32	35	n/a	WR47 32/35
36	40	n/a	WR47 36/40



Light to Medium Duty Castors

Standard Range Ultra - Top Plate Fitting

- * A comprehensive range of general purpose pressed steel castors with double ball race swivel head construction. Brakes are a total lock brake.
- * All castors can be supplied with Plain Bearing wheels (please ask Technical Sales for details).
- * The following wheels are also available in this range: ThermoPlastic (TP); Grey Rubber Tyre with Metal Centre (GS); and, Polypropylene (ED).



Grey Rubber Tyre / Plastic Centre

Blue Rubber Tyre / Nylon Centre

Polyurethane Tyre / Nylon Centre

Rubber Tyre / Metal Centre

Wheel Dia. (mm)	Tread Width (mm)	Load Cap. (kg)	Overall Height (mm)	Plate / Bolt Hole Dimensions		Wheel Type	Bearing Type	Swivel Radius (mm)		Catalogue Reference		
				Plate	Bolt Ctrs			Swivel	Braked	Swivel	Swivel Braked	Fixed
80	32	130	108	105 x 85	80 x 60	Nylon	Roller	81	125	DSNY08011030	DBNY08011030	DFNY08011030
80	32	150	108	105 x 85	80 x 60	Polyurethane Tyre / Nylon Centre	Roller	81	125	DSPN08011030	DBPN08011030	DFPN08011030
80	25	130	108	105 x 85	80 x 60	Blue Rubber Tyre / Nylon Centre	Roller	81	125	DSRN08011030	DBRN08011030	DFRN08011030
80	28	60	108	105 x 85	80 x 60	Grey Rubber Tyre / Plastic Centre	Roller	81	125	DSGP08011030	DBGP08011030	DFGP08011030
80	28	60	108	105 x 85	80 x 60	Black Rubber Tyre / Metal Centre	Roller	81	125	DSBS08011030	DBBS08011030	DFBS08011030
100	32	150	128	105 x 85	80 x 60	Nylon	Roller	91	125	DSNY10011030	DBNY10011030	DFNY10011030
100	32	150	128	105 x 85	80 x 60	Polyurethane Tyre / Nylon Centre	Roller	91	125	DSPN10011030	DBPN10011030	DFPN10011030
100	25	140	128	105 x 85	80 x 60	Blue Rubber Tyre / Nylon Centre	Roller	91	125	DSRN10011030	DBRN10011030	DFRN10011030
100	22	70	128	105 x 85	80 x 60	Grey Rubber Tyre / Plastic Centre	Roller	91	125	DSGP10011030	DBGP10011030	DFGP10011030
100	22	70	128	105 x 85	80 x 60	Black Rubber Tyre / Metal Centre	Roller	91	125	DSBS10011030	DBBS10011030	DFBS10011030
125	32	200	155	105 x 85	80 x 60	Nylon	Roller	103.5	125	DSNY12511030	DBNY12511030	DFNY12511030
125	32	150	155	105 x 85	80 x 60	Polyurethane Tyre / Nylon Centre	Roller	103.5	125	DSPN12511030	DBPN12511030	DFPN12511030
125	28	180	155	105 x 85	80 x 60	Blue Rubber Tyre / Nylon Centre	Roller	103.5	125	DSRN12511030	DBRN12511030	DFRN12511030
125	22	100	155	105 x 85	80 x 60	Grey Rubber Tyre / Plastic Centre	Roller	103.5	125	DSGP12511030	DBGP12511030	DFGP12511030
125	22	70	155	105 x 85	80 x 60	Black Rubber Tyre / Metal Centre	Roller	103.5	125	DSBS12511030	DBBS12511030	DFBS12511030
160	45	250	200	137 x 105	105 x 80	Nylon	Roller	135	170	DSNY16011040	DBNY16011040	DFNY16011040
160	45	250	200	137 x 105	105 x 80	Polyurethane Tyre / Nylon Centre	Roller	135	170	DSPN16011040	DBPN16011040	DFPN16011040
160	38	250	200	137 x 105	105 x 80	Blue Rubber Tyre / Nylon Centre	Roller	135	170	DSRN16011040	DBRN16011040	DFRN16011040
160	40	135	200	137 x 105	105 x 80	Grey Rubber Tyre / Plastic Centre	Roller	135	170	DSGP16011040	DBGP16011040	DFGP16011040
160	40	160	200	137 x 105	105 x 80	Black Rubber Tyre / Metal Centre	Roller	135	170	DSBS16011040	DBBS16011040	DFBS16011040
200	50	300	240	137 x 105	105 x 80	Nylon	Roller	155	170	DSNY20011040	DBNY20011040	DFNY20011040
200	50	350	240	137 x 105	105 x 80	Polyurethane Tyre / Nylon Centre	Roller	155	170	DSPN20011040	DBPN20011040	DFPN20011040
200	38	300	240	137 x 105	105 x 80	Blue Rubber Tyre / Nylon Centre	Roller	155	170	DSRN20011040	DBRN20011040	DFRN20011040
200	47	180	240	137 x 105	105 x 80	Grey Rubber Tyre / Plastic Centre	Roller	155	170	DSGP20011040	DBGP20011040	DFGP20011040
200	47	200	240	137 x 105	105 x 80	Black Rubber Tyre / Metal Centre	Roller	155	170	DSBS20011040	DBBS20011040	DFBS20011040

Light to Medium Duty Castors

Standard Range Ultra - Bolt Hole Fitting

* A comprehensive range of general purpose pressed steel castors with double ball race swivel head construction. Brakes are a total lock brake.

* All castors can be supplied with Plain Bearing wheels (please ask Technical Sales for details).

* The following wheels are also available in this range: ThermoPlastic (TP); Grey Rubber Tyre with Metal Centre (GS); and, Polypropylene (ED).



Rubber Tyre / Metal Centre

Grey Rubber Tyre / Plastic Centre

Polyurethane Tyre / Nylon Centre

Nylon Wheel

Wheel Dia. (mm)	Tread Width (mm)	Load Cap. (kg)	Overall Height (mm)	Bolt Hole (mm)	Wheel Type	Bearing Type	Swivel Radius (mm)		Catalogue Reference		
							Swivel	Braked	Swivel	Swivel Braked	Fixed
80	32	130	108	12	Nylon	Roller	81	125	DSNY08021 120	DBNY08021 120	n/a
80	32	150	108	12	Polyurethane Tyre / Nylon Centre	Roller	81	125	DSPN08021 120	DBPN08021 120	n/a
80	25	130	108	12	Blue Rubber Tyre / Nylon Centre	Roller	81	125	DSRN08021 120	DBRN08021 120	n/a
80	28	60	108	12	Grey Rubber Tyre / Plastic Centre	Roller	81	125	DSGP08021 120	DBGP08021 120	n/a
80	28	60	108	12	Black Rubber Tyre / Metal Centre	Roller	81	125	DSBS08021 120	DBBS08021 120	n/a
100	32	150	128	12	Nylon	Roller	91	125	DSNY10021 120	DBNY10021 120	n/a
100	32	150	128	12	Polyurethane Tyre / Nylon Centre	Roller	91	125	DSPN10021 120	DBPN10021 120	n/a
100	25	140	128	12	Blue Rubber Tyre / Nylon Centre	Roller	91	125	DSRN10021 120	DBRN10021 120	n/a
100	22	70	128	12	Grey Rubber Tyre / Plastic Centre	Roller	91	125	DSGP10021 120	DBGP10021 120	n/a
100	22	70	128	12	Black Rubber Tyre / Metal Centre	Roller	91	125	DSBS10021 120	DBBS10021 120	n/a
125	32	200	155	12	Nylon	Roller	103.5	125	DSNY12521 120	DBNY12521 120	n/a
125	32	150	155	12	Polyurethane Tyre / Nylon Centre	Roller	103.5	125	DSPN12521 120	DBPN12521 120	n/a
125	28	180	155	12	Blue Rubber Tyre / Nylon Centre	Roller	103.5	125	DSRN12521 120	DBRN12521 120	n/a
125	22	100	155	12	Grey Rubber Tyre / Plastic Centre	Roller	103.5	125	DSGP12521 120	DBGP12521 120	n/a
125	22	70	155	12	Black Rubber Tyre / Metal Centre	Roller	103.5	125	DSBS12521 120	DBBS12521 120	n/a
160	45	250	200	12	Nylon	Roller	135	170	DSNY16021 120	DBNY16021 120	n/a
160	45	250	200	12	Polyurethane Tyre / Nylon Centre	Roller	135	170	DSPN16021 120	DBPN16021 120	n/a
160	38	250	200	12	Blue Rubber Tyre / Nylon Centre	Roller	135	170	DSRN16021 120	DBRN16021 120	n/a
160	40	135	200	12	Grey Rubber Tyre / Plastic Centre	Roller	135	170	DSGP16021 120	DBGP16021 120	n/a
160	40	160	200	12	Black Rubber Tyre / Metal Centre	Roller	135	170	DSBS16021 120	DBBS16021 120	n/a
200	50	300	240	12	Nylon	Roller	155	170	DSNY20021 120	DBNY20021 120	n/a
200	50	300	240	12	Polyurethane Tyre / Nylon Centre	Roller	155	170	DSPN20021 120	DBPN20021 120	n/a
200	38	300	240	12	Blue Rubber Tyre / Nylon Centre	Roller	155	170	DSRN20021 120	DBRN20021 120	n/a
200	47	180	240	12	Grey Rubber Tyre / Plastic Centre	Roller	155	170	DSGP20021 120	DBGP20021 120	n/a
200	47	200	240	12	Black Rubber Tyre / Metal Centre	Roller	155	170	DSBS20021 120	DBBS20021 120	n/a

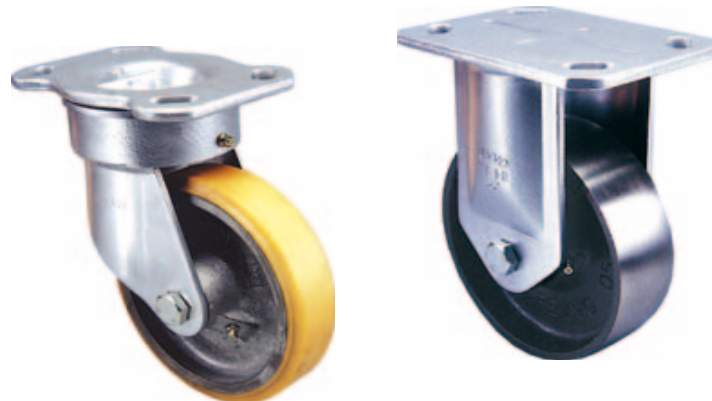
Heavy Duty Castors

TSH Series - Top Plate Fitting

A well established range of heavy gauge forged steel castors with hardened ball race swivel heads that serve as both thrust and radial bearings. Supplied with nylon seals and hydraulic grease nipple for ease of maintenance. The closed base of the swivel ring prevents downward escape of lubricant and completes grease reservoir.

Sideplates are press formed to a cylindrical shape to give the best strength to weight ratio and are continuously welded to the swivel ring.

Load capacities to 1500Kg.



- Heavy duty range
- Heavy duty forged steel bracket
- Hardened ball race swivel ring head
- Wheel sizes from 100mm to 200mm
- Load capacities of 150Kg to 1500Kg
- 4 Station directional lock option
- Wheel or combined brake options to most sizes
- Wide selection of wheel types available

Wheel Dia. (mm)	Tread Width (mm)	Load Cap. (kg)	Overall Height (mm)	Plate / Bolt Hole Dimensions (mm)		Suits Bolt Dia (mm)	Wheel Type	Bearing Type	Swivel Radius (mm)	Catalogue Reference		
				Plate	Hole Ctrs					Swivel	Swivel & Wheel Brake	Fixed
100	38	150	152	S 150 x 110 F 150 x 115	105 x 80/75	10	Rubber Tyre / Cast Iron Centre	Roller	102	TSH100RU1H	-	TFH100RU1H
100	38	340	152	S 150 x 110 F 150 x 115	105 x 80/75	10	Polyurethane Tyre / Cast Iron Centre	Roller	102	TSH100PT1H	-	TFH100PT1H
100	45	320	152	S 150 x 110 F 150 x 115	105 x 80/75	10	Cast Iron	Roller	102	TSH100CI1H	-	TFH100CI1H
125	40	170	177	S 150 x 110 F 150 x 115	105 x 80/75	10	Rubber Tyre / Cast Iron Centre	Roller	118	TSH125RU1H	TSH125RU1HF	TFH125RU1H
125	42	200	177	S 150 x 110 F 150 x 115	105 x 80/75	10	Elastic Rubber Tyre / Aluminium Centre	Ball Journal	118	TSH125GR2H	TSH125GR2HF	TFH125GR2H
125	38	320	177	S 150 x 110 F 150 x 115	105 x 80/75	10	Polyurethane Tyre / Cast Iron Centre	Roller	118	TSH125PT1H	TSH125PT1HF	TFH125PT1H
125	45	630	177	S 150 x 110 F 150 x 115	105 x 80/75	10	Cast Iron	Roller	118	TSH125CI1H	TSH125CI1HF	TFH125CI1H
150	45	370	202	S 150 x 110 F 150 x 115	105 x 80/75	10	Rubber Tyre / Cast Iron Centre	Roller	134	TSH150RU15	TSH150RU15F	TFH150RU15
150	45	370	202	S 150 x 110 F 150 x 115	105 x 80/75	10	Rubber Tyre / Cast Iron Centre	Ball Journal	134	TSH150RU2H	TSH150RU2HF	TFH150RU2H
150	50	800	202	S 150 x 110 F 150 x 115	105 x 80/75	10	Nylon	Ball Journal	134	TSH150NY2H	TSH150NY2HF	TFH150NY2H
150	38	730	202	S 150 x 110 F 150 x 115	105 x 80/75	10	Polyurethane Tyre / Cast Iron Centre	Roller	134	TSH150PT15	TSH150PT15F	TFH150PT15
150	38	730	202	S 150 x 110 F 150 x 115	105 x 80/75	10	Polyurethane Tyre / Cast Iron Centre	Ball Journal	134	TSH150PT2H	TSH150PT2HF	TFH150PT2H
150	45	910	202	S 150 x 110 F 150 x 115	105 x 80/75	10	Cast Iron	Roller	134	TSH150CI15	TSH150CI15F	TFH150CI15
150	45	910	202	S 150 x 110 F 150 x 115	105 x 80/75	10	Cast Iron	Ball Journal	134	TSH150CI2H	TSH150CI2HF	TFH150CI2H
150	50	1130	202	S 150 x 110 F 150 x 115	105 x 80/75	10	Steel	Ball Journal	134	TSH150ST2H	TSH150ST2HF	TFH150ST2H
160	42	300	207	S 150 x 110 F 150 x 115	105 x 80/75	10	Elastic Rubber Tyre / Aluminium Centre	Ball Journal	139	TSH160GR2H	TSH160GR2HF	TFH160GR2H
200	42	400	252	S 150 x 110 F 150 x 115	105 x 80/75	10	Elastic Rubber Tyre / Aluminium Centre	Ball Journal	166	TSH200GR2H	TSH200GR2HF	TFH200GR2H
200	50	535	252	S 150 x 110 F 150 x 115	105 x 80/75	10	Rubber Tyre / Cast Iron Centre	Roller	166	TSH200RU15	TSH200RU15F	TFH200RU15
200	50	535	252	S 150 x 110 F 150 x 115	105 x 80/75	10	Rubber Tyre / Cast Iron Centre	Ball Journal	166	TSH200RU2H	TSH200RU2HF	TFH200RU2H
200	50	1500	252	S 150 x 110 F 150 x 115	105 x 80/75	10	Nylon	Ball Journal	166	TSH200NY2H	TSH200NY2HF	TFH200NY2H
200	45	1100	252	S 150 x 110 F 150 x 115	105 x 80/75	10	Polyurethane Tyre / Cast Iron Centre	Roller	166	TSH200PT15	TSH200PT15F	TFH200PT15
200	45	1100	252	S 150 x 110 F 150 x 115	105 x 80/75	10	Polyurethane Tyre / Cast Iron Centre	Ball Journal	166	TSH200PT2H	TSH200PT2HF	TFH200PT2H
200	45	1150	252	S 150 x 110 F 150 x 115	105 x 80/75	10	Cast Iron	Roller	166	TSH200CI15	TSH200CI15F	TFH200CI15
200	45	1150	252	S 150 x 110 F 150 x 115	105 x 80/75	10	Cast Iron	Ball Journal	166	TSH200CI2H	TSH200CI2HF	TFH200CI2H

Wheels

PNBJ, DVR, EAB, PCB and ET Wheels

PNBJ Series
Polyurethane Tyre on a Nylon Centre



Wheel Dia. (mm)	Tread Width (mm)	Bore Size (mm)	Hub Length (mm)	Load Cap. (kg)	Bearing Type	Catalogue Reference
125	40	15	45	300	Ball Journal	AW125PNBJ
150	45	20	58	500	Ball Journal	AW150PNBJ
200	50	20	58	600	Ball Journal	AW200PNBJ



DVR Series
Black rubber tyre with a pressed steel centre.

Wheel Dia. (mm)	Tread Width (mm)	Bore Size (mm)	Hub Length (mm)	Load Cap. (kg)	Bearing Type	Catalogue Reference
100	30	12	37.8	70	Roller	DVR1003012
125	37	12	44.4	100	Roller	DVR1253712
160	40	20	58	150	Roller	AW160RMB
200	50	20	58	205	Roller	AW200RMB

EAB Series
Black elastic rubber tyre with an aluminium centre.



Wheel Dia. (mm)	Tread Width (mm)	Bore Size (mm)	Hub Length (mm)	Load Cap. (kg)	Bearing Type	Catalogue Reference
100	40	15	40	160	Ball Journal	AW100EAB
125	50	20	60	225	Ball Journal	AW125EAB5020
160	50	20	60	300	Ball Journal	AW160EAB
200	50	20	60	400	Ball Journal	AW200EAB



PCB Series
Cast grade Polyurethane tyre with cast iron centre. Other sizes and capacities are available - call Sales with your requirements.

Wheel Dia. (mm)	Tread Width (mm)	Bore Size (mm)	Hub Length (mm)	Load Cap. (kg)	Bearing Type	Catalogue Reference
100	40	20	40	300	Ball Journal	AW100PCB
125	40	20	40	400	Ball Journal	AW125PCB
150	50	20	60	800	Ball Journal	AW150PCB
200	50	20	60	1100	Ball Journal	AW200PCB
250	60	25	60	1400	Ball Journal	AW250PCB

ET Series: Econothane
Polyurethane tyre on Aluminium Wheel



Wheel Dia. (mm)	Tread Width (mm)	Bore Size (mm)	Hub Length (mm)	Load Cap. (kg)	Bearing Type	Catalogue Reference
100	50	20	60	300	Ball Journal	100ET5060
125	50	20	60	450	Ball Journal	125ET5060
150	50	20	60	550	Ball Journal	150ET5060
200	50	20	60	800	Ball Journal	200ET5060
250	50	20	60	1000	Ball Journal	250ET5060