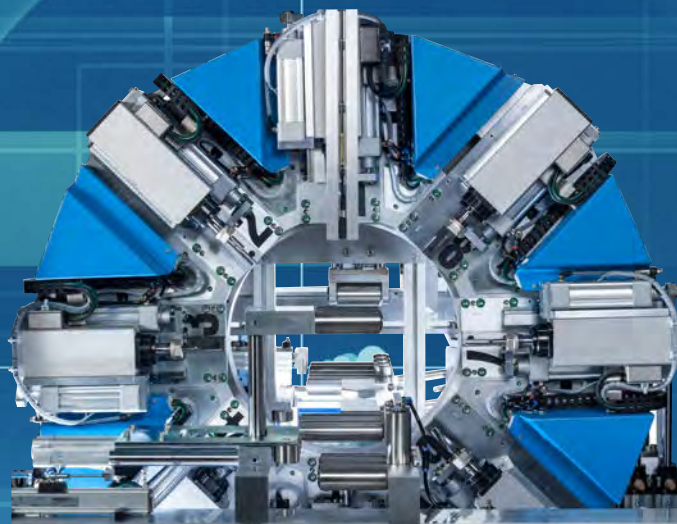


# Stuga<sup>®</sup>

## Stuga Sawing & Machining Centers



# Stuga®

ESTABLISHED IN 1974 STUGA HAVE BEEN DESIGNING AND MANUFACTURING CNC MACHINE TOOLS SINCE 1986.

STUGA DESIGN PHILOSOPHY UTILISES INNOVATION TO SIMPLIFY PROBLEMS TOGETHER WITH THE LATEST TECHNOLOGY WHERE IT IS BENEFICIAL. THIS PHILOSOPHY INCLUDES MAKING POTENTIALLY COMPLEX MACHINERY INTUITIVELY EASY TO USE, THEREBY REDUCING OPERATOR SKILLS AND SUBSEQUENT POTENTIAL ERRORS.

THE COMPANY IS DEDICATED TO WORKING IN PARTNERSHIP WITH CUSTOMERS IN ORDER TO ACHIEVE ITS AIM OF ONE HUNDRED PERCENT CUSTOMER SATISFACTION.

AS A MANUFACTURER SELLING DIRECT TO THE MARKET STUGA ELIMINATES THE DEALER PROBLEMS ASSOCIATED WITH HI-TECH MACHINERY AS CUSTOMERS DEAL DIRECTLY WITH THE DESIGN AND BUILD TEAMS.

## STUGA MISSION STATEMENT

CREATING LEADING-EDGE AUTOMATED MACHINERY TO SIMPLIFY COMPLEX TASKS, REDUCING END-USER OPERATING COSTS AND STRIVING TO STAY AHEAD OF OUR COMPETITORS IN QUALITY, INNOVATION, CUSTOMER SERVICE AND VALUE.

## CONTENTS:

2	ABOUT STUGA
3-7	STUGA ZX3 & ZX5 SAWING & MACHINING CENTERS
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14	FIXED HEAD TOOLING
15-18	STUGA ECOLINE PREPPING CENTER
19-22	STUGA AUTOCUT SAW CENTER
23-24	STUGA ROUTERMASTER CNC ROUTER
25	STUGA AUTOFLOW-2 SAWING & MACHINING CENTER
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27	STUGA MACHINE SPECIFICATION

FOR FURTHER INFORMATION VISIT THE CONTACT PAGE ON THE STUGA WEBSITE

## STUGA SERVICE

THE COMPANY IS TOTALLY COMMITTED TO SERVICE AND USES A GEOGRAPHICALLY BASED NETWORK OF TRAINED ENGINEERS ON A FAST RESPONSE BASIS.

THE FIELD SERVICE ENGINEERS ARE BACKED UP BY A FULL SUPPORT TEAM BASED AT THE SERVICE CENTER IN NORFOLK. TRAINED TECHNICIANS ARE AVAILABLE TO TALK CUSTOMERS THROUGH PROBLEMS AND LOOK AT INTERNET BASED DIAGNOSTICS INCLUDING ONBOARD CAMERA SYSTEMS.

## CONSUMABLES

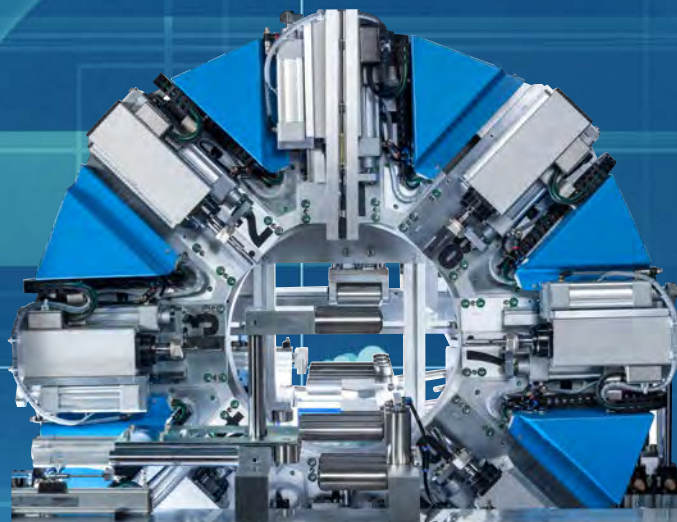
STUGA SUPPLY A RANGE OF LABELS, BLADES AND CUTTERS ETC THAT ARE SPECIFICALLY DESIGNED FOR MAXIMUM PERFORMANCE AND OUTPUT. SPARE PARTS FOR THE ENTIRE RANGE OF STUGA MACHINERY ARE IN STOCK AT MOST TIMES. THESE ITEMS ARE SOURCED AND TESTED FOR COMPLIANCE AND MAXIMUM PERFORMANCE.





# Stuga<sup>®</sup>

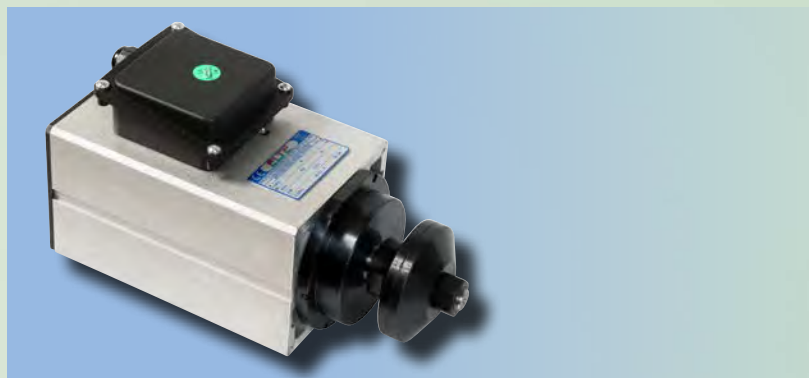
## ZX3 & ZX5 Sawing & Machining Centers





THREE HUNDRED AND SIXTY DEGREE ROTARY TOOLING SYSTEM  
CREATES THREE HUNDRED AND SIXTY DEGREE POSITIONING  
ALLOWING UNLIMITED MACHINING POSSIBILITIES AND TOTAL  
PREPPING FLEXIBILITY, PRODUCING PERFORMANCE WELL BEYOND  
THAT OF FIXED HEAD MACHINES. IF A HEAD FAILS FOR ANY  
REASON ANOTHER HEAD CAN EASILY TAKE OVER ITS WORK.  
SEPARATE SAWING AND PREPPING MODULES WORKING IN TANDEM  
TOGETHER WITH BUFFER STATION/TRANSFER TABLE MINIMISES

DELAYS CAUSED BY SAW WAITING FOR PREPPING OR VICE VERSA.  
TOTALLY FLEXIBLE INNOVATIVE CLAMPING SYSTEM DESIGNED  
TO HOLD ANY PROFILE INCLUDING PRE-GASKETTED. FULLY  
PROGRAMMABLE GRIPPER FOR BEST POSSIBLE POSITIONING.  
RIGHT TO LEFT VERSION ILLUSTRATED, BUT ALSO AVAILABLE  
FEEDING LEFT TO RIGHT. 'U' SHAPE CONFIGURATION CREATES  
EASIER SINGLE OPERATOR WORKING.





## LASER MEASURING AND PRECOMPILING

LASER RANGE MEASURING AND FULL LENGTH SENSORS USED TO PRE-MEASURE BARS BEFORE LOADING

ALLOWS BARS TO BE PRE-COMPILED, IMPROVING CYCLE TIME BY SAVING LOADING TIME

## INFEEED LOADING WHEEL

FRICTION LOADING WHEEL DEVELOPED TO ROLL BAR INTO GRIPPER JAW DESIGN IS MORE RELIABLE AND REDUCES CYCLE TIME

## PROFILE TRANSPORT

PROFILE IS TRANSPORTED ON ROLLER BEDS ON X AXIS AND SAW AXIS. ROLLER BEDS PLACE AND LIFT THE PROFILE ON INFEEED / TRANSFERS LOWER FRICTION MEANS FASTER ACCELERATION AND DECELERATION, WHICH GREATLY IMPROVES CYCLE TIME PLACING OF PROFILE PREVENTS THE BAR ROLLING OVER, AS THERE IS NO SIDE PUSHING OR EDGES TO CATCH ON

## INDUSTRY 4.0

SMART FACTORY INTEGRATION

LOGGING PIECES CUT, FRAMES CUT, STOCK USAGE, OPTIMISER YIELD, MACHINE / OPERATOR PERFORMANCE, MACHINING OPERATION TIMINGS



## GRIPPER PINS

END OF BAR IS DRILLED TO ALLOW POSITIVE TOOTH LOCATION GRIPPER HAS TEETH THAT INSERT SECURELY INTO PROFILE, MEANING IT CANNOT SLIP

SAME HOLES ARE USED ON BOTH MACHINING AND SAWING SIDE, IMPROVING ACCURACY AND RELIABILITY

SECURE FIXING MEANS ACCELERATION AND DECELERATION TIMES CAN BE VASTLY IMPROVED, REDUCING CYCLE TIME

## TWINSAFE

EMERGENCY STOP AND GUARD FUNCTIONS ARE PROGRAMMABLE GUARD DOORS ISOLATE ONLY UNSAFE AREAS, PREVENTING DOWNTIME

## SAW Y-DRIVE

ADDITIONAL AXIS INSIDE SAW CENTRALISING MECHANISM

CUTS NEARLY ALL Y NOTCHES AT THE SAW HEAD

IMPROVES ACCURACY AND RELIABILITY

IMPROVES CYCLE TIME BY MOVING AN OPERATION FROM MACHINING TO SAW (BALANCING OPERATIONS)

WORKS FROM PROVEN BAR CENTRALISING SYSTEM – THEREFORE AUTO COMPENSATES FOR ANY ERRORS IN BAR WIDTH

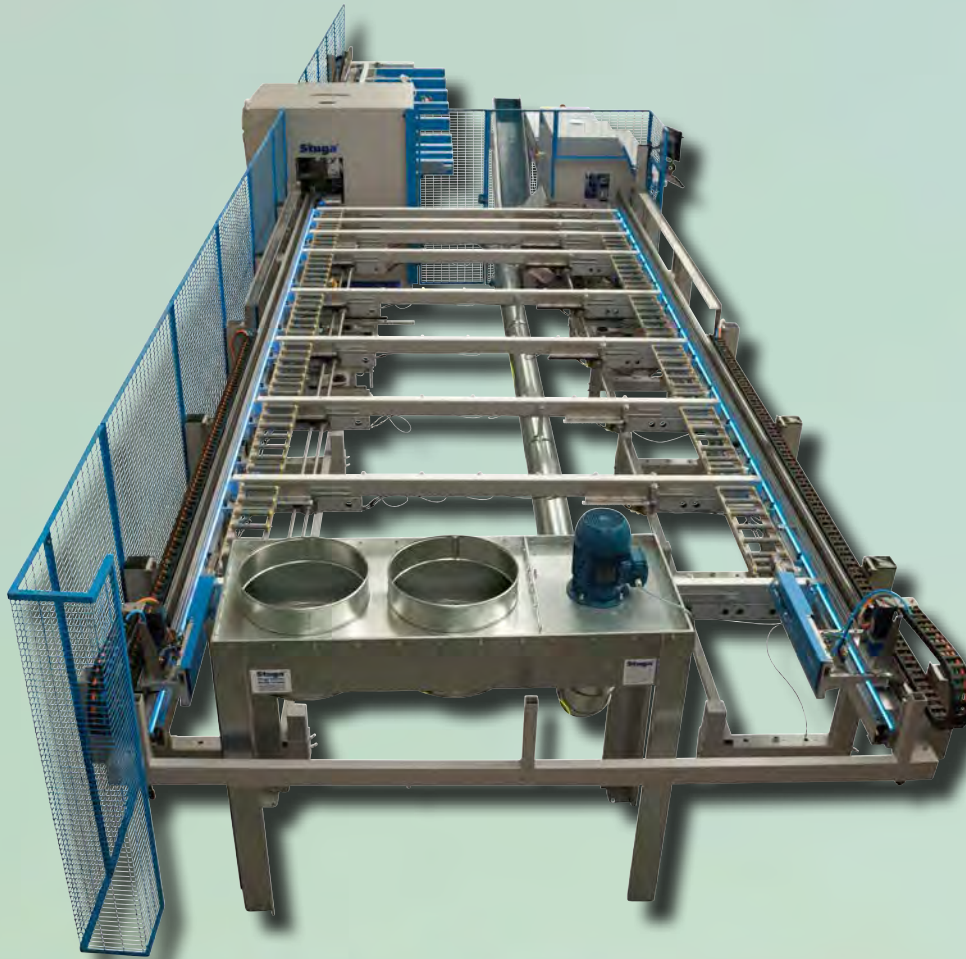
## QUAD PLUNGE

ADDITION TO ROTARY TOOLING HEAD TO DOUBLE UP ON “DOUBLE PLUNGE” SYSTEM WHICH ALLOWS A SECOND SPINDLE SIZE TO REAP BENEFITS OF CUTTING TOP AND BOTTOM OF PROFILE AT SAME TIME (E.G. 10MM AND 12.7MM)

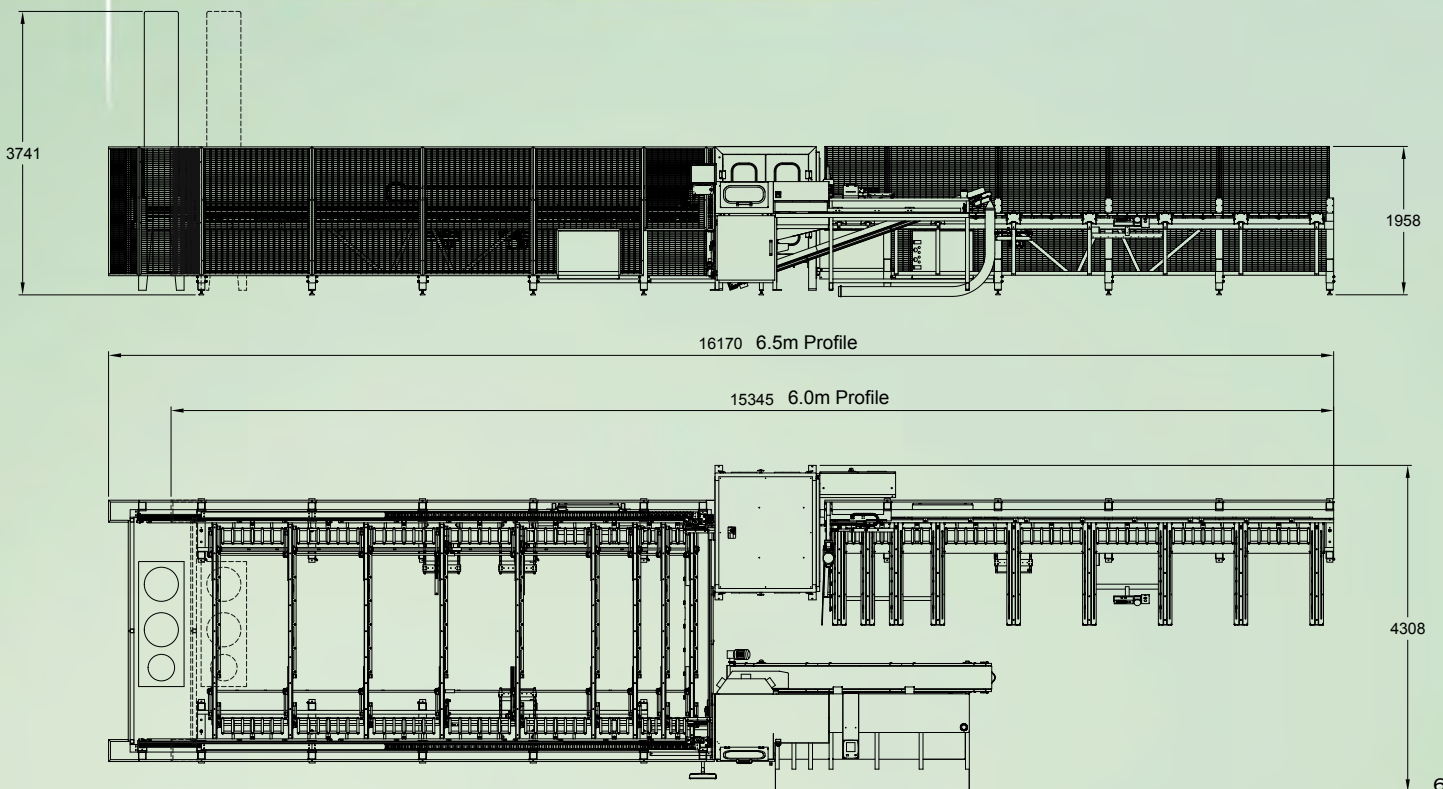
IMPROVES CYCLE TIME ALLOWING SINGLE PASS ON TRICKLE VENT SLOT CUTTING

NOTE! FLOWLINE ZX3 AND ZX4 MODELS ARE ONLY AVAILABLE AS REBUILDS/REFURBS.

# Stuga ZX3 & ZX5 Cutting and Prepping

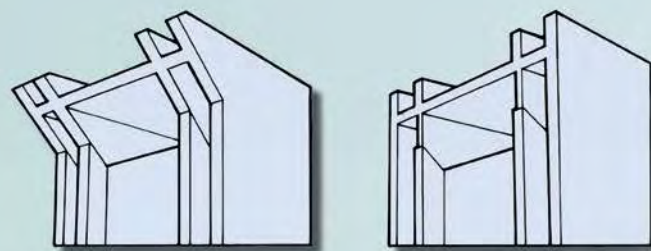
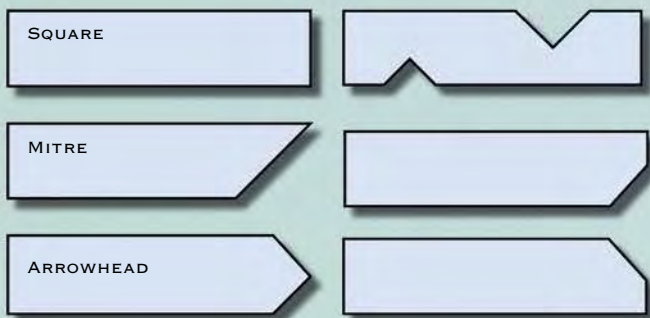


## ZX5 Footprint





# g Center for Volume Production



## Q-CUTS

TRIMMING HEAD OF UNEQUAL CASEMENT BEFORE WELDING.

## MACHINING MODULE CAPABILITY

UNLIMITED NUMBER OF DIFFERENT PREPS CAN BE APPLIED FROM ANY SIDE AT ANY ANGLE 0-360 DEGREES.

### ALL DRAINAGE

CONCEALED / FACE, INTERNALLY OR EXTERNALLY GLAZED, UPSTAND REMOVAL, PRESSURE EQUALISATION

### SPOT PREPS FOR EASIER ASSEMBLY

FRICTION STAY PILOT HOLES, DOOR HINGES, ANTI-BOW WEDGE, ANTI-JEMMY WEDGE, CASEMENT KEEPS, ALUMINIUM LOW THRESHOLD SPOT PREP

### TRICKLE VENTS:

FRAME OR SASH, THROUGH CHAMBER OR LEG

### DOOR LOCKS IN ANY COMBINATION (INCLUDING DOUBLE PLUNGE)

SINGLE, 3 OR 4 POINT, STABLE DOORS, FRENCH / SLAVE DOORS, PATIO DOOR LOCKS, HINGE DOOR LOCKS

### DOOR LOCK JAMB & KEEPS

### LETTER PLATES

INCLUDING FIXING HOLES

### ESPAG AND SHOOTBOLT LOCKS

TILT & TURN HINGES & LOCKS, FULLY REVERSIBLE HINGES & LOCKS

### MECHANICAL TRANSOM

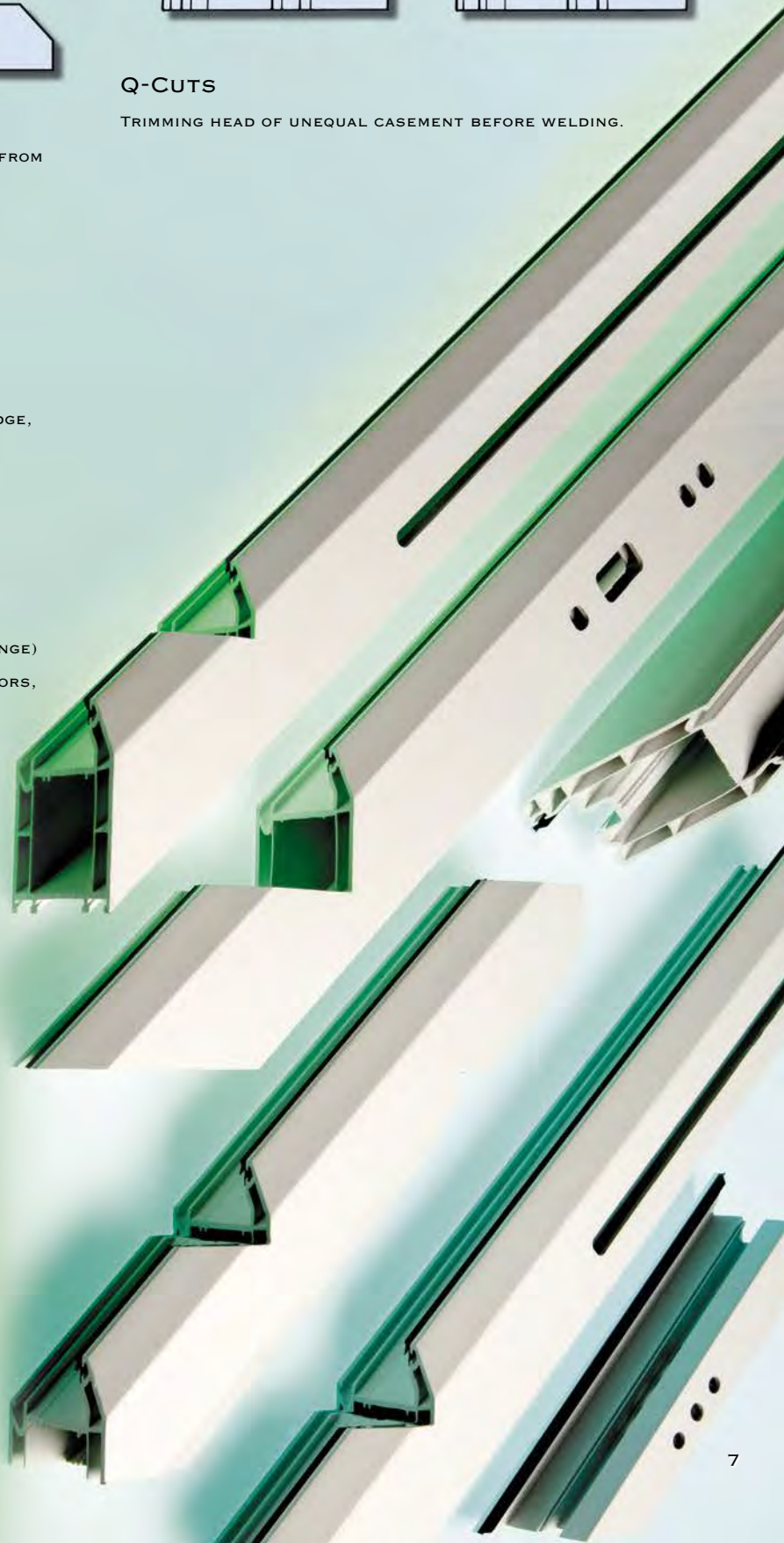
FRAME DRILLING, REINFORCING RELIEF PORT

### V NOTCHING FROM BOTH SIDES

Y NOTCHING (HALF V NOTCH BEFORE REVERSE-BUTT PREP)

### NOTE! ALL COMMON BRITISH AND IRISH WINDOW PROFILES

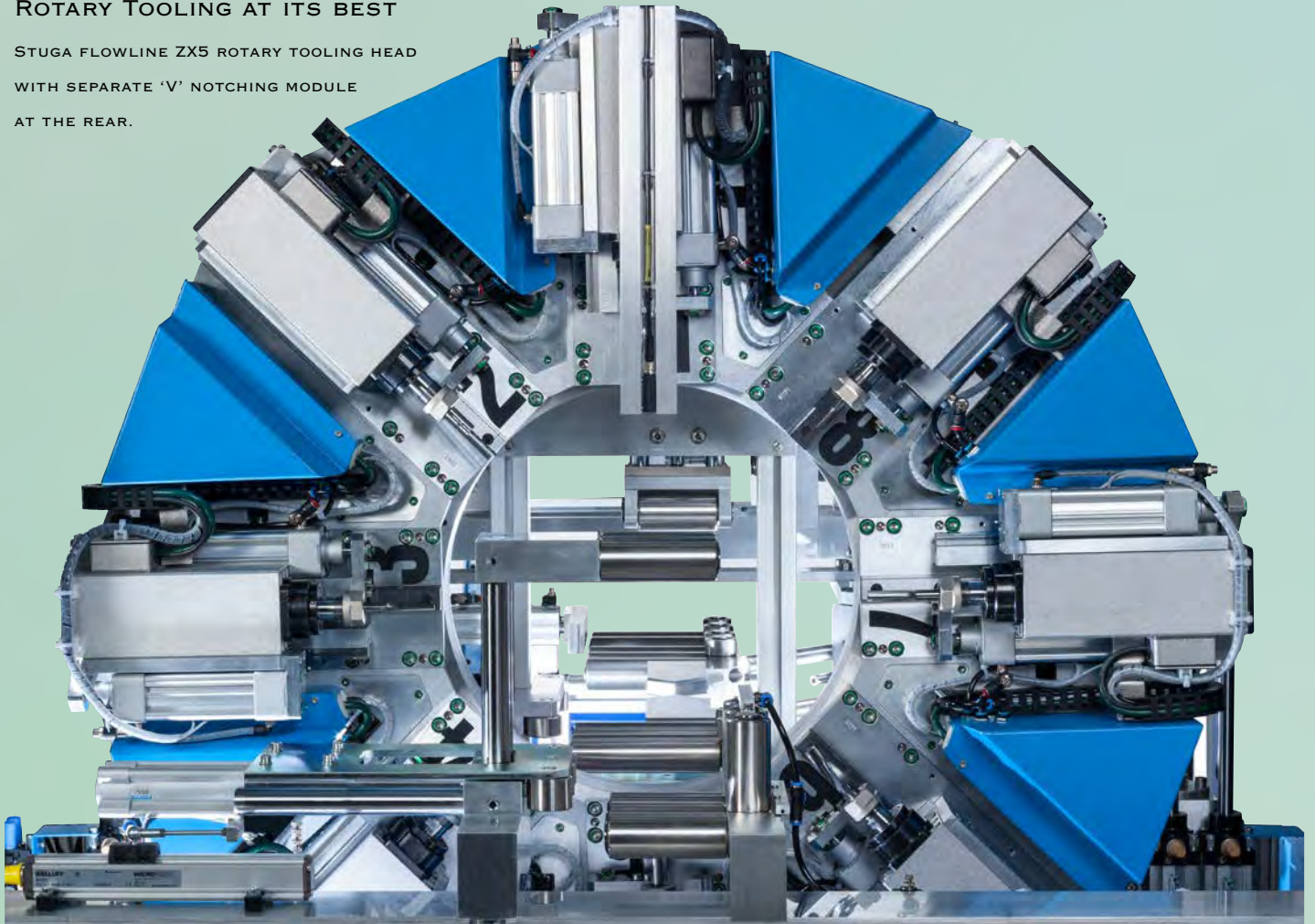
CAN BE ACCOMMODATED AND NO CONTOUR BLOCKS OR OTHER TOOLING IS REQUIRED. THE ZX3, ZX4 AND ZX5 CAN PROCESS MOST KNOWN UK PROFILES.



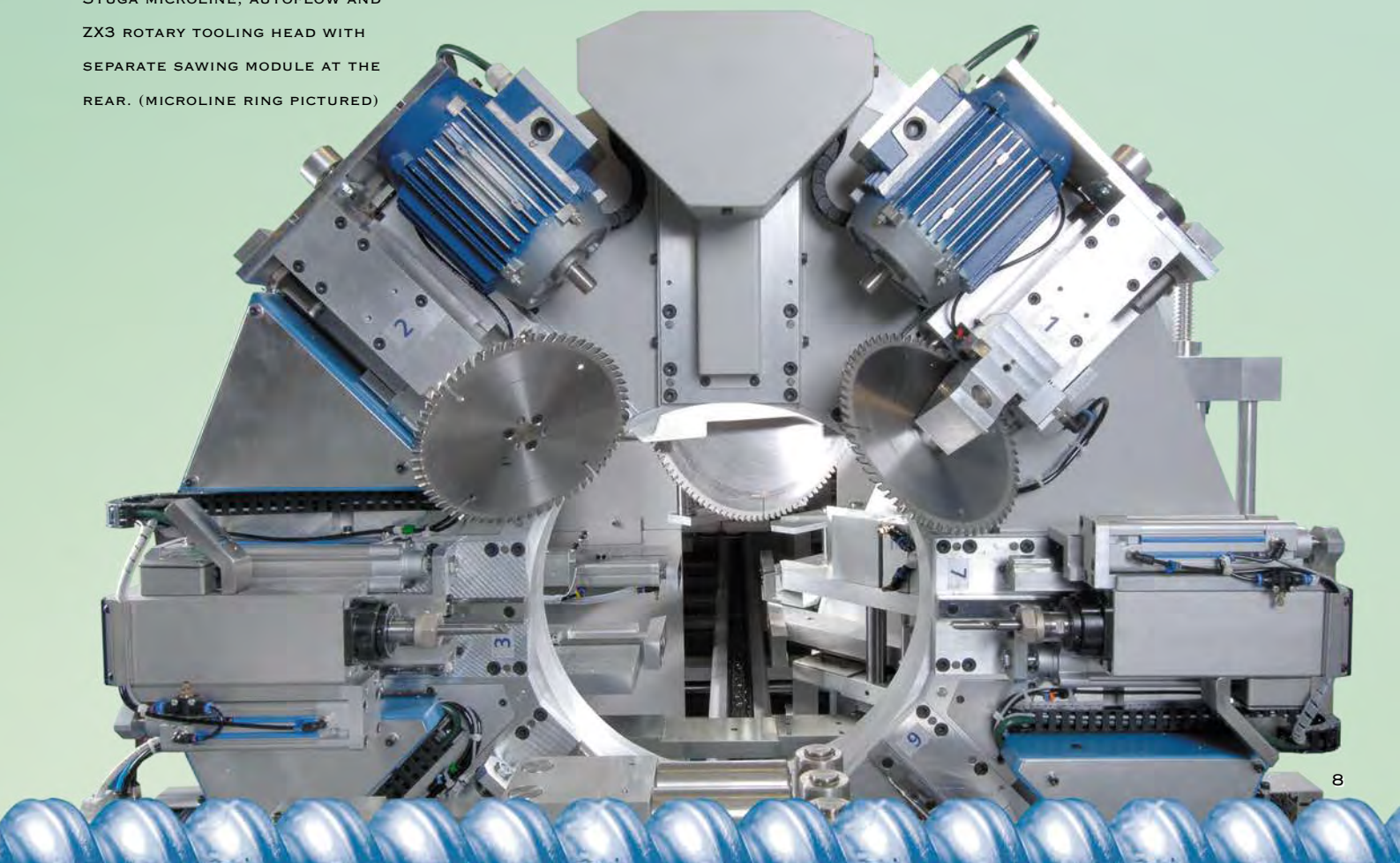


## ROTARY TOOLING AT ITS BEST

STUGA FLOWLINE ZX5 ROTARY TOOLING HEAD  
WITH SEPARATE 'V' NOTCHING MODULE  
AT THE REAR.



STUGA MICROLINE, AUTOFLOW AND  
ZX3 ROTARY TOOLING HEAD WITH  
SEPARATE SAWING MODULE AT THE  
REAR. (MICROLINE RING PICTURED)







# Stuga®

## Microline Sawing & Machining Center





#### SAWING MODULE

NOTE! NO LONGER MANUFACTURED NEW THE MICROLINE REMAINS A VERY POPULAR MACHINE AS A REFURBISHMENT (SUBJECT TO AVAILABILITY). THE REPLACEMENT VERSION OF THE MICROLINE IS CALLED THE AUTOFLOW-2.





THREE HUNDRED AND SIXTY DEGREE ROTARY TOOLING SYSTEM CREATES THREE HUNDRED AND SIXTY DEGREE POSITIONING ALLOWING UNLIMITED MACHINING POSSIBILITIES AND TOTAL PREPPING FLEXIBILITY, PRODUCING PERFORMANCE WELL BEYOND THAT OF FIXED HEAD MACHINES. IF A HEAD FAILS FOR ANY REASON ANOTHER HEAD CAN EASILY TAKE OVER ITS WORK.

TOTALLY FLEXIBLE INNOVATIVE CLAMPING SYSTEM DESIGNED TO HOLD ANY PROFILE INCLUDING PRE-GASKETTED. FULLY PROGRAMMABLE GRIPPER FOR BEST POSSIBLE POSITIONING. RIGHT TO LEFT VERSION ILLUSTRATED, BUT ALSO AVAILABLE FEEDING LEFT TO RIGHT.

ONLY 13.5 METERS LONG  
AND 2.3 METERS DEEP

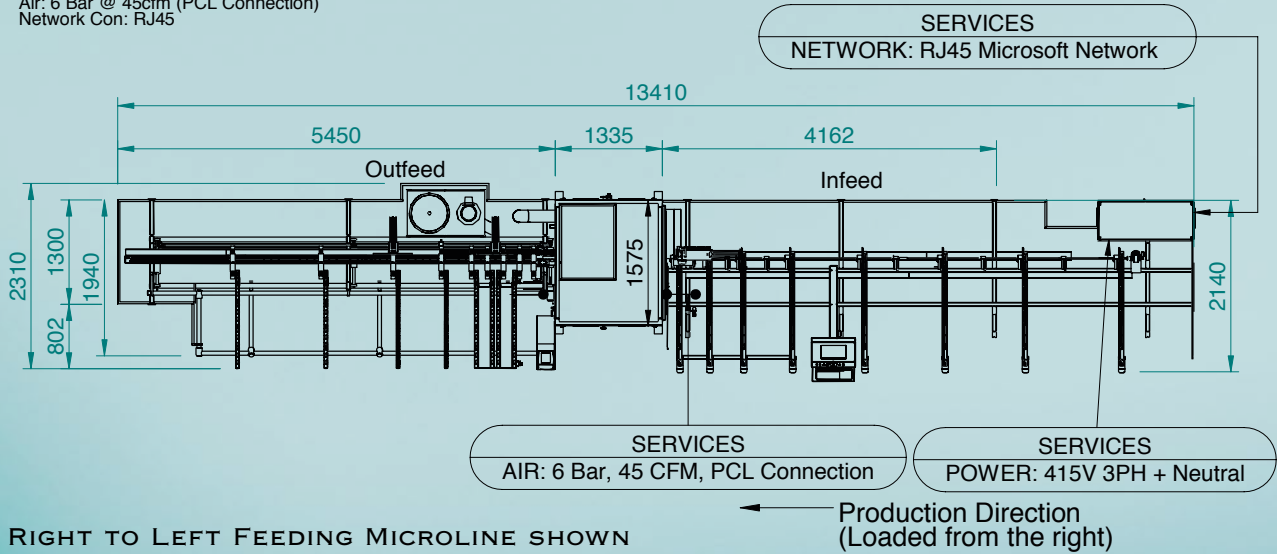


# Stuga Microline Cutting and Prepping

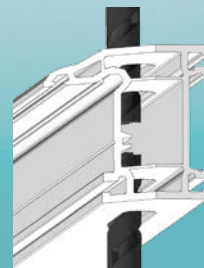


## SERVICES

Power: 415v 3PH + Neutral 20Amp  
 Air: 6 Bar @ 45cfm (PCL Connection)  
 Network Con: RJ45



RIGHT TO LEFT FEEDING MICROLINE SHOWN



## FOOTPRINT

13.5 METERS X 2.3 METERS

AVAILABLE AS

RIGHT TO LEFT OR

LEFT TO RIGHT

FLOW DIRECTION

DOUBLE PLUNGE FACILITY PREPS BOTH SIDES OF TRICKLE VENT OR DOOR SIMULTANEOUSLY DRAMATICALLY INCREASING OUTPUT OF THESE PRODUCTS



# Center for Volume Production

SQUARE

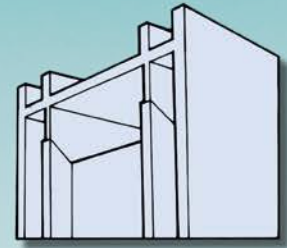
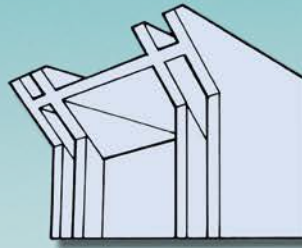
V - NOTCHES  
BOTH SIDES

MITRE

Y - NOTCHES

ARROWHEAD

Y - NOTCHES



## MACHINING MODULE CAPABILITY

UNLIMITED NUMBER OF DIFFERENT PREPS CAN BE APPLIED FROM ANY SIDE AT ANY ANGLE 0-360 DEGREES.

ALL DRAINAGE CONCEALED / FACE, INTERNALLY OR EXTERNALLY GLAZED, UPSTAND REMOVAL, PRESSURE EQUALISATION

SPOT PREPS FOR EASIER ASSEMBLY FRICTION STAY PILOT HOLES, DOOR HINGES, ANTI-BOW WEDGE, ANTI-JEMMY WEDGE, CASEMENT KEEPS, ALUMINIUM LOW THRESHOLD SPOT PREP

TRICKLE VENTS: FRAME OR SASH, THROUGH CHAMBER OR LEG

DOOR LOCKS IN ANY COMBINATION (INCLUDING DOUBLE PLUNGE) SINGLE, 3 OR 4 POINT, STABLE DOORS, FRENCH / SLAVE DOORS, PATIO DOOR LOCKS, HINGE DOOR LOCKS

DOOR LOCK JAMB

LETTER PLATES INCLUDING FIXING HOLES

ESPAG AND SHOOTBOLT LOCKS TILT & TURN HINGES & LOCKS, FULLY REVERSIBLE HINGES & LOCKS

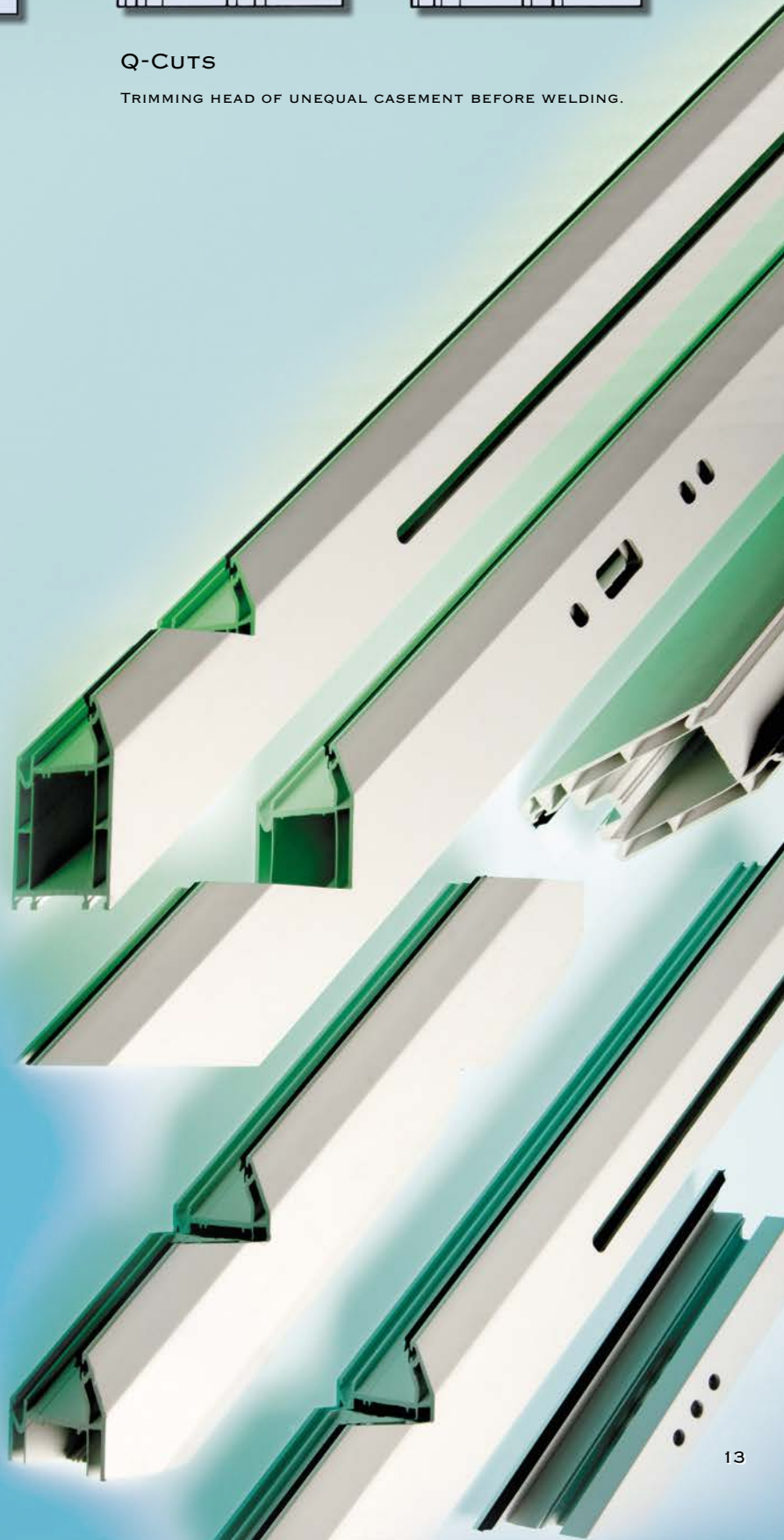
MECHANICAL TRANSOM FRAME DRILLING, REINFORCING RELIEF PORT, BEAD CHANNEL FORMING

V NOTCHING FROM BOTH SIDES Y NOTCHING (HALF V NOTCH BEFORE REVERSE-BUTT PREP)

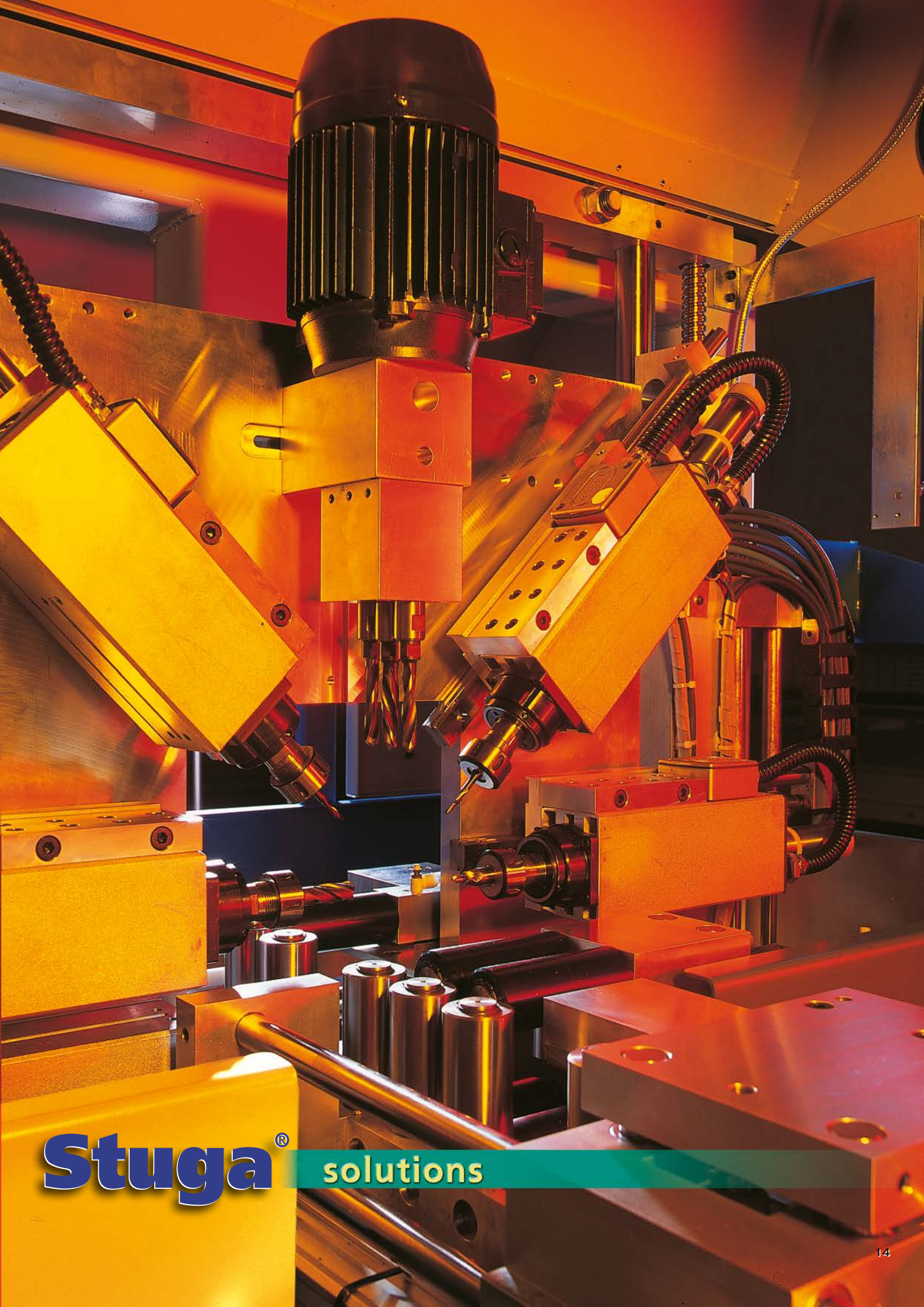
NOTE! ALL COMMON BRITISH AND IRISH WINDOW PROFILES CAN BE ACCOMMODATED AND NO CONTOUR BLOCKS OR OTHER TOOLING IS REQUIRED. THE MICROLINE CAN PROCESS MOST KNOWN PROFILES IN THE UK MARKET.

## Q-CUTS

TRIMMING HEAD OF UNEQUAL CASEMENT BEFORE WELDING.







**Stuga**<sup>®</sup> solutions





**Stuga<sup>®</sup>**

**Ecoline  
Prepping Center**



# Stuga®

ecoline p





# Prepping center

THE ECOLINE PREPPING CENTER WILL WORK IN CONJUNCTION WITH ANY UPVC SAW OR SAW CENTER TO CARRY OUT ALL WINDOW AND DOOR PREPS INCLUDING DRAINAGE, TRICKLE VENTS, ESPAGS/ SHOOTBOLTS, 'V' NOTCHES AND ALL DOOR PREPS. THE ECOLINE SAVES SPACE AS WELL AS LABOUR.

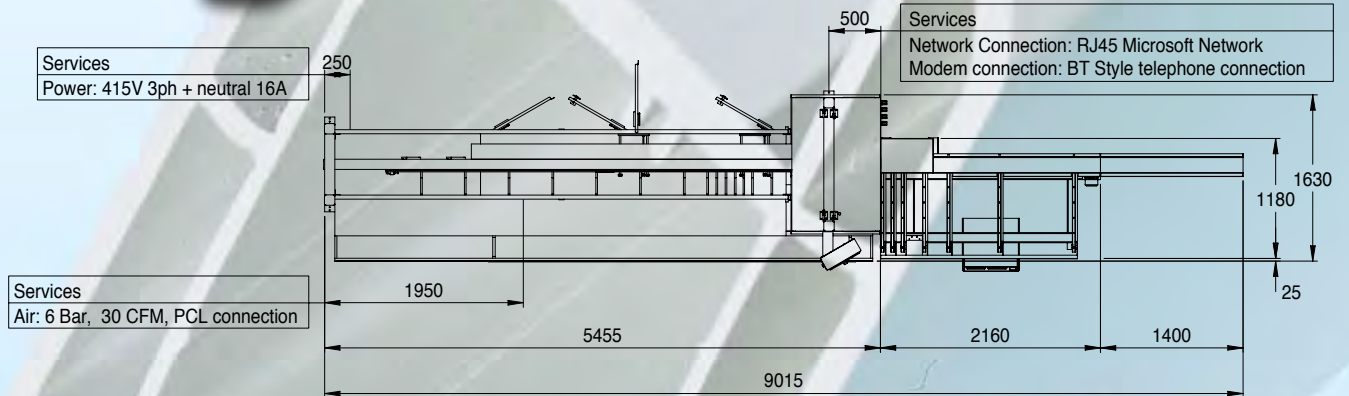
WHY NOT TAKE THE SKILL OUT OF PREPPING WITH THIS SLICK, QUICK, EFFICIENT MACHINING CENTER?



NOTE! NO LONGER MANUFACTURED NEW THE ECOLINE IS ONE OF OUR MOST POPULAR REBUILT MACHINES (SUBJECT TO AVAILABILITY). THERE ARE CURRENTLY NO PLANS TO REPLACE THIS MACHINE.



# Stuga<sup>®</sup> ecoline specification



## ELECTRONICS

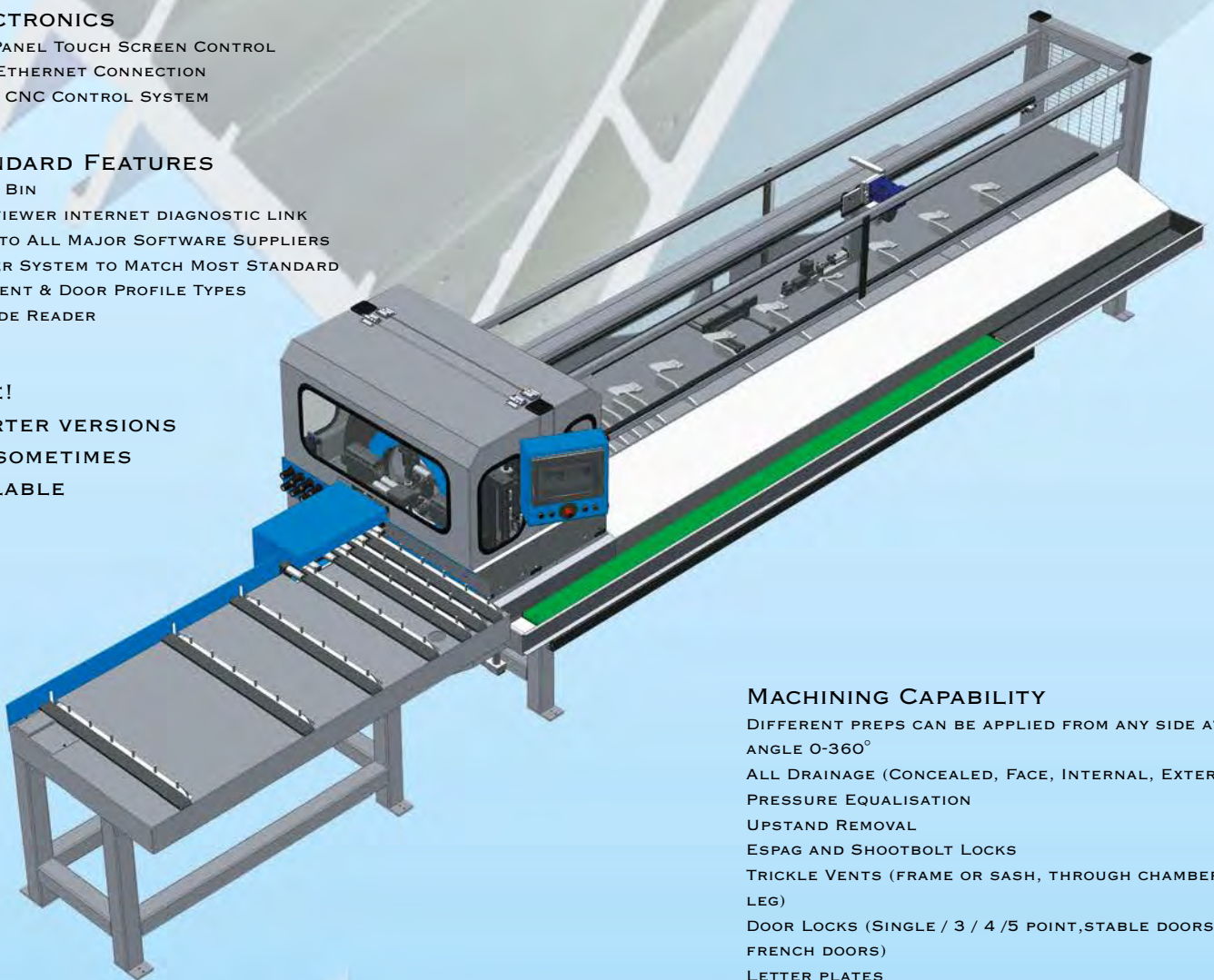
FLAT PANEL TOUCH SCREEN CONTROL  
RJ45 ETHERNET CONNECTION  
6 AXIS CNC CONTROL SYSTEM

## STANDARD FEATURES

SWARF BIN  
TEAM VIEWER INTERNET DIAGNOSTIC LINK  
LINKS TO ALL MAJOR SOFTWARE SUPPLIERS  
GRIPPER SYSTEM TO MATCH MOST STANDARD  
CASEMENT & DOOR PROFILE TYPES  
BARCODE READER

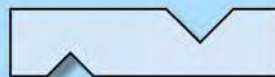
## NOTE!

SHORTER VERSIONS  
ARE SOMETIMES  
AVAILABLE

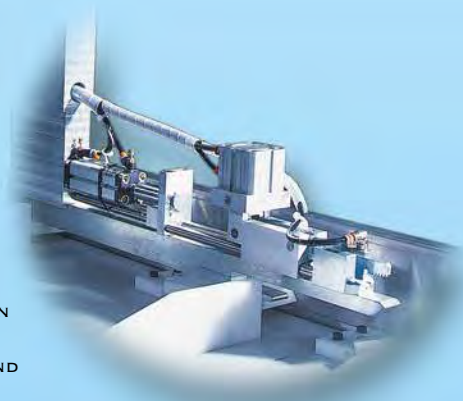


## MACHINING CAPABILITY

DIFFERENT PREPS CAN BE APPLIED FROM ANY SIDE AT ANY ANGLE 0-360°  
ALL DRAINAGE (CONCEALED, FACE, INTERNAL, EXTERNAL)  
PRESSURE EQUALISATION  
UPSTAND REMOVAL  
ESPAG AND SHOOTBOLT LOCKS  
TRICKLE VENTS (FRAME OR SASH, THROUGH CHAMBER OR LEG)  
DOOR LOCKS (SINGLE / 3 / 4 / 5 POINT, STABLE DOORS, FRENCH DOORS)  
LETTER PLATES  
DOOR HINGE SPOT PREPS  
V NOTCHING (SOME MODELS FRONT ONLY)



THE FULLY PROGRAMMABLE AND FLEXIBLE GRIPPER SYSTEM BASED ON AN ADVANCED DESIGN TAKEN FROM THE HIGHLY SUCCESSFUL SAWING AND PREPPING CENTERS.







**Stuga<sup>®</sup>**

Autocut

Sawing Center







# Stuga<sup>®</sup> Sawing Center

THE FULLY AUTOMATIC STUGA SAWING CENTER IS CAPABLE OF CUTTING MITRES, SQUARES AND ARROW HEADS ON ANY PVCU DOOR AND WINDOW PROFILE, IN ANY COMBINATION. THE MACHINE CAN BE PROGRAMMED DIRECTLY FROM THE KEYBOARD WITH THE USER FRIENDLY OPERATING INTERFACE, OR PROGRAMMED OFF-LINE VIA MEMORY STICK OR NETWORK LINKED TO THE OFFICE WINDOW DESIGNING PACKAGE. IT COMES COMPLETE WITH A MULTIBAR AUTO LOADING TABLE FOR UP TO 6.5 METRE PROFILE LENGTHS AND SHORTER OFFCUT LENGTHS.

THE MATERIAL IS ADVANCED WITH A SIMPLE PUSHER ARM, COMMON FOR ALL PROFILES. THIS ALLOWS THE MACHINE TO CUT TO THE VERY ENDS OF THE BAR, MINIMISING WASTAGE TO JUST THE UNAVOIDABLE SAWBLADE KERF. THE TWO FLAT, PARALLEL SIDES OF THE PROFILE ARE THE CUTTING DATUM, SO AN INFINITE RANGE OF PROFILE TYPES, BRANDS AND SIZES CAN BE ACCOMMODATED WITHOUT HAVING TO CHANGE THE MACHINE CONFIGURATION. THE MACHINE IS DESIGNED TO BE SIMPLE TO USE FOR LESS SKILLED OPERATORS.



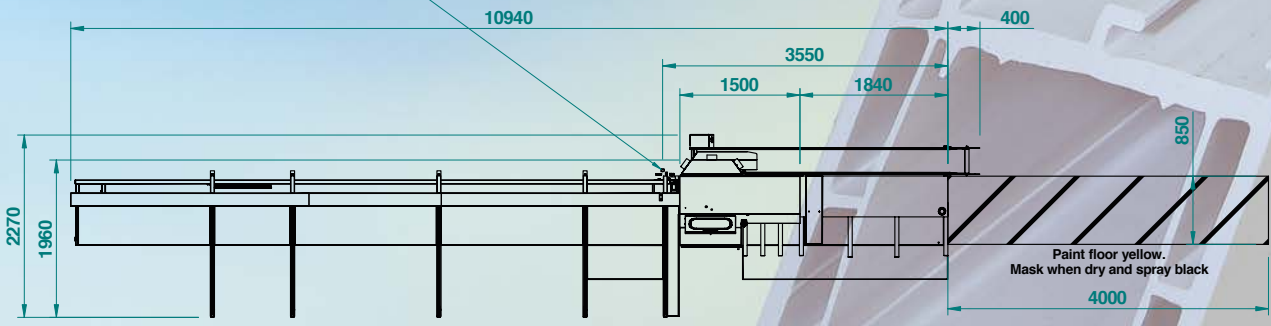
**WHY INVEST IN A DOUBLE MITRE SAW WHEN THE STUGA AUTOCUT SAW CENTER CAN DO SO MUCH MORE WITH LESS SKILL AND MORE ACCURACY AND CONSISTENCY? SUITABLE FOR ALL SIZES OF UPVC WINDOW AND DOOR FABRICATOR.**



# End Preparations



**SERVICES**  
 POWER: 415V 3Ph + neutral 15A AIR: 6-8 Bar @ 45cfm (PCL Connection) NETWORK: RJ45 Microsoft Network



PRODUCTION DIRECTION  
 (LOADED FROM THE LEFT) →

**SERVICES**  
 Power: 415V 3Ph + Neutral 15A  
 Air: 6-8Bar @ 45 cfm (PCL Connection)  
 Network Con: RJ45

ALSO AVAILABLE IN RIGHT TO LEFT VERSION

# Stuga<sup>®</sup>

Stuga CNC Routermaster





# the Stuga CNC Router

## FEATURES

THE STUGA COMPUTER CONTROLLED ROUTER REPRESENTS A TECHNICALLY ADVANCED SYSTEM OF ROUTER MACHINING FOR PREPARATION OF ALUMINIUM AND PVC-U EXTRUSIONS. THE CUTTING HEADS CAN BE PROGRAMMED TO MOVE THROUGHOUT THREE DIMENSIONS TO CUT OR DRILL ANY ARRANGEMENTS OF SLOTS OR HOLES.

## FULLY AUTOMATIC MACHINING CYCLE

CAN BE USED BY UNSKILLED OPERATORS  
HIGH VOLUME PRODUCTION WITH  
CONSISTENT ACCURACY  
INSTANT CHANGE-OVER OF ROUTING ROUTINES  
USES STANDARD 8 MM CUTTERS



## CONTROL SYSTEM

USING THE LATEST PC COMPATIBLE COMPUTER SYSTEM, THE MACHINE RUNS A STORED PROGRAM OF MOVEMENT COMMANDS. THE PROGRAMS ARE SECURELY STORED ON A HARD DISK DRIVE INSIDE THE MACHINE. AN EDITOR FACILITY ALLOWS PROGRAMS TO BE CREATED, EDITED AND STORED.

## MATERIAL CLAMPING

SECURE CLAMPING IS PROVIDED BY A NUMBER OF CLAMP BLOCK ASSEMBLIES. THE UPWARD STROKE OF THE CLAMPS WILL ENSURE AN ACCURATE DATUM TO THE TOP PROFILE BLOCKS. THE CLAMPING ASSEMBLIES ARE PNEUMATIC POWERED AND ACTUATED BY A FOOT VALVE.

## VARIANTS

THE STUGA ROUTER CAN BE SUPPLIED WITH THREE DIFFERENT LENGTH CAPACITIES AND TWO DIFFERENT HEIGHT CAPACITIES. (CAPACITIES SHOWN ARE MACHINING CAPACITIES).

MODEL	LENGTH CAPACITY	HEIGHT CAPACITY
STU-R22-S	2200 MM	80 MM
STU-R35-S	3500 MM	80 MM
STU-R41-S	4100 MM	80 MM
STU-R22-H	2200 MM	160 MM
STU-R35-H	3500 MM	160 MM
STU-R41-H	4100 MM	160 MM

## CARRIAGE & CUTTER HEAD

THE CARRIAGE UNIT FEATURES A MULTI-SPINDLE OVERARM HEADSTOCK OF THREE 90 DEGREE OPPOSED CUTTER SPINDLES. USING STANDARD 8 MM CUTTERS MACHINING CAN BE CARRIED OUT ON ANY OF THREE FACES ALONG THE ENTIRE LENGTH OF AN EXTRUDED SECTION.

## GENERAL INFORMATION

PRECISION LINEAR BEARINGS ON ALL SLIDEWAYS

PC COMPATIBLE COMPUTER CONTROL SYSTEM INCLUDING:  
MEMORY STICK (FOR BACKUP)

HARD DISK DRIVE (INTERNAL PROGRAM STORAGE)

TOUCH SCREEN INTERFACE

PULL-OUT KEYBOARD

## STANDARD EQUIPMENT

LEFT HAND MATERIAL STOP

FOUR OFF MATERIAL CLAMPS

HIGH / LOW PRESSURE 2 STAGE CLAMP SYSTEM

FULL ACOUSTIC HOOD GUARDING  
INTERNAL FLUORESCENT STRIP LIGHT

TEAM VIEWER

INTERNET DIAGNOSTICS

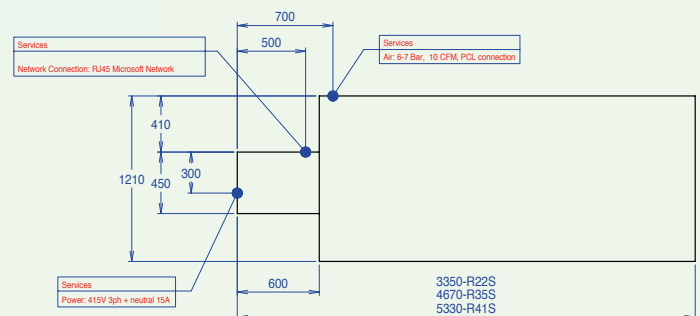
RIGHT HAND STOP OR CENTER STOP FOR WORKING EACH HAND OF DOOR SECTION

ETHERNET CARD LINK TO OFFICE COMPUTER FOR CENTRALISED DATA STORAGE AND OFF-LINE PROGRAM EDITING

SERVO DRIVE ON MAIN AXIS 20 M/MIN TRAVERSE SPEED

## OPTIONAL EXTRAS

BAR-CODE READER, SPRAY MIST COOLANT



NOW WITH WINDOWS<sup>TM</sup> FRONT END SOFTWARE

NOTE!  
CURRENTLY ONLY AVAILABLE  
AS A REBUILD/REFURB.

# stuga autoflow 2 sawing and machining center

a volume orientated yet compact  
machine for fully automatic sawing  
and machining of uvc windows and doors



THE AUTOFLOW 2 IS DESIGNED FOR ALL CASEMENT WINDOWS, TILT AND TURN, VERTICAL SLIDERS, ALL DOORS INCLUDING BI FOLDS, RESIDENTIAL DOORS, FRENCH DOORS AND INLINE SLIDERS PRODUCING AN OUTPUT OF APPROXIMATELY 400 WINDOWS PER WEEK.

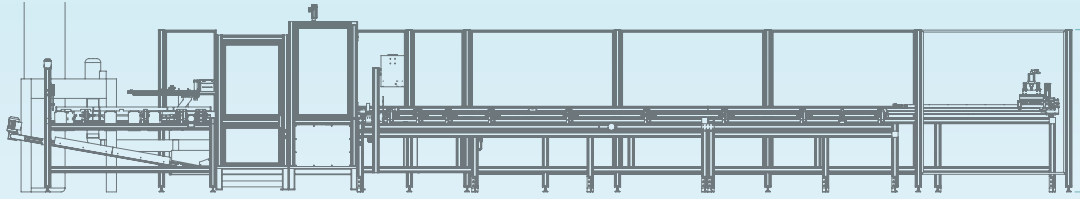
EACH SECTION OF A 'VS' WINDOW CAN BE AUTOMATICALLY PRODUCED ON THE 'VS' VERSION OF THIS MACHINE INCLUDING FRAME TO CILL ANGLE AND MECHANICAL PREPS IN CILL FOR BOLTING TO FRAME. LEADING EDGE SOFTWARE ENSURES SPEEDY THROUGHPUT OF PRODUCT AND EXCELLENT PROFILE OPTIMISATION TO MINIMISE WASTAGE. RANDOM OFFCUTS CAN BE USED AT ANYTIME.

ANOTHER THOROUGHbred FROM THE STUGA STABLE.

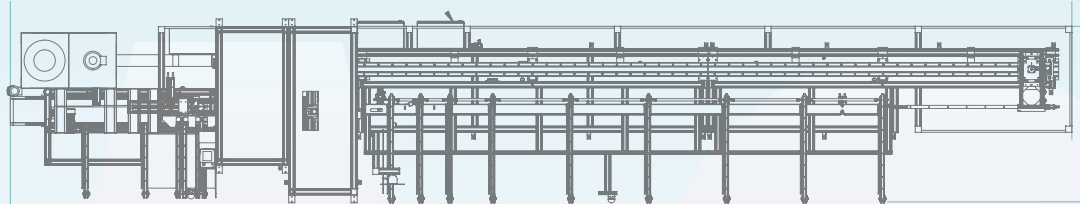
**Stuga**<sup>®</sup>  
Machinery



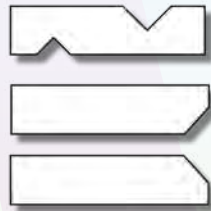
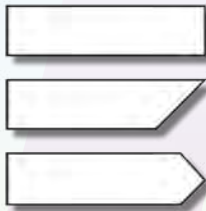
# autoflow2 for volume production



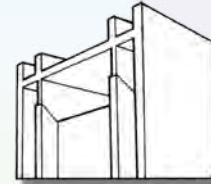
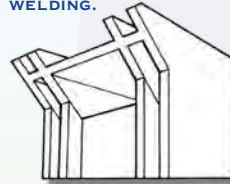
FOOTPRINT 13.5 METERS X 2.3 METERS



RIGHT TO LEFT FEEDING AUTOFLOW2 ALSO AVAILABLE LEFT TO RIGHT FLOW DIRECTION



Q-CUTS TRIMMING HEAD OF UNEQUAL CASEMENT BEFORE WELDING.



**MACHINING MODULE CAPABILITY UNLIMITED NUMBER OF DIFFERENT PREPS CAN BE APPLIED FROM ANY SIDE AT ANY ANGLE 0-360 DEGREES.**

**ALL DRAINAGE CONCEALED / FACE, INTERNALLY OR EXTERNALLY GLAZED, UPSTAND REMOVAL, PRESSURE EQUALISATION**

**SPOT PREPS FOR EASIER ASSEMBLY FRICTION STAY PILOT HOLES, DOOR HINGES, ANTI-BOW WEDGE, ANTI-JEMMY WEDGE, CASEMENT KEEPS, ALUMINIUM LOW THRESHOLD SPOT PREP**

**TRICKLE VENTS: FRAME OR SASH, THROUGH CHAMBER OR LEG**

**DOOR LOCKS IN ANY COMBINATION (INCLUDING DOUBLE PLUNGE) SINGLE, 3 OR 4 POINT, STABLE DOORS, FRENCH / SLAVE DOORS, PATIO DOOR LOCKS, HINGE DOOR LOCKS**

**DOOR LOCK JAMB LETTER PLATES INCLUDING FIXING HOLES**

**ESPAG AND SHOOTBOLT LOCKS**

**TILT & TURN HINGES & LOCKS, FULLY REVERSIBLE HINGES & LOCKS**

**MECHANICAL TRANSOM**

**FRAME DRILLING, REINFORCING RELIEF PORT, BEAD CHANNEL FORMING**

**V NOTCHING FROM BOTH SIDES**

**Y NOTCHING (HALF V NOTCH BEFORE REVERSE-BUTT PREP)**

**'VS' VERSION AVAILABLE WITH THE FOLLOWING:-**

**'VS' FRAME TO CILL ANGLE ON 'VS' FRAME.**

**PREPS IN CILL FOR BOLTING TO FRAME.**

**'VS' CILLS UP TO 150MM CAN BE PROCESSED AT 90°.**

**VARIABLE ANGLES BETWEEN 45° AND 135° CAN BE CUT ON FRAME AND SASH (OPTIONAL EXTRA).**

**DOUBLE PLUNGE FACILITY PREPS BOTH SIDES OF TRICKLE VENT OR DOOR SIMULTANEOUSLY DRAMATICALLY INCREASING OUTPUT OF THESE PRODUCTS**

# Stuga Machinery Technical Specification

## ALL MACHINES HAVE THE FOLLOWING FEATURES AS STANDARD

TEAMVIEWER INTERNET DIAGNOSTICS  
 INDUSTRIAL GRADE PC  
 MICROSOFT WINDOWS  
 TOUCHSCREEN CONTROL  
 ETHERNET NETWORK CONNECTION  
 USB CONNECTION  
 FULL OPERATOR AND MAINTENANCE TRAINING  
 FULL PROJECT MANAGEMENT OF INSTALLATION PROCESS

## TIMINGS (WINDOWS PER 40HR WEEK 100% EFFICIENCY)

TIMINGS INCLUDE THESE PREPS: (ALL DRAINAGE, V & Y NOTCHES, ESPAGS, 1 x 400MM TRICKLE VENT PER FRAME, DOOR LOCK, DOOR LOCK JAMB, LETTER PLATE, DOOR HINGES)

	ROUTER	SAW	ECOLINE	AUTOFLOW	ZX3	ZX4	ZX5
TYPICAL MIX OUTPUT (WINDOWS ONLY)	N/A	890	450	461	774	890	960
TOP HUNG OVER FIXED	N/A	1257	550	524	1005	1257	1309
SIDE HUNG / TOP OVER FIXED	N/A	775	400	339	650	775	847
STANDARD DOOR WITH MIDRAIL	400	650	250	400	510	510	640

## CAPACITY

	MIN	ROUTER	SAW	ECOLINE	AUTOFLOW	ZX3	ZX4	ZX5
PROFILE WIDTH (MM)		10	45	45	45	45	45	45
	MAX	100	130	130	150	130	130	130
PROFILE HEIGHT (MM)		10	40	55	30	55	55	55
	MAX	150	140	80	150	85	85	85
LOADED PROFILE LENGTH (MM)	MIN	100	500	300	700	700	700	700
	MAX	UNLIMITED	6500	4000	6500	6500	6500	6500
FINISHED CUT LENGTH (MM)	MIN	N/A	285	N/A	285	285	285	285
	MAX	N/A	6500	N/A	6500	6500	6500	6500
INFEED TABLE POSITIONS		N/A	8	6	8	8	8	8

## SPINDLES FOR ROUTING

	ROUTER	SAW	ECOLINE	AUTOFLOW	ZX3	ZX4	ZX5
HEADS	3	N/A	2	4	5	8	8
POWER (KW)	0.1	N/A	0.75	0.75	0.75	0.75	0.75
TOOL SIZE (MM)	2.5MM - 10MM	N/A	5MM	2.5MM-16MM	2.5MM-16MM	2.5MM-16MM	2.5MM-16MM
SPEED (RPM)	11000	N/A	18000	18000	18000	18000	18000
DOUBLE PLUNGE	No	N/A	No	YES	YES	YES	YES

## NOTCHING HEADS

	ROUTER	SAW	ECOLINE	AUTOFLOW	ZX3	ZX4	ZX5
HEADS	N/A	N/A	2	2	2	4	4
POWER (KW)	N/A	N/A	0.75	0.75	0.75	0.75	1
SPEED (RPM)	N/A	N/A	3000	3000	3000	3000	3000
BLADE DIAMETER	N/A	N/A	200	200	200	200	300

## SAWING HEADS

	ROUTER	SAW	ECOLINE	AUTOFLOW	ZX3	ZX4	ZX5
POWER (KW)	N/A	1.5	N/A	1.5	1.5	1.5	1.5
SPEED (RPM)	N/A	3000	N/A	3000	3000	3000	3000
BLADE DIAMETER	N/A	400	N/A	500	400	400	400
ROTATION (DEGREES)	N/A	-45 / 0 / +45	N/A	-45 / 0 / +45	-45 / 0 / +45	-45 / 0 / +45	-45 TO +45 VARIABLE

## POSITIONAL AXES

	ROUTER	SAW	ECOLINE	AUTOFLOW	ZX3	ZX4	ZX5
TRAVERSE SPEED (M/S)	1	6	1.5	2	2	2	2
NUMBER OF AXES	3	1	6	9	6	7	6

## SERVICES

	ROUTER	SAW	ECOLINE	AUTOFLOW	ZX3	ZX4	ZX5
PHASE	3PH + NEUTRAL	3PH + NEUTRAL	3PH + NEUTRAL	3PH + NEUTRAL	3PH + NEUTRAL	3PH + NEUTRAL	3PH + NEUTRAL
CURRENT (A)	16	16	16	20	20	20	20
VOLTAGE (V)	415 +/-10%	415 +/-10%	415 +/-10%	415 +/-10%	415 +/-10%	415 +/-10%	415 +/-10%
FREQUENCY (Hz)	50	50	50	50	50	50	50
AIR PRESSURE (BAR)	6	6	6	6	6	6	6
MAX AIR CONSUMPTION (CFM)	5	35	30	45	45	45	45
NETWORK	CAT-5	CAT-5	CAT-5	CAT-5	CAT-5	CAT-5	CAT-5
DIAGNOSTIC CAMERAS	No	No	2	3	3	4	4

## MACHINING CAPABILITY

	ROUTER	SAW	ECOLINE	AUTOFLOW	ZX3	ZX4	ZX5
ALL DRAINAGE	No	N/A	YES	YES	YES	YES	YES
UPSTAND REMOVAL	No	N/A	YES	YES	YES	YES	YES
ESPAG AND SHOOTBOLT LOCKS	YES	N/A	YES	YES	YES	YES	YES
TRICKLE VENTS	YES	N/A	YES	YES	YES	YES	YES
DOOR LOCKS	YES	N/A	YES	YES	YES	YES	YES
DOOR LOCK JAMB	YES	N/A	YES	YES	YES	YES	YES
LETTER PLATES	YES	N/A	YES	YES	YES	YES	YES
SPOT PREPS	YES	N/A	NOT RECOMMENDED	YES	YES	YES	YES
MECHANICAL TRANSOM	YES	N/A	YES	YES	YES	YES	YES
V NOTCHING (BOTH SIDES)	No	N/A	YES	YES	YES	YES	YES
Y NOTCHING (BOTH SIDES)	No	N/A	No	YES	YES	YES	YES
Q-CUTS	No	N/A	No	YES	YES	YES	YES

## SAWING CAPABILITY

	ROUTER	SAW	ECOLINE	AUTOFLOW	ZX3	ZX4	ZX5
SQUARE END	N/A	YES	N/A	YES	YES	YES	YES
MITRED END	N/A	YES	N/A	YES	YES	YES	YES
ARROW-HEAD END	N/A	YES	N/A	YES	YES	YES	YES
COMPOUND TILT ANGLE	No	No	No	WITH OPTION	No	No	No
Y-DRIVE	No	No	No	YES	No	No	YES

## STANDARD EQUIPMENT

	ROUTER	SAW	ECOLINE	AUTOFLOW	ZX3	ZX4	ZX5
FULL ACOUSTIC GUARDING							
BARCODE PRINTER		BARCODE PRINTER	SWARF BIN	BARCODE PRINTER	BARCODE PRINTER	BARCODE PRINTER	BARCODE PRINTER
BAR OPTIMISING SOFTWARE		BAR OPTIMISING SOFTWARE	BARCODE READER	BAR OPTIMISING SOFTWARE	BAR OPTIMISING SOFTWARE	BAR OPTIMISING SOFTWARE	BAR OPTIMISING SOFTWARE
OFFCUT STORAGE		OFFCUT STORAGE		OFFCUT STORAGE	OFFCUT STORAGE	OFFCUT STORAGE	OFFCUT STORAGE
EXTRACTION		EXTRACTION		EXTRACTION	EXTRACTION	EXTRACTION	EXTRACTION
FULL SAFETY GUARDING		FULL SAFETY GUARDING		FULL SAFETY GUARDING	FULL SAFETY GUARDING	FULL SAFETY GUARDING	FULL SAFETY GUARDING
					TOOL BREAK DETECTION	TOOL BREAK DETECTION	TOOL BREAK DETECTION
							SAW Y DRIVE
							BAR WIDTH MEASURING
							TRU-LOC GRIPPER
							VARIABLE ANGLE -45 TO 45
							QUAD-PLUNGE TOOLING

## OPTIONAL EQUIPMENT

	ROUTER	SAW	ECOLINE	AUTOFLOW	ZX3	ZX4	ZX5
BARCODE READER							
MOD FOR LARGER WIDTH							
COMPOUND ANGLE FOR VS OUTERFRAME							

NOTE: ANY OUTPUT FIGURES QUOTED ARE BASED ON CERTAIN ASSUMPTIONS AND ARE NOT GUARANTEED. IF YOU WOULD LIKE EXACT OUTPUT FIGURES FOR ANY MACHINE, PLEASE FORWARD DETAILED INFORMATION ON VOLUMES, STYLES, OPERATIONS, PROFILES AND SIZES AND WE WILL OFFER A DETAILED REPORT WHICH CAN BE GUARANTEED. IN THE INTEREST OF CONSTANT IMPROVEMENT, STUGA RESERVE THE RIGHT TO MAKE CHANGES TO THE ABOVE AT ANY TIME WITHOUT NOTICE.



# Stuga®

FOR FURTHER INFORMATION ON ALL  
STUGA PRODUCTS AND SERVICES CALL  
01493 742348

STUGA MACHINERY  
BRINELL WAY, HARFREYS IND. EST.,  
GREAT YARMOUTH, NORFOLK.  
NR31 0LU.

FOR FURTHER INFORMATION  
VISIT THE CONTACT PAGE ON  
THE STUGA WEBSITE  
OR CALL THE NUMBER BELOW

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