

Precision Tooling Systems



Welcome to Coventry Toolholders

Coventry Toolholders, established over 30 years ago have the capability to design, manufacture and supply high quality standard and special tool holding solutions for all sectors of industry from our manufacturing base in the Midlands.

A comprehensive range of standard and bespoke tooling solutions are available to cater for all your tool holding requirements on CNC or manual turning and milling machines.

Special Products

- Special Hydraulic Toolholding and Workholding.
- Extended Toolholders with 300mm plus reach.
- Grinding machine arbors for use on internal/external grinding machines.
- Extended milling arbors designed to hold large side and face milling cutters where cutting position is critical.
- Custom designed toolholders manufactured to customer specific requirements.
- Complete consultancy, design and manufacturing service on site at our base in the Midlands or online.



High Performance Driven Tools

- Zero-point adjustment for short set up times.
- Sealed grease lubrication for longer life.
- Gears selected for maximum power transmission.
- External and internal coolant.
- Shanks according to DIN ISO 10889 (DIN 69880).
- Concentricity accuracy $\leq 0.01\text{mm}$.
- Axis Parallelism $\leq 0.02\text{mm}$.



Polygon Shank Tool Holders



Toolholders are manufactured to the ISO 26623-1 standard and are compatible with all machines with polygon style spindle tapers. Made from high grade steel hardened to 58HRC quality and durability is assured.

Taper sizes EPS 32, EPS 40, EPS 50, EPS 63, EPS 80.

High performance toolholders are balanced to G2.5@25,000.

Range available:

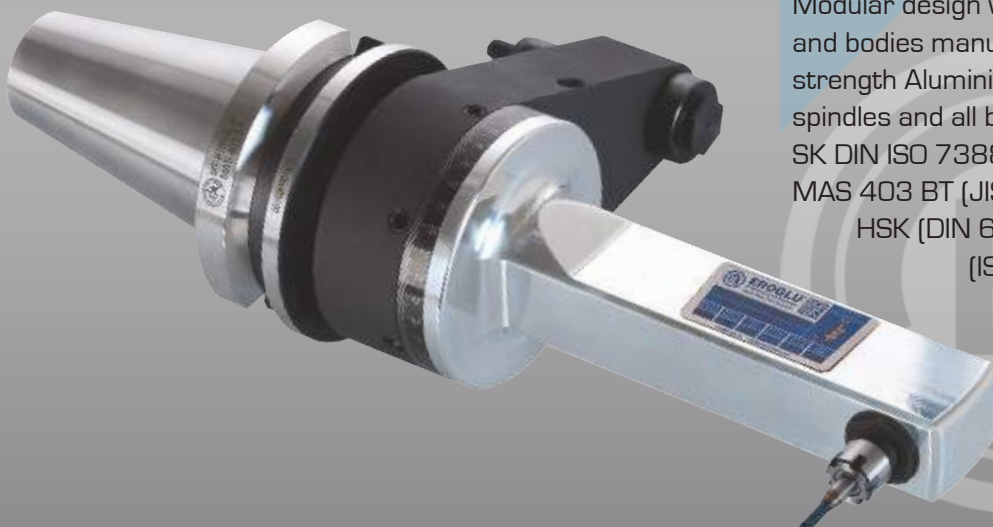
- Spindle Adapters Extensions/Reducers
- Standard Toolholders
- High Performance Toolholders Hydraulic/Heat Shrink/High Grip
- Toolholders for Tip Pocket Applications
- Blanks, Calibration Bars and Accessories

Slimline Angle Heads

For the most challenging applications where space is at a premium.

Modular design with 360° scale ring and bodies manufactured from high strength Aluminium. Various output spindles and all back ends available - SK DIN ISO 7388-1 (DIN 69871), MAS 403 BT (JIS B 6339), HSK (DIN 69893) and EPS (ISO 26623-1).

Specials available to order.

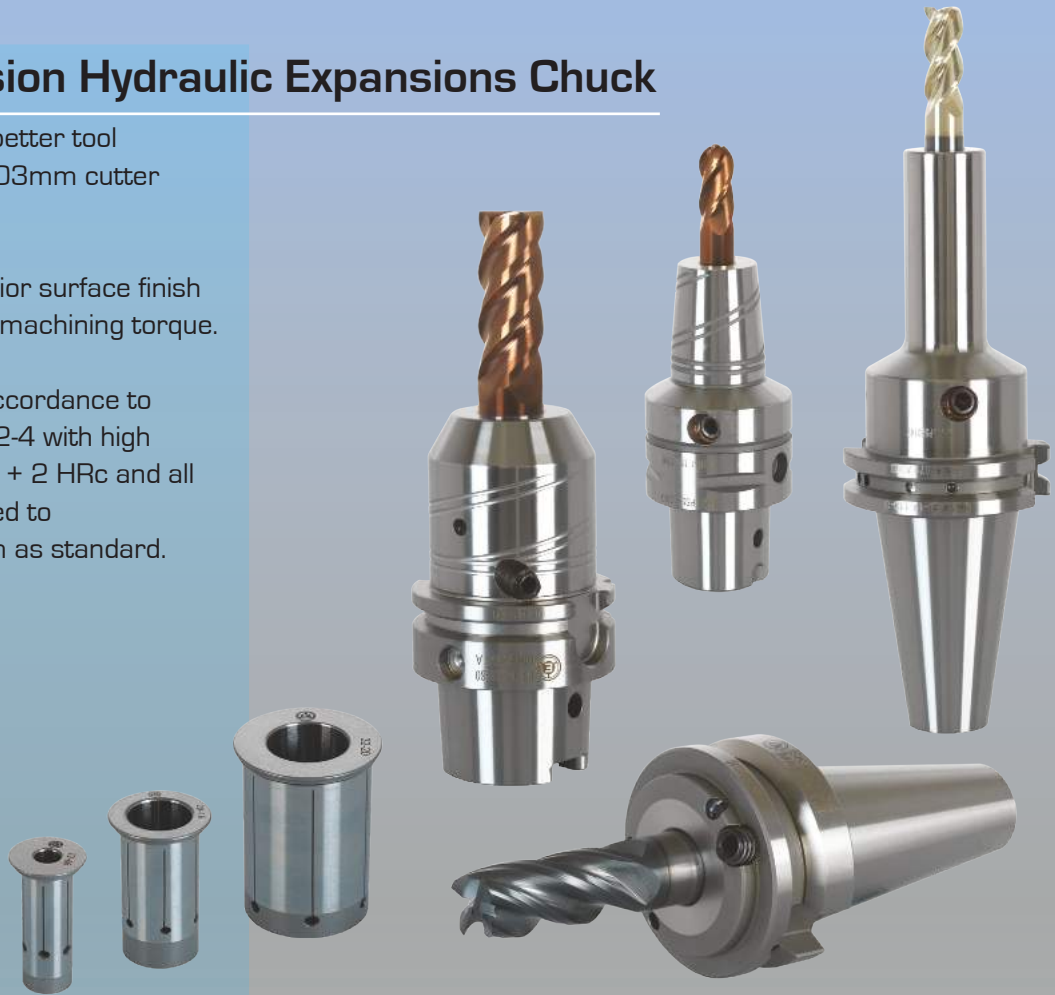


High Precision Hydraulic Expansions Chuck

High accuracy for better tool life – less than 0.003mm cutter concentricity.

High Grip for superior surface finish with up to 800Nm machining torque.

Manufactured in accordance to DIN69882-7; 2002-4 with high tensile material 52 + 2 HRc and all toolholders balanced to G2.5 @ 25,000rpm as standard.



High Precision Pull Type Collet Chucks

Closing the collet by pulling it back into the chuck body allowing it to be rigidly fixed to the chuck body and a tapered sleeve pushes forward over the collet to compress it.

Offering rigidity and accuracy on the tool as you push your feed rates.

Balanced to G2.5 @ 25,000rpm as standard.



Collets available in various sizes

Clamping Heads and Chucks

Power and manually operated chucks and clamping heads offering with concentricity $\leq 0.005\text{mm}$ allowing higher feed rates from a rigid design.



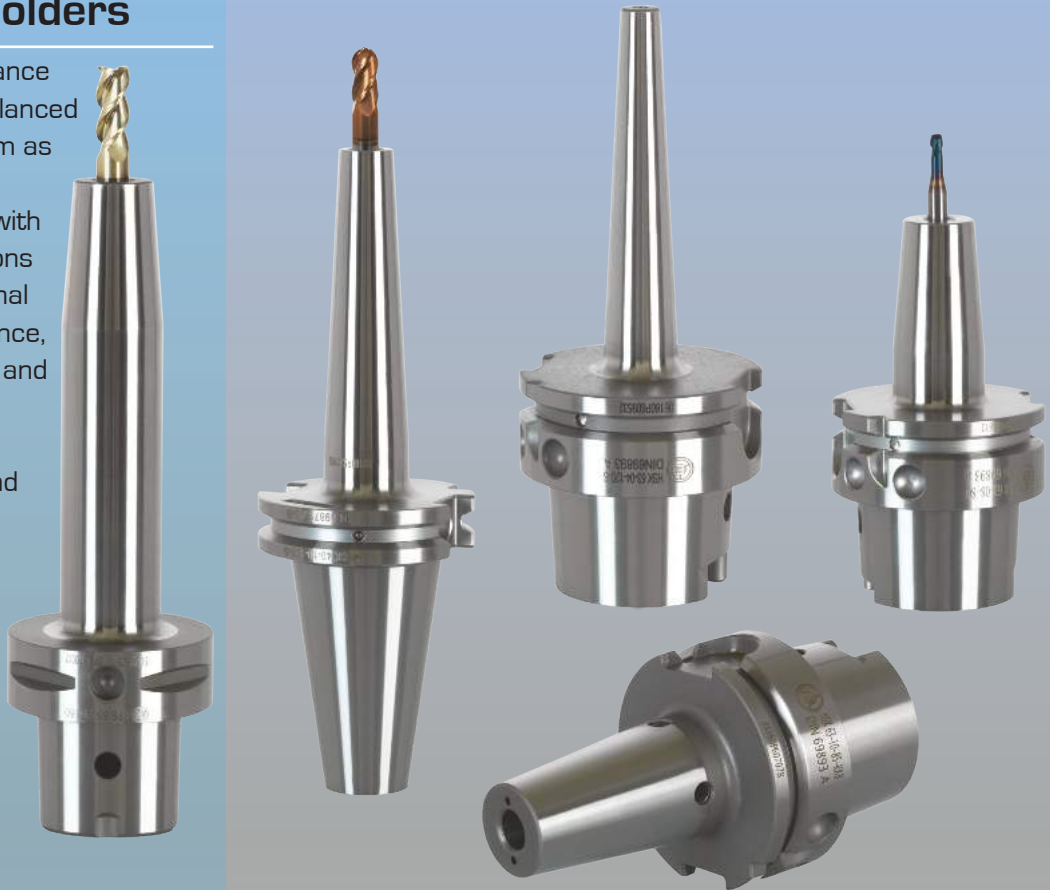
High Performance Drill Chucks

Accuracy, easy fit, fast and reliable operation is key, with capacity of 0.6mm to 16.00mm the rigidity gives you accurate drilling every time whilst as you push your feed rates. HRC58+/-2, less than 0.020mm run out, balanced to G2.5 @ 25,000rpm as standard, specials available balanced to G2.5 @ 35,000rpm.



Shrink Toolholders

Offer a high-performance clamping solution, balanced to G2.5 @ 25,000rpm as standard or special G2.5 @ 50,000rpm with through coolant options maintaining exceptional quality and performance, ideal for most milling and drilling requirements offering excellent clamping strength and rigidity with a much slimmer nose profile than conventional tool holders, HRC52+/-2, less than 0.003 cutter concentricity.



EPS and HSK-T radial – Axial Toolholders

Rotating chuck and a revolving milling spindle, thus enabling both turning and milling on the same machine. Hence a combination of both standard rotating tools and static turning tools are required.

Coventry Toolholders supply a range of tooling to suit both static and rotating spindle type machines. The common taper systems are EPS ISO 26623-1 (Capto), HSK form T, KM and 40/50 taper BT/DIN69871 systems.



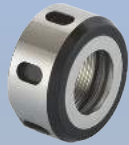
Accessories

A wide range of parts to support the range from drill chucks to Tool Extensions to tool trolleys, bushes and collets along with tapping chucks and tightening fixtures; everything that's required to support your standard toolholding.

- Straight Shanks/Extensions/Adaptors Precision Reduction Sleeves and Bushes Collet Systems - ER, DA, TG etc.
- Tapping Collet Systems - ER, Quick change Pullstuds (Retention Knobs)
- General Accessories
- Tightening Fixtures
- Heat Shrink Units
- Tool Storage Systems
- Edge Finders and Tool Height Setting Locknuts
- Spares



Weldon Reduction Adaptors



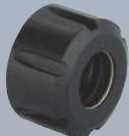
Hi Grip Bearing Locknuts



Q/C Tapping Adaptors - Clutch Type



Milling Cutter Arbor Reduction Adaptors



Locknuts - ER, DA, TG etc.



Q/C Tapping Adaptors - Fixed Type



Saw Blade Holder



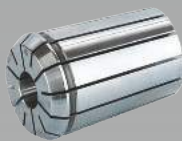
Collet ER - DIN6499-B



Universal Assembly Block 90°



Collet Extensions with Cylindrical Shank



Collet - DIN6388-B



Tightening Fixtures Aluminium



Shrink Fit Extensions



Milling Chuck Reduction Sleeves



Tightening Fixtures Steel with Roller Bearings



Pull Studs



Hydraulic Chuck Reduction Sleeves



Collet Set



HSK Coolant Tubes and Tightening Wrench



Tool Trolley





Coventry Engineering specialises in the manufacturer of precision static and driven spindle tooling and toolholders, both manufactured in-house and supplied as appointed distributor for quality engineered products.

Our Midlands based manufacturing site in the centre of the UK has the ability to produce complex build to print or build to design components for industry customers globally, we hold AS9100 approval for our Aerospace and Defence customers which runs throughout the business as the standard for any project we're involved with supporting:

- **Aerospace**
- **Defence**
- **Machine Tools**
- **Oil and Gas**
- **Motorsport**
- **Medical**

COVENTRY **TOOLHOLDERS**

Standard and custom products for work holding and tooling.

CENTRELINE

Standard and custom driven 90 deg angle heads, universal and fixed angle heads plus speeders and tapping heads designed to your requirements.

COVENTRY **ENGINEERING SERVICES**

Build to print and design to build components for industry using the latest cutting-edge machinery and processes for all markets.

Coventry Engineering Group

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