

Capable contouring

For the production of highly accurate and intricate contours, Walter GB claims its new Prototyp ConeFit universal modular milling cutter system provides an ideal solution.

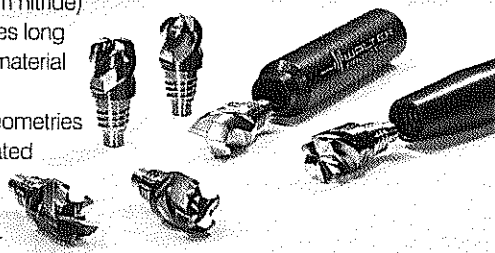
The system is based on a solid carbide milling head that is located into the steel toolholder via an innovative self-centring precision mounting thread – said to be the first of its kind. With interchangeable milling heads of different diameters, users' tool costs can be dramatically reduced since fewer complete tools need to be purchased.

Featuring a hybrid buttress and trapezoidal thread, the system is based around a ground cone for exact concentricity and an axial support face that guarantees rigidity and, therefore, process reliability. Available in diameters of 10mm to 20mm, the solid carbide heads feature a special TAX (titanium aluminium nitride) coating that ensures long tool life on all ISO material groups.

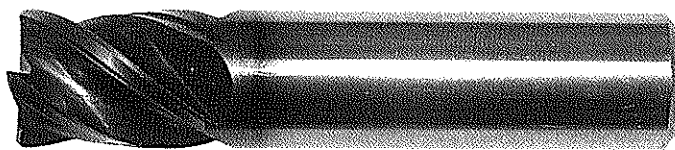
Cutting edge geometries have been duplicated from the successful and established Walter

Prototyp range. Versions for roughing and finishing and contour and profile milling are available in a variety of forms and both long and short toolholders can be supplied.

WALTER TOOLS
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It's all in the geometry



For the machining of steels and additional difficult to machine materials, ITC has now launched its 4041 Cyber Series range of four flute carbide end mills.

The new series is the result of extensive R&D that has seen the Tamworth-based cutting tool specialist work closely with customers to design a range of tooling that is said to deliver excellent metal removal rates.

The new four flute solid carbide 4041 series has a square end with corner chamfer to prevent chipping, which enhances tool life when conducting heavy cutting operations.

Designed to deliver high

performance when machining aerospace and motorsport grade alloys and steels, the 4041 series has a dynamic geometry with a short flute length and unequal flute spacing, which claims to reduce machining noise by eliminating the harmonic effect. It also enhances metal removal rates significantly whilst the short flute length complements the dissipation of the harmonic effect by increasing the rigidity of the series.

With increased rigidity and efficient flute geometry the 4041 series can conduct deep cutting at high feeds and speeds whilst delivering good surface finishes.

The capability to machine difficult to cut materials at high speeds and feeds and long depths of cut also provides end users with an opportunity for performance and productivity gains.

Produced from wear resistant micro grain carbide that is AlTiN coated, the 4041 Cyber series is available in 4mm, 6mm, 8mm, 10mm and 12mm diameters with the same shank diameter and a respective 7mm, 8mm, 11mm, 13mm, 15mm length of cut. The right hand helix series with centre cutting has an overall length from 38mm to 55mm with the 4mm, 6mm and 8mm diameter tools having a chamfer of 0.4mm whilst the 10mm and 12mm cutters have a 0.5mm chamfer.

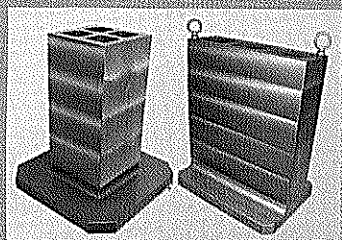
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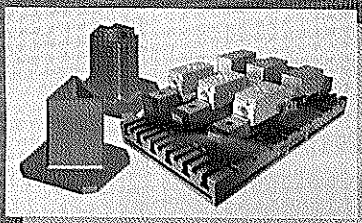
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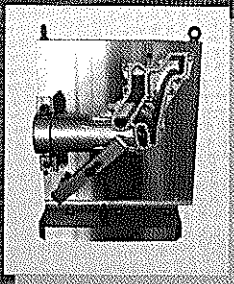
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Taking Bison by the horns

Workholding specialist Leader Chuck Systems has recently signed a contract with the Polish workholding manufacturer, Bison-Bial.

Under this new agreement the Birmingham-based company will assume responsibility for the sale of Bison's extensive cost-effective product range in the UK, which includes pre-sales technical support, stocks of popular items and spare parts being held by Leader.

Founded in 1948, Bison is Poland's largest manufacturer of machine tool ancillary products. From inception the company manufactured both bench and machine vices and, in 1950, started to produce lathe chucks. Offering cost-effective solutions, Bison products are sold in more than 50 countries around the world and are renowned for high quality, durability, precision, and value for money.

Today, the company employs around 600 people and produces a wide range of standard manual chucks, many of which are available with cast iron or steel bodies. With diameters ranging from 80mm to 1,250mm the standard

manual chucks are available with 2-, 3-, 4- and 6-jaws, and various internal/external hard and soft jaw configurations are offered. Geared scroll self-centring, independent and combination models provide robust fixturing for the turning of raw material or parts.

Mark Jones, Leader Chuck Systems' managing director, says: "The quality and range of the Bison's manual chucks is exceptional. Offering a cost-effective workholding solution, the products are well engineered, accurate and robust. And, while the economic climate is improving manufacturing companies still have to consider each investment decision carefully, so the introduction of the Bison range – some of which is already known in the UK as it was previously sold under the Toolmex TMX brand name – will provide an ideal cost-based alternative."

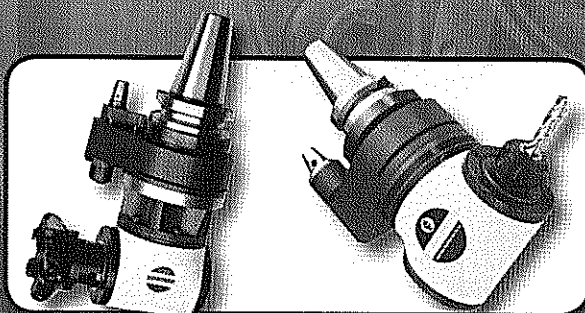
Industry-specific products developed by Bison provide focused workholding solutions, such as its oil country chucks which highlight how the company listens to its

customers and develops robust and efficient answers to the manufacturing problems they face. These chucks feature a large through bore compared to the diameter of the chuck body which is ideal for pipe machining. For example, the 800mm diameter chuck has a 463.5mm bore. They can be used individually or as pairs either side of the lathe spindle to support long workpieces.

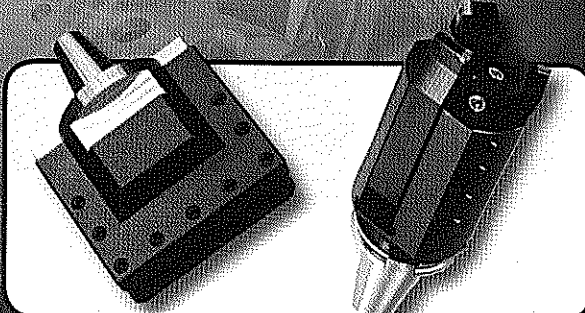
Bison board member, Thomas Bach, states: "For more than 60 years we have taken great pride in the fact that the Bison logo has been a symbol of excellence and is well known for its excellent quality in every continent of the world. As we continue to grow through respected and focused companies such as Leader, we will ensure that Bison products remain globally recognised as first class. We will also keep listening to our customers and partners to ensure that we meet their needs."

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