

FLOYD

Established 1990

THE TOOLING SPECIALIST FOR PRECISION COMPONENT MACHINING



GET IN TOUCH

01462 491919

www.floydautomatic.co.uk





CORE BUSINESS

We are suppliers of tooling & equipment to OEMS & subcontractors. We serve manufacturing sectors such as aerospace, electronics, medical & many others.

We offer tooling for Swiss type sliding head lathes, encompassing all aspects of consumable tooling & equipment used in the daily production of precision components. These modern CNC lathes are now highly productive machines with multi-axis capability requiring sophisticated tooling.

WORK HOLDING | TURNING | MILLING | DRILLING | SAWING | THREADING
BROACHING | KNURLING | MARKING | BURNISHING | BORING

With over 30 years of experience in supplying tooling solutions for precision component manufacturing, the diverse range of products we now offer are sourced from quality manufacturers across Europe. Which enable us to provide tooling solutions for the following machines:

- CNC Sliding Head Lathes
- Fixed Head Machines
- Multi-Spindle Machines
- Machining Centres
- Cylindrical Tool Grinding Machines

TECHNICAL SUPPORT & SERVICE

Our technical team are here to offer you support & advice to help improve your productivity in all areas of precision component machining.

In addition we have an extensive range of products available from stock backed by regular deliveries from our partners to ensure your tooling arrives without delay.



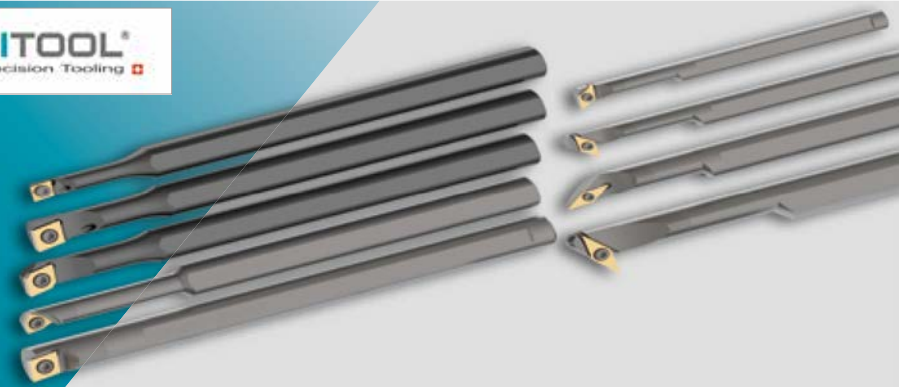
New geometry Ifanger MicroTurn MTEP and MTEF. Ideal for lead-free brass & aluminium. Eliminates stringy swarf

PRECISION BORING TOOLS

Boring tools play an important role in precision component production.

Floyd have represented IFANGER AG of Switzerland for many years, and the quality and performance of their internal boring and threading tools speaks for itself as it remains one of the most renowned on the market.

To compliment these solid carbide boring insert, Floyd now represent DENITool SA, another excellent Swiss manufacturer of precision carbide boring bars with indexable inserts (from Ø4.8mm!) and tooling systems.



CIRCO-LINE



CUT-LINE



ECO-LINE



IN-LINE



ISO-LINE JET



ISO-LINE



MICRO-LINE



ZXT



MODU-LINE



PRO-LINE



TOOLING-LINE



TOP-LINE



TOP-WATCH



TRIO-LINE



TURN-LINE



SWITCH-LINE



With our roots set firmly in small turned part production, turning tools are one of our principal products with the Applitec Swiss Tooling range being our primary program. Depending on your production requirements, Applitec offer competently priced quality inserts from their single screw ECO-line range all the way up to the TOP-line range, our most popular twin-screw insert program that continues to maintain its market presence

Offering a complete solution for modern CNC sliding head and fixed head machines, Applitec offers a broad range of standard tools and innovative geometries that are readily available, including the latest laser generated chipbreaker geometries.



NEW...

THE SWITCH-LINE SERIES OF INTERCHANGEABLE TURNING TOOLS FROM APPLITEC



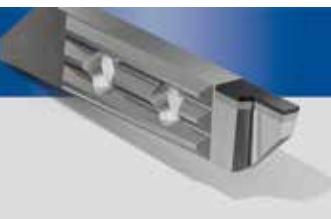
Developed to deliver fast, easy tool changeovers with precision, repeatability, and consistency. The holders remain in the tool platen, connected to high pressure coolant as required, and the insert heads can be changed independently. The heads are available for all the Applitec insert lines, including regular ISO inserts. The key to the success of this system over its competitors, is the taper and face location offering outstanding rigidity, and the program is competitively priced too. You will wonder why Applitec did not do this before, but quality is worth waiting for!

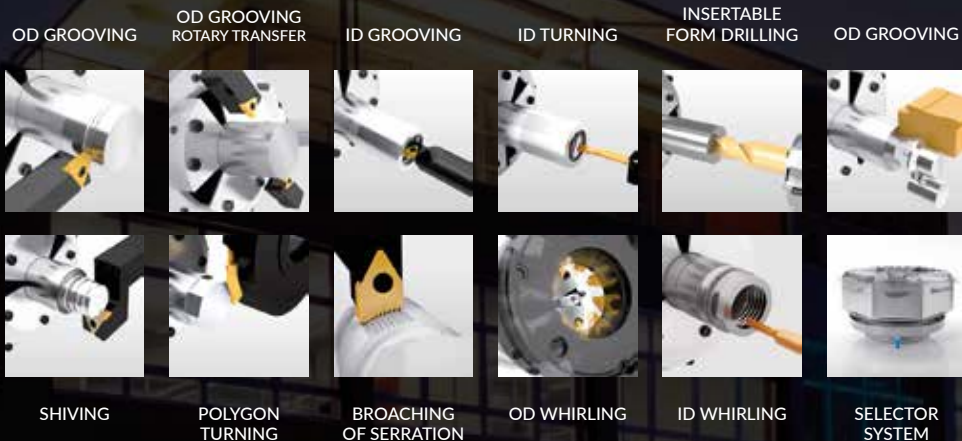
Using the same precision location, the SWITCH-Line system also includes a range of collet holders with interchangeable heads for easy and precision tool changes.



NEW...TOP-LINE 700 PCD INSERTS

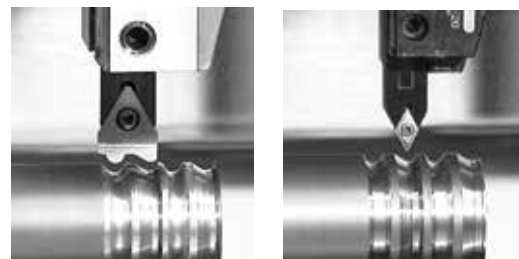
For high performance machining of non-ferrous materials e.g. lead-free brass, precious metals, carbon fibre etc.





FORM TOOLS

Not all turning can be achieved with standard insert tooling due to complexity, or in the pursuit of productivity. The dynamic German tool company Schwanog, can supply productivity gains with their range of form tools which include external and internal form tools, thread whirling and milling, polygon tooling and multi-spindle tools.

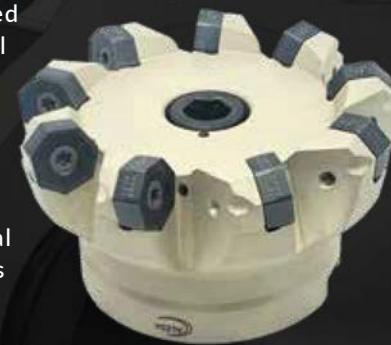


Schwanog



MILLING AND SLOTTING

The 45° HEPTA face milling tools are equipped with double sided indexable inserts with total 14 cutting edges (2x7). The sharp ground edges require less spindle power and are process friendly. Each edge has a ground smooth phase for high quality surfaces. The uneven pitch together with the peeling cutting process and a good balancing are ideal circumstances for milling processes on 5-axes machine centers.



ALESA®
Your Precision Tool



The new Delta indexable inserts have 6 ground cutting edges and are mounted tangentially on the milling body. Various features of "TWIST" have been taken over, including the 20° positive helix angle and the completely ground surfaces and angles.

The advantages of the Delta insert: gain in efficiency due to 6 completely ground cutting edges, positive effect on the spindle load due to the helix angle and the small cutting forces.

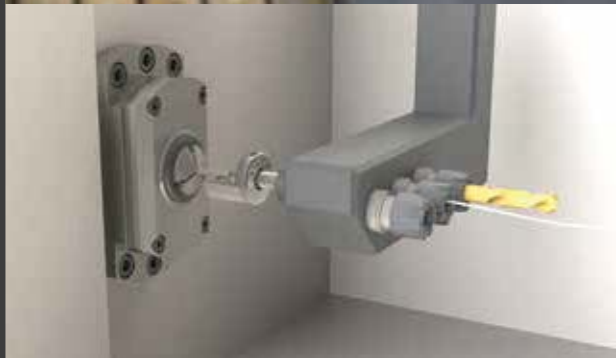
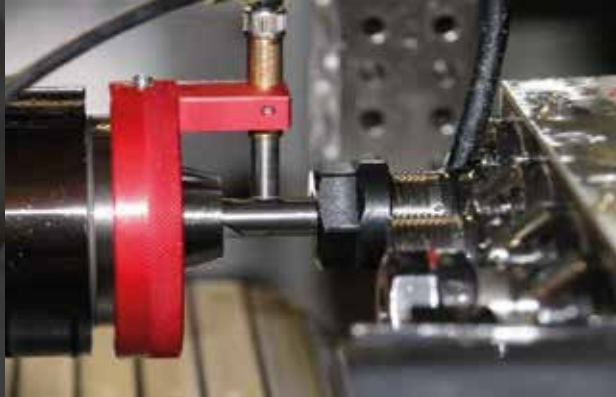
ALESA Nutex saws are an extraordinary combination of circular saw blade and holder in one tool that allows machining on CNC machines without fixings protruding out of the tool face. This highly rigid solution is equally at home on driven tools on sliding head and fixed head machines. The Nutex, Nutex Mini, and Nutex Plus saws are available in HSS or carbide with a range of coatings for outstanding performance, tool life and productivity.





PRECISION SETTING

The latest precision sliding head machines require high precision setting. Wibemo in conjunction with a Swiss university, developed the Mowidec-TT Smart Centering System.



The system was designed to assist in setting of precision drilling applications quickly. This simple but very useful solution uses a contactless proximity detector to assist with offset adjustments.

The principal is simple and is not dissimilar to using a control clock used traditionally by setters. By using a ring mounted detector on the bar or spindle, the precise centre can be found in X and Y by reading the offset required on the Mowidec display.



WORKHOLDING

Headstock collets, guide bushes and sub spindle collets are essential products for the day to day running of sliding head lathes. Along with bar feed collets/grippers, we offer next day availability for these essential items offering a wide variety for all makes of sliding head machines.

We carry a full inventory of competitively priced products and provide an in-house collet re-sizing service. We specialise in all types of guide bushes for Swiss type sliding head machine including bushes for adaptive guide bush systems (JBS systems etc.), low friction coated bushes, bronze (AMPCO), and polymer versions for difficult materials.

SCHAUBLIN



The SRS (Schaublin Runout adjustment System; pat pend) is a collet chuck that will clamp raw material or blanks. The system allows the operator to adjust the concentricity of the collet to obtain minimal runout and an excellent concentricity on the workpiece.

For sub spindle work holding, we specialise in pick up collet solutions for all makes of sliding head machines including, carbide lined collets, Special form collets, polymer and coated collets to reduce marking, ID clamping.



WIFEX
Internal Clamping



MASTER
Collets & Guide Bushes

MASA
MICROCONIC SYSTEM



MASA Microconic sub-spindle collet system for sliding head machines. This revolutionary system overcomes the problems of precision part pick up and 'over the shoulder' clamping applications. Using a patented cartridge and special UM10 collet that fits directly into the sub-spindle, the Microconic collets maintain a repeatable accuracy of 5 microns. The over grip capability of the UM10 collet is plus 4mm on the diameter!! Available for smaller parts up to Ø10mm and currently available for machines using collet types F37 (DIN-1536E), F25 (145E), F20 (138E), and 5C. Coming soon for F15 (120E) and F16 (1212E) collets.

Floyd's own exclusive brand of tools and accessories to compliment fixed and sliding head machines.

FLO-TOOL

BY IN3 PART

On new CNC Sliding head machines there are many new configurations for static and driven tools. So, when it comes to finding the additional accessories, there is a lot more to these machines than just a few collet holders! Within our own FLO-Tool range, we have all types of ER collet holders, tap holders, broaching heads, reamer holders and back working holders to suit most machine types.

We also offer collet sleeves, collet springs, guide bush nuts etc.



HYDRO-SWISS TURN

These recently introduced ultra-precision hydraulic tool holders for Swiss type lathes are the ultimate in precision tool holding. Easy, compact, and precise with runout of less than 1 micron!

The vibration damping function of the holder increases tool life.



THREADING

There are many different options for thread production and we can offer options from simple threading inserts to thread whirling and milling tools.

HABEGGER

A popular and fast solution for the production of external threads up to M8 is the Habegger thread rolling die made in Switzerland. It has been around for many years, but this simple roll-on/roll-off solution remains effective to this day. This simple system can be used for knurling and burnishing of small diameters.



Thread rolling die



Knurling die



Burnishing die

WAGNER

For larger applications, we have the Wagner axial and tangential attachments for thread rolling as well as axial cutting heads



Floyd have been appointed agents for Johs. Boss GmbH & Co. KG, precision gauge and tool manufacturers based in southern Germany. With more and more threaded holes being milled rather than tapped, this quality range of products fits well into the Floyd portfolio.



In addition, JBO supply traditional thread cutting dies and a complete range of thread gauges.



Shell type thread milling cutters



NEW SHARK LINE
High performance thread mills.



NEW Multicheck DIGITAL
Save costs with interchangeable thread gauges.

KNURLING, ROLL MARKING AND BURNISHING

German based precision tool manufacturers, Hommel & Keller, have many years of experience with their range of ZEUS form and cut knurling tools that we offer along with our technical support. In addition, they also supply the ZEUS range of roll marking tools ideally suited to production applications where traceability and part marking are required.



zeus

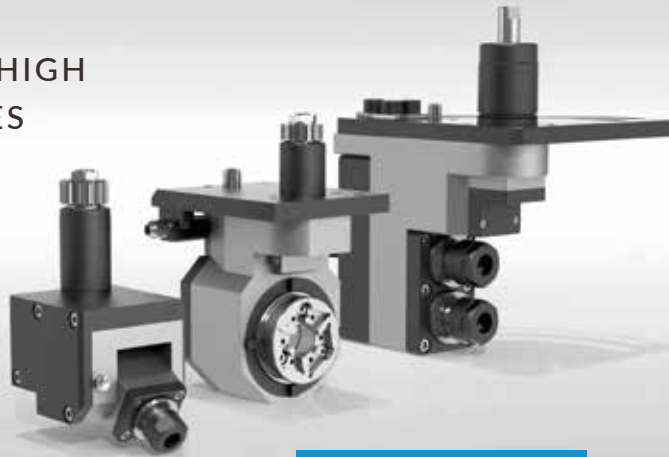
NEW BURNISHING TOOLS AVAILABLE FROM ZEUS

This NEW diamond tip burnishing tool is an all-rounder for all classic applications. Available in both fixed and adjustable head versions for burnishing on cylindrical, conical, convex or concave surfaces.



DRIVEN TOOLS AND HIGH FREQUENCY SPINDLES

We are the UK agents for Madaula SA, Barcelona, providing a comprehensive range of driven tools for both standard and special applications with speeders, reducers and angle heads.



MADAULA

In addition to their comprehensive range of driven tools for Star, Citizen, Tornos and other sliding head and fixed head machines, Madaula also specialise in non-standard solutions, and offer a repair service for a wide variety of driven tools



PRECITRONICS
by MADAULA

Madaula have also introduced their range of high frequency spindles to complement their program. These spindles are a natural partner for our range of high-performance CRAZYDRILLS from Mikron Tool.



DRILLING & MILLING

Mikron Tool based in Agno Switzerland provide equally high-performance end milling tool solutions like the CRAZYMILL Cool, an innovative ball end-mill range from Mikron Tool developed for the roughing and finishing of stainless steels, pure titanium and titanium alloys, Cr-Co alloys and super alloys. Patented with a very efficient integrated coolant supply it reaches the highest cutting speeds and guarantees a high chip removal rate. Mikron Tool is probably better known for their CRAZYDRILL products. These tools were developed by Mikron initially to support their own range of high-volume production machines, but soon realised that the 'crazy' performance and machining parameters would have a place in the market. With a wide range of tools for piloting, centering, deep hole drilling and chamfering.

MIKRON TOOL



CrazyMill
Cool



CrazyMill
Chamfer



CrazyDrill
Crosspilot



CrazyDrill
Cool SST INOX



APPLITEC
SWISS TOOLING

Applitec also offer an extensive range of precision carbide drills in 0.01mm steps & end-mills in their MICRO-Line range at very competitive prices.



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Hirt
LINE



HEB
SYSTEMTECHNIK

HIGH PRESSURE COOLANT

Naturally, with the increased number of machines fitted with high pressure coolant, we have options using our HEB Quick-Change high-pressure coolant connectors and HIRT-Line stainless steel lockable coolant hoses for accurate coolant delivery.