



microcut
SWITZERLAND

THE CUTTING EDGE OF A MICRON

Company Profile



Company Profile

www.microcut.ch

Microcut

Over 10 years «on the cutting edge of a micron»

Microcut Ltd. specialises in providing standard and customised machines for finishing small existing bores down to 0.015 mm. The bore size, geometries and surface quality can be optimised according to specific requirements. The scope of «**Micro Bore Sizing (MBS)**» includes in-house machinery design and manufacture, tools, machining processes, training, service and consulting. In the course of the progressive miniaturisation, the Micro Bore sizing will gain more and more importance, due to the fact that the common machining processes reach their technical limits or they are no longer economical.

In addition to the expertise of MBS, over the past 10 years Microcut has achieved the market leading position as the solution provider for complete ferrule manufacturing setups in the fibre optic connector industry. Machines for each individual processing step, such as bore finishing, automatic outer diameter and concentricity grinding, as well as ferrule quality control systems are designed and manufactured by Microcut. They are used to produce high volumes of components in today's well advanced ferrule production sites around the world.

Microcut was founded in 1995 and has supplied more than 450 machines into several highly specialised market sectors, e.g. fibre optic, semiconductor, flat screen. The company is located in the southern boundary of the Swiss Jura, in the heart of the watch making and micro technology region. With an innovative, experienced and diverse team of engineers, scientists and craftsmen Microcut presents competitive systems for specialist markets, such as medical, automotive, semi conductor as well as toolmakers and micromachining. Through close customer contact, Microcut develops a thorough and detailed understanding of each business operating requirement, to enable submission of cost-effective solutions.

Products

Micro Bore Sizing (MBS)

The Micro Bore Sizing offers solutions for finishing bore diameters from 0.015 – 4 mm. The MBS provides different types of machines, processes and tools.

Correction of the following quality criteria:

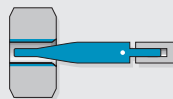
dimension and dimensional accuracy, roundness and cylindricity (geometry), surface roughness, angle and position

Typical workpieces:

nozzle, canon, waterjet nozzle, EDM wire guiding sleeves, capillary, glass-scriber

Application markets:

fibre optic / telecommunication, semiconductor, flat screen, medical, automotive, micromechanical systems / micromachining and tool making



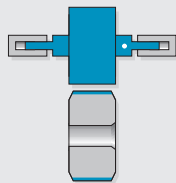
Micro Bore Sizing

Outer diameter and concentricity grinding

Microcut provides processing machines for a concentricity grinding, from the bore to the outer diameter, of 0.0005 mm

Typical workpieces:

glass-scribers (flat screen market), ferrules, canons



OD Grinding

Solution provider for ferrule manufacturing (fibre optic connector)

Microcut provides different types of machines for the production of ceramic ferrules such as

processing machines for:

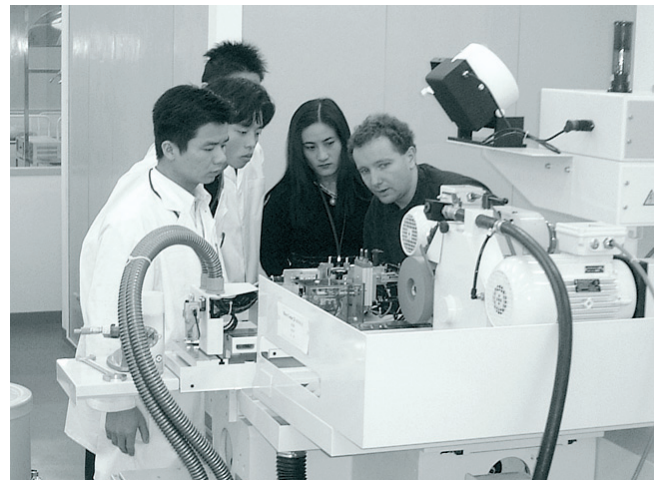
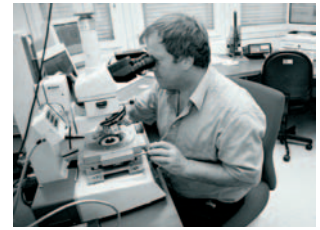
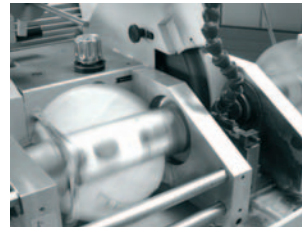
bore finishing, outer diameter and concentricity grinding, front and back end grinding, chamfering, grinding of spherical radii, grinding of Step and APC ferrule types

and test equipments for:

inner diameter checking, concentricity measuring



Ferrules



Impressions of microcut



microcut
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