

# MultiFinish

MF 3 • MF 5 • MF 8 • MF 16 • MF 22 • MF 35 • MF 60

## Multifinish for centrifugal polishing & grinding machines

**EFFECTIVE AND EFFICIENT PROCESS SOLVING  
FOR INDIVIDUAL PRODUCTS**



DEBURRING • GRINDING • POLISHING • SMOOTHING • ROUNDING

# MultiFinish

MF – centrifugal polishing & grinding machines

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Operational areas: Milling, Turning, Press components, Fine mechanic, Jewellery, Orthopaedic

## The centrifugal force procedure with MultiFinish MF systems

Nature provides us with the foundation of disc grinding technology. With the continuous and steady interaction of water and sand, coarse stones in rivers, brooks and seas are ground, deburred, rounded, smoothed and polished into even, smooth pebbles.

Centrifugal force is used in a mechanical procedure used in disc grinding technology for surface finishing of workpieces of all kinds of material. Together with grinding/polishing bodies and processing agents, the workpieces are placed in an open container as bulk material and are accelerated by the rotational movement of the plate.

The open bowl system makes it possible for you to clearly see the process and monitor the quality throughout the operational processing.

Multifinish MF machines offers a much more intense process than is available in the typical & conventional vibrators, this process is created by the interaction of the different centrifugal forces as well as the interaction of the workpieces within the processing media's & compounds.

Due to the acting centrifugal forces, the media contents of the container is moved upwards on the interior wall and then fed back with spiralling movements to the rotating inner base plate, from where it is then accelerated again. The continuous change of the direction of rotation, both clockwise and anticlockwise, ensures an additional optimal finishing process as well as an even attrition of the wear parts.



MF 3 multi

The mini-machine with the great impact. Ideal for small production series and studio work. Fast treatment of gold, silver, nickel, steel, stainless steel and aluminium. The MF 3 multi is available as MF 3 wet, MF 3 dry or MF 3 combination.



MF 5 multi plus

The MF 5 multi plus allows for the cost-effective and fast treatment of small quantity batches and precision parts of all materials in the jewellery segment. The container system (optionally with 1 or 2 containers) is exchangeable and thus permits a fast conversion from wet to dry processing.



MF 8

High-end finishing in both the wet and dry sectors, together with a continuous change of the bowl rotational direction. Special gap adjustment system ensures the problem-free use of the finest grinding and polishing media's. The machines in this range are available as both table top and floor-mounted devices and all models can be expanded in a modular form.

## Here's how you will benefit from working with MFD centrifugal finishing machines:

- ◆ Extremely short operating times
- ◆ Saving time and costs
- ◆ Consistent processing quality
- ◆ High flexibility
- ◆ Wet or dry processing depending on requirements



On request we will offer you fully or partly automated solutions and with our added accessories we will ensure a smooth production process.

### MF 16

The machines in this series are available as table-top and floor-mounted devices and can be expanded in modular form. The floor-mounted machine with the 2-bowl system (MF 16-2) can be supplied with a touch panel display, also in combination with a Siemens SPS control module and the well tried-and-tested ceramic ring as part of its standard equipment.



## MultiFinish – innovative centrifugal grinding technology

MultiFinish MF-machines are mainly used for the deburring and rounding of small and mid-sized mass production components and offer you the possibility of wet and dry product processing.

From fine grinding and polishing to a high-gloss finish using our special processing techniques.

An computer optimised interior geometry of the bowl leads to a high-quality result. The continuous use of the air-cooling system allows for a continuous processing, even with finest polishing media's (< 0.5mm) and contributes to the temperature of the bulk material being kept constant even in long-term use (e.g. 3 shift operation). In wet processing, the water/compound mixture is continuously added and extracted, and the media & product particles are flushed out. Highly wear-resistant containers, the Turn & Lock gap adjustment system together with digital timer are standard features in all machines of 2 bowls & under in the MF series.

The MultiFinish program for centrifugal disk finishing machines offers different sizes for both wet as well as dry processing. All MF machines can be used as a modular system.



### MF 22

The MF 22 model is only available as a floor mounted machine and can be expanded in a modular form up to 4 bowls. From the basic 2-container system upwards, the machine is available with an optional touch panel display. The bowls are fitted as standard ceramic ring. The Turn & Lock gap adjustment method allows the setting of the gap dimension close to zero without the use of any tools.



### MF 35

The consistent continued development in the area of medium-sized and large systems for use in the industry and the jewellery sector. The MF 35 machine type can be expanded in modular form. The gap can be adjusted between the PU ring & ceramic ring to a value very close to zero. The machine is also fitted with a automatic bowl tilt system.



### MF 60 High Capacity

The MF 60 machine can also be operated with finest polishing and grinding media's. All machines in this series are exclusively available as floor-mounted devices with an integrated and stable undercarriage and it is possible to set the gap dimensions between the PU ring & ceramic ring value close to zero. The machine is also fitted with a automatic bowl tilt system.

# MultiFinish

We aim to develop effective and efficient solutions in the area of surface finishing & product processing, refining with precision in detail.

MultiFinish will assist you to meet your production requirements in, among other things, the metal, plastic and textile industries, medical & orthopaedical technology as well as the jewellery and watchmaking field. Our experience and knowledge in the field of "Centrifugal grinding technology" as well as the engagement our employees have in connection with our extensive machine, product and service programs guarantee optimal solutions for your surface finishing requirements.



MultiFinish – Factory and Office center  
in Schömberg-Langenbrand near Pforzheim (Germany)

**MultiFinish machines provides you and your company – especially for the industrial as well as manufacturing needs – to shorten production and processing processes and reduce production costs.**

A especially important member in the development chain is the test procedure analysis that we carry out for you in our in-house testing and processing laboratory. We will perfect a processing procedure in advance and test the reproducible centrifugal grinding procedure that corresponds to the production requirements. Following this sample test process, you will be presented with a custom-tailored processing concept in which we show the most suitable processing methods for your production in connection with the respective grinding/polishing media's and compounds. This service and the comprehensive consultation are of course free of charge and without any obligation.

If you would prefer not to commit to any capital investment and/or you have no spare capacity? This is not a problem! We will gladly carry out commissioned production work in the area of surface finishing for you.

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**MULTIFINISH – PROVIDES A WINNING MARGIN THANKS TO INNOVATION**

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**MultiFinish GmbH & Co. KG**

Gewerbestraße 13 • D-75328 Schömberg-Langenbrand (Germany)

Fon: +49 (0) 70 84 - 9 27 33-0

Fax: +49 (0) 70 84 - 9 27 33-33

Email: [info@multifinish.de](mailto:info@multifinish.de) • <http://www.multifinish.de>