

Surface Grinders

BASIC & SOLUTIONgrinder

Retrofit & Benefits

BASICgrinder

'PACEMAKER' FOR SURFACE GRINDERS

Retrofitting instead of buying new

Retrofitting often makes more sense than the costly replacement of existing systems with a completely new investment. Partners MSB Schmittwerke and IMS International Maintenance & Services have developed a 'pacemaker' for outdated surface grinders in the shape of the two cost-effective options: the BASICgrinder and the BASICgrinder Plus. The machines are brought up to the current state of the art through modernisation.

Since many machines in the field only have a rough infeed in the Z-axis, grinding segments like the modern DORFNER segments can only be mounted in certain limited cases or not at all. A machine's major weak points are eliminated when it is converted to a BASICgrinder – the control system, operator's panel and encoder are all replaced.

Increased availability

Your machine's availability is increased; reliability guaranteed. The new control system and the software, written especially for surface grinders, enable your machine to implement fine infeeds. Tool wear is thus reduced significantly and the

high-grade DORFNER segments we use reach their working window more efficiently.

The machine is operated by touch display, meaning the outmoded, complicated and confusing switch operation is no longer necessary.

Conversion on site

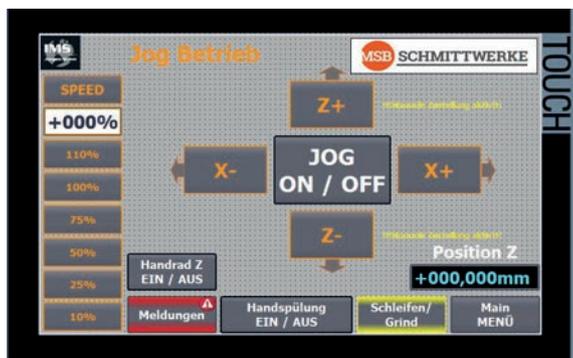
Another huge advantage of this conversion option is the low production loss. Your machine remains on site, where the conversion is completed in three to five working days.

The BASICgrinder Plus option also allows you to have the old axle drives and axle motors replaced with new ones. The star-delta start can be replaced with state-of-the-art electronics.

Approaching Industry 4.0 step by step

Make your machines fit for the future – be more competitive with the BASICgrinder retrofit!

Complicated and confusing switch operation is no longer necessary because the machine is operated by modern touch display.



Photos: BASICgrinder 9" touch screens

SOLUTIONgrinder

MORE EFFICIENCY THANKS TO 26 HIGHLIGHTS

Leaves nothing to be desired by the customer

Partners MSB Schmittwerke and IMS International Maintenance & Services thought the topic of segmental surface grinding through to the very end when they developed the SOLUTIONgrinder.

After a thorough analysis of the market, solutions were developed for all user requirements. The result was the SOLUTIONgrinder, which brings you 26 innovative highlights.

When a surface grinder is converted to the SOLUTIONgrinder, the machine's entire electrical system is replaced and the mechanics are overhauled. In most cases the machine can remain at your site, where the conversion is completed in one to two weeks.

Instead of a retrofit, we also offer the option of a complete reconstruction of the machine.

Increased productivity

Increased productivity was the main requirement to arise from the market analysis. This is achieved by saving on HR costs, lower power consumption and reduced tool usage. Thanks to specially developed software and state-of-the-art drive technology you reduce the processing time of your products.

The unique software provides you with any relevant process data at a glance. Excel lists are stored on your server or can be made available on your ERP system via UPC UA on request and you can also retrieve any information by smartphone. Thanks to state-of-the-art drive technology the machine accelerates in just 300 mm to a feed rate of 60 m/min. Moreover, the grinding motor speed is infinitely variable from 0 to 1500 rpm. A reduction in grinding time to about 50 per cent is possible.

Get added value from your existing surface grinders with a retrofit or replace your old machines with new ones.

Unmanned grinding

The SOLUTIONgrinder with fully automated operation enables reliable unmanned grinding and ensures consistent quality.

Many companies find it difficult to hire staff for open grinding positions. Thanks to the fully automated SOLUTIONgrinder multi-machine operation is simplified immensely. The intuitive touch menu navigation eliminates the need for a specialist at the machine or CNC knowledge.

Safe remote maintenance in a new dimension

- ✓ Fast response times in the event of malfunctions
- ✓ Thanks to the internal server landscape no dependence on cloud services
- ✓ Diagnosis and optimisation down to the deepest drive train levels
- ✓ Process optimisation during operation

Protection of employees and the environment

Not only the protection of employees is important, environmental aspects also play a major role. Thanks to a fully covered machine and an effective extraction system these points are very well accounted for.

30-year spare parts guarantee

A 30-year spare parts guarantee for control components makes the product fit for the future and economical.

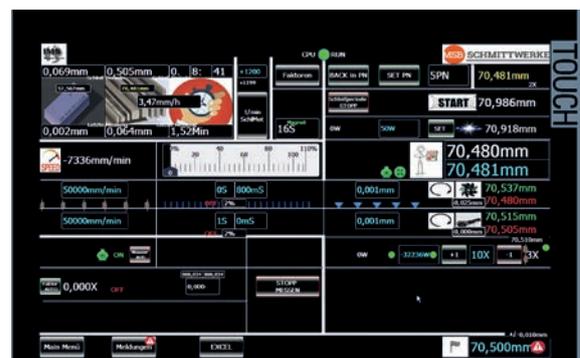


Photo: SOLUTIONgrinder 15" touch screen

MSB Schmittwerke

WE CAN DO MORE THAN JUST A CLASSIC RETROFIT!

Collectively we bring your machine up to the latest state of the art.

Are you looking to increase the efficiency, performance and service life of your machine? Increased productivity, time savings and the retention of existing systems and machines point to retrofitting as the answer.

Working closely with our partner IMS International Maintenance & Services, we have developed highly efficient solutions which are new in the marketplace for modernising old and analogue surface grinders. Our experienced electrical and control engineering team implements your requirements reliably.



Photo: SOLUTIONgrinder

Get in touch!

Learn more about what we can do.

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Retrofitting or buying new?

Retrofitting is not always the best solution. A cost-benefit analysis allows us to establish collectively with you whether it would make sense to overhaul the machine or if purchasing a new one is more advisable.

We offer you expertise combined with strong flexibility.

Based in the north Bavarian town of Bischofsheim in der Rhön, MSB Schmittwerke was founded in 1900 and operates in the marketplace today as an international mechanical engineering company.

We employ some 160 people at two sites and operate in four market segments:

**Special Machinery | Contract Manufacturing |
Electrical and Controls | IBS Mining and
Tunnelling**

As an experienced supplier to the automotive industry, to the aircraft industry, as well as to the special machinery, mining and tunnelling sectors we provide our customers maximum quality and custom solutions.

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