

isel[®]

••• successful with
CNC-TECHNOLOGY

IMG4040 IMG6040 IMG8040

Features

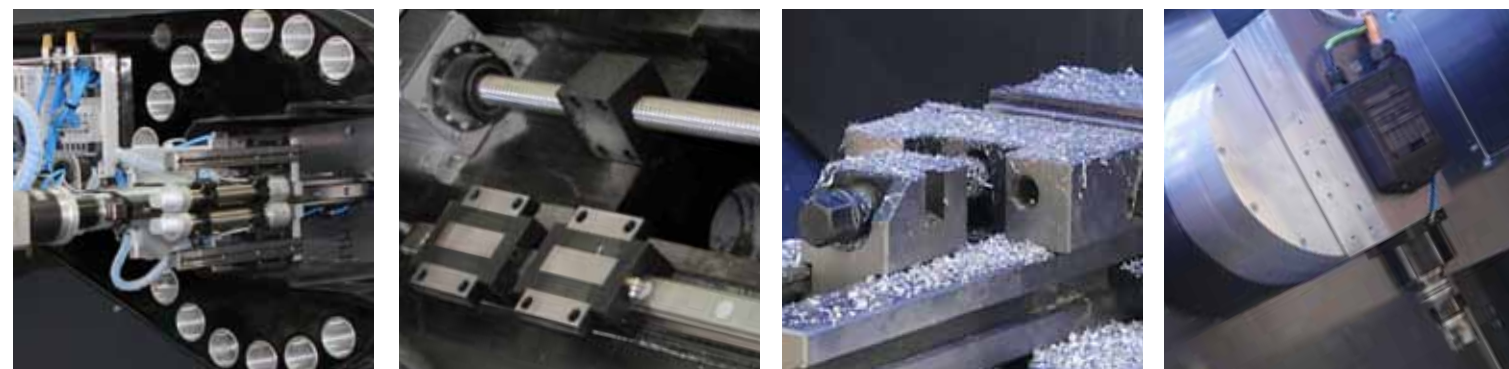
- 3/4/5-axe operation can be extended
- 15-fold tool changer
- Working range not reduced during tool change
- Control panel with 21" touch screen for easy operation
- Hand wheel for set-up operation
- Integrated lighting in the working area
- Recirculating ball screws in all linear axes all guides covered
- Rotating/swivel axes equipped with cast iron block guides
- Air-cooled milling spindle with SK30 tool holder
- Largely dimensioned recirculating ball bearing guides in all linear axes
- Chip collection tray incl. cleaning flap
- Integrated coolant pump
- Settling basin for coolant with cleaning opening
- Solid mineral cast machine bed



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From Components to Systems

UNIVERSAL CNC MILLING CELL



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IMG4040 IMG6040 IMG8040

With the **IMG machine series**, a 3/4/5-axis milling machine with solid mineral casting machine frame, metals as well as steel can be machined. The **IMG** milling machines not only boast an elegant design, but also have a compact but stable construction, allowing economical working in the smallest spaces. With covered linear guides and large ball screws, downtimes are minimised and the requirements for machining steel are met. Thanks to the external 15-fold tool changer, the working area is not restricted, with the result that even larger work-pieces can be machined with no restrictions.

Proven isel components including the isel spindle drives consisting of recirculating ball screws and preloaded linear bearings have been integrated into the successful combination of size and functionality. The **IMG** milling machines have been developed for high capacity, productivity and flexibility in order to gain a lot of machining space while at the same time taking up as little space as possible. An extensive range of accessories predestines the machine for numerous application areas from prototype construction to small series production. The solid mineral casting substructure offers a stable and solid platform.



TECHNICAL DATA

IMG machine series	IMG4040	IMG6040	IMG8040
Traverse ranges X/Y/Z [mm]*	400 / 400 / 400	600 / 400 / 400	800 / 400 / 400
Table clamping surface WxD [mm]	400 x 400	600 x 400	800 x 400
Dimensions WxDxH [mm]	1800 x 1300 x 1850	2000 x 1300 x 1850	2200 x 1300 x 1850
Travel speed X/Y/Z	20,000 mm/min		
Repeatability	0.02 mm		
Drive motors	Servomotors		
Drive elements X/Y/Z	Ball screws 25 x 10 / 25 x 10 / 25 x 10 mm, backlash-free adjustable		
Milling spindle	6,000 – 24,000 rpm with position sensing, sealing air and temperature-controlled cooling		
Tool holder	SK30		
Control	PC-based		
Operation	21" touch screen, keyboard		
Weight	approx. 2,500 kg	approx. 2,600 kg	approx. 2,800 kg
Connected loads	400V / 16A		



CHANGE TOOLS.



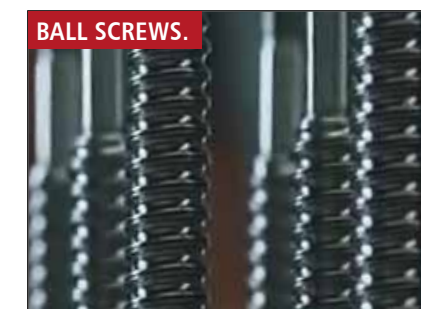
HSC WET MACHINING.



METAL CUTTING.



HAND WHEEL.



BALL SCREWS.



MINERAL CASTING MACHINE BED.