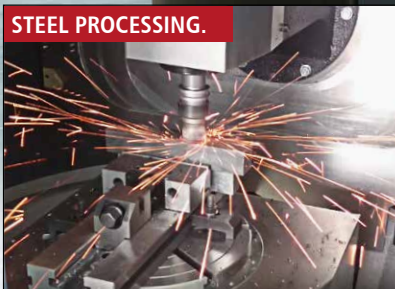




# IMG SERIE

## The power packages

- steel processing
- wet processing with chip evacuation
- EtherCAT control technology
- axis compensation option





## IMG SERIE | The power package

Thanks to the IMG machine series, a 3/4/5-axis milling machine equipped with a solid mineral cast machine frame, the machining of all materials, from metals to **steel**, will be possible. The IMG milling machines not only convince with their elegant design, but also with their compact and at the same time stable construction, enabling economical work in the smallest of spaces.

Thanks to covered linear guides and large recirculating ball screws, the requirements for machining steel are met. Thanks to the external 15-fold tool changer, the work area is not restricted. Consequently, larger workpieces can also be processed without any restriction.

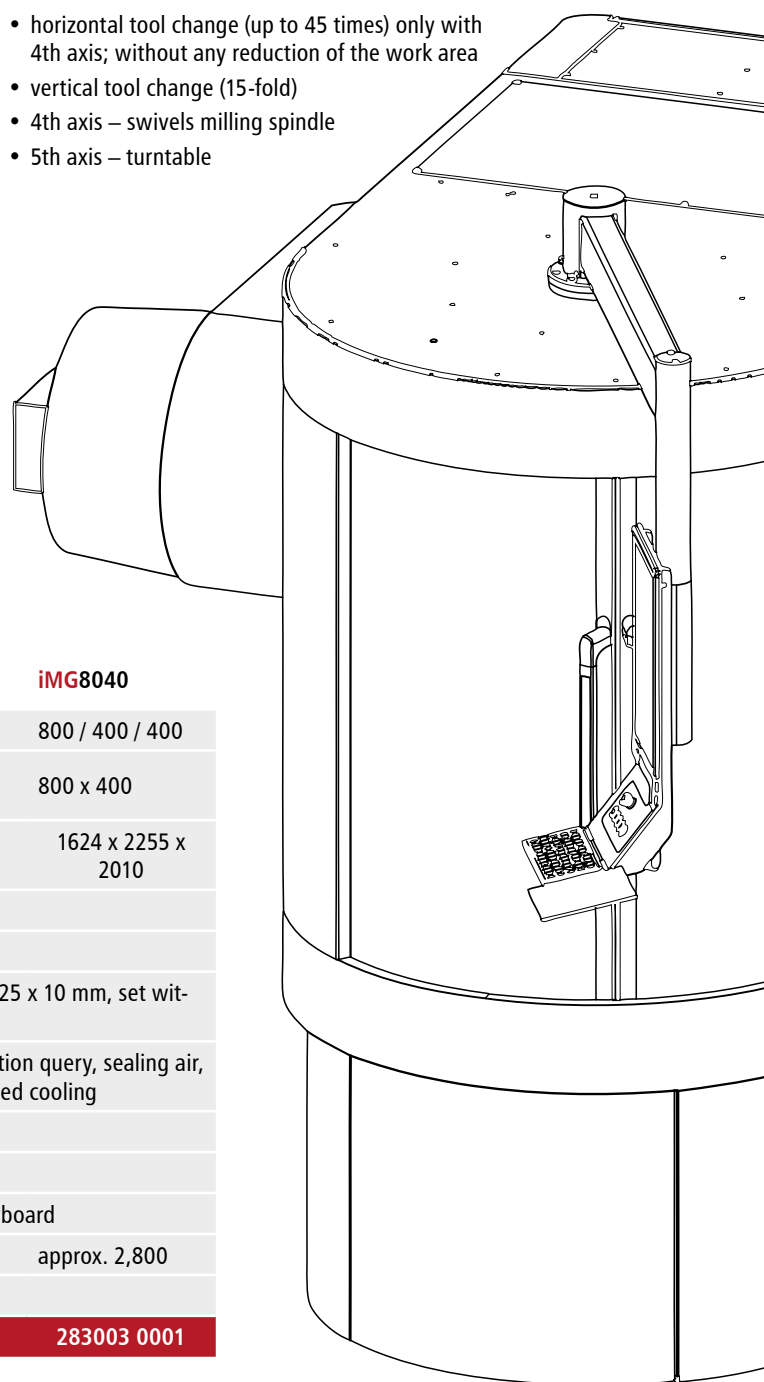
Proven components made by isel, such as the isel spindle drives consisting of recirculating ball spindles and preloaded linear bearings, have been integrated into the all-round successful combination of size and functionality. To gain a lot of machining space while at the same time requiring as little space as possible, the IMG milling machines were developed to ensure a high level of capacity, productivity, and flexibility. An extensive range of accessories predestines the machine for many areas of application, from the prototype construction to the manufacture of small series. The solid mineral cast substructure offers a stable and solid platform.

### Features

- control panel with 21" touchscreen for easy operation
- electronic handwheel for setup mode
- integrated lighting in the work area
- ball screws in all linear axes, all guides covered
- rotary swivel axes equipped with cast iron block guides
- air-cooled milling spindle with SK30 tool holder
- large-sized recirculating ball bearing guides in all linear axes
- chip collecting tray including cleaning flap
- coolant pump integrated
- settling basin for coolant with cleaning opening
- solid machine bed made of mineral casting

### Options

- horizontal tool change (up to 45 times) only with 4th axis; without any reduction of the work area
- vertical tool change (15-fold)
- 4th axis – swivels milling spindle
- 5th axis – turntable



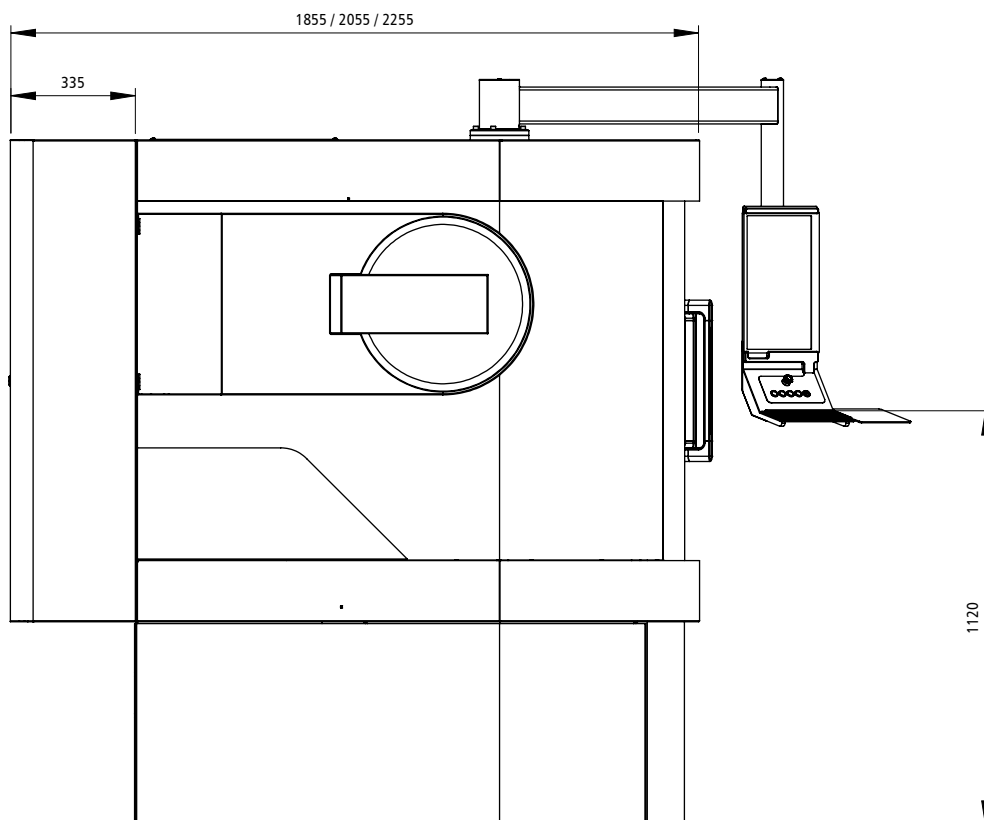
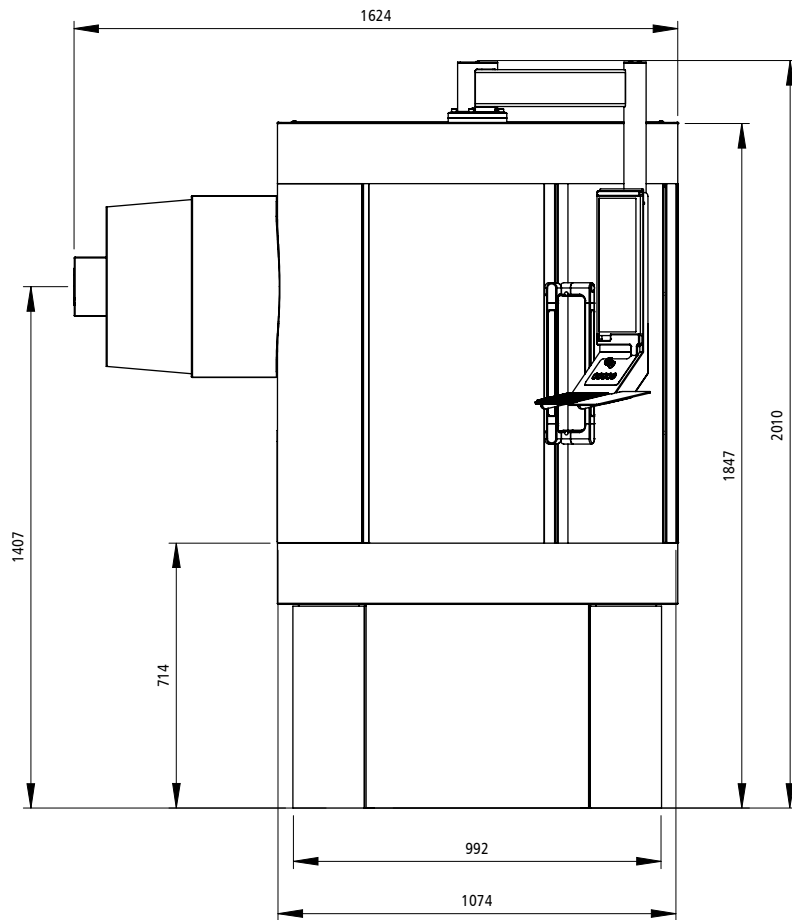
### Technical data

IMG serie	IMG4040	IMG6040	IMG8040
Travel ranges X/Y [mm]*	400 / 400 / 400	600 / 400 / 400	800 / 400 / 400
Table clamping surface W x D [mm]	400 x 400	600 x 400	800 x 400
Dimensions WxDxH [mm]**	1624 x 1855 x 2010	1624 x 2055 x 2010	1624 x 2255 x 2010
Travel speed X/Y/Z	max. 20 m/min		
Drive motors	Servo motors		
Drive elements X/Y/Z	Ball screw drive 25 x 10 / 25 x 10 / 25 x 10 mm, set without clearance		
Milling spindle	From 6,000 to 24,000 rpm with position query, sealing air, and temperature-controlled cooling		
Tool holder	SK30		
Control	PC-based		
Operation	21" touchscreen, keyboard		
Weight [kg]	approx. 2,500	approx. 2,600	approx. 2,800
Electrical specifications	400V / 16A		
<b>Part No.</b>	<b>283002 0001</b>	<b>283001 0001</b>	<b>283003 0001</b>

\*without installed components on the axes. \*\*equipped with control cabinet and hood



**img-SERIE** | Dimensional drawing [dimensions in mm]





## IMG-SERIE | Strong components



Milling pattern

### Typical materials:

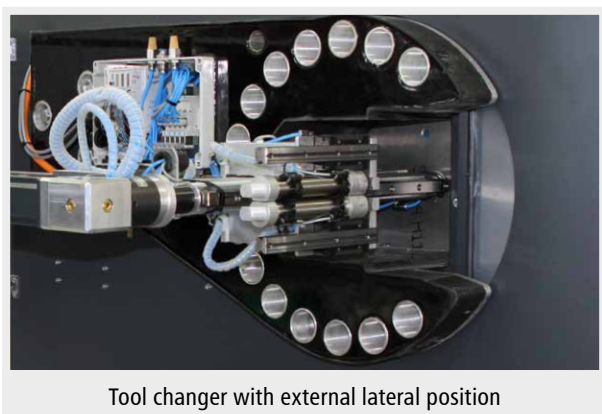
- steel
- granite
- non-ferrous metals
- titanium

### Application areas:

- steel processing
- wet machining
- splash cooling
- workshop operation



Electronic handwheel



Tool changer with external lateral position

