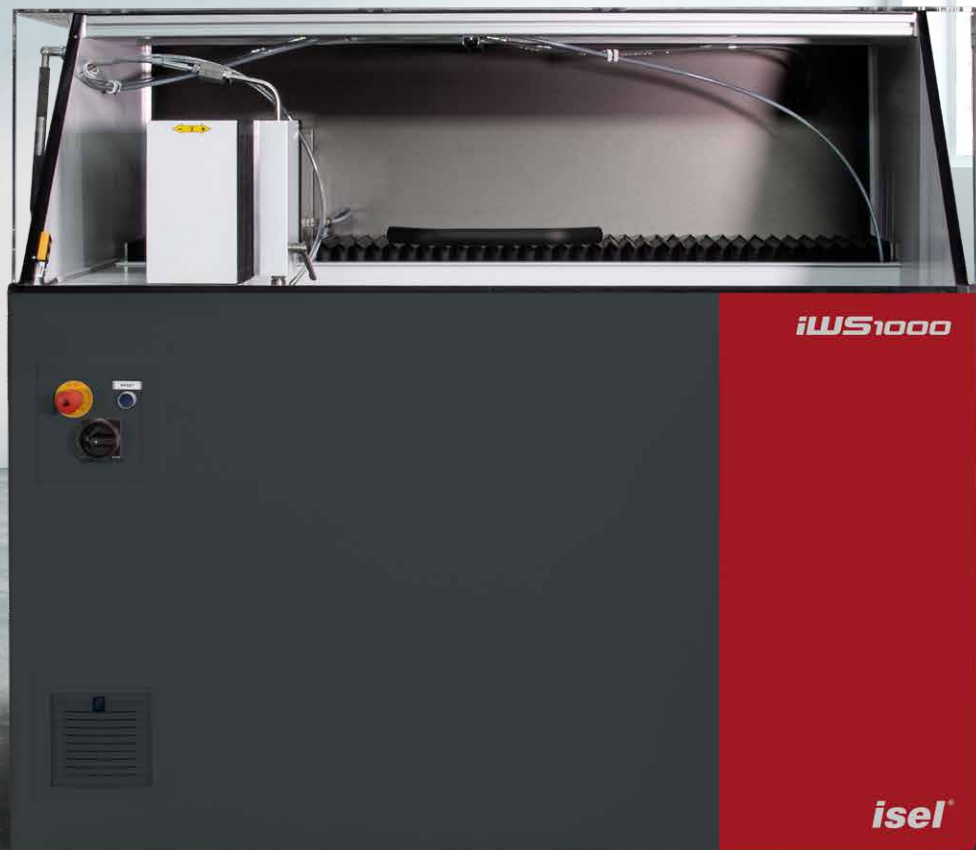


iWS1000

the abrasives

- no thermal stresses
- no hardenings
- no tensions
- no dust or smoke emission
- almost burr-free cuts
- direct piercing at any position



iWS1000 | the abrasive

The iWS 1000 is the first choice for small series, educational institutions as well as in the workshop. Our goal was to realize a compact and inexpensive waterjet system that can be set up, maintained and operated with as little effort as possible. The machine can be connected to a regular 16 A power connection and works cleanly and quietly due to its enclosure. Designed and manufactured in Germany, the pump is fully integrated into the machine. On the iWS 1000+ model, an external pump of up to 22 kw can multiply the cutting power even further.

Features iWS 1000

- Machine & pump "Made in Germany"
- Including completely integrated cutting pump
- Operator protection (enclosure made of break-proof acrylic glass)
- 3-plunger high-pressure pump with an efficiency of 90
- Abrasive cutting possible without pressure vessel
- Compact design
- Settling tank for waste water pre-cleaning integrated
- Power supply through standard 16 A connection
- Low weight (only 800 kg incl. water)
- Low noise level (only < 78 dB in cutting mode)
- Easy to operate control software

Options

- Pure water equipment with sapphire nozzles and plastic supports
- Material tensioner



iWS 1000+

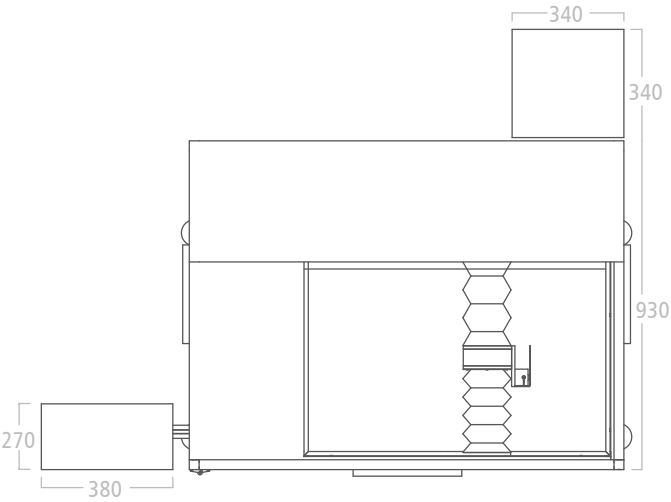
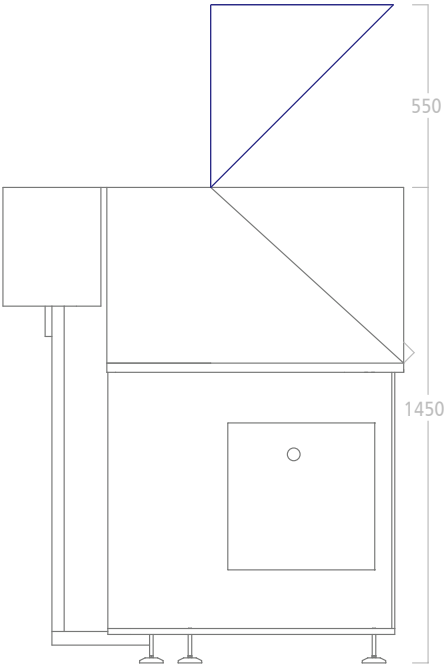
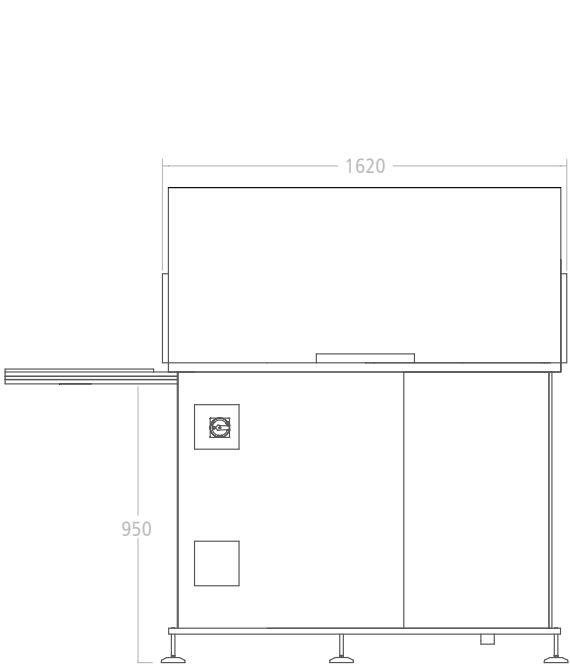
- Machine "Made in Germany"
- Operator and splash water protection by an acrylic glass hood
- Compact design with a cutting performance like a "big" waterjet machine
- Low weight of the guiding machine (only 750 kg incl. water)
- Free choice of external pumps with power from 15 - 22kw by well-known brand manufacturers such as ThyssenKrupp UHDE, KMT or BFT
- Easy to use control software
- Integration into an existing pump park is possible
- Pump and machine can be placed independently of each other in a completely variable way
- No space-consuming whip construction, the high-pressure piping is directly integrated into the machine

Technical data

	iWS1000	iWS1000+
Travel ranges X/Y [mm]*	1000 x 500	
Dimensions WxDxH [mm]	1620 x 930 x 1450 (2000 opened) incl. pump	1620 x 930 x 1450 (2000 opened) plus pump
Drive system	Ball screw precision class C7	
Travel speed [mm/min]	0 - 4,000	
High-pressure pump	7,5 kw	bis zu 22 kw
Repeatability [µm]	< 0.04 mm/m	
Positioning accuracy [µm]	+/- 0,08 (20°C) mm/m	
Connection values	16 A / 400 V	63 A / 400 V
Weight [kg]	ca. 800 incl. pump	750 kg plus pump
Part No.	444630 80502	444630 80503

Machine dimensions without control panel or additional accessories. Travel ranges without machining unit and other attachments (tool changer, length measuring probe, etc.).

iWS1000 | Dimensional drawing (dimensions in mm)



iWS1000 | Application areas

Typical materials iWS 1000

up to 10 mm	Stainless steel / steel, titanium, composites (various designs)
up to 12 mm	Brass
up to 15 mm	Copper, plastics (various types), natural wood, Plexiglas
up to 20 mm	Aluminum, glass / laminated glass, marble / ceramic tiles
up to 25 mm	Marble, Rubber
up to 40 mm	Various foams

iWS 1000+

up to 40 mm	Stainless steel / steel, titanium, composites (various designs)
up to 40 mm	Brass
up to 40 mm	Copper, plastics (various types), natural wood, Plexiglas
up to 40 mm	Aluminum, glass / laminated glass, marble / ceramic tiles
up to 40 mm	Marble, Rubber
up to 40 mm	Various foams



Application examples

- Micro machining
- Precision machining
- Medical technology
- Electronic industry
- Watch industry
- Jewelry industry
- Automotive supply industry
- Tool/mold making
- Electrode production
- Training and apprenticeship
- prototype construction
- tensile specimen production
- universal workshop machine
- auxiliary machine for contract manufacturing
- semi-finished product production

