



The Water-Jet is a universal tool for cutting

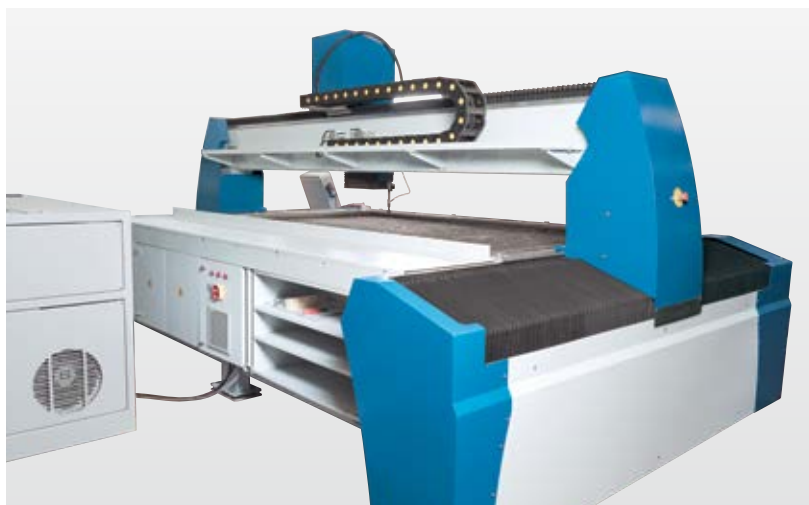
- Very rigid dual-drive machine bridge
- Rigid frame construction (sides are made of stress-free annealed and milled monoblocks, which are fastened with pins during machine setup)
- Premium linear guides on all axes
- Ground and hardened helical gears
- Robust digital servo-drives
- Totally enclosed moving units to protect against ingress of water and dust
- Electronically monitored central lubrication system
- Stand-alone cutting table with high load capacity
- Exchangeable support grid with galvanized (standard) or stainless steel (option) slats
- Powerful CNC machine control
- Intuitive CAD/CAM software
- Swiveling control panel attached to the machine



Options

- Dual-head cutting
- Drill unit
- Laser pointer
- Level control and collision guard
- Water level control
- Abrasives container for 1000 kg sand supply
- Sludge vacuum system
- Oil/air cooler
- Water treatment system
- Water additive for silicate stabilization
- Starter kit
- Stainless steel cutting table surfacing for all Water-Jets

price on request



5-axis cutting system

- Chamfering up to 60°
- TaperControl - cutting angle correction feature
5-axis cutting kinematics **with high dynamics and precision**
- Endless Rotating = no contour interruptions and no repeated plunge-cuts = **time and cost savings**

The water-jet is a universal tool:

- No thermal stress and only minimal mechanical stress
- No hardening or intrinsic tension on the part
- No dust, smoke or toxic fumes
- Small kerf width and very clean cut edges
- Virtually burr-free cuts = no rework necessary
- Direct plunge-cut at any position

Specifications Water-Jet		2010	3015	3020	2040	2060	3040	3060	3080
Cutting capacity	mm	2050x1050	3050x1550	3050x2050	2050x4050	2050x6050	3050x4050	3050x6050	3050x8050
Z-axis travel	mm	200	200	200	200	200	200	200	200
Max. table load capacity	kg/m ²	1500	1500	1500	1500	1500	1500	1500	1500
rapid feed X / Y / Z-axis	mm/min	20000	20000	20000	20000	20000	20000	20000	20000
Work feed max.	mm/min	5000	5000	5000	5000	5000	5000	5000	5000
Positioning accuracy	mm	+/- 0,06	+/- 0,06	+/- 0,06	+/- 0,06	+/- 0,06	+/- 0,06	+/- 0,06	+/- 0,06
Repeatability	mm	+/- 0,05	+/- 0,05	+/- 0,05	+/- 0,05	+/- 0,05	+/- 0,05	+/- 0,05	+/- 0,05
Overall dimensions (WxDxH)mm (without pumps, sand tank and control)		3450x2000 x 2400	4450x2500 x 2400	4450x3000 x 2400	3450x5000 x 2400	3450x7000 x 2400	4450x5000 x 2400	4450x7000 x 2400	4450x9000 x 2400
Weight (without water)	kg	2420	3370	3930	4960	6620	5950	8310	10500
Part No.		166730	166731	166732	166733	166734	166735	166736	166737

High-Pressure System BFT Ecotron® 40.37+ (included in standard equipment)

- The most cost-effective high pressure pump made by a world leading manufacturer
- Operating pressure can be adjusted to 400 MPa via an infinitely variable proportional valve
- Optimized hydraulic system
- Oil/air cooler or optional oil/water cooler
- Pressure booster with exceptional lifetime and large pulsation damper
- Other high-pressure systems are available as options (for more information - please visit www.knuth.de)

Standard Equipment:

Water-Jet Cutter System with separate cutting table, support grid with galvanized slats, BFT Ecotron® 40.37+ high-pressure pump with soundproofing enclosure and proportional valve, abrasives cutter head, abrasives conveyor system, abrasives container for 200 kg sand supply, swiveling control panel attached to the machine, electronic hand-wheel, CNC control, CAD/CAM software, operating and programming instructions