

WATER JET CUTTING MACHINE



Why Water Jet Germany?

- Highly efficient cutting head
- Reliable machines with low downtime
- Precision Ball Screw gantry
- Multiple cutting head
- Engineers with more than 20 years experience

Specifications

Positioning Accuracy*	: +/- 0.05 mm
Repetition Accuracy*	: +/- 0.03 mm
Feed Rate in X/Y Direction	: 10000 mm/min
Feed Rate in Z Direction	: 7000 mm/min

* The indicated values refer to a measured length of 1000 mm at RT 20° C + 1° C according to VDI/DGQ3441

Software

Water Jet Germany Private Limited provides complete solution to cutting by providing the suitable CAD/CAM software for various applications. Water Jet Germany Private Limited also provides the years of its experience in cutting various material by providing the most optimum feed rate for different material in the software.

Safety Standards

Water Jet Germany Private Limited is particularly concerned with the health and safety of the machine operators and provides safety devices as per EU directives. Water Jet Germany Private Limited machines are CE marked and manufactured in conformity to EN standards.

Installation

Water Jet Germany Private Limited helps in designing the shop layout and its Engineers do the installation and commissioning of the machines.



WaterJet / Abrasive Jet

Water Jet Germany Private Limited specializes in manufacturing the complete system of CNC cutting machines of various sizes as per the customer requirement. Water Jet Germany Private Limited designs and manufactures high precision gantry system using precision ball screws. All components used in the manufacturing are of the highest quality and highly durable. Water Jet Germany Private Limited provides the cutting system complete with CNC controller and software, ready to use.

Technology

Water Jet cutting uses high pressure water to cut softer material like rubber and Abrasive Jets adds abrasive to water to cut harder materials like steel, glass and titanium. The high pressure water is forced through a tiny orifice to concentrate high energy in a tiny area to cut.

Highly Productive Machines

Water Jet Germany Private Limited offers machines, which are highly productive with low downtime and can work continuously – 24 hours a day. Water Jet cut parts require few secondary operations and can provide better usage of raw material since parts can tightly nested.

Machine Sizes

Water Jet Germany Private Limited manufactures machines in the sizes varying from 1 m X 1 m to 4 m X 8 m machines. The most popular models being 3 m X 1.5 m, 3 m x 2 m and 4 m X 2 m which comes with single or multiple cutting heads.

High Pressure Pump

Water Jet Germany Private Limited uses KMT Waterjet System's high pressure pumps for their machines. KMT Waterjet System's are pioneer in the field of Water Jet cutting and manufactures the best UHP pumps in the world.

The systems made by KMT Waterjet Systems are known for ease of use, intelligent design and reliability

Advantages

- Cold cutting process
- No thermal stress
- Can cut almost all material
- Can cut virtually any 2D shape
- High cutting accuracy
- Cutting thickness up to 300mm
- Environment friendly process
- Minimal or no fixture required
- Kerf width is less, saves raw material

Applications

- Floor designs in Marble / Tiles
- Stainless steel cladding, handrails
- Fabrication of steel products
- Cutting of bullet proof glass
- Automobile components
- Special designs for art
- Letter cutting in Steel, Brass.

Water Jet Cutting Machine Features

- Heavy frame construction for better accuracy
- Separate Stainless steel tank
- Ball screws and LM guide based guiding systems from Bosch Rexroth, Germany
- High pressure pumps from KMT Water Jet Systems Germany
- CNC controller from Siemens, Germany or Fanuc, Japan
- Efficient cutting head design
- Online feeding for abrasive
- Fully loaded with CAM software
- Laser calibrated for better accuracy

Spare Parts

Water Jet Germany Private Limited stocks all spare parts necessary and provides faster delivery of spares.

Services

Water Jet Germany Private Limited provides 24 X 7 support over telephone to customers. Its team of experienced Engineers & Technicians provide maintenance services at customer site.

Training

Water Jet Germany Private Limited Engineers provide training on machine operation and software both in house at company premises and additionally at customer site.



Water Jet Cutting Machine Models

Model	Movement in x- axis	Movement in Y axis
S1010	1 m	1 m
S2010	2 m	1 m
S2015	2 m	1.5 m
S3015	3 m	1.5 m
S3020	3 m	2 m
S3040	3 m	4 m
S4020	4 m	2 m
S4030	4 m	3 m
S2060	2 m	6 m
S3060	3 m	6 m
S4060	4 m	6 m
S3080	3 m	8 m
S4080	4 m	8 m

All intermediary sizes can be manufactured.



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