QUOTATION

DATE:	
QUOTATION NO:	
COMPANY:	
CONTACT:	
PHONE:	
EMAIL:	

WATERJET 5 AXIS.

THE WATERJET IS THE MOST VERSATILE CUTTING MACHINE THAT MONEY CAN BUY. IT ENABLES TO CUT NOT JUST STONE BUT DIFFERENT TYPES OF MATERIALS, ALLOWING YOU TO EXPAND YOUR BUSINESS TO OTHER MARKETS. EMPOWERING YOU TO CUT GLASS, PLASTICS AND MANY OTHER MATERIALS WITH NO SETUP OR TOOL CHANGING REQUIRED.

FARNESE AUSTRALIA PTY LTD 5 Heald Road, Ingleburn NSW 2565 Australia ABN: 47 057 462 629
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The waterjet machine can be supplied in two configurations: 3 or 5 interpolated axis according with your application, where the 3 axis setup allows you to do precise cuts providing excellent finish quality traveling the cutting head in X and Y directions on the whole cutting area, plus the Z axis that will be able to calibrate the highest cutting edge and will travel above the material slab. The 5 axis cutting head can provide cuttings in different angles from 90 to 20 degrees (depending of the material and setup applied), these 5 axis cuttings can be executed due a complex 5 axis interpolation provided by a high-end Swedish software included to the equipment, empowering you to run with full power.

The standard table size area for the waterjet machine is: 3250x1650mm, the cutting tank volume is 3100 litres and the cutting volume is 3200x1600x230mm, all the movements are provided by absolute Yaskawa drives and servo motors (Japan) and all the linear rails and linear bearings holds German Technology providing 20m/min max travels for XY, 2.5m/min max travel Z axis and 180º/sec for ABC axis. The machine comes with stainless steel covers auto lubricating pump and the machine's cutting tank is not attached to the frame so the resonance and thermal expansion from the tank doesn't affect the gantry frame. The general tolerance provided by the motors is +/- 0.05mm for XY axis per 300mm and for ABC axis is +/-10arc/sec these numbers can't be used as the cutting precision due the different levels of vibration provided by the different kinds of cutting materials, precision of the jigs used to hold the parts, quality of the water, conditions of the table sleds, level of the water tank, conditions of the jewel and cutting nose on the cutting head, plus the resonance involved on the high pressure cutting process. The machine can be calibrated with the software interface to provide on the first setup exactly the dimension required with one main material but after that the cutting precision can change according to the parameters related above, the general cutting precision with all the variables runs about +/-0.5mm.

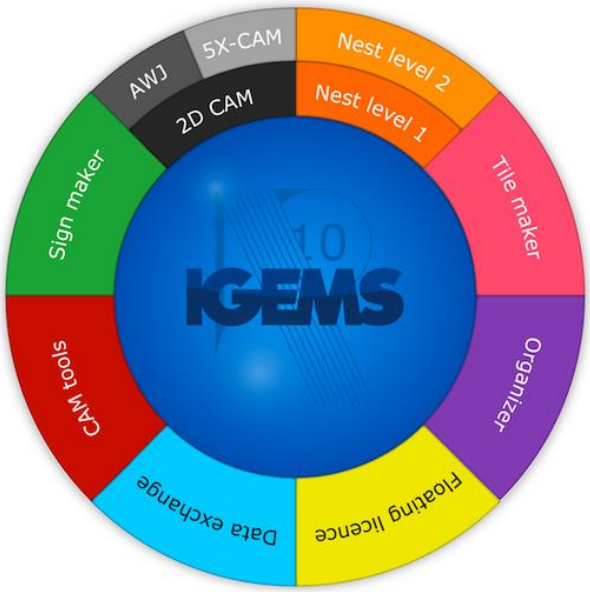
The quality of your water supply directly affects the wear life of all key components in your waterjet system including the waterjet pump and cutting head. The inlet water treatment unit contemplates 3 filters (5.0µm; 1.0µm; 0.05µm), plus a resin softener and an extra 1.0µm filter, after that the water goes to the water high pressure pump. The filters can be replaced easily, Farnese provide the special wrenches to remove the filters, the resin softener unit includes an electronic device that promotes an ion-exchange reducing the hardness and remove the calcium and magnesium from drinking water. Calcium and magnesium salts cause water hardness and non-carbonate hardness is normally due to the presence of sulphates and chlorides. The presence of these minerals results in decreased high pressure seal, check valve and orifice life.

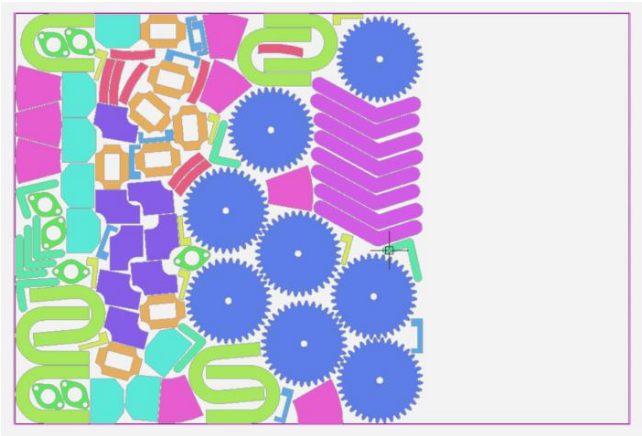
The machine includes an abrasive bucket for the abrasive inlet with automatic feed and mixing disk, where the total volume is 100 litres, after the abrasive is mixed in the mixing chamber the segments of the cuttings and the abrasive form a mud on the bottom of the cutting tank, this mud can be sucked by a pneumatic diaphragm pump and the water can be reused to maintain the water level.

One of the most important parts of a waterjet machine is the pump, this waterjet contemplates a H2O high-pressure pump system containing a big 37kW(50hp) Siemens motor, Bosch Rexroth variable oil pump and an American KMT-H2O intensifier. This setup generates 60,000psi (415Mpa) and during the cutting process 50,000psi (360MPa) pressure, the oil tank capacity is 91 litres – large tank capacity is an essential feature and permits the air-oil cooling system to become more efficient, especially during the summertime or warm days. The high- and low-pressure setup for piercing and cutting can be preset by the software interface, the outlet flow is 3.6 litres per minute using a 0,33mm orifice and the power consumption 28kW. On the water pump unit you will be able to get feedbacks from gauges as: Oil

pressure, Temperature, Inlet water pressure, high pressure and the air inlet pressure is provided by a gauge next to the front pendant. The cutting head is Dia-line, the head body and a laser indicator allow the operator to visualise the cutting edge and calibrate the slab on the table before cutting. The cutting head components consist of mixing chamber, nozzle and jewel can be replaced in case of a crash or natural wear/ tear these components can be purchased from local suppliers and the setup can be explained for a worker/ operator during the installation process.

The machine's interface includes touchscreen 19 inches monitor, wireless keyboard and mouse. Our waterjet machines are powered by IGEMS, a Swedish CAD/CAM Software for waterjet cutting machines with thousands of users, from small job shops to big manufacturing plants. IGEMS provides a full 3D interface for the users, being able to do the computer simulations and allowing you to include external components as jigs and different cutting heights in the same cutting area, avoiding tooling crash and providing cutting reports that can be attached to your process sheet and/or can be used to make precise quotes for your customers. Some extra features as: Auto Nest; Data Exchange, Sign Maker, Tile Maker, Camera Interface, Organizer and floating license can be added depending of your application. IGEMS reads and simulates most part of the available file types for CAM as: *.acd; *.dig; *.gen; *.dxf; *.dwg; *.isf; *.ncp; *.skym; *.ps; *.eps; *.geo; *.trg; *.hpg; *.plt; *.igs; *.mec; *.ord; *.tag; *.wmf and the standard G-Code.





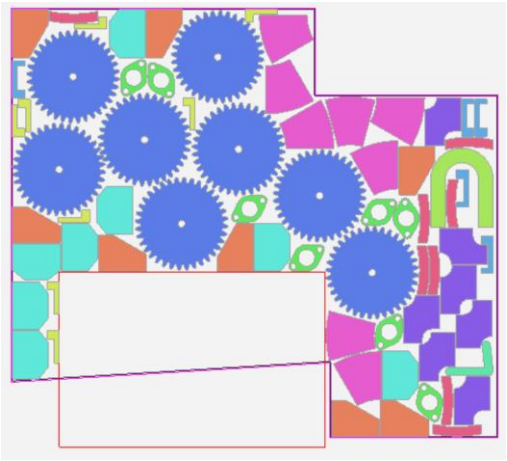
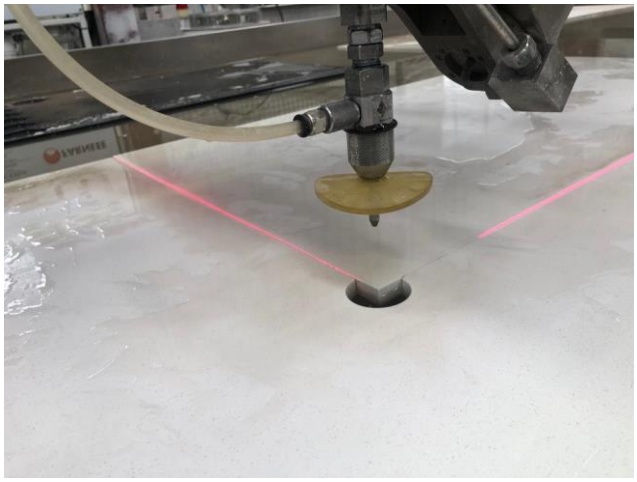


PHOTO GALLERY



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PRICES (EX-FACTORY)

WATER JET	**$235,000 (+GST)**
INSTALLATION	**$6,000 (+GST)**

Included in the price:

- Installation
- Training

Excluded from the price:

- Delivery
- Crane or forklift hire – to unload Truck & position Machines
- Unloading of machine from container or truck
- Water connection to machines
- Air connections to machines
- 3 Phase electrical connection to machines
- Power connection to the machine
- Internet connection to the machine
- Personnel to assist installer at time of installation
- Concrete facilities
- Accommodation and Travel expenses for Installer at time of Installation

TERMS AND CONDITIONS

1.1 The present Terms and Conditions shall apply only to supplies of machines and machine spare parts ("Deliveries") which are made on the basis of a contract concluded between us and a Business Customer ("Customer").

1.2 Any diverging terms and conditions shall not apply unless we have expressly agreed to them in writing.

2.0 TERMS OF DELIVERY

2.1 Prices shall be Ex Works FARNESE plus packaging.

2.2 Partial Deliveries shall be permissible where they can reasonably be expected of the Customer.

2.3 The risk shall transfer to the Customer from such time the machine leaves Farnese Australia PTY LTD. This shall apply to Included Deliveries as well as if a Delivery is dispatched or collected.

2.4 All delivery times are subject to change due to outsourced transport company times and restrictions.

2.5 Claims by the Customer for damages due to a delay of Delivery as well as claims for damages for non-performance which exceed the limits specified in 5.0 shall be excluded in all cases of delayed Delivery even after expiry of the time limit for Delivery fixed by the Customer. This exclusion shall not apply in cases of willful misconduct or gross negligence or bodily injury where liability is mandatory.

2.6 The Customer shall only be entitled to withdraw from the Contract to the extent that we are solely liable for the delay in Delivery and the Customer has set us a time limit within which to perform the Delivery and states that it will cease to accept the Delivery after expiry of the time limit and such time limit has expired. This shall not imply a change in the burden of proof to the detriment of the Customer.

3.0 TERMS OF PAYMENT

3.1 Invoices shall be payable immediately and without any deduction, subject to the terms and conditions of payment contained in the respective offer. Where the offer does not contain any terms of payment, the following shall apply:
10% deposit for securing of machinery at times of Sales Confirmation for a time limit of 30 days, or unless a time frame has been specified and agreed upon and full balance prior to delivery once it has been established. Deposits are Non-Refundable.

4.0 OBLIGATIONS OF THE CUSTOMER

4.1 It is the responsibility of the Customer to organise all electrical wiring, water and air outlets to be ready where the machine is to be placed.

4.2 For Jib Crane installation: concrete must be a minimum of 140mm thick with no cracks or expansion joints with a 300mm clearance around the base plate.

4.3 On day of Delivery it is the responsibility of the Customer to unload the machinery from the truck and to have a Franna crane or a forklift available.

4.4 It is the responsibility of the Customer to organise for an electrician to be present on day of installation so they can connect the power to the machine.

4.5 On the day of Installation the following would be appreciated if provided:

- Ladder 2.5m with an extension to 4m where a Jib Crane is part for the installation
- Hammer Drill
- Dumpy Level
- Spirit Level 1m

(If this cannot be provided please inform the installing technician so they may have the time to organise the hire of above items).

4.6 It is the obligation of the Customer to have one member of their staff available to the technician during installation to help with executions of small tasks that may take two people (e.g. Holding a tape measure in place).

5.0 INSTALLATION TIMES PER MACHINE

ALEXIA MAXI CNC JOB Center	3 DAYS
MASSIMO CNC	3 DAYS
LYNX	3 DAYS
LUCA 360	3 DAYS
MARCO 360	3 DAYS
TECHNICUT	4 DAYS
MITRE SAW EXCEL	PLUG AND PLAY
EZY FLAT	1 DAY
MARMO MECCANICA DUST BOOTH	3 DAYS
OVERHEAD CRANE	5 DAYS
JIB CRANE 360	2 DAYS
SILO – 7000 WATER Recycle	3 DAYS
WATERJET 3 OR 5 AXIS	5 DAYS

*Please note that time frames are purely an estimate.
*We endeavour to meet the time frames, provided there aren't any extenuating circumstances.
*Does not include technician travel time to site on initial day.