Sydney: (02) 9890 9111
Brisbane: (07) 3715 2200
Melbourne: (03) 9212 4422
Perth: (08) 9373 9999
Adelaide: (08) 9373 9969
sales@machineryhouse.com.au
www.machineryhouse.com.au

Product Brochure For W08705

CNC Waterjet Cutting - Swift-Jet Pro 3000

3048 x 1524mm cutting capacity
Z Axis Travel 110mm



ORDER CODE:	W08705
MODEL:	Swift-Jet Pro 3000
Cutting Table Capacity (mm):	3048 x 1524
Maximum Work Piece Weight (kg):	400 Per Square Metre
Maximum Cutting Thickness - (Material Dependent) (mm):	Water 100 / Abrasive 50
X Axis Travel (mm):	3048
Y Axis Travel (mm):	1524
Z Axis Travel (mm):	110
Z Gantry Clearance (mm):	250
Rapid Traverse (X and Y axis) (mm/mm):	20000
Absolute Positioning Accuracy (mm):	± 0.4
Repeatability (mm):	± 0.4
High Pressure Pump (Type):	Direct Drive Plunger
Max Pump Pressure (psi):	50,000
Max Water Usage (L/min):	2 @ 3400bar
Water Capacity (L):	3867
CNC System (Type):	~
Nesting Software:	SwiftCNC / iGEMS
Drawing File (Type):	DXF, DWG, G-Code
Garnet Delivery:	Automatic
Garnet Hopper Capacity (Kg):	200kgs
Electrical Power (kW):	15
Max Current (Amps):	30
Input Air Pressure (Bar (PSI)):	6 (90)
Weight (Empty) (Kgs):	1700
Operating Weight (Kgs):	5700

Swift-Cut SMART CUTTING SOLUTIONS

Made in the UK

1 YEAR WARRANTY

NO PLUG 415V

Description

The Swift-Jet Pro has been designed by our skilled team of engineers to provide an all-encompassing waterjet cutting solution with industry leading features as standard.
The Swift-Jet Pro is bringing the incredible capabilities of waterjet cutting to the masses with a table that has combined high-quality software with our robust table build and made it affordable. If you never thought you could cut anything but metal within your budget, that is all about to change.

The Swift-Jet Pro series Waterjet is rich with technology but at the same time extremely user friendly, The machines are equipped with many standard features such as built-in material databases, Hi / Low pressure control for piercing brittle materials, auto garnet delivery system and adjustable water level for submerged cutting to name a few.

The powerhouse of the Swift-Jet Pro is the German built direct drive pump which outputs 3,400bar / 50,000psi at 100% duty cycle whilst maintaining unrivaled energy savings. These machines are manufactured in Europe and are unbelievably good value.

SOFTWARE: The Swift-Jet Pro is supplied with the world famous IGEMS CAD/CAM software specifically designed for waterjet applications globally. Combined with the exclusive SwiftCNC software, Some of the Software functions and features are-:

• Advanced speed optimization -
Allows the user to combine fast production with an excellent cutting result on a wide range of materials

• Dynamic kerf width -
Kerf offset is dynamically changed depending on actual speed to help maintain incredible accuracy no matter what you are cutting

• Abrasive toolsets database -
Makes the machine suitable for any user. Cutting parameters are all stored in the CNC and loaded accordingly to Material type and thickness, This means that correct parameters and cutting configuration is always set and an optimum cut is guaranteed. Fine adjustment of feed rate or other parameters can still be done during the cutting sequence. This allows any novice use to attain satisfactory cutting results right from the start.

• Machinability calculator -
Determine the optimum cutting speeds on materials not held in the material library

• Parametric shape library -
Comes as standard with 53 common shapes to quickly cut standard shapes without the need for a drawing.

• Cut recovery -

This function allows the user to start from any position along the cut path whilst maintaining cut accuracy and reducing material waste.

• Abrasive cost calculator -
Accurately manage your abrasive cost live on screen at any time

• Consumable wear tracker -
Tracks consumable life so you can exchange prior to failure or reduced cutting quality.

• High/Low pressure control -
Designed specifically for piercing brittle materials effectively without shattering or fracturing the material.

• Sheet alignment -
Simply use the jet nozzle to reference the two bottom corners of the sheet and the software will automatically adjust your part(s) or nest to the new angle meaning the jet nozzle will not 'run off' the material as it travels up the table

• Sheet trim -
Easily trim off scrap material. Options to go between 2 or 3 points

• File types for drawing import - DXF, DWG, PDF, SVG, & EPS.

• Manual nesting of parts

• Online dial in software for remote support

Plus more.....

Features

- CNC Control - The CNC controller is a Touchscreen HMI with optical mouse & wireless keyboard operating on Windows 10 64 Bit software, this allows the machine to use standard windows networking for file sharing and remote support.
- Submerged Cutting - Underwater cutting system (adjustable water level) - means less noise, less mess and enhanced operator comfort.
- Machine Construction - Sticking to our tried and tested formula for a strong and sturdy fully welded base design means that our customers can expect the same robust build when they purchase the Swift-Jet Pro, a table designed to outperform all its competitors at this price point.
- High Pressure Pump - The heart of the system is the highly advanced German built variable speed direct drive pump, creating up to 3400bar / 50000psi pressure at 100% duty cycle using the standard 0.25mm orifice. The pump boasts a unique filtering system making it suitable for tap water quality saving you money on additional equipment and maintenance costs. Maintenance costs are also further reduced with the pump having a 1000hr service interval compared to an intensifier pump which is 500hrs.
- Water pre-treatment - Suitable for tap water quality – No reverse osmosis filtration is required as long as water meets the correct specification. (Note* Sample testing is required at time of order)
- Energy Efficiency – Waterjet cutting systems often use hydraulically driven intensifiers whereby only about 60% of the energy drawn to run the main motor is in effect used for the regulation and provision of the actual cutting Jet. This is an enormous energy loss. The variable speed driven Hammelmann pumps on the Swift-Jet Pro distinguish themselves in comparison to intensifier pumps with a much higher degree of power efficiency, Hammelmann plunger pumps convert 93 to 98% of the shaft power to hydraulic energy
- Bulk Garnet Delivery System - Equipped with a pressurised automatic bulk garnet feeding system which holds 200kg of abrasive, the machine has the ability to run for very long periods without stopping to top up garnet.

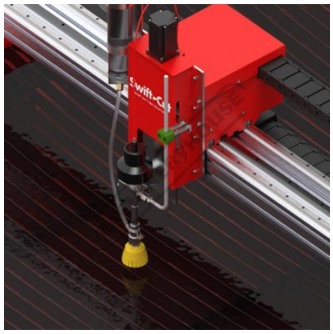
Optional Accessories

- IGEMS SOFTWARE OPTIONS: (Optional Extra by Subscription) Dynamic Nesting, Geometry clean up corrects double lines, overlapped objects or gaps between objects

Sydney: (02) 9890 9111
Brisbane: (07) 3715 2200
Melbourne: (03) 9212 4422
Perth: (08) 9373 9999
Adelaide: (08) 9373 9969
sales@machineryhouse.com.au
www.machineryhouse.com.au

Product Brochure For W08705

Specific Features



Cutting Head


Side



Abrasive Pump and Hopper


Direct Drive Pump



Opperation

Recommended Accessories

S293
Waterjet Garnet 80 Mesh

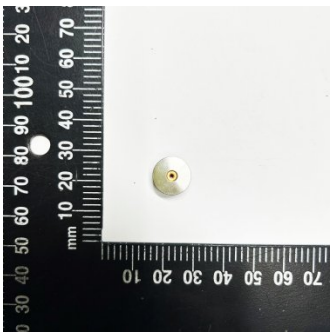
S293T
Waterjet Garnet 80 Mesh

AS0256
ORIFICE ABRASIVE SWIFTJET

AS0257
NOZZLE / MIXING TUBE SWIFTJET





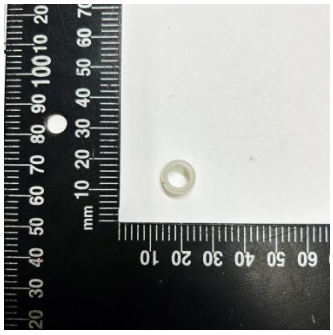




Sydney: (02) 9890 9111
Brisbane: (07) 3715 2200
Melbourne: (03) 9212 4422
Perth: (08) 9373 9999
Adelaide: (08) 9373 9969
sales@machineryhouse.com.au
www.machineryhouse.com.au

Product Brochure For W08705

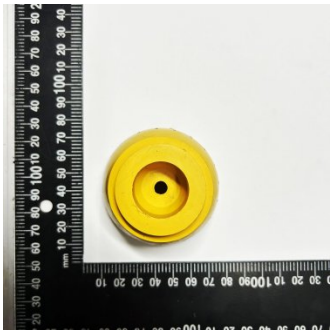
AS0258
NOZZLE RETAINING COLLET



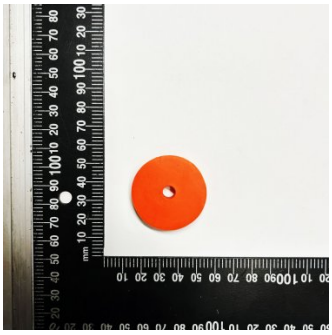
AS0259
NOZZLE NUT - ABRASIVE TYPE



AS0260
SPRAY SHIELD WATERJET



AS0261
BLAST DISC WATERJET



AS0253
ON/OFF VALVE REPAIR KIT

