

Select – optimized by flexibility

# FiveX

TECHNICAL DATA

Devoted to  
performance



WATER JET SWEDEN

## Front line machine technology for advanced 3D components

Our FiveX systems are Water Jet Sweden front line solutions for advanced 3D component production. They are common in high en technology industries like the Aircraft, Power Supply and Space industries.

### TECHNICAL DATA

Construction: .....	Gantry machine, (WJS worldwide patented guide system)
Frame: .....	Heavy-Duty
Cutting Table: .....	Stainless Steel
Covers: .....	Heavy-Duty Stainless Steel Protection Covers
Motion System: .....	Linear Motor / Ballscrew
Control Unit: .....	PanelOne Operator HMI
CNC-system: .....	FANUC 31i-5
3D Cutting: .....	WJS 5AX
Process: .....	AWJ (PWJ and FAWJ compatible)

### PERFORMANCE

Positioning accuracy: .....	$\pm 0.050$ mm/m
Repetition accuracy: .....	$\pm 0.025$ mm
A-axis movement: .....	$\pm 91^\circ$
C-axis movement: .....	$\pm 220^\circ$
Transmission accuracy A & C axis: ..	$< 1$ arcmin
Lost motion A & C axis: .....	$< 2$ arcmin

### MACHINE SIZE (M)

MODEL	NC5 25	NC5 30	NC5 35	NC5 40
Width	2,5 m	3,0 m	3,5 m	4,0 m
Length*	$\leq 2$ m	$\leq 2$ m	$\leq 2$ m	$\leq 2$ m
Max Z movement	750/1000 mm	750/1000 mm	750/1000 mm	750/1000 mm

\*Since every FiveX machine is designed according to customer needs the length of the machines can be variable. Standard sizes are 2, 4 and 6 meters.

### FEATURES

#### Free form cutting

With a FiveX machine you can utilize free form cutting with an exceptionally long stroke and Z-movement up to 1000 millimeters. WJS also deliver specially designed fixturing tables according to customer needs. A vector based calculation in Fanuc CNC for TCP gives improved cutting quality.

#### Intelligent Probe Interface

The Workpiece Indicator System, (Renishaw Probe Interface) is fully integrated into PanelOne control unit with a large library of pre-designed measurement cycles, with customized measurement cycles as an option.

#### Enhanced safety

A FiveX waterjet machine cut both vertically and horizontally, therefore WJS FiveX machines has a full size wall construction and automated side and frontal protection for safe production environment.

## Select – optimized by flexibility

FiveX is built with our most advanced technology and has an exceptional stable construction to repeatedly perform, hour after hour high precision five axis cutting of full 3D components. Every FiveX machine is tailored according to the customer production.

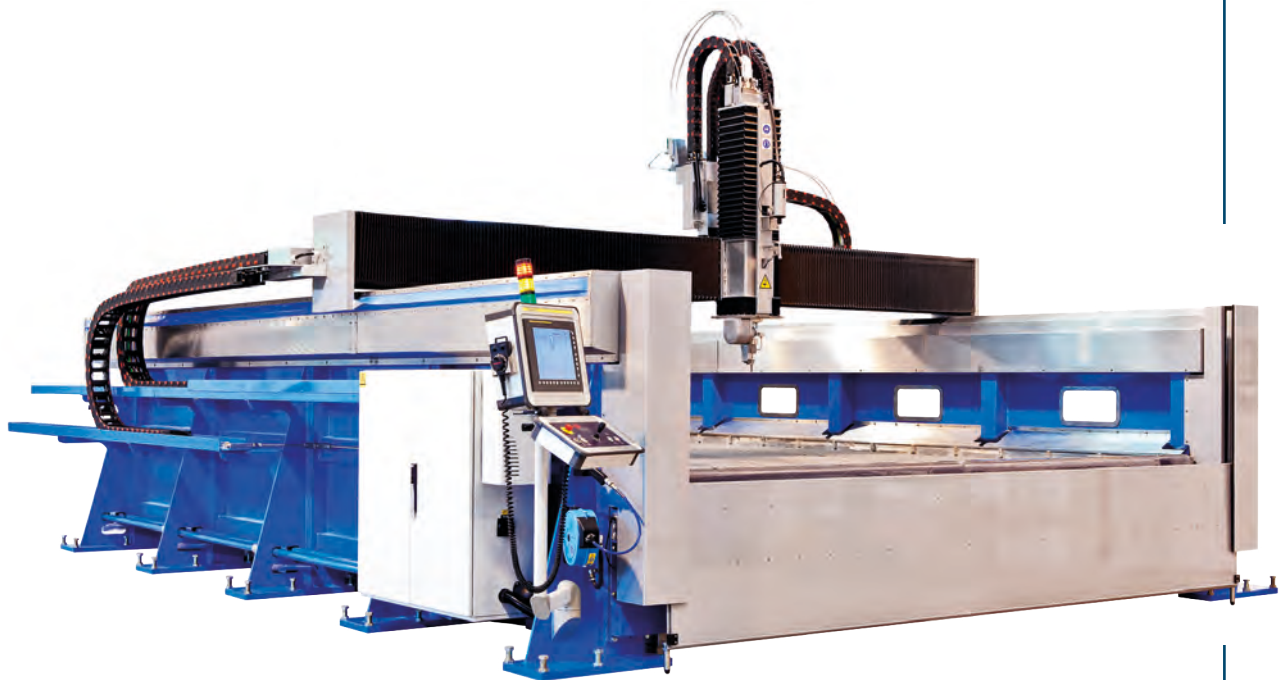
WJS FiveX machines are supported by the world leading CAD/CAD software for free form waterjet cutting.

### INCLUDED

- Handy Operator Panel (HOP)
- Abrasive Supply System with Pressure Vessel and Abrasive Tower
- Abrasive level control and blockage control
- Remote control of HP Pump in HMI
- Abrasive removal system with tip container and sediment tank

### OPTIONS

- Zero point indicator
- Workpiece Indicator System (probe function)
- Unmanned operations functions
- Jet Pen Marker system
- Quick water level adjustment
- Fixture arrangements
- Online abrasive feeding system
- Electronic abrasive feeder, flow controlled from PanelOne
- Pressure monitoring of HP pump in HMI
- Proportional valve pressure control of HP pump in HMI



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## General Water Jet Sweden benefits

### Designed to meet your specific needs

We offer machine system solutions based on an extensive range of product categories and families, but all machines are actually designed to meet specific customer needs. Each machine will consequently be considered a unique project.

### World class CNC systems



To secure high performance, all Water Jet Sweden machines have FANUC CNC systems. Best reliability and availability in the world.

Fast and reliable CNC systems with worldwide support.

### Five Years Performance Warranty



We guarantee a brand new machine performance after 5 years of duty - a warranty extension made possible by a unique design. Thanks to the robust mechanical design and the patented guiding system, we can ensure reliable machine performance over an extensive life span. Due to this fact, we can also offer a performance warranty spanning over 5 years or 10 000 hours of operation!



Europäisches Patentamt  
European Patent Office  
Office européen des brevets

### Turn-key Delivery and Performance Testing

All machines are thoroughly tested before delivery, with advanced testing equipment from Renishaw. We use both AS XL-80 Laser for static laser measurements and Q-10 Ballbar dynamic performance for accuracy and repetition. Our turn-key delivery always includes installation, training and performance verification to secure customer operation.

### PanelOne® HMI

All Select and Special machines have a specific operator panel designed according to industry standards. PanelOne is an easy-to-learn, simple-to-use machine control unit, developed specifically for water jet cutting. To increase efficiency, the panel has a touch screen with a number of time-saving functions and a uncomplicated operator desk with a joystick and the key functions.

### Lifetime Support by Waterjet Specialists



The WJS service team is highly specialized within the field of water jet cutting. They are rightfully appreciated for fast, efficient support, online trouble-shooting and a high degree of personal commitment. Via our hotline support, our technical expertise is available on a 24/7 basis - and we always ship your spare parts on the very same day you order them!

### CERTIFICATE



Water Jet Sweden AB  
Teknikvägen 4  
SE-372 38 Ronneby  
Sweden

Phone: +46 457-45 54 40  
Fax: +46 457-192 01  
E-mail: [info@waterjet.se](mailto:info@waterjet.se)  
Web: [waterjetsweden.com](http://waterjetsweden.com)

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