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!

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**PanelOne® HMI**
All Select and Special machines have a specific operator panel designed according to industry standards. Panel-One 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 an 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!
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.

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.

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: WJS (PKJ and FANU compatible)

POSITIONING

Positioning accuracy: ± 0.050 mm/m
Repetition accuracy: ± 0.025 mm
A-axis movement: ± 91°
C-axis movement: ± 220°
Transmission accuracy A & C axis: < 1 arcmin
Lost motion A & C axis: < 2 arcmin

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 HW
• Abrasive removal system with tip container and sediment tank

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.

MACHINE SIZE (M)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>NC5 25</th>
<th>NC5 30</th>
<th>NC5 35</th>
<th>NC5 40</th>
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<tr>
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<td>3.5 m</td>
<td>4.0 m</td>
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<tr>
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<td>± 2 m</td>
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*Since every FiveX machine is designed according to customer needs the length of the machine can be variable. Standard sizes are 2, 3 and 4 meters.

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 feeding: flow controlled from PanelOne
• Pressure monitoring of HP pump in HW
• Proportional valve pressure control of HP pump in HW
FiveX

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