

JIMTOF2018

Booth No.
E2029



IMTS2018

Booth No.
S-339489

7,000 psi (50MPa) CNC Waterjet Center

For Precision Washing, Deburring, Desanding and Chip Flushing



i-movac series

MOVAC=Most Valuable Concept

FE-MOVAC


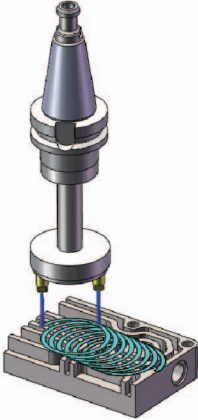

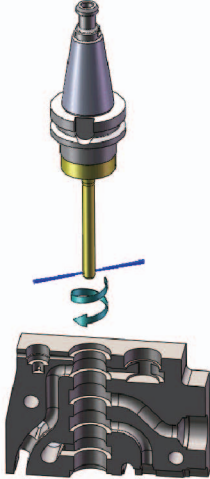

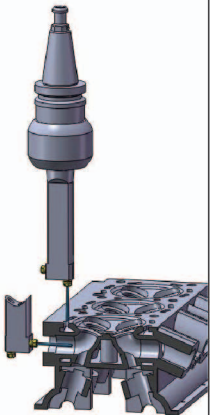
The Latest Technology In The Industry

Mighty Nozzle

A probe style high performance nozzle with a highly focused side jet, makes it up to 10x more efficient, more effective, and adaptable to many uses.

Speed Flex Nozzle

A multi-orifice nozzle in which the fluid path can be instantaneously redirected between orifices, changing the use of the nozzle and eliminating tool changes.

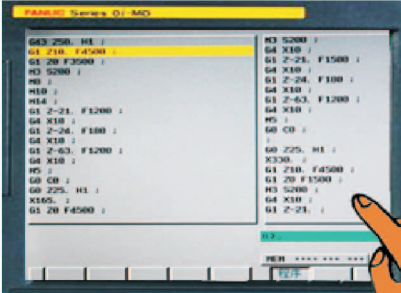
Mighty Nozzle	Surface Nozzle	Downward Nozzle	Lance Nozzle	Side Nozzle	Speed Flex Nozzle
					
ABS Body Master Cylinder	Valve Body	Power Steering Pump	Hydraulic Valve	Crank Shaft	Cylinder Head

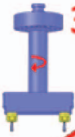
Pressure Control System

The pump pressure can be changed automatically by workpiece program or during the machine cycle, by use of integral program codes.


Waterjet Guarantee System (optional)

Automatically verifies the relative position and impact force of the waterjet, for process verification.






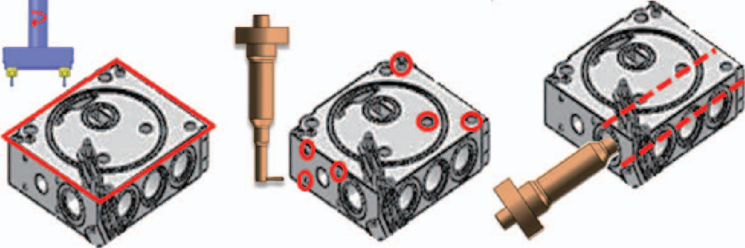
Surface
30MPa



Thread
15MPa



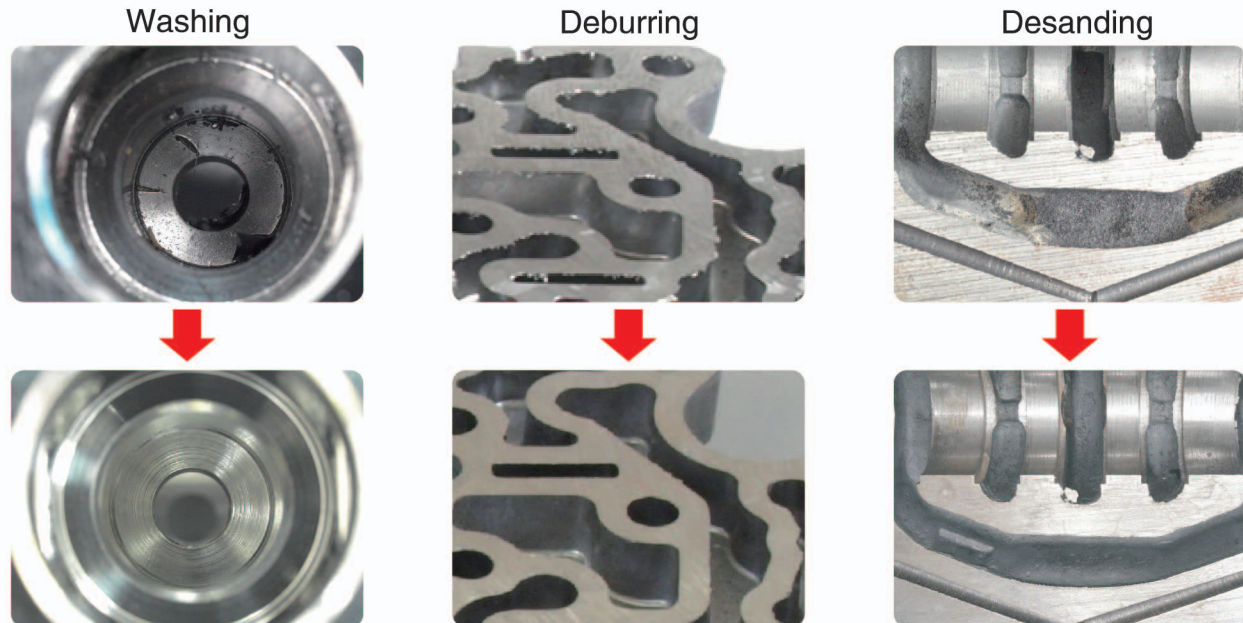
Deep Hole
50MPa





Basic Functions

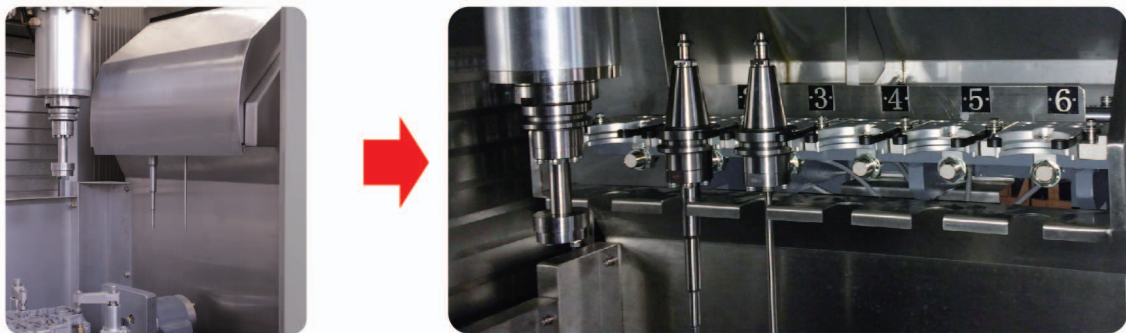
- **Precision washing with up to 7,000 psi (50MPa) High-Pressure Water.** Uses water only, and precisely positioned high velocity waterjets to efficiently remove chips, burrs, sand and debris.



※ Different conditions, different effects.

■ Automatic Tool Changing System

Workpieces are cleaned effectively by using various nozzle types designed for the unique features and contours of the workpiece. The nozzles are automatically changed using a precision ATC system. The tool changer hold up to 6 tools.



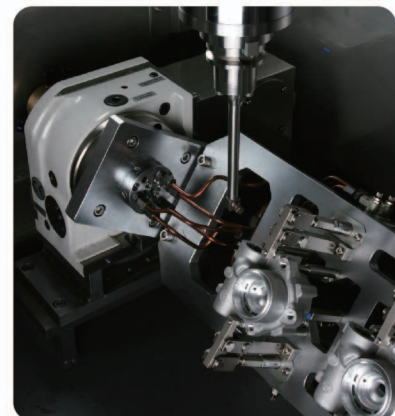
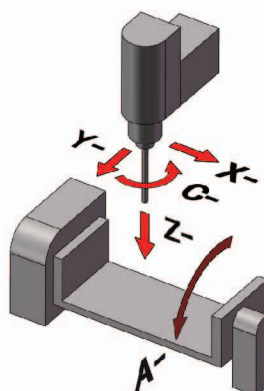
■ Twin Spindles (optional)

Two workpieces can be washed simultaneously, greatly increasing the machine efficiency.

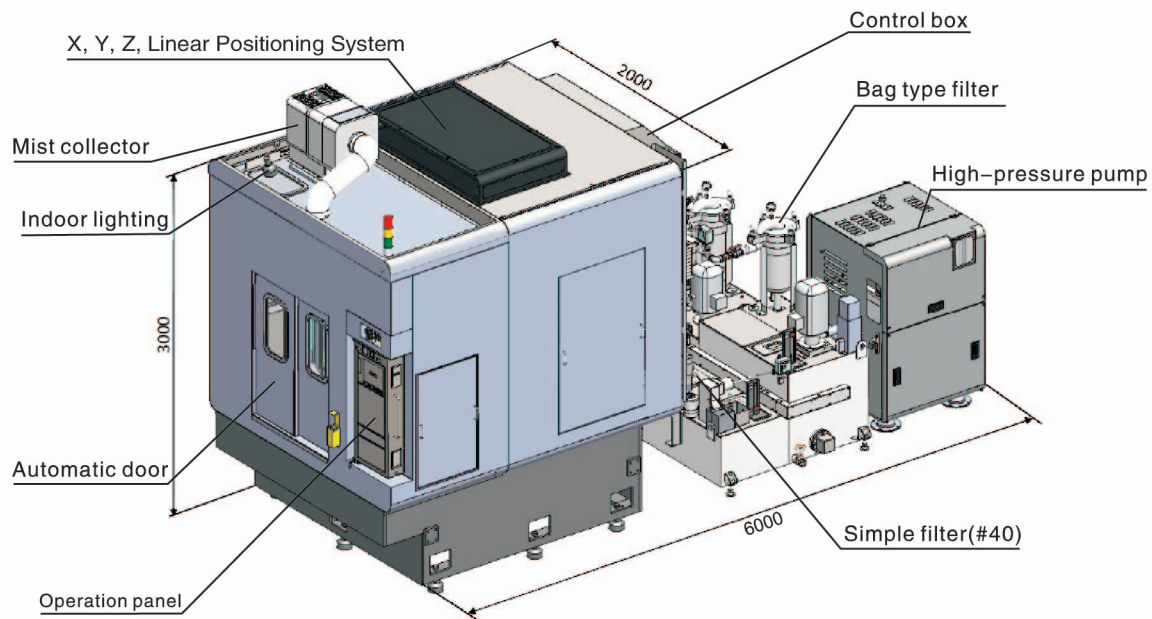


■ 5-Axis CNC Control

A 5-axis CNC control (Fanuc) and positioning system is used to access and process all six faces of the workpiece.



Machine Components



Specification

Model	i-movacMA	i-movacLLA
Pump	7,000 psi (50MPa) x 5. 2 gpm (20L/min)	
Pressure Control	Pressure Control System	
Stroke	X=27.6" Y=19.7" Z=19.7" (X=700mm Y=500mm Z=500mm)	X=39.4" Y=27.6" Z=27.6" (X=1000mm Y=700mm Z=700mm)
Rapid Travers (X,Y,Z)	189in/min (48m/min)	118in/min (30m/min)
Positioning	5-axis (X,Y,Z,C,A : Linear and Rotary)	
Repeatability	± 0.0020in(0.05mm)	± 0.0032in(0.08mm)
Spindle Speed	500rpm	
Nozzle Quantity	6 pcs.	
CNC Specification	FANUC 0i MF	
Filtering System	Wire basket(#40)+Bag(10micron)+Bag(5micron)	
Components	CNC Rotary Table, Oil Separator, Mist Collector, Indoor Lighting	
Machine Weight-dry	14,000 lbs (6.5Ton)	17,000 lbs (8Ton)
Machine Dimensions	W78.7" x L236.2" x H118.1" (W2000mm x L6000mm x H3000mm)	W94.5" x L244.1" x H118.1" (W2400mm x L6200mm x H3000mm)
Power Supply	41KVA	45KVA

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FE-MOVAC Catalog