

create your future

**Sodick**

Rigid Linear Motor Driven EDM

# VL400Q

Performance Precision Wire EDM Machine with Improved Surface Finish Circuit

## Advanced Rigid Linear Motor Technology

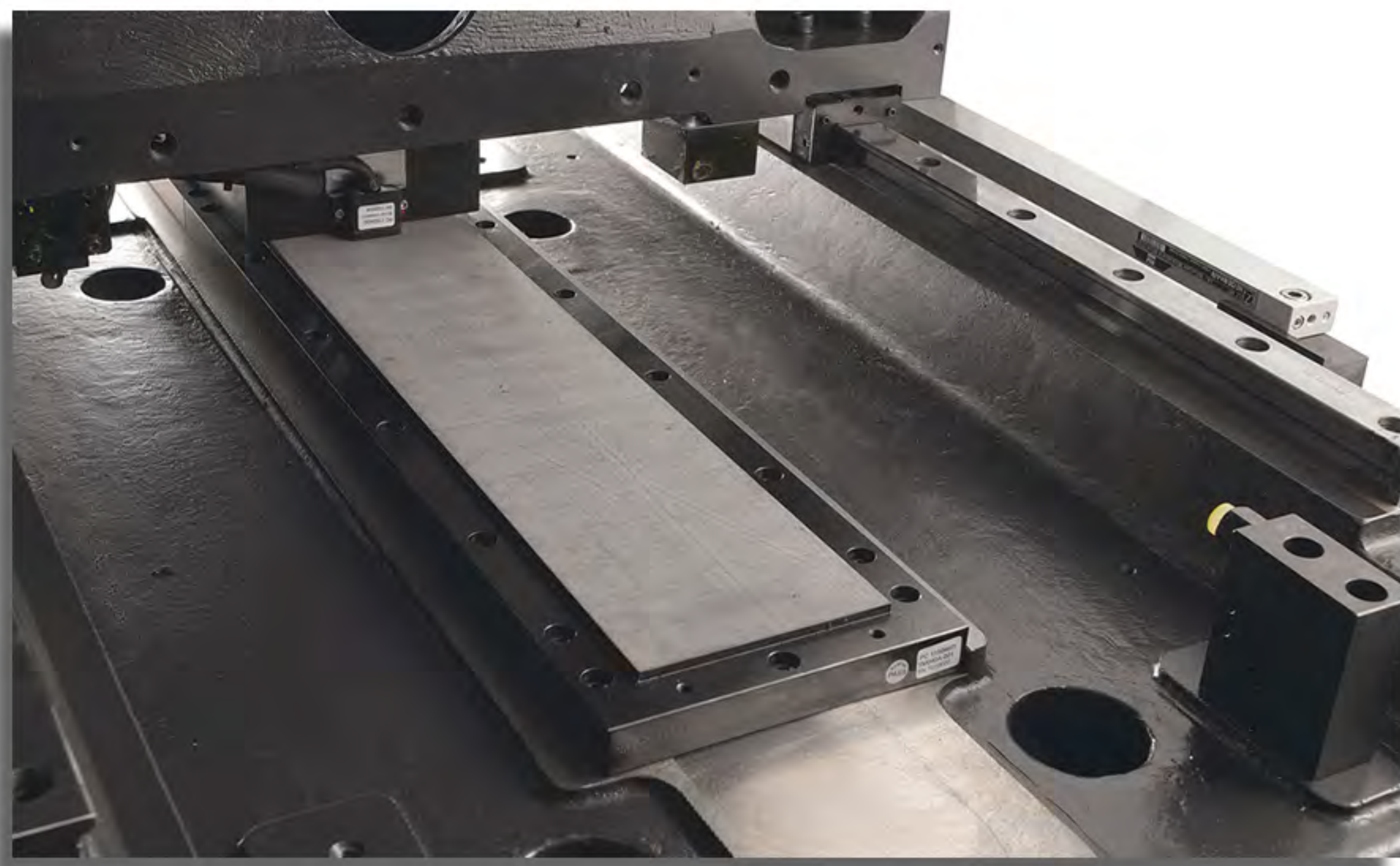
With nearly two decades experience behind our rigid linear motor drives, Sodick's machine tools achieve superior accuracy, speed, and responsiveness over competitors. Without the wear and maintenance problems faced by other machines, Sodick is the only company to offer a 10-year positioning accuracy guarantee for our reliable, efficient machines.

## New Automatic High-Speed Wire Threader

Sodick's improved Super Jet Automatic Wire Threader (AWT) with Pop-Up Function is specifically made to reduce re-try movement, with round guide heads and a thermal cutting process to further increase the threading success rate. AWT is ideal for unattended machining, making Sodick machines excellent candidates for industrial automation.

## Integrated Precision with Sodick Motion Controller

With custom features designed and built in-house, Sodick machines achieve the most efficiency at minimal expense. Capable of making over 500 adjustments per second, our powerful motion controller works in tandem with our rigid linear motors to achieve fine precision. Moreover, by increasing machining efficiency and reducing machining time, Sodick Motion Control reduces energy consumption by 20%.





# VL400Q

## Specifications

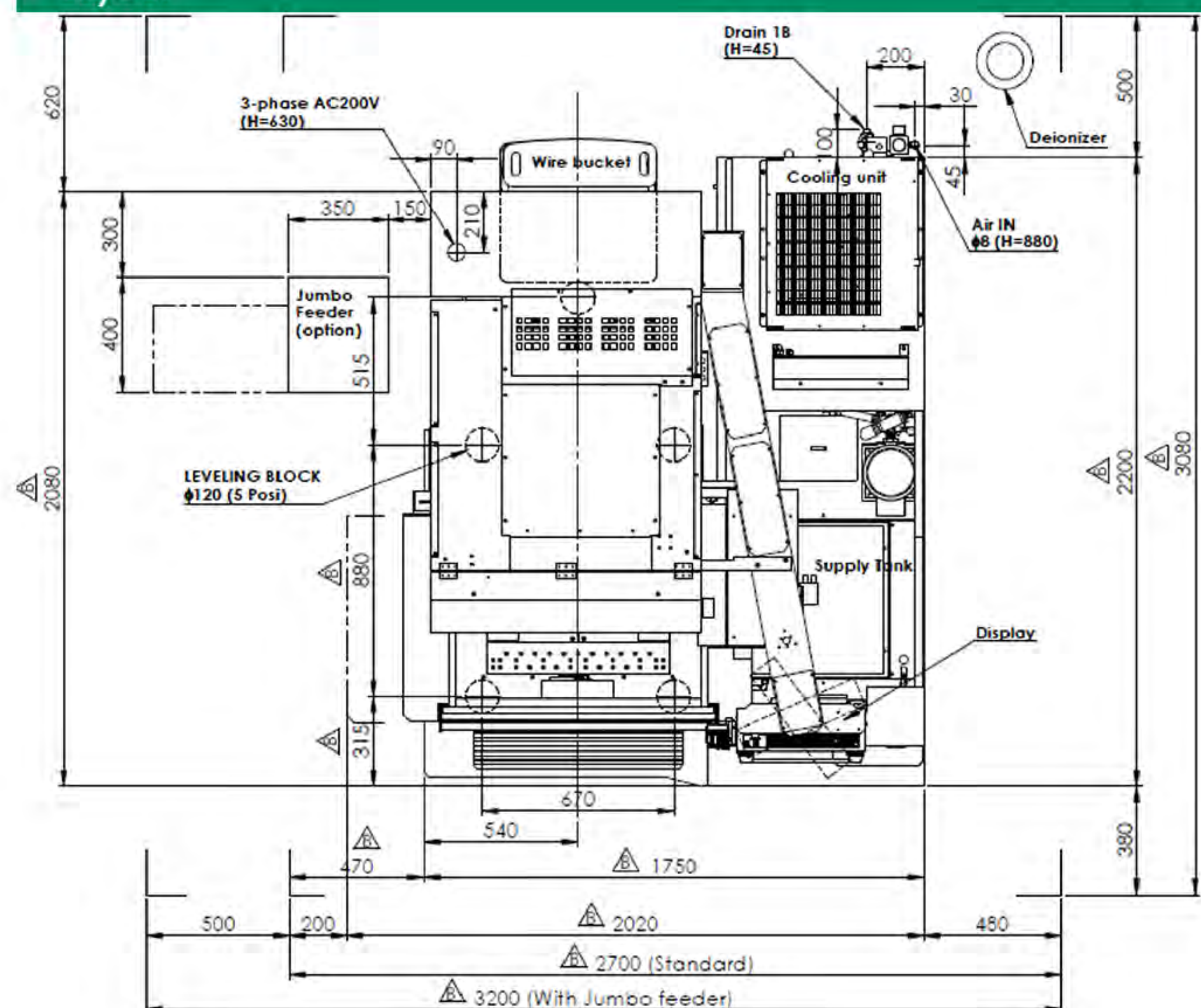
### Machine Tool

Work Tank Inner Dimensions (W x D)	33.86" x 27.17" (860 x 690 mm)
X Axis Travel	15.7" (400 mm)
Y Axis Travel	11.8" (300 mm)
Z Axis Travel	8.66" (220 mm)
U x V Axis Travel	3.15" x 3.15" (80 x 80 mm)
Max. Taper Angle	±15 (Thickness 4.72"/120 mm)
Max. Workpiece Size (W x D x H)	32.67" x 24.01" x 8.46" (830 x 610 x 215 mm)
Max. Weight of Workpiece	1,102 lbs (500 kg)
Wire Diameter	0.004" ~ 0.012" (0.1 ~ 0.3 mm)
Wire Tension	3 - 23 N
Wire Feed Rate	16.54"/sec (420 mm/sec)
Distance from Floor to Tabletop	35.43" (900 mm)
Machine Tool Dimensions (W x D x H)	79.52" x 90.94" x 78.34" (2,020 x 2,310 x 1,990 mm)
Machine Tool Weight	5,952 lbs (2700 kg)
Total Power Input	3-phase 50/60 Hz 11 KVA

### CNC Power Supply Unit

Max. Machining Current	32 A
Power Requirement	200/220 V 50/60 Hz
NC Unit	Multi-tasking OS, K-SMC-Link Method
User's Memory Capacity	Editing: 100,000 Blocks, Saving: 30 Mb
Memory Device	CF Card, External Memory
Input Format	External Memory, Mouse, Keyboard, Remote Controller
Display Type	15 inch TFT-LCD
Character Set	Alphanumeric and symbols
Keyboard	Standard 101-Key, Function Key
Positioning Command	Incremental and Absolute
Max. Input Command	±999999.999/±999999.999/±999999.999
Machining Conditions Storage Capacity	1000 conditions (C000 to C999)
Offset Settings Storage Capacity	1000 conditions (H000 to H999)
Program Sequence Number Assignment	N000000000 to N999999999
Number of Coordinates	60
Simultaneously Control Axes	Max. 4 Axes
Min. Input Command	0.000004 in (0.1 μm)
Min. Drive Unit	0.000004 in (0.1 μm)
Max. Feed Rate	9.84 ft/min (3 m/min)
Position Detection	Full Closed Loop (Linear Scale)
Drive Mechanism	Rigid Linear Motor Drive
Graphics	XY, YZ, ZX plane, graphics drawing during machining, background graphics drawing

### Layout



### Dielectric Tank

External Dimensions (W x D x H)	29.72 x 86.61 x 70.86" (755 x 2,200 x 1,800 mm)
Weight (Empty)	837 lbs (380 kg)
Capacity	155.8 gallons (590 liters)
Filtration Method	Replaceable Paper Filter
Deionizer	Ion-Exchange Resin

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Due to ongoing research, specifications are subject to change without prior notice.  
The content of this catalog is current as of September 2015.

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