

HS630 / HS800



Horizontal Machining Center

High-productivity & performed
Horizontal Machining Center

- Adopted Linear Rolle Guide at each Axis
- Adopted 2steps Gear driven Type for Heavy duty Cutting
- The Heaviest load Capacity on the table, 1,200kg
- Adopted BIG PLUS Spindle as a standard (BT/CAT Tool are public use)

| | | | HS630 | HS800 |
|-----------------------------|-----------|-------------|-------------------------|-------------------------|
| Table Size (length x width) | | mm [in] | 630 x 630 [24.8 x 24.8] | 800 x 800 [31.5 x 31.5] |
| Table Load | | kgf [lbs] | 1,200 [2,646] | 1,600 [3,527] |
| Travel | X | | 1,050 [41.3] | 1,050 [41.3] |
| | Y | mm [in] | 875 [34.4] | 875 [34.4] |
| | Z | | 875 [34.4] | 875 [34.4] |
| Spindle Taper | | mm [in] | BBT#50 | BBT#50 |
| Spindle Speed | STD | rpm | 8,000 | 8,000 |
| | OPT | | 12,000 | |
| Spindle Power | STD | kw [hp] | 22/18.5 [29.5/24.8] | 22/18.5 [29.5/24.8] |
| | OPT | | 30/25 [40.2/33.5] | |
| Rapid Traverse | X, Y axis | m/min [ipm] | 50 [1,969] | 50 [1,969] |
| | Z axis | | 50 [1,969] | 50 [1,969] |
| Tool Storage Capacity | STD | EA | 40 | 40 |
| | OPT | | 60, 90, 120 | 60, 90, 120 |

Design and Specifications are subject to change without prior notice.

**HYUNDAI-KIA MACHINE
AMERICA CORP.**

Power of Evolution

www.Hyundai-KiaMachine.com



HS630 / HS800

Specification

| ITEM | | | HS630 | HS800 | | |
|----------------------------------|---|--------------|-------------------------------|---------------------------------|-------------------------------|----------------------|
| TABLE | Size (length x width) | | 630 x 630 [24.8 x 24.8] | 800 x 800 [31.5 x 31.5] | | |
| | Max. load on table | | 1,200 [2,646] | 1,600 [3,527] | | |
| | Max. work size | | 2-Ø930xH1,000 [Ø36.6 x H39.4] | 2-Ø1,200xH1,100 [Ø47.2 x H43.3] | | |
| | Table type | | Tap Hole | Tap Hole | | |
| | Min. indexing angle | STD | degree | 1 | 1 | |
| OPT | | 0.001 | | 0.001 | | |
| TRAVEL | Table longitudinal | X | mm [in] | 1,050 [41.3] | 1,050 [41.3] | |
| | Table cross | Y | | 875 [34.4] | 875 [34.4] | |
| | Spindle head verticle | Z | | 875 [34.4] | 875 [34.4] | |
| | Distance between spindle center to table top | | | | 100~975 [3.9~38.4] | 80~975 [3.2~38.4] |
| | Distance between table center to spindle nose | | | | 150~1,025 [5.9~40.4] | 210~1,025 [8.3~40.4] |
| SPINDLE | Taper | | | BBT#50 | BBT#50 | |
| | Speed | STD | rpm | 8,000 | 8,000 | |
| | | OPT | | 12,000 | | |
| | Power | STD | kw [hp] | 22/18.5 [29.5/24.8] | 22/18.5 [29.5/24.8] | |
| | | OPT | | 30/25 [40.2/33.5] | | |
| | Torque | STD | kgf-m [ft-lbs] | 79.6 [575.7] | 79.6 [575.7] | |
| OPT | | 42.9 [310.3] | | | | |
| Spindle drive | | | 2 step geared | 2 step geared | | |
| FEED | Rapid | X,Y axis | m/min [ipm] | 50 [1,969] | 50 [1,969] | |
| | | Z axis | | 50 [1,969] | 50 [1,969] | |
| | Cutting feed rate | | | | 50 [1,969] | 50 [1,969] |
| ATC | Type | | | twin arm | twin arm | |
| | Tool storage capacity | STD | EA | 40 | 40 | |
| | | OPT | | 60, 90, 120 | 60, 90, 120 | |
| | Max. tool diameter | | | 125 [4.9] | 125 [4.9] | |
| | Max. tool diameter (without adjacent tool) | | | 245 [9.6] | 245 [9.6] | |
| | Max. tool length | | | 500 [19.7] | 500 [19.7] | |
| | Max. tool weight | | | 15 [33.1] | 25 [55.1] | |
| | Tool selection type | | | Fixed address | Fixed address | |
| Tool change time | tool to tool | | sec. | 3.0 | 3.0 | |
| | chip to chip | | | 7.0 | 7.0 | |
| APC | Pallet change type | | | Direct Turn | Direct turn | |
| | Pallet change time | | sec. | 12.0 | 20.0 | |
| MOTOR | Spindle | Main | kw [hp] | 22/18.5 [29.5/24.8] | 22/18.5 [29.5/24.8] | |
| | Feed | X / Y | | 7/6 [9.4/8] | 7/6 [9.4/8] | |
| | | Z / B | | 7/1.6 [9.4/2.1] | 7/3 [9.4/4] | |
| | Coolant | | | | | |
| Coolant through spingle (Option) | | | | 30 bar | 30 bar | |
| Rigid tapping | | | | 70 bar | 70 bar | |
| Electric capacity | | | STD | STD | STD | |
| Electric capacity | | | kVA | 53 | 53 | |
| Floor space | | | mm [in] | 3,975 x 5,915 [156.5 x 232.9] | 4,050 x 6,050 [159.4 x 238.2] | |
| Slide way | | | | Roller guide | Roller guide | |
| Machine weight | | | kgf [lbs] | 23,000 [50,706] | 25,000 [55,115] | |
| Controller | | | STD | FANUC 18iMB | FANUC 18iMB | |
| | | | OPT | | | |

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