



Horizontal Machining Center Manufacturer and Supplier
No.1 High Speed Precision HMC in Taiwan



CONTENTS

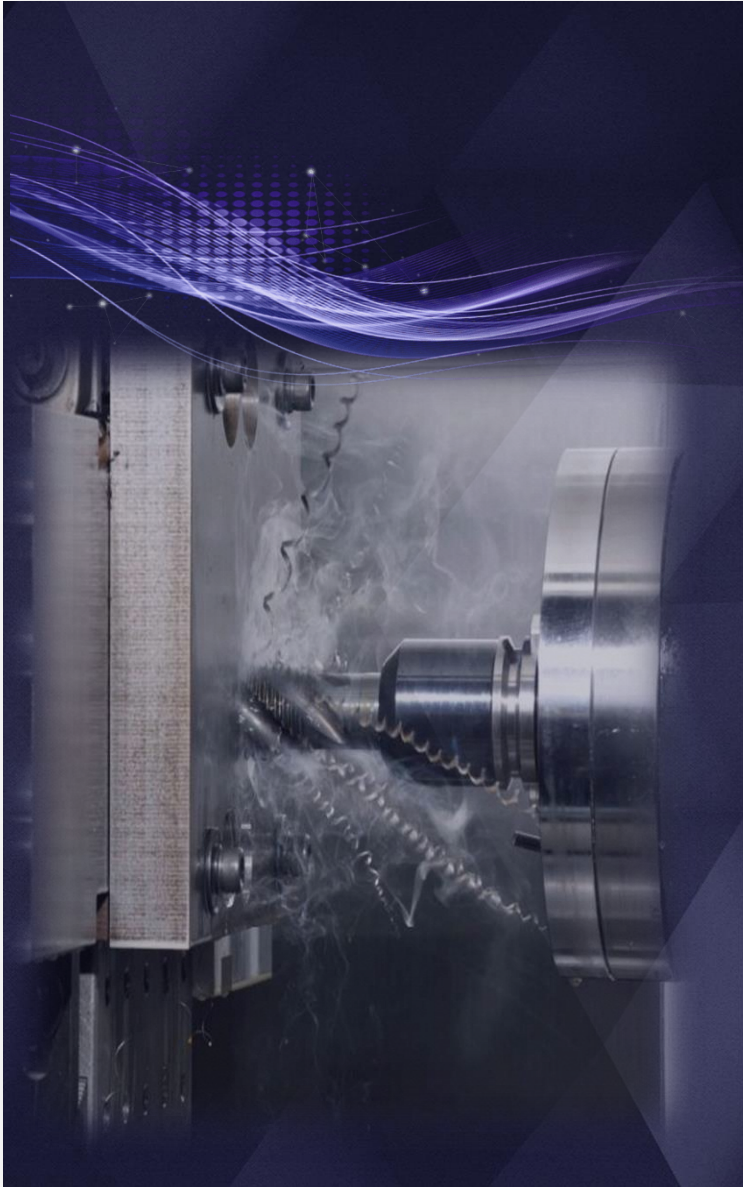
01 Company Overview

02 Superior Products

03 Product Applications

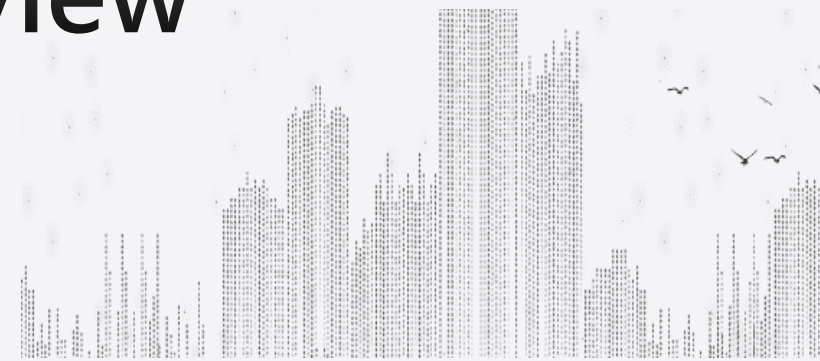
04 Global Sales

05 Contact Us



01

Company Overview



Established since 2006 AVEREX Automation has become Taiwan's premier precision horizontal machining center manufacturer.

AVEREX specializes in high rigidity, high speed, high precision flexible HMC with field expandable pallet and tool changers.

500+ HMC global sales record attest to our wealth of experiences in proven design, production and services.





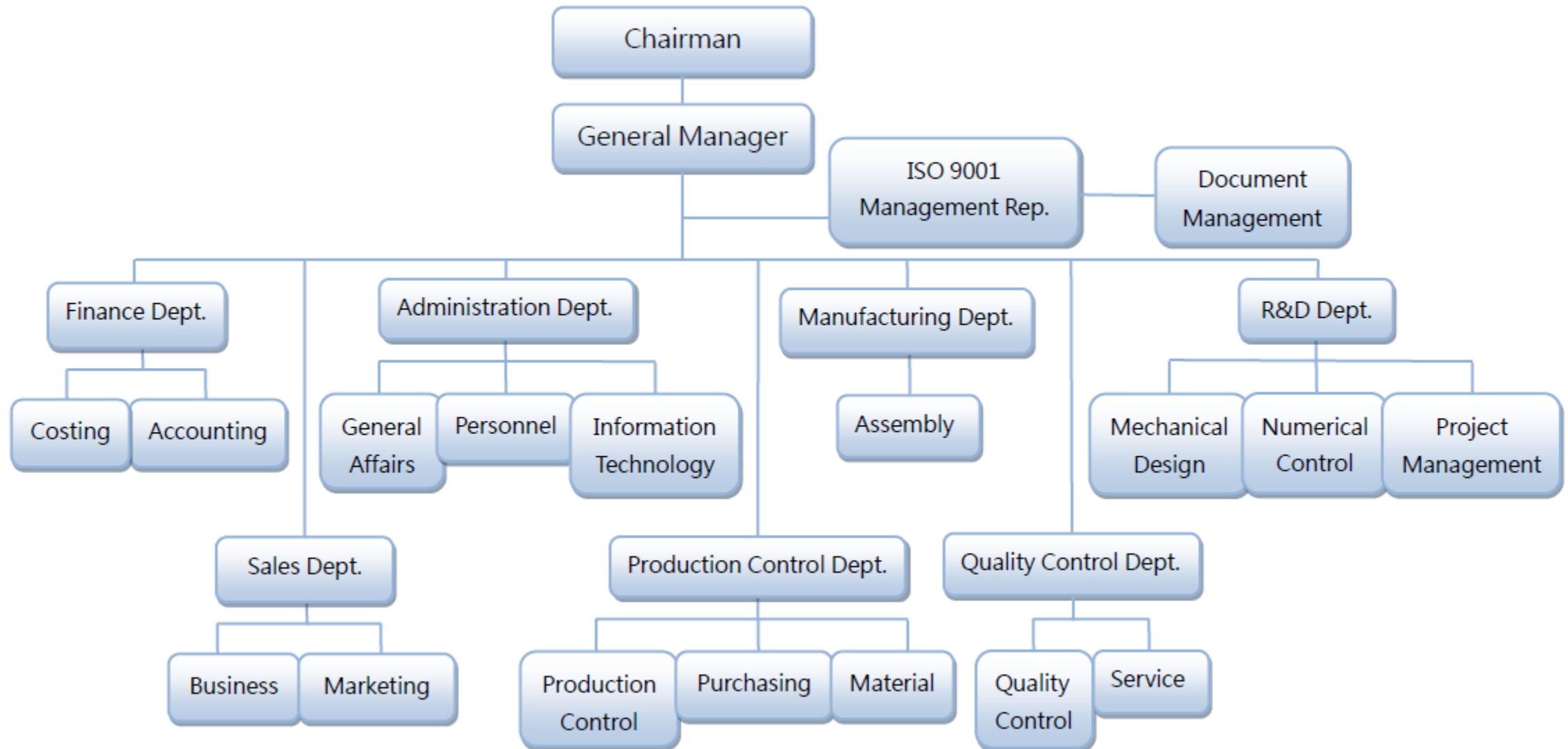
Quality Policy

Pursuit of Quality Perfection & Leading Brand Recognition

The CNC Professionals

Every management team member possesses over 20 years of experience in machine manufacturing and sales.





Company Overview

CE & ISO 9001:2015 Certification

2010 CE Approved Certification



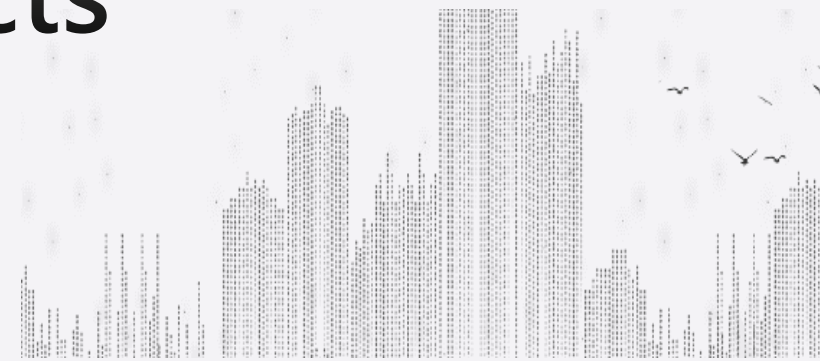
2012 ISO 9001:2008 Certification

2015 ISO 9001:2015 Certification



02

Superior Products



02

Superior Products

Product Lines



HS-450 Series

#40 Spindle 400, 500mm Pallets



HS-540 Series

#40 Spindle 500, 400mm Pallets

HS-550 Series

#50 Spindle 500, 400mm Pallets



HS-630 Series

#50 Spindle 630mm Pallets

02

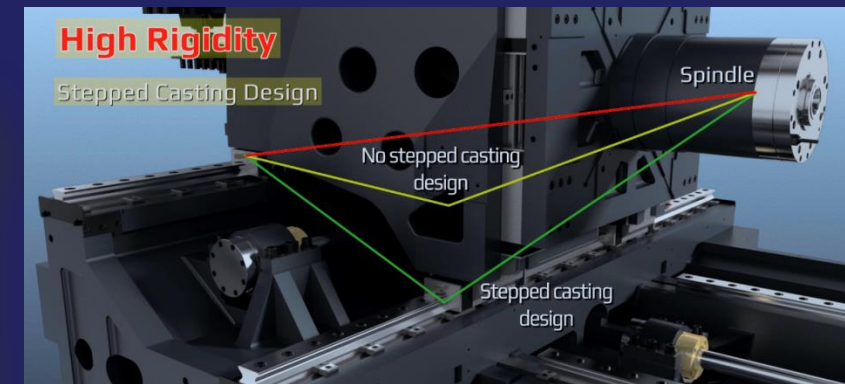
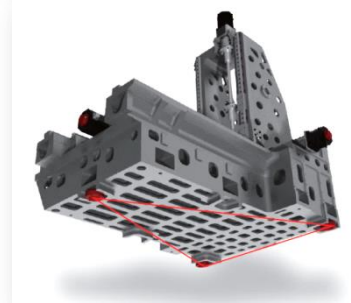
Superior Products

High Rigidity Design

All Contact Surfaces
100% High Precision
Hand-Scraping



One-Piece Casting Base
Stepped X Axis
3 Point Leveling

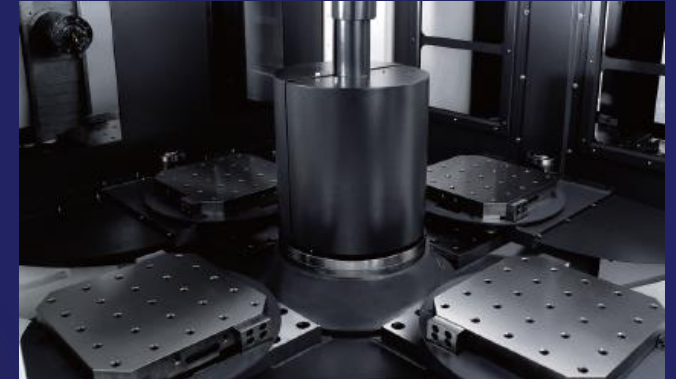
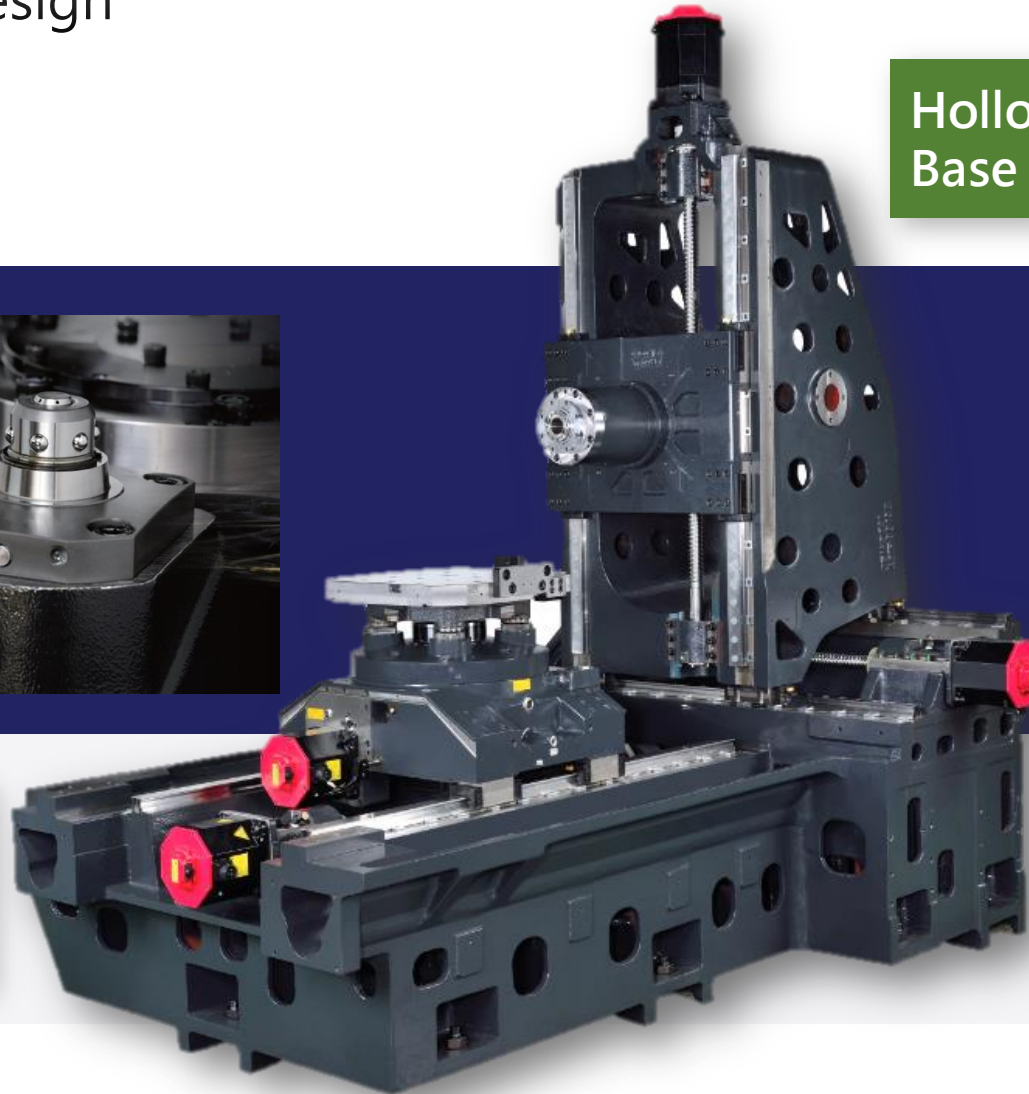


02

Superior Products

High Rigidity Design

Hollow Ribbed
Base & Column Castings



Made in Japan
THK® Roller Guideways
TSUBAKI® Ballscrews

Superior Products

High Speed High Precision

Models	Spindle rpm	Rapid m/min	Cut Feed m/min	Table Rotation rpm	ATC sec	APC sec
HS-450k/i HS-540k (BBT40)	15,000	60 1G	60	33.3	1	5
HS-550k (BBT50)	10,000				2.2	
HS-540i GTS (BBT40)	15,000	74 1G	60	66.6	1	5
HS-550i GTS (BBT50)	10,000				2.2	
HS-630i (BBT50)	10,000	50 1G	50	33.3	2.5	8

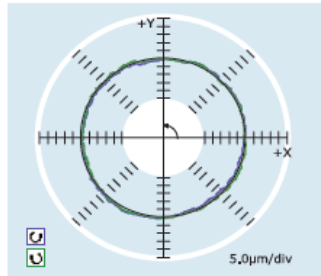
Superior Products

High Speed High Precision

Positioning & Repeatability

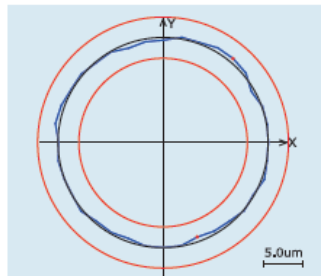
Standard Code	ISO 10791-4	HS-450 / 540 / 550 series
Travel	Full Stroke	Full Stroke
Positioning A	0.025 mm [0.00098"]	0.0050 mm [0.00019"]
Repeatability R	0.015 mm [0.00059"]	0.0028 mm [0.00011"]

HS-450 / 540 series



Circularity: 4.8 µm

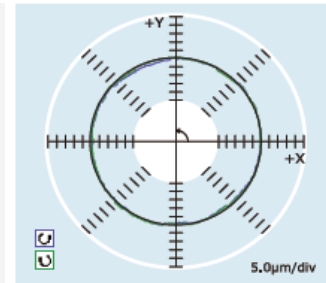
Feed Rate	1,000 mm/min [39.4 ipm]
Radius	150 mm [5.9"]



Roundness: 3.3 µm

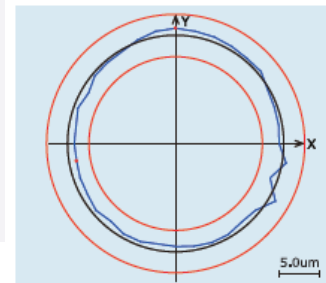
Material	AL 6061 (Ø108 mm) [Ø4.25"]
Tool	Ø20 mm (3T) [Ø0.79"] (3T)
Spindle Speed	4,777 rpm
Feed Rate	1,453 mm/min [57.2 ipm]

HS-550 series



Circularity: 4.8 µm

Feed Rate	1,000 mm/min [39.4 ipm]
Radius	150 mm [5.9"]



Roundness: 3.8 µm

Material	AL 6061 (Ø150 mm) [Ø5.9"]
Tool	Ø20 mm (3T) [Ø0.79"] (3T)
Spindle Speed	4,777 rpm
Feed Rate	1,453 mm/min [57.2 ipm]

Superior Products

High Torque High Horsepower Oil Mist Lubricated Spindle

HS-450/540 Series

249Nm / 37kw (15,000rpm)
287Nm / 48kw (12,000rpm)

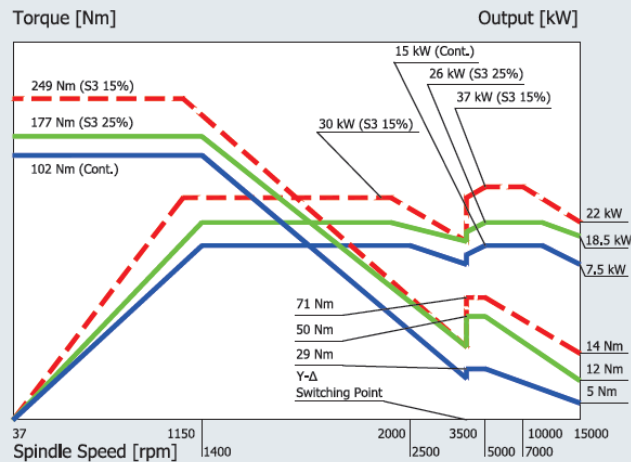
HS-550 Series

568Nm / 30kw (10,000rpm)

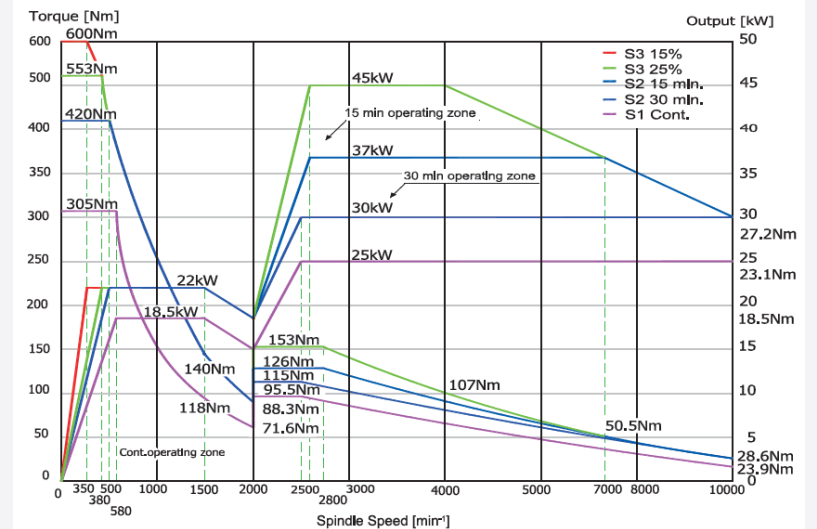
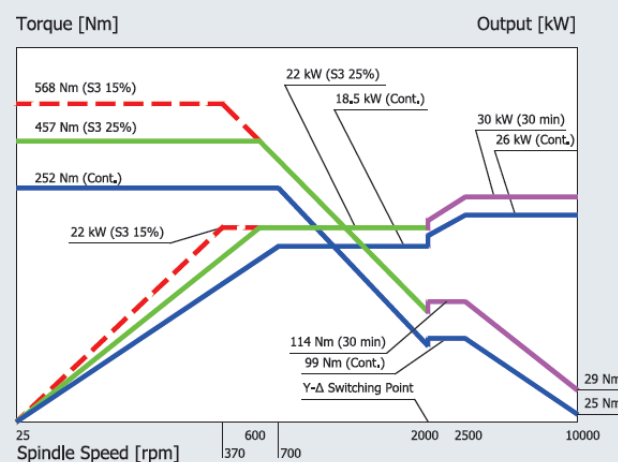
HS-630 Series Built-in Spindle

600Nm / 45kw (10,000rpm)
1,200Nm / 55kw (8,000rpm)

■ BBT 40 / 15,000 rpm Direct Drive Spindles [ST]



■ BBT 50 / 10,000 rpm Direct Drive Spindles [ST]



02

Superior Products

Full Series Field Expandable 6APC, 8APC Automatic Pallet Changer

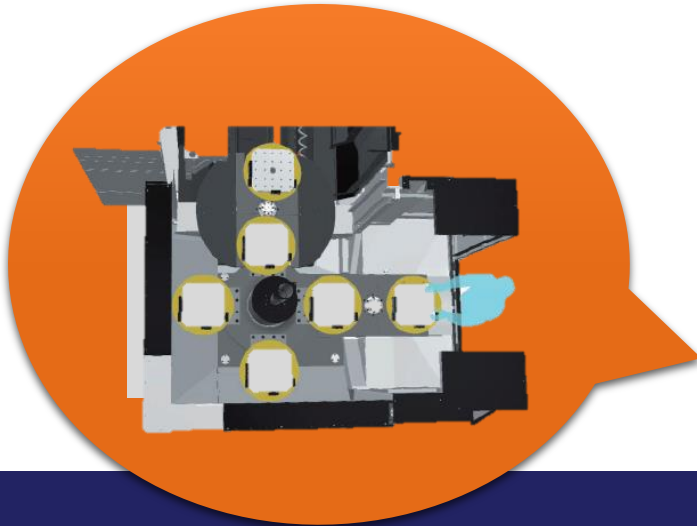
6APC
Unit



2APC
Standard



Expanded
6APC Machine



Superior Products

10.1" Color LCD with 6, 8APC and ATC iHMI Operation



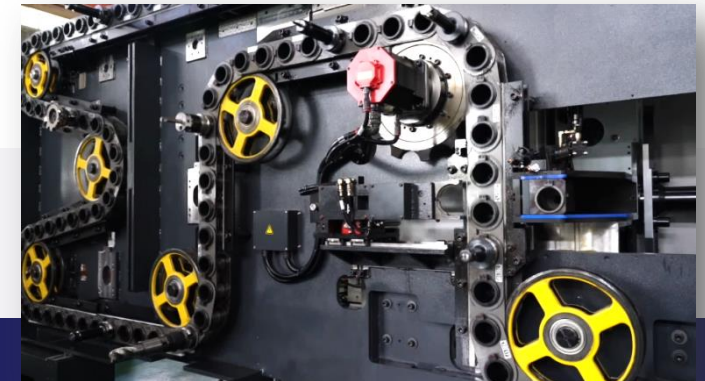
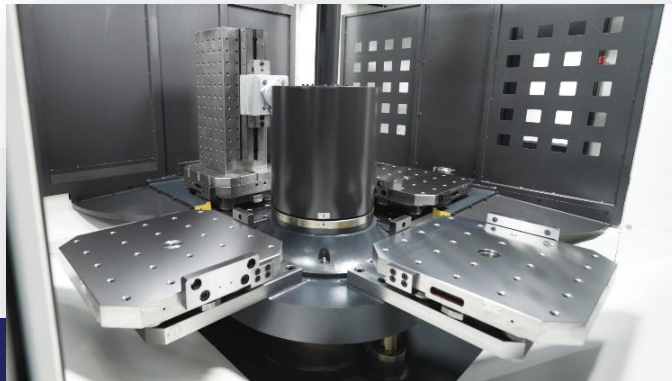
6APC iHMI Operation



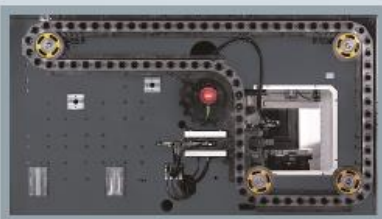
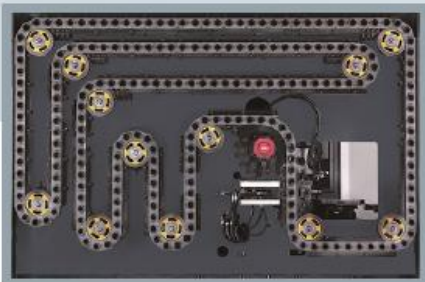
8APC iHMI Operation



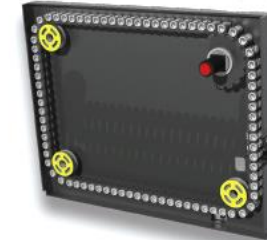
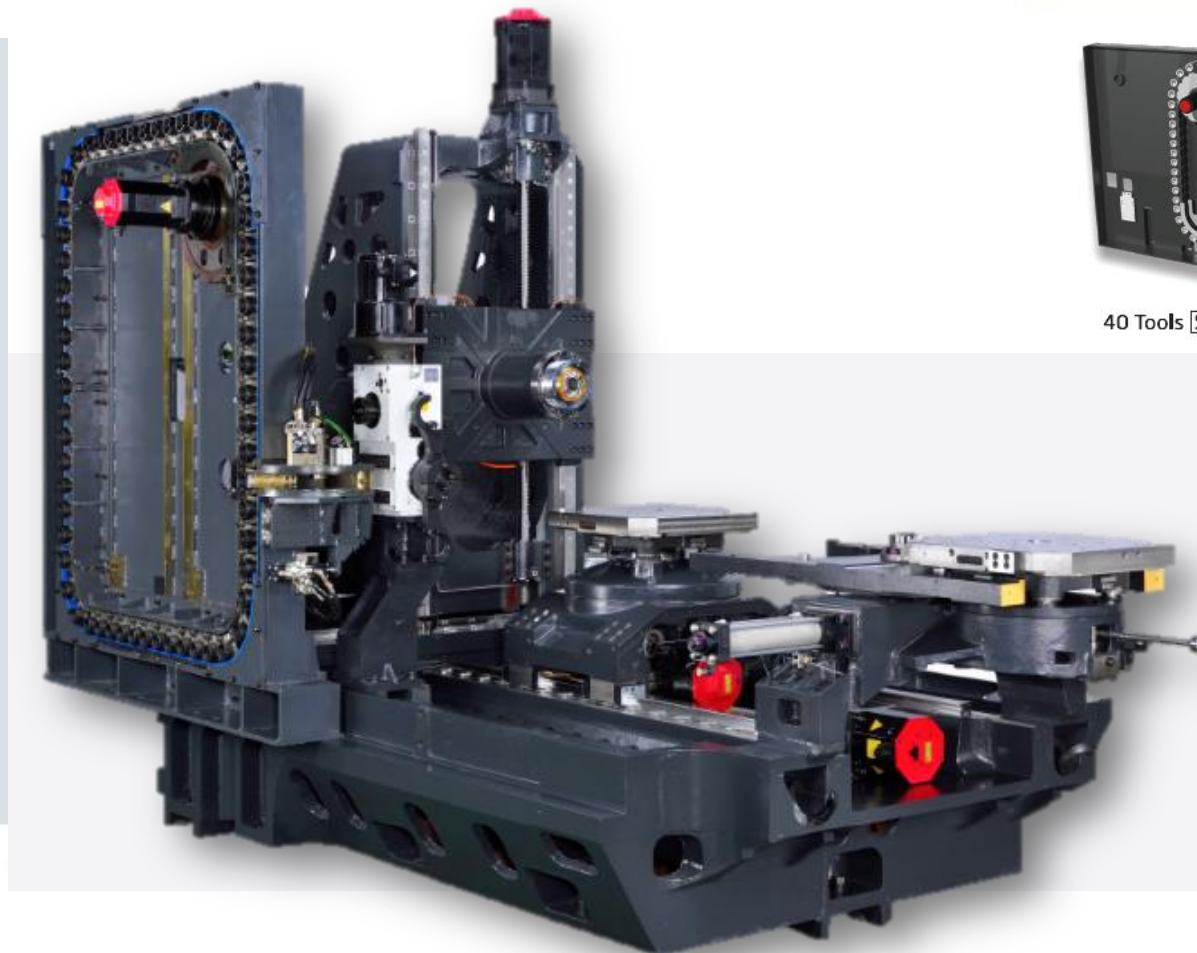
ATC iHMI Operation



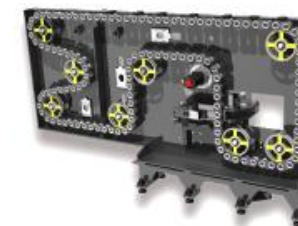
HS-450i / HS-540i GTS

80 Tools **ST**120 Tools **OP**220 Tools **OP**

HS-450k / HS-540k

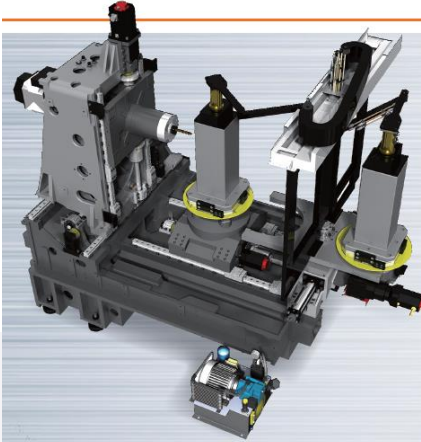
40 Tools **ST**60 Tools **OP**80 Tools **OP**

HS-550 series

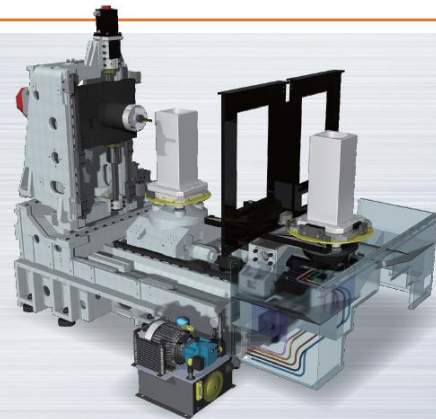
60 Tools **ST**80 Tools **OP**100 Tools **OP**120 Tools **OP**

Superior Products

Full Series Automation Options



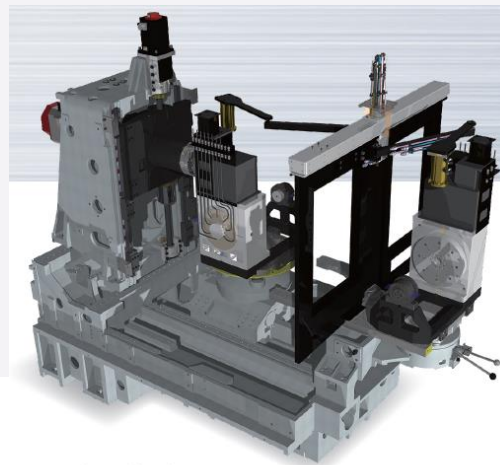
Hydraulic Overhead Arms for Fixtures



Hydraulic Thru Pallets for Fixtures



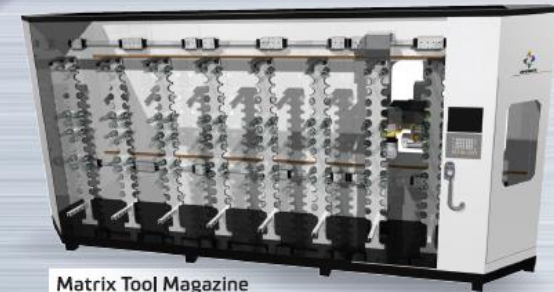
Pneumatic Workpiece
Clamping Detection



4+1 Axis Machines



Pallets Pool



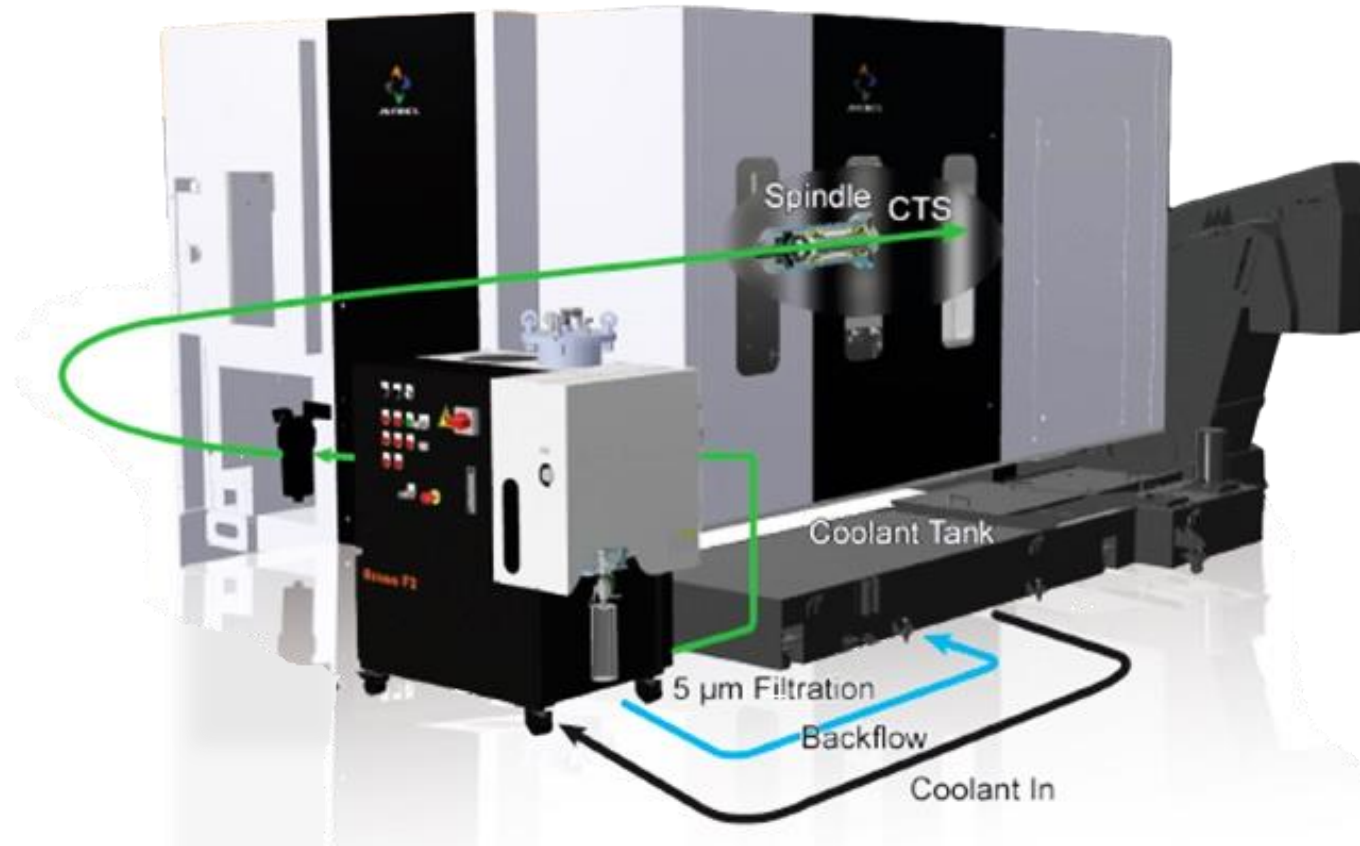
Matrix Tool Magazine

Superior Products

High Performance Chips Evacuation & High Pressure Coolant System

AZUUS F1 Vortex Chips Filtration Systems

AZUUS F2 Variable Volume Hi-Pressure Coolant with Chips Filtration Systems (Optional Coolant Chiller Available)



02

Superior Products

Full Series 15" Color LCD + iHMI Intelligent Interface



02

Superior Products

Flagship
HS-540i GTS



15,000 rpm
249Nm / 37kw
High Speed
High Torque
Oil Mist Spindle



Core-Cooled Ballscrews
800mm XYZ
Extra Large Axial Travel
800mm Workpiece
Envelope



3 Axis 1G
Accelerate
Rapid Feed
74 m/min



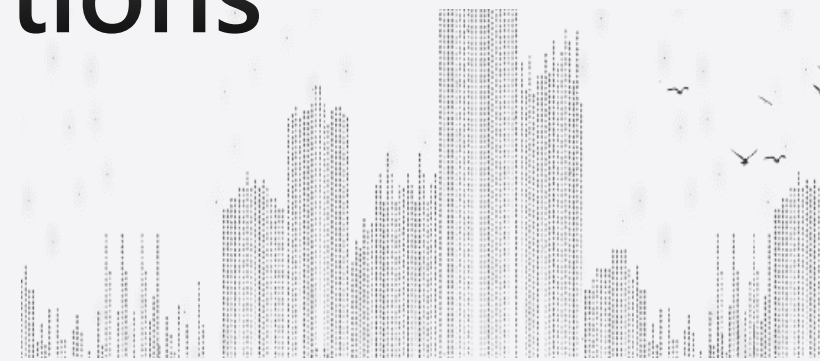
Table Rotation
66.6 rpm



1 sec Tool Change
5 sec Pallet Change

03

Product Applications



Aerospace



Energy



Defense



Automotive



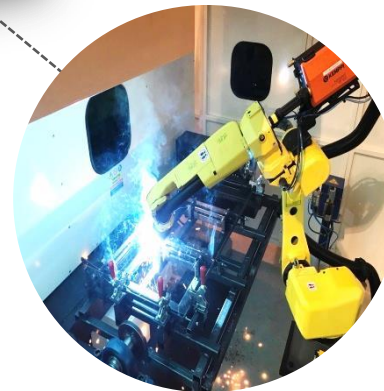
Agriculture



Medical

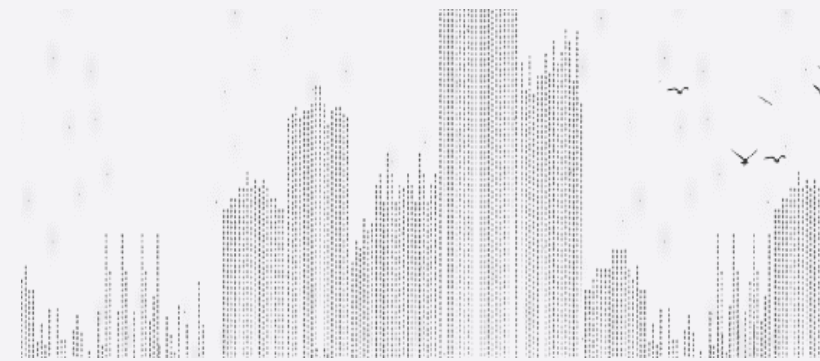


Automation



04

Global Sales





Since sales started in 2010, AVEREX Automation has sold over 500 horizontal CNC machines globally.

Such wide base of satisfied customers is a true testament to exceptional AVEREX qualities.

04

Global Sales

Complete Global Sales & Service

America

Europe

Asia

Taiwan



05

Contact Us

Please visit AVEREX website for further information
www.averexcnc.com



092021 EN



+886-4-2355-1899



sales@averexcnc.com



No.63 Industrial Park 35th Rd.
Situn Dist., Taichung 40768 Taiwan

Thank You

Comments and questions are welcomed

