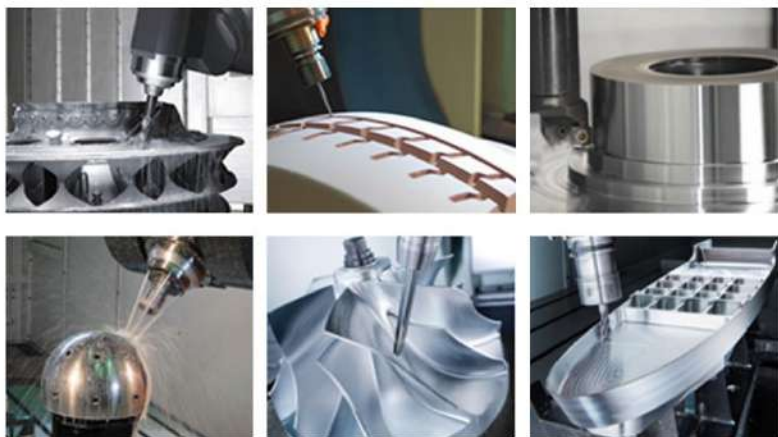




Solution Satisfaction Smile

A professional double column machining center manufacturer,

With global brand "VISION WIDE", provides wide ranges of CNC milling center according to Component Machining, Wind Power, Solar Energy, Tunnel, Plastics, Automotive, Train, Vessel, and Aerospace.



喬崑進科技股份有限公司
VISION WIDE TECH CO., LTD.

41154 台中市太平區工業十七路43號
NO.43,17th Industrial Rd.,Taiping,Taichung41154,Taiwan
TEL: 886-4-2271 2000
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E-mail: info@visionwide.com.tw



www.visionwide-tech.com

201705-ENG

ASM SERIES

ASM ASM FD



VISION WIDE TECH CO., LTD.

WIDEN YOUR CUTTING VISION

High Speed , High Precision , High Performance

Accuracy :

Positioning : P0.012 mm
Repeatability : Ps 0.010 mm
Spindle thermal compensation 0.02 mm

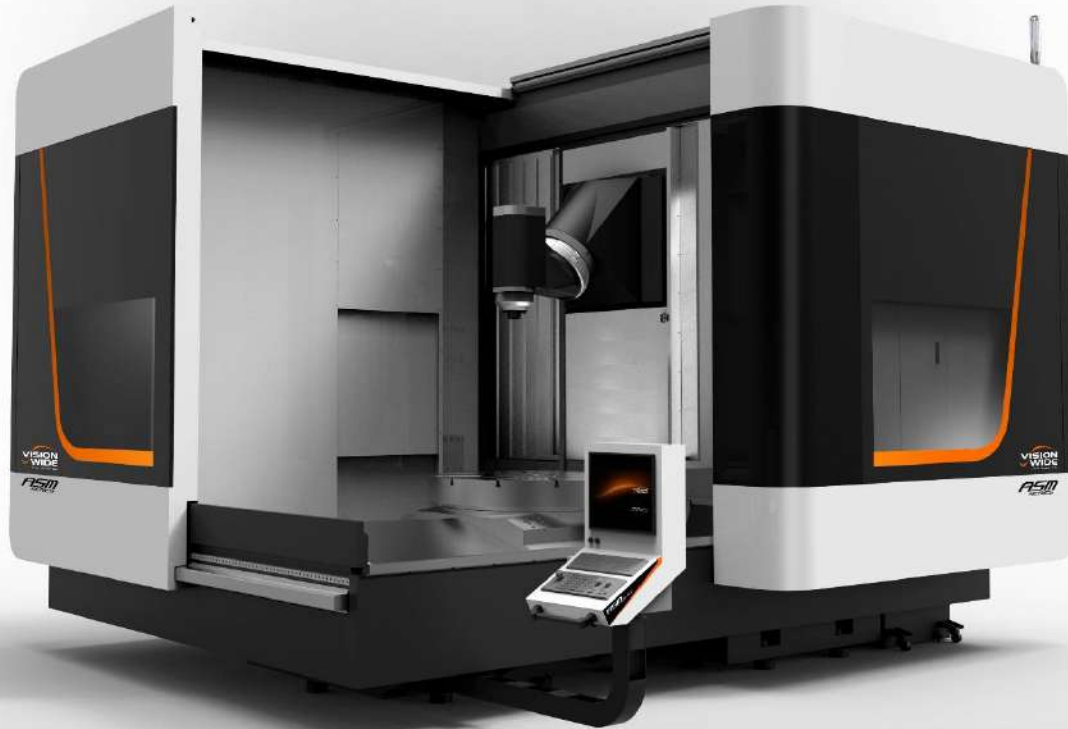
Speedy :

0.3 G Acceleration
40 m/min Rapid traverse
24 m/min Cutting feed rate

Machining :

5-axis universal head
Turning and milling
57/75 kW spindle power

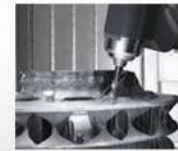
ASM SERIES



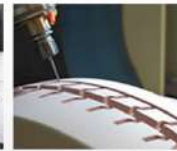
ASM, 5-axis universal machining center, is designed for delicate cylindrical components machining featuring high acceleration, rapid feed-rate and synchronized axes machining.

Aesthetic , Safe and Operational Design

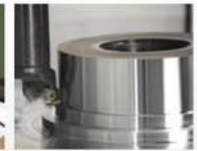
- ASM series is inherited the excellent design idea from VW product culture. Now ASM series promotes new CIS of VW with an compact and neat style.
- Large- scale door for easily loading and unloading work piece
- Vision Wide complies with CE standard, offering a safe and comfortable working environment.
- Multiple machining application on aerospace components, tire molds, turbine blades, multiaxial hole diameter, aluminum parts and turning.
- Multi-application on aircraft parts, molds, massive removal of aluminum and drilling



Aircraft engine machining



Tire mold machining



Turning



Multiaxial hole diameter machining

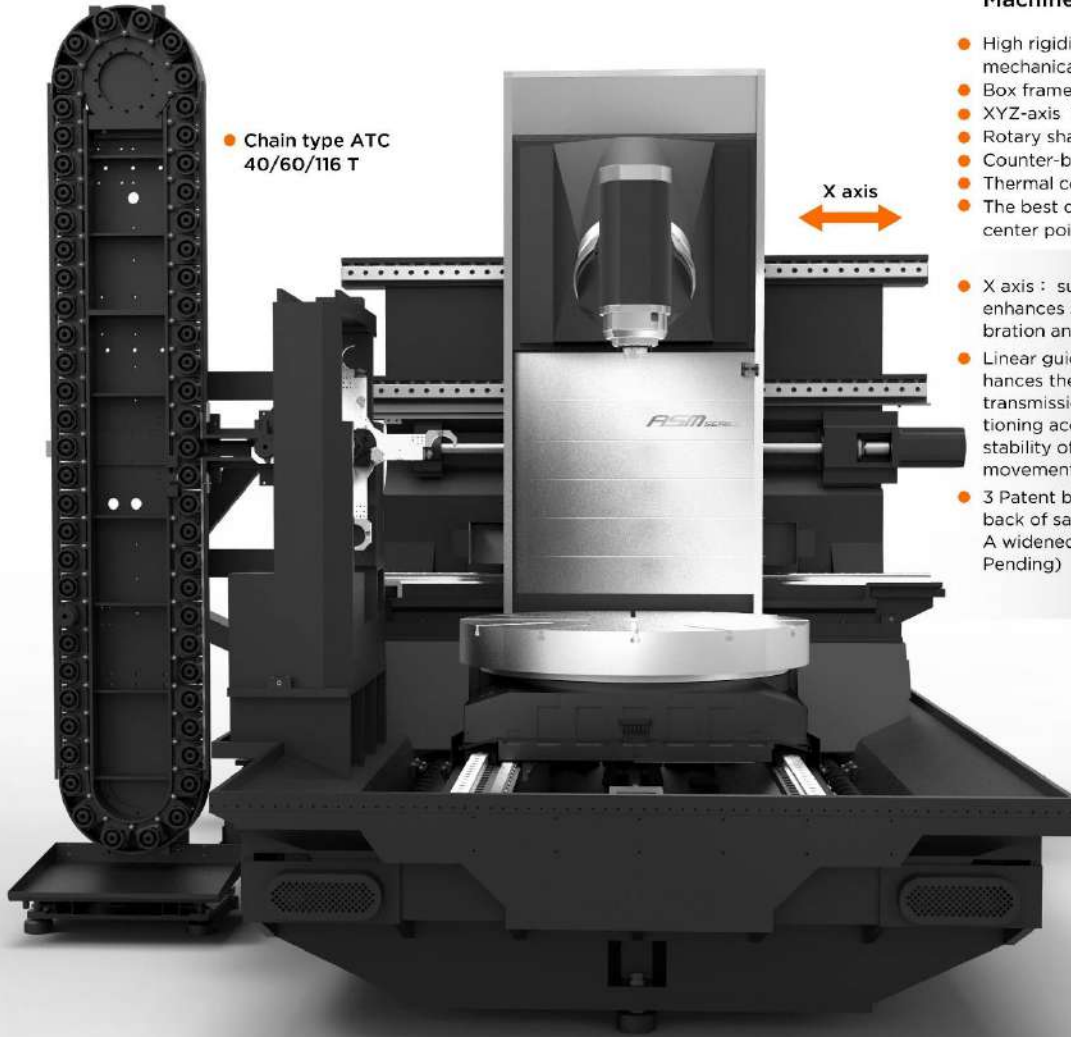


Turbine blades machining



Aluminum machining

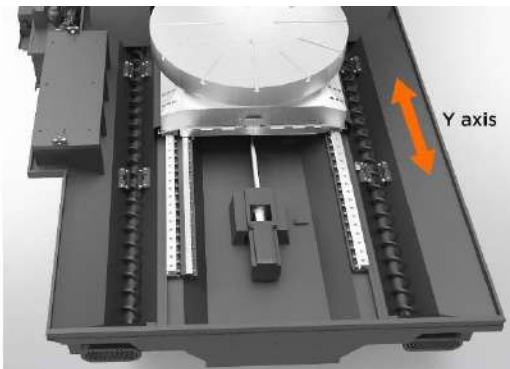
- Chain type ATC 40/60/116 T



Machine Features

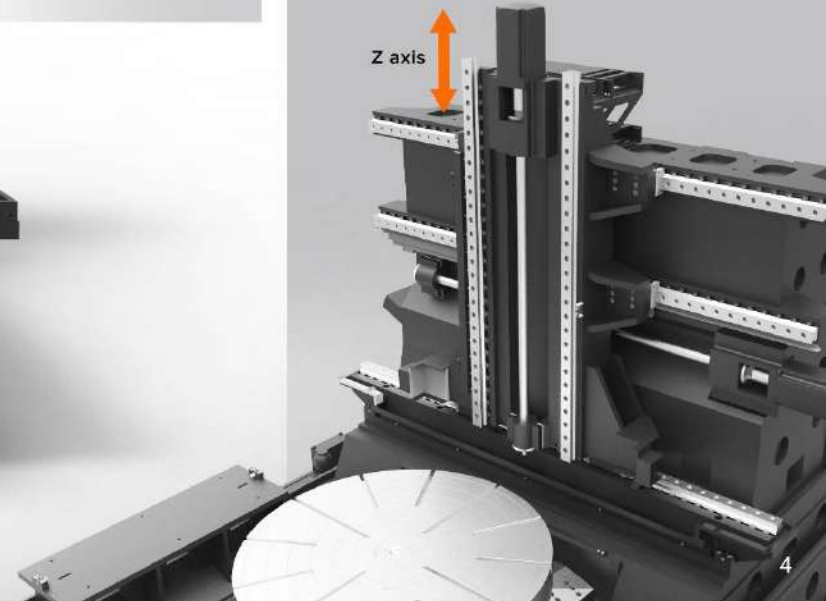
- High rigidity and light weight mechanical structure
 - Box frame structure on column
 - XYZ-axis 10kW direct-driven
 - Rotary shafts built-in D.D motor
 - Counter-balance on Z axis
 - Thermal compensation system
 - The best distance between tool center point and B-axis transmission
- X axis : super wide and thick column enhances structural stability, anti-vibration and provide high rigidity base.
 - Linear guideway with wide pitch enhances the straightness over full travel, transmission of ball screw and positioning accuracy, moreover, maintain stability of head stock on high speed movement.
 - 3 Patent beam guideways, two at the back of saddle and one at the bottom. A widened saddle bottom(Patent Pending) advances torsional rigidity.

- 3 axes structure equip oil skimmer



- Y axis's rigidity increases 30% by roller type guideway and enhances table load and horizontal accuracy of workpiece.
- The rigidity of high-load linear guideways higher than the industry average 40% to provide better cutting load and lifespan.

- Z axis with counter-balance arrangement increases responding speed .
- Symmetric design of Z axis head stock and saddle arrangement can avoid thermal deformation on X and Y.



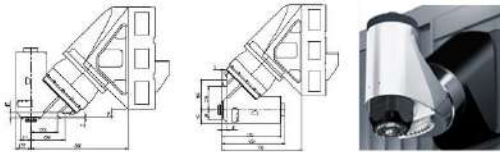
Spindle mechanism

High speed milling spindle and composite turning and milling spindle equips high power and high torque to conduct massive removal of aluminum alloy and hard metal.

Stable 5-axis machining

Vertical machining

Horizontal machining



Model	Unit	M21-45°	G30-45°
Tilted range	-	-30~+180	-30~+180
Max speed	rpm	60	30
Min. Division Travel	-	+/-0.001	+/-0.001
Rated Torque	Nm	508	1611
Max. torque	Nm	1740	3136
Brake torque	Nm	4000	5500

Design Features

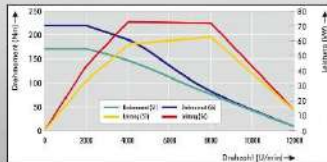
- A. Built-in backlash-free D.D. motor
- B. 45° B axis rotary design: The shortest distance from TCP to structural fulcrum. The minimum interference between spindle and workpiece while machining inner holes.
- C. Hi-resolution measure feedback system ensures accuracy performance
- D. ±2° repeatability accuracy, ±5° positioning accuracy
- E. Coil thermal protection

Powerful machining

Mahining material
Titanium alloy · aluminum alloy and aluminum chips massive removed

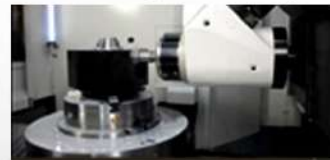


Spindle model	CS-34-180-S	
Power	57/75 kW	Torque 170/220 Nm
Speed	10,000 rpm	Tool HSK-A100

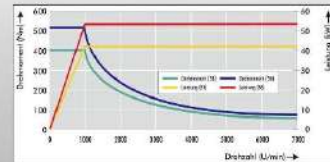


Heavy duty machining

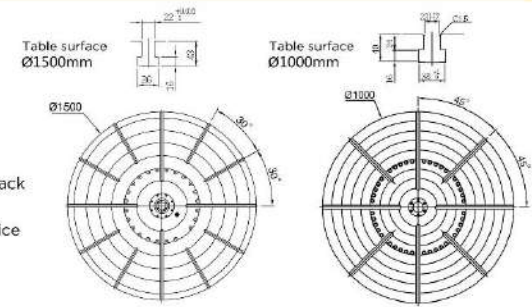
Mahining material
Aluminum alloy · Cast iron · Stainless steel · Ni-Cr alloy · Titanium alloy



Spindle model	CS-42-238-S	
Power	42/55 kW	Torque 400/525 Nm
Speed	7,000 rpm	Tool HSK-A100



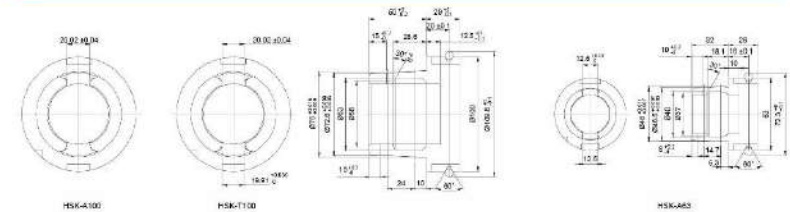
Size of Rotary Work



Design Features

- Built-in motor
- Backlash-free transmission
- Hi-resolution measure feedback system
- Table position clamping device
- Over-heat protection

Tool shank and Pull stud

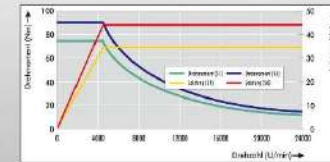


High speed machining

Mahining material
Titanium alloy · aluminum alloy and aluminum chips massive removed



Spindle model	CS-34-180	
Power	34/43 kW	Torque 72/91 Nm
Speed	20,000 rpm	Tool HSK-A63

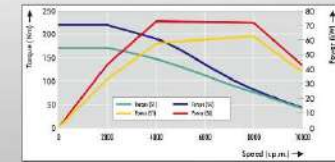


Turning machining

Mahining material
Titanium alloy · aluminum alloy and aluminum chips massive removed



Spindle model	CS1-34-180-S	
Power	57/75 kW	Torque 170/220 Nm
Speed	10,000 rpm	Tool HSK-T100



Safe Protection Design

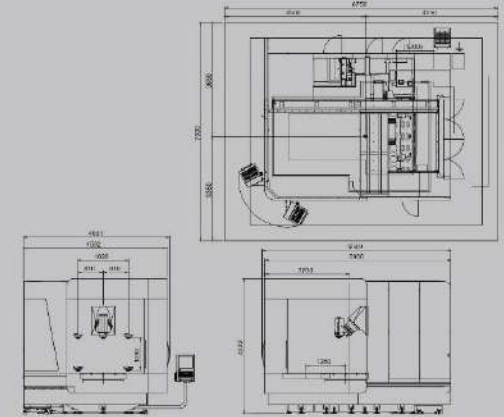
- Auto door lock on while function to prevent opening each door.
- Sheet metal at the tool magazine to protect operators from chips.
- Switchable of ATC from auto mode to manual.
- Enclosed sheet metals with roof protect operators from working area and keep fluid and chips in the machine.



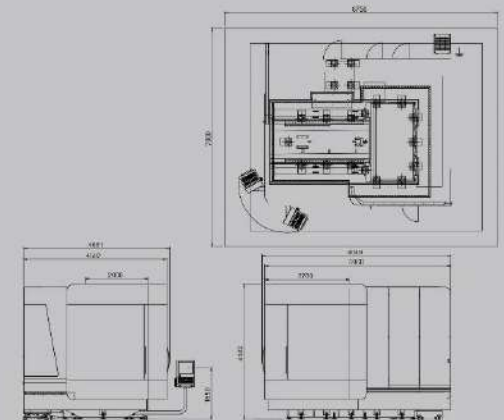
- Split doors on operation side for easily loading workpiece from 3 directions via cranes.
- Provide 500 LUX lightening for safe operation.



Dimension of machine



ASM-1000 / ASM-1000 FD type



ASM-1612 / ASM-1612G / ASM-1612 FD type

ASM Series

No.	Model	Unit	ASM-1000	ASM-1612	ASM-1612G
1	Travel				
1-1	X/Y/Z axis	mm	1,000 x 1,050 x 800	1,620 x 1,260 x 1,050	1,620 x 1,260 x 1,050
1-2	Distance from spindle center to table (vertical)	mm	100-900	100-1150	100-1150
1-3	Distance from spindle center to table (Horizontal)	mm	50-1100	50-1100	50-1100
1-4	Rapid traverse	m/min	24	24	24
1-5	Rapid traverse	m/min	40	40	40
2	Rotary table (milling only)				
2-1	Table dimension	mm	φ1,000	φ1,500	φ1,500
2-2	Max. table load	kg	2,000	3,000	3,000
2-3	Max. table speed	rpm	80	80	80
2-4	Min. division accuracy	"	0.001	0.001	0.001
3	Rotating head				
3-1	Rotating angle	"	-30--+180	-30--+180	-30--+180
3-2	Rotating speed	rpm	60	60	60
3-3	Min. division accuracy	"	+/-0.001	+/-0.001	+/-0.001
3-4	Rated torque	Nm	908	908	1,611
3-5	Max. torque	Nm	1,740	1,740	3,136
3-6	Braking torque	Nm	4,000	4,000	5,500
4	Spindle (milling only)				
4-1	Spindle speed	Rpm	10,000	10,000	7,000
4-2	Spindle motor power(S1/S6)	kW	57/75	57/75	42/55
4-3	Spindle torque(S1/S6)	Nm	170/220	170/220	400/525
4-4	Spindle taper		HSK-A100	HSK-A100	HSK-A100
5	ATC				
5-1	ATC capacity	pcs	40/60/116	40/60/116	40/60/116
5-2	Max. tool length	mm	φ115 x 500	φ115 x 500	φ115 x 500
5-3	Max. tool weight	kg	20	20	20
6	Other				
6-1	Power requirement	KVA	130	130	130
6-2	Pneumatic requirement	kg/cm ²	6	6	6
6-3	Machine net weight	kg	20,000	32,000	33,000
6-4	Dimension (L x W x H)	m	8.1 x 7.1 x 4.1	8.75 x 7 x 4.4	8.75 x 7 x 4.4

ASM FD Series

No.	Model	Unit	ASM-1000 FD	ASM-1612 FD
1	Travel			
1-1	X/Y/Z axis	mm	1,000 x 1,050 x 800	1,620 x 1,260 x 1,050
1-2	Distance from spindle center to table (vertical)	mm	22-822	22-1072
1-3	Distance from spindle center to table (Horizontal)	mm	50-850	50-850
1-4	Rapid traverse	m/min	24	24
1-5	Rapid traverse	m/min	40	40
2	Rotary table (both milling and turning)			
2-1	Table dimension	mm	φ1,000	φ1,500
2-2	Max. table load	kg	2,000	3,000
2-3	Max. table speed	rpm	400	400
2-4	Min. division accuracy	"	0.001	0.001
3	Rotating head			
3-1	Rotating angle	"	-30--+180	-30--+180
3-2	Rotating speed	rpm	60	60
3-3	Min. division accuracy	"	+/-0.001	+/-0.001
3-4	Rated torque	Nm	908	908
3-5	Max. torque	Nm	1,740	1,740
3-6	Braking torque	Nm	4,000	4,000
4	Spindle (both milling and turning)			
4-1	Spindle speed	Rpm	10,000	10,000
4-2	Spindle motor power(S1/S6)	kW	57/75	57/75
4-3	Spindle torque(S1/S6)	Nm	170/220	170/220
4-4	Spindle taper		HSK-T100	HSK-T100
5	ATC			
5-1	ATC capacity	pcs	40/60/116	40/60/116
5-2	Max. tool length	mm	φ115 x 500	φ115 x 500
5-3	Max. tool weight	kg	20	20
6	Other			
6-1	Power requirement	KVA	130	130
6-2	Pneumatic requirement	kg/cm ²	6	6
6-3	Machine net weight	kg	20,000	32,000
6-4	Dimension (L x W x H)	m	8.1 x 7.1 x 4.1	8.75 x 7 x 4.4

Standard accessory

1	Siemens 840D SL controller	13	Caterpillar type chip conveyor
2	10,000 rpm HSK-A100 Build-in spindle	14	Air conditioner for electrical cabinet
3	Spindle oil cooler	15	Working lamp
4	Centralized auto lubrication system	16	Operation cycle finish and alarm light
5	Independent lubrication oil collector	17	Movable manual pulse generator
6	Air blast though spindle	18	Footswitch for tool clamping
7	Wash gun and pneumatic interface	19	RJ-45 interface
8	Cutting coolant system	20	XYZ-axes absolute travel hardware limit protection
9	40 tools magazine arm type ATC	21	Auto power off
10	enclosed splash guard (with roof)	22	Foundation pads and bolts kits
11	Swiveling arm type operation panel	23	Adjustment tool and tool kits
12	Screw type chip conveyor on table sides	24	Technical manuals

Optional accessory

1	HEIDENHAIN iTNC640 controller	11	Dual belt type chip conveyor
2	20,000rpm HSK-A63 Build-in spindle	12	Chip cart
3	10,000rpm HSK-T100 Build-in spindle	13	XYZ -axes linear scale
4	7,000 rpm HSK-A100 Build-in spindle	14	Auto tool length measurement
5	60 / 116 tool magazine and arm type ATC	15	Auto work piece measurement
6	Coolant through spindle 20 / 60 bars	16	RS232 interface
7	The interface of coolant through spindle	17	Transformer
8	Oil skimmer	18	Transformer with voltage stabilizer
9	Oil mist cooling device (MQL)	19	Chip removal by flush on table
10	Helically bladed screw conveyor on table sides		