



GG SERIES

GANTRY TYPE 5-AXIS VERTICAL MACHINING CENTER

WE ARE AXILE

AXILE designs and builds agile smart 5-axis VMCs with leading automation solutions for manufacturers of complex parts and components.

"We believe manufacturers shouldn't have to choose between high-speed and high-performance 5-axis machines."

By combining sheer agility, digitalized intelligent automation, and a new standard of 5-axis machining, we've created an all-new approach:

Agile Smart Machining.

In short, our dedicated team of industry experts brings together ultra-high removal rates, pinpoint precision, and 24/7 automation and reliability within each and every AXILE 5-axis machine.

Our breakthrough design concepts and advanced proprietary technologies serve highly sophisticated manufacturers of complex parts and components for applications in aerospace, die and mold, medical, and general job shop, among others.

The AXILE service and support network spans nearly 50 countries, with more than 70 distributors across Asia, Europe, and the Americas, and a service center in Croatia.



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G6 GANTRY TYPE VMC

With a rotary table diameter of 600 mm, the G6 is a compact vertical machining center designed for agile, smart machining of smaller workpieces requiring complex geometries and intricate features. This highly versatile VMC delivers full 5-axis CNC machining, with the built-in spindle moving along the X,Y,Z-axis, and the table moving in rotary C-axis and swiveling A-axis.

The G6's perfect balance of speed and precision makes it the perfect option for job shops and production lines seeking an upgrade in machining capabilities, delivering high removal rates, excellent surface finishes, and maximum production efficiency.

In addition to the high-performance G6 model, AXILE also offers the G6 MT, which combines both milling and turning in one machine, greatly increasing operational flexibility. By reducing set-up times and potential clamping errors, the G6 MT can efficiently machine a wider variety of parts, including cylindrical components.



DESIGN CONCEPT

THE STRUCTURE

1

Spindle moved by 3 linear axes

No rotary axis between the tool and the machine body, for better machining rigidity.

2

Perfect U-shape closed gantry design

Same stability in all travels of X and Y axes

Excellent accessibility to working area

3

Table moved by swivelling rotary axes

Best accuracy with fixed relative position between 2 rotary axes 4

Massive gantry sliding on 2 symmetric synchronized axes

Best servo response to

5

All body made of high-quality casting

Homogeneous therma

Optimal damping of machining vibrations

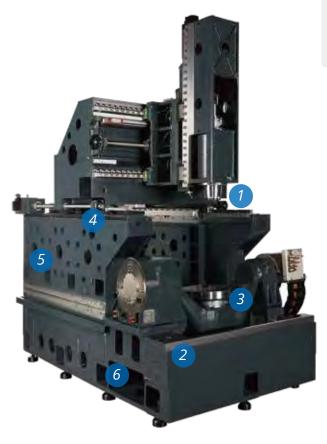
6

Integrated chip disposal channel directly under the table Quick evacuation of chips for high chip volume machining

7

Table moved by swivelling rotary axes

Best accuracy with fixed relative position between 2 rotary axes







AGILITY

LINEAR AXES

1

Direct driven servo motors (no belts/gears)

Best dynamic and minimal elasticity in the driving system

2

Double symmetric and synchronized axes (Y1, Y2)

Linear scales with 0,1 μm resolution in X, Y1, Y2 and Z axes

Double roller type linear guideways

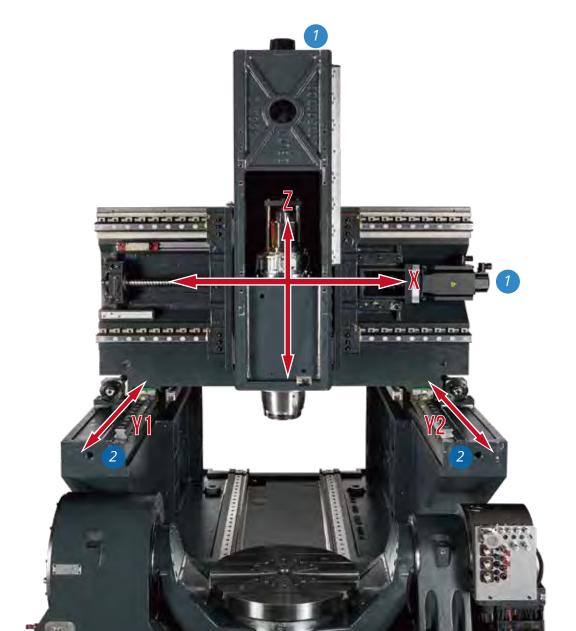
Double pre-loaded double-nut ballscrews

Best dynamic for the gantry no matter the position of the machining force

Ensures optimal synchronization in Y1 and Y2 axes, and best accuracy for ALL axes

Best high-feed movement and vibration damping

Minimized backlash allowing high-feed movements







SWIVELLING-ROTARY AXES

1

Integrated and ready-to-use hydraulic and pneumatic ports

Simplifying parts clamping process

2

Torque motor-driven rotary axis (C)

Highest dynamics

Dual torque motor-driven swivelling axis (A)

Highest accuracy

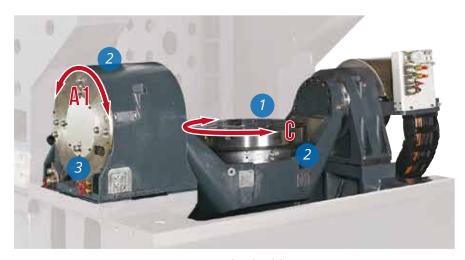
Brakes in rotary (C) and swivelling (A) axes

High-repeatibility in 5-axis operation when using the brakes

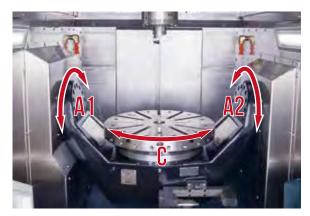
3

High-resolution, direct absolute rotary measuring system

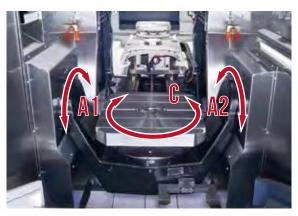
Zero-backlash and high accuracy



G6 Standard table







G6 MPC table

ACCURACY

THE CORNERSTONE OF 5-AXIS MACHINING

Linear axes accuracy

Ballscrew´s thermal growth

0.1µm resolution absolute linear scales in ALL axes



Rotary axes accuracy

Elasticity and backlash of driving system

Direct-driven torque motors with no backlash

Angular error is multiplied by the distance from rotary axis to machining point

+/- 5" accuracy absolute rotary scale feedback





Thermal control

Heat generated by spindle and torque motors

Spindle and torque motors are cooled with a water chiller ±0.2° close-circuit and a cooling unit



Linear-rotary axes relative positioning

The swivelling-rotary table might shift its relative position to the 3 linear axes by many reasons generating an increasing error in the part

CNC embedded compensating functions like Kinematics (Heidenhain), Kinematic chain (Siemens) and Filted working plane and chaing (Fanuc)

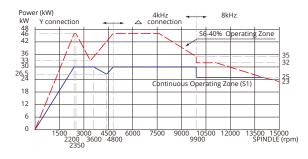


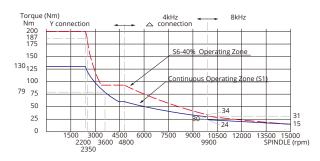
SPINDLE

HIGH-PERFORMANCE BUILT-IN SPINDLE SELECTION

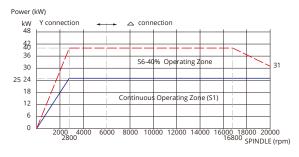


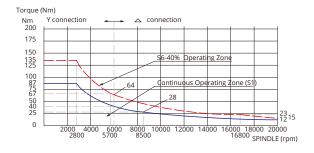
- > 15.000 rpm
- > 130/200 Nm S1/S6-40%
- > HSK A63
- > 30/46 kW S1/S6-40%
- 104
- > Double coil asynchronous motor





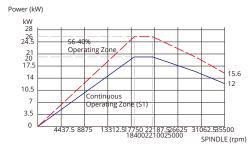
- > 20.000 rpm
- > 87/135 Nm S1/S6-40%
- > HSK A63
- > 25/40 kW S1/S6-40%
- > Double coil asynchronous motor

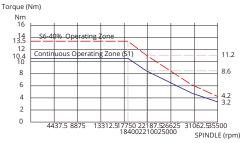




- > 36.000 rpm > HSK E50
- > 10.4/13.5 Nm S1/S6-40%
- > 2
 - > 20/26 kW S1/S6-40%
- > Single coil asynchronous motor







CHIP MANAGEMENT

FLUSHING CHIPS AWAY



High-quality stainless steel working area	Long-lasting clean operation
Sharp walls and no-corner design	Easier to flush away chips by shower
2 x led lights spindle nose	For optimal illumination of the tool cutting

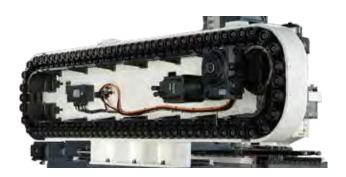
- 1 Coolant through spindle
- 2 4x coolant at spindle nose
- 3 2x led lights
- 4 Coolant flushing
- 5 Air flushing
- 6 Chip wash down
- 7 Chip conveyor



TOOL MANAGEMENT

TOOL MAGAZINE SELECTION FOR EVERY APPLICATION









1

Simple random type carrousel for 80 (std) or 120 tools.

Fastest tool change and optimized space saving

2

Matrix rack magazine is available with 3 different sizes of 164, 242 and 320 tools.

Perfect solution for multi-pallet automation with bigger number of different parts and need for sister tools to reach a practical unmanned operation.

Tools are accessible from the front-left side of the machine and stored in horizontal.

Tools can be easily changed during automatic operation in the same area for machining supervision, CNC panel and workpiece loading and unloading.

Smart tool: interface panel is used to select the tool. When finished, the system checks whether all tool holders are in the right position.

Avoid human failures when manually change tool to spindle, protecting spindle and reducing down-time.

ERGONOMICS

ACCESSIBILITY TO WORKING AREA

Large front door opening

Comfortable access to working area for workpiece preparation and supervision

Short distance from operator to table

Ergonomic loading and unloding of small parts

Automatic roof to open ceiling working area

Easy loading and unloading of heavy and bulky workpieces by over-head crane



AUTOMATIC ROOF

For overhead crane loading and unloading



Automatic sliding of roof

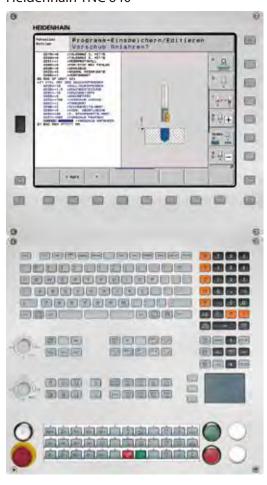
CONTROL UNIT

A CONTROLLER FOR EVERY USER

Heidenhain TNC 640

- > Kinematics
- > Dynamic Collision Monitoring
- > Tool Center Point Management
- > Tilted the Working Plane

Heidenhain TNC 640



SINUMERIK ONE

- > Kinematics chain
- > Collision Avoidance
- > 5-axis transformation with tool orientation
- > Swivel the Coordinate System

Fanuc 31i-B5 plus

- > 3D Interference Check
- > High Speed Smooth TCP
- > Tilted Working Plane indexing

Sinumerik ONE

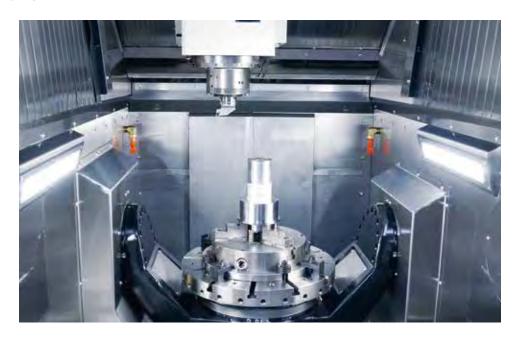


Fanuc 31i-B5 plus



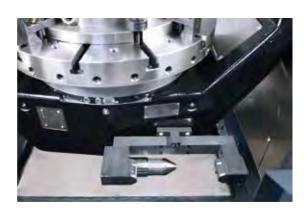
MILL-TURN

The mill-turn function is for those who are looking for maximum integration of metalcutting processes in a single step and to reduce the complex operations and minimize the clamping errors.



There is cooling system for the C-axis motor, inner and outer bearing of C-axis when in the turning function to ensure the accuracy and long-lasting life.

Table diameter: 500 mm, 19.7 in Max turning speed: 1500 rpm Max table load in turning: 350 kg, 771 lbs Max table load in milling: 500 kg, 1102 lbs



For accurate tool measurement in length,

For in-process tool measurement at working conditions (spindle running at thermal stable conditions)



Integrated balancing system that can be monitored from the additional screen located on top of the panel, with the help of a sensor located in the A-axis

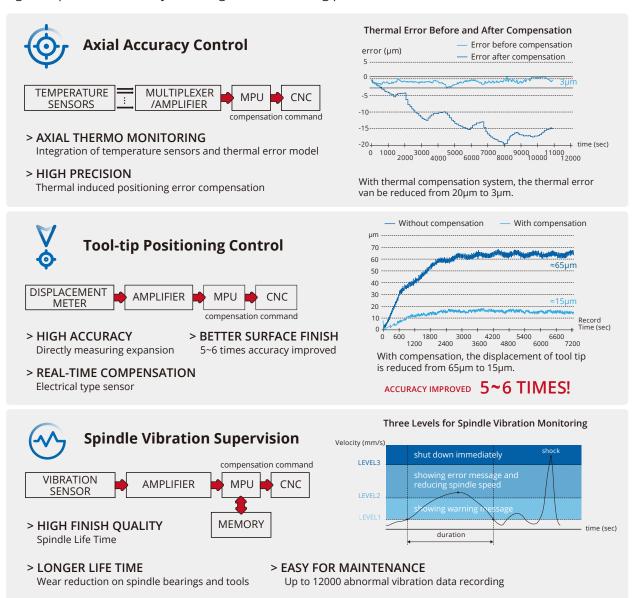
TECHNOLOGIES



SMART MACHINING TECHNOLOGY

As pioneers of advanced mechatronic systems with decades of R&D expertise, AXILE has taken 5-axis CNC machining to the next level. Our patented SMT™ (Smart Machining Technology) delivers groundbreaking compensation and calibration functionality for unrivaled cutting speeds and industry-leading accuracy, and more importantly, resolves the aforementioned issues created by thermal expansion.

With AXILE's SMT™ manufacturers can have it all. There's no longer the need to choose between speed and precision, meaning manufacturers can produce superior parts rapidly, while also securing total process reliability and long-term machining performance.

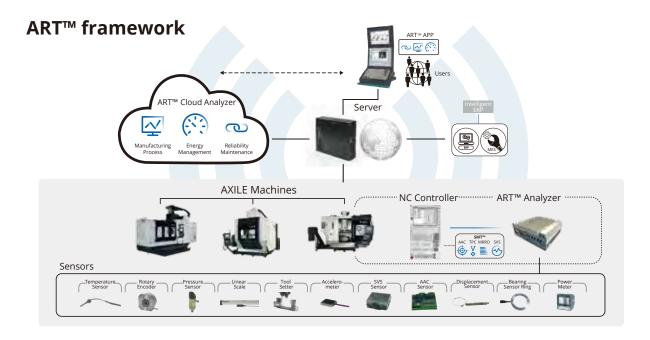




INTELLIGENT MONITORING SYSTEM

The future of manufacturing depends on optimized intelligent production. To gain an edge on the competition, embracing smart manufacturing is the best way to stay ahead of the curve. To deliver agile smart machining, and that all-important competitive edge, we have created ART™, an intelligent monitoring system that enables 24/7 operations and eliminates unexpected downtime. ART™ monitors all wearing components, energy consumption, and fluids such as lubricant and coolant, to supply real-time status updates on the machine and its components, and to pre-empt future issues.

Utilizing ART™ in daily operations immediately improves production efficiency by empowering machinists to make informed decisions. Moreover, ART™ gives manufacturers the reassurance required to embrace automation solutions, by delivering vital oversight through total operational transparency.



The Core Functions to Boost Productivity & Profitability



Manufacturing Process (MP)

Unexpected downtime is the enemy of profitability. ART™ delivers machine components diagnosis, machine lifetime estimation, and consumable supplies monitoring to prevent machine failure and eliminate unplanned downtime.



Reliability Maintenance (RM)

Knowledge is power. ART™ achieves superior data collection and analytics on machine status and utilization rates, to deliver real-time information for optimized production strategies.



Energy Management (EM)

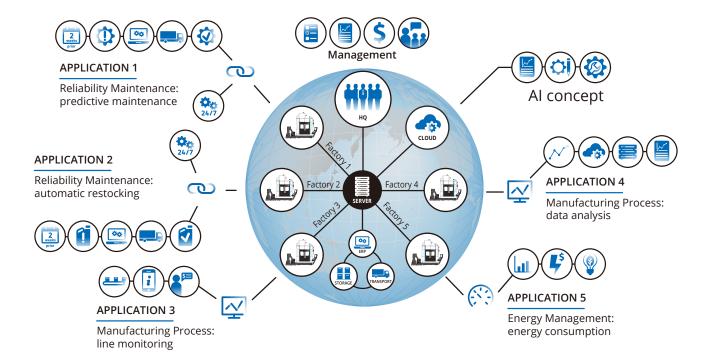
Every penny counts. ART™ enables manufacturers to monitor their power consumption, to identify ways to maximize energy efficiency and reduce expenditure.



Intelligent Management (IM)

ART™ provides analytic information for managers to understand the machine performance and take the immediate actions to optimize the machine capability.

Industry 4.0 Solutions to Intelligent Machine



How ART™ Brings Production Benefits

- > Clearly displays machine status, for quick decision-making
- > Maximizes machine accessibility and utilization, for optimized production
- > Provides real-time notification of abnormal conditions, for swift intervention
- > Gives machinists the information required to optimize removal rates and machine lifetime

How ART™ Brings Maintenance & Service Benefits

- > Delivers pre-emptive error messages prior to breakdown, to eliminate unexpected downtime
- > Decreases service expenses, by precisely identifying the issue
- > Enhances service efficiency, by recommending appropriate action
- > Reduces spare parts inventory, by highlighting exactly what is needed and when
- > Automatically orders new parts, by linking to online purchasing system
- > Allows machines and equipment to remain on stand-by, always ready to work

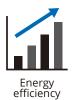












DIGITALIZED INTELLIGENT AUTOMATION

AXILE's digitalized intelligent automation consists of our range of innovative automatic pallet changing solutions and flexible manufacturing systems, supported by our proprietary SMT^{IM} and ART^{IM} technologies.

Digitalized intelligent automation solutions enable machinists to embrace smart manufacturing to increase operational efficiency and productivity, optimize energy and staffing costs, and achieve 24/7 unmanned production, thereby significantly boosting ROI.

MOTORIZED PALLET CHANGER (MPC)

MPC INCREASE AUTONOMY AND FLEXIBILITY

MPC2

Integrated 2-pallet changer with a minimum space increase. Workpiece loading and unloading are done while machining, reducing down time and enlarging working time per day. The machine is prepared to integrate multi-pallet systems in case longer autonomy is required.



Back loading

The back shutter opens to access the two pallet carriage. In seconds, a new pallet with raw material is precisely located in the rotary-swivelling table, and ready to start working again.

Non-productive time is reduced, productivity increased and return on investment optimized.



Loading/unloading station at the back

The operator access to the finished part from the back which is spacious and highly ergonomic.

Integrate flexible 2-axis robot that can handle different zero-point pallet sides and brands. The table chuck, the table gripper and pallets are freely selected by end-users to better meet their products requirements.



MPC6

The 6-pallet pool extends the autonomy of the G6 MPC. The system can be integrated at the machine commissioning or later, when the autonomy requirement grows. The loading and unloading is done through the MPC6 system side.





G6 MPC2 + FMS

For higher autonomy requirements, the machine can be integrated in a 12-pallet FMS System. The FMS controller gives full power to make the production as flexible as needed. The working area is still totally accessible for job preparation, standalone operation and supervision.



Expandable

The FMS System is expandable to 24 or 36 pallets, 1 to 3 machines and 2 loading stations.

ROBOTIC PALLET CHANGER (RPC)

AXILE's automated G6 Robotic Pallet Changer (RPC) solution features a 2-axis robot that keeps machines supplied with workpieces 24/7 from the back side of the machine. Part processing continues simultaneously within the machining center while operators deal with workpieces at the holding area at the back, significantly raising production efficiency to boost throughput.



Back loading

The back shutter opens to access the two-pallet carriage. In seconds, a new pallet with raw material is precisely located in the rotary-swiveling table, and ready to start working again.

Non-productive time is reduced, productivity



Loading / unloading station at the back

The operator access to the finished part from the back which is spacious and highly ergonomic.

Integrate flexible 2-axis robot that can handle different zero-point pallet sides and brands. The table chuck, the table gripper and pallets are freely selected by end-users to better meet their products requirements.



AUTOMATION SELECTION SUMMARY

G6	MPC2	MPC2+FMS	MPC6	RPC8	RPC10	RPC16	RPC20
Table type			Ò				
Loader type						Trill	
Magazine	S is	7		۹	(•	۹
Chuck type				0			
Chuck type	Tab	le integrated 4 hyd	draulic cones	Erowa MTS 400	Erowa UPC 320	Erowa PC 210	Erowa ITS 148
Gripper type	3				-		
Pallet size	500		398	320	ø210	ø148	
Pallet type	(wit	Casting pallet 500x h/without Hydraul	500 mm ic coupling	Erowa MTS400	Erowa UPC320	Erowa PC210	Erowa ITS148
Number of pallets	2	12 / 24 / 36	6	8	10	16	20
		ø500x420 (*ø50	00x480)	ø500x305	ø400x305	ø230x305	ø160x250
Max. workpiece size	*Max height can increase to 480 but APC time will also increase from 60 s to 90 s.		Ø398 42.7L	Ø400 Ø50 PE	230 12.6L		
Max. weighet	400 kg		220 kg	220 kg	98 kg	30 kg	

STANDARD & OPTIONAL EQUIPMENT

Optimized design and well organized of electrical connectors and cables.

Easier maintenance

High-speed and twisting stress cycles



All necessary consumables are located together in the side of the machine

Fasier maintenance routine for operato



Chain-type chip conveyor with chip bucket, oil skimmer and built-in 40 bar through spindle coolant pump are standard equipments

The coolant tank is integrated under the tool magazine for space saving layout.



Integrated and ready-to-use 3 hydraulic and 1 pneumatic port. Clamping and unclamping functions by softkeys in the control panel and/or by M-function.

Optional

- > Integrated and ready-to-use 8x hydraulic (80 bar) or pneumatic (6 bar) ports
- > 4x vacuum port

Simplifies 5X workpiece clamping



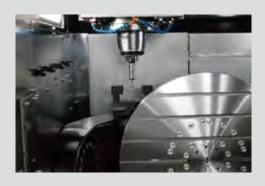
Automatic workpiece measurement (with probe, receiver and reference ball)

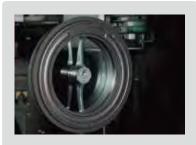
Automatic compensation of the linear-rotary axis relative positioning:
Kinematics (Heidenhain), Kinematic chain (Siemens) and Tilted working plane indexing (Fanuc)

For accurate workpiece positioning or in-process measuring of some machining features.



U-type embedded in the table (for highest accuracy). Laser tool measurement.





Spin window

For easier view of working area when huge amount of coolant and chips are produced



Separate type CTS unit including:

- > Cartridge filter
- > Paper filter
- > Through spindle 40 & 70 bar centrifugal and screw pumps
- > Oil skimmer
- > Oil cooler

Recommended for high aluminum or cast iron material

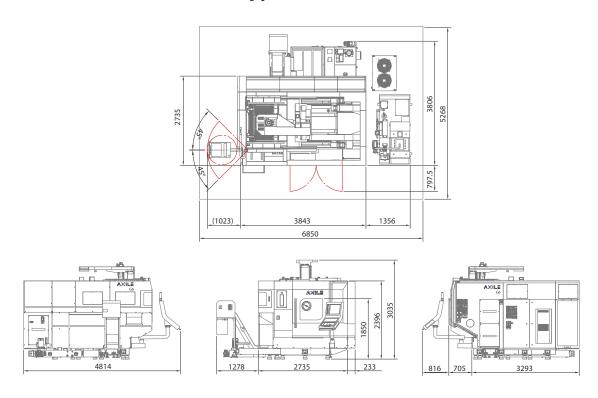


Drum type dual-belt chip conveyor

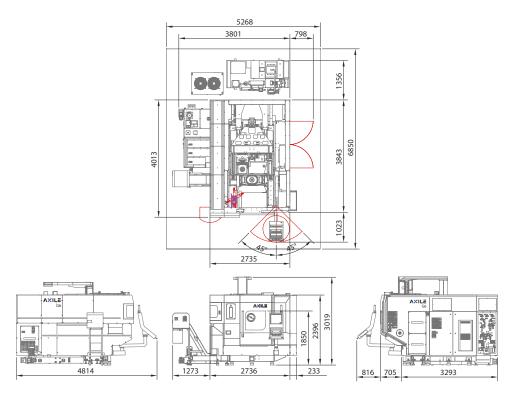
Chain type conveyor takes bigger and curly chip away. Scrapper type conveyor take smaller and lighter chips as well as dusty chips away.

LAYOUT AND WORKSPACE

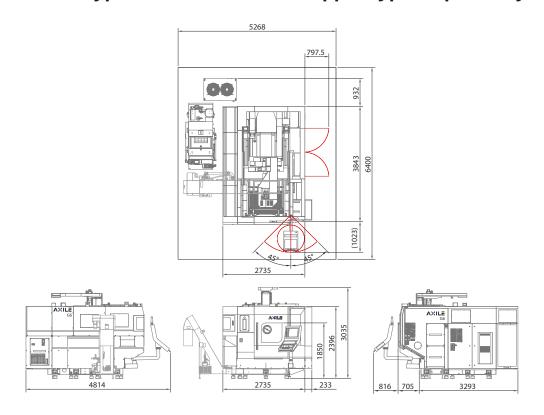
G6 Standard (with chain type 80 tools atc)



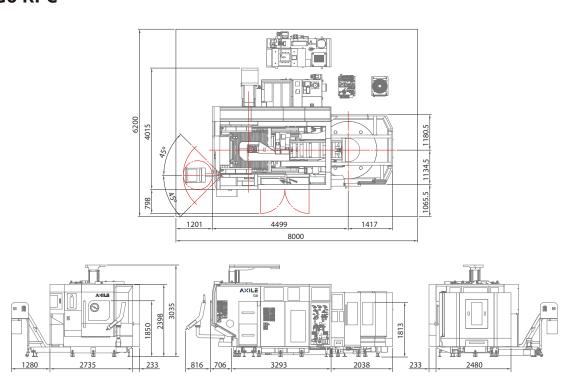
G6 Standard (with arm type 120 tools atc)



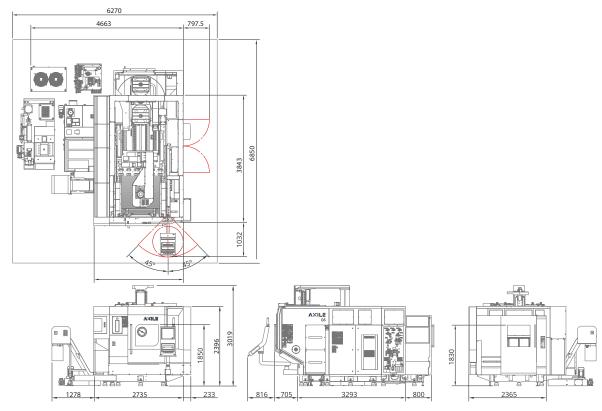
G6 Standard (with chain type 80 tools atc and scrapper type chip conveyor)



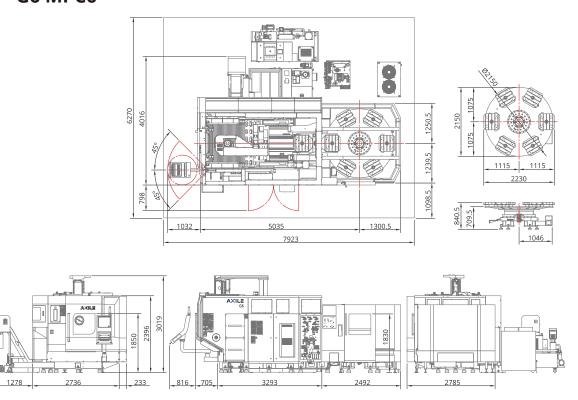
G6 RPC



G6 MPC2

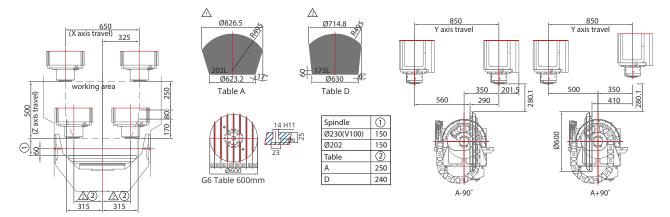


G6 MPC6

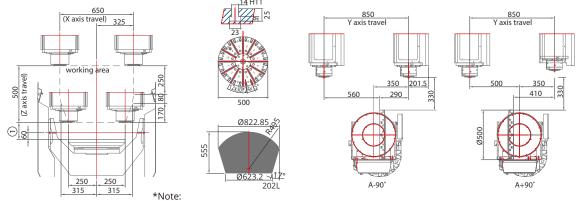


INTERFERENCE

G6 STD / G6 RPC

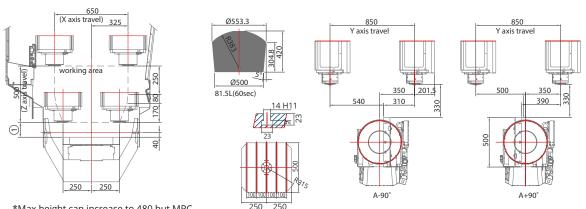


G6 MT



The workpiece size for turning is limited by the weight (350 kg), its maximum height and the cutting force applied. Please request for the limitation diagram or send the drawing of the part to confirm if it can be machined.

G6 MPC



^{*}Max height can increase to 480 but MPC time will also increase from 60s to 90s.

TECHNICAL DATA

COMMON DATA FOR G6

LINEAR AXES			
X travel (carriage left and right)	650 mm	25.6 in	
Y travel (gantry back and forth)	850 mm	33.5 in	
Z travel (headstock up and down)	500 mm	19.7 in	
Max feedrate X/Y/Z	36 m/min	1417 in/min	
Guideways type	Roller		
Guideways size X/Y/Z	45 mm	1.7 in	
Distance between X/Y guides	500/1110 mm	19.7/43.7 in	
Ballscrew diameter/pitch	40/12 mm	1.6/0.5 in	
X axis motor power/torque	5/17.7 kW/Nm	6.7/13 hp/ Ft/lbs	
Y axis motor power/torque (x2)	5.7/21.6 (x2) kW/Nm	7.6/15.9(x2) hp/ Ft/lbs	
Z axis motor power/torque	6/26.1 kW/Nm	8/19.3 hp/ Ft/lbs	
ROTARY AXES			
A range (swiveling)	±120	0 deg	
C (rotary)	360) deg	
SPINDLE (STD)			
Spindle speed	2000	0 rpm	
Spindle taper	HSK-A63 (milling)	HSK-T63 (turning)	
Transmission	_	ilt-in	
Motor type	Asynchronous		
Bearing typefront/rear	Angular ball		
Bearing cooling and lubrication	Oil-air		
Power \$1/\$6-40%	25/40 kW	33/53 hp	
Torque S1/S6-40%	87/135 Nm	64.2/99.6 Ft/lbs	
SPINDLE (OPT)	677.133.1111	0.12.33,0.1.0.1.23	
Spindle speed	1500	0 rpm	
Spindle taper	HSK-A63 (milling) HSK-T63 (turning)		
Transmission	Built-in		
Motor type	Asynchronous		
Bearing typefront/rear	Asylicitionous Angular ball		
Bearing cooling and lubrication	_		
Power S1/S6-40%	Oil-air 30/46 kW 40/61 hp		
	130/200 Nm	95.9/147.5 Ft/lbs	
Torque S1/S6-40% ACCURACY (VDI/DGQ 3441)	130/200 NIII	93.9/147.3 FUIDS	
	0.005 mm	0.0003 in	
Positionning	0.005 mm ±0.0025 mm	0.0002 in ±0.0001 in	
Repeatability	±0.0025 IIIII	±0.0001 III	
EXTERNAL COOLANT SUPPLY	(4v) 2 har	(Av) 42 F noi	
Exteral nozzels coolant supply (number) pressure	(4x) 3 bar	(4x) 43.5 psi	
Exteral nozzels air supply (number) pressure	(2x) 6 bar	(2x) 87 psi	
Tank capacity	1500 L	396.2 US gal	
SPINDLE THROUGH COOLANT SUPPLY (STD)	40 h	500 4 ·:	
High pressure pump	40 bar	580.1 psi	
Filter type	Catridge		
SPINDLE THROUGH COOLANT SUPPLY WITH SEPARATE TANK (OPT)	40/70	500 4 /4045 0	
High pressure pump	40/70 bar	580.1/1015.2 psi	
High pressure pump with stepless programable pressure	0-70 stepless	0-1015.2 psi stepless	
Filter type	Catridge and paper band		
Additional	Oil-cooler an	d oil skimmer	
CONTROL UNIT			
Heidenhain		640	
Siemens	840D SL/Sinumerik one		
Fanuc	31i-B5 Plus		

COMMON DATA FOR G6 (CONT.)

TOOL CHANGER			
Change type	Arm type		
Carousel drving system	Servomotor		
Magazine positions	80(std), 120(opt)		
Tool shank type	HSK-A63		
Maximum tool length	300 mm	11.8 in	
Max tool diameter (with adjacent pot empty)	Ø75/Ø125 mm	Ø3/Ø4.9 in	
Maximum tool weight	8 kg	17.6 lbs	
Max. loading weight	Arm type: 640/800 kg Arm type: 1410/1763		

COMMON DATA FOR G6 STANDARD/G6 RPC(CONT.)

WORKPIECE AND TABLE			
Table size	Ø600 mm Ø23.6 in		
Maxium table load	600 kg	1323 lbs	
T-slot (w/pitch/no)	14x80x7 mm	0.5x3.1x0.3 in	
Number and hydraulic ports		3	
Working pressure of hydraulic ports	80 bar	1160.3 psi	
Number and pneumatic ports		1	
Working pressure of pneumatic ports	6 bar	87 psi	
SPINDLE			
Spindle taper	HSK	C-A63	
Spindle nose to rotary table clamping surface	150	~650	
ROTARY AXES			
Maximum swiveling (A) speed	100	rpm	
Maximum rotary (C) speed		rpm	
Driving system in swiveling (A) axis	Torque motor		
Driving system in rotary (C) axis	Torque motor		
Power & torque of swivelling (A) axis	9.8/1040 kW/Nm	13.1/767 hp/ Ft/lbs	
Power & torque of rotary (C) axis	8.4/401 kW/Nm	11.2/401 hp/ Ft/lbs	
Brake type of swivelling (A) axis	Hydraulic clamping		
Braking torque of swivelling (A) axis	3200 Nm	2360.2 Ft/lbs	
Brake type of rotary (C) axis	Hydraulic clamping		
Braking torque of rotary (C) axis	2000 Nm 1475.1 Ft/lbs		
MEASURING FEEDBACK			
Linear axes type	Linear scale		
Linear axes resolution	0.1 μm		
Rotary axes type	Rotary scale		
Rotary axes accuracy	±5"		
SUPPLES			
Installed power	60 kVA		
DIMEMSION			
Length (w & w/o conveyor)	STD: 2970/4250 mm	STD: 9.7/13.9 Ft	
Length (w a w/o conveyor)	RPC: 3380/4180 mm	RPC: 11/13.7 Ft	
Width	STD: 4000 mm	STD: 13.1 Ft	
	RPC: 6040 mm	RPC: 19.8 Ft	
Height	3035 mm 10 Ft		
Weight	STD: 12000 kg	STD: 26455 lbs	
	RPC: 20000 kg	RPC: 44092 lbs	
Floor Space	STD: 2970x4000 mm	STD: 9.7x13.1 Ft	
	RPC: 3380x6040 mm	RPC: 11x19.8 Ft	

^{*} Specifications are subject to change without notice.

SPECIFIC DATA FOR G6 MPC

WORKPIECE AND TABLE			
Table size	Ø500x500 mm	Ø19.7x19.7 in	
Maxium table load	400 kg	882 lbs	
T-slot (w/pitch/no)	14x100x5 mm	0.5x3.9x0.2 in	
Threaded hole	M12x100 mm	M0.4x3.9 in	
Number and hydraulic ports	M12x100 mm M0.4x3.9 in		
Working pressure of hydraulic ports	80 bar	1160.3 psi	
Number and pneumatic ports		1	
Working pressure of pneumatic ports	6 bar	87 psi	
SPINDLE) bai	υ/ μ3ι	
Spindle taper	HSk	K-A63	
Spindle nose to rotary table clamping surface	130-	~630	
ROTARY AXES			
Maximum Swiveling (A) speed	100	rpm	
Maximum rotary (C) speed	200	rpm	
Driving system in swiveling (A) axis	Dual toro	que motor	
Driving system in rotary (C) axis	Torque motor		
Power & torque of swiveling (A) axis	9.8/1040 kW/Nm 13.1/767.5 hp/ Ft/lbs (per torque motor)		
Power & torque of rotary (C) axis	8.4/401 kW/Nm	11.2/295.8 hp/ Ft/lbs	
Brake type of swiveling (A) axis	Hydraulic clamping		
Braking torque of swiveling (A) axis	3200 Nm 2360.2 Ft/lbs		
Brake type of rotary (C) axis	Hydraulic clamping		
Braking torque of rotary (C) axis	2000 Nm 1475.1 Ft/lbs		
MEASURING FEEDBACK			
Linear axes type	Linear	scale	
Linear axes resolution	0.1 μm		
Rotary axes type	Rotary scale		
Rotary axes accuracy	±5"		
APC SYSTEM			
APC type	ACW500		
Exchange time	60 sec		
SUPPLIES			
Installed power	60 kVA		
DIMEMSION			
Length (w & w/o conveyor)	3150/3990 mm	10.3/13 Ft	
Width	4750 mm 15.6 Ft		
Height	2970 mm	9.7 Ft	
Weight	16000 kg	35275 lbs	
Floor Space	3150x4750 mm	10.3x15.6 Ft	

SPECIFIC DATA FOR G6 MT

WORKPIECE AND TABLE				
Table size	Ø500 mm	Ø19.7 in		
Maxium table load	350 kg(Turning)/500 kg(Milling)	771 lbs(Turning)/1102 lbs(Milling)		
T-slot (w/pitch/no)	14x30x12 mm	0.5x1.2x0.5 in		
SPINDLE				
Spindle taper	HSK-T63/Capto C6			
Spindle nose to rotary table clamping surface	150	150~650		
ROTARY AXES				
Maximum Swiveling (A) speed	15 rpm(Turning	g) 100 rpm(Milling)		
Maximum rotary (C) speed	1500 rpm(Turnir	ng) 100 rpm(Milling)		
Driving system in swiveling (A) axis	Torqu	ie motor		
Driving system in rotary (C) axis	Torque motor			
Power & torque of swiveling (A) axis	9.8/1040 kW/Nm	13.1/767.5 hp/ Ft/lbs		
Power & torque of rotary (C) axis	38/450 kW/Nm	50.9/332 hp/ Ft/lbs		
Brake type of swiveling (A) axis	Hydraulic clamping			
Braking torque of swiveling (A) axis	3200 Nm	2360.2 Ft/lbs		
Brake type of rotary (C) axis	Hydraulic clamping			
Braking torque of rotary (C) axis	2000 Nm 1475.1 Ft/lbs			
MEASURING FEEDBACK				
Linear axes type	Linear	Linear scale		
Linear axes resolution	0.1 μm			
Rotary axes type	Rotary scale			
Rotary axes accuracy	±5"			
SUPPLIES				
Installed power	60 kVA			
DIMEMSION				
Length (w & w/o conveyor)	2250/3560 mm	7.4/11.7 Ft		
Width	4900 mm	16 Ft		
Height	2970 mm	9.7 Ft		
Weight	12000 kg	26456 lbs		
Floor Space	3560x4900 mm	11.7x16 Ft		

 $^{{\}it * Specifications are subject to change without notice.}$





AXILE HEADQUARTERS

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