



# GGi 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, Canada, Germany, USA.



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# G6i / G6i MT

### SUSTAINABLE MACHINERY

AXILE is actively integrating sustainability principles into its business model. We keep investing on R&D and focus in supplying flexible & sustainable manufacturing solutions to boost productivity and profitability. We believe that only by embracing digitalization, our customers will achieve a pledge of sustainable development respectful of people and the environment with the necessary competitiveness to ensure the survival of their business.

AXILE digitalization was launched for an optimized machine monitoring and a better energy saving management, compliant with ISO 14955. We aim to help our customers to be prepared to the challenges of the power consumption reduction and to mitigate the carbon emission taxes generated by the manufacturing process.

With a rotary table diameter of 600 mm, the G6i 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 G6i'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.

"i" stands for Industry and Intelligence. AXILE prioritize smart manufacturing and digital intelligent management in order to stay agile in a rapidly changing environment.



# **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.

5

4

Perfect U-shape closed gantry design

Same stability in all travels of X and Y axes

Excellent accessibility to working area

Massive gantry sliding

on 2 symmetric

synchronized axes

All body made of

high-quality casting

Homogeneous thermal

Optimal damping of machining vibrations

3

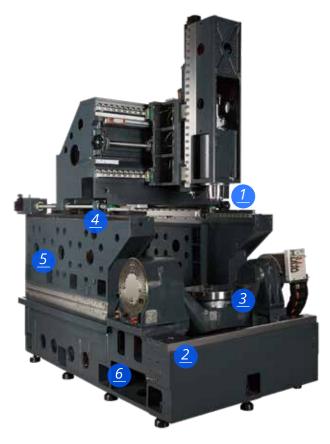
2

Table moved by swivelling rotary axes

Best accuracy with fixed relative position between 2 rotary axes

6

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







# **AGILITY**

### **LINEAR AXES**

\_1\_

Direct driven servomotors (no belts/gears)

Best dynamic and minimal elasticity in the driving system

2

Double symmetric and synchronized axes (Y, V axis)

Linear scales with 0,1  $\mu m$  resolution in Y, V axis and Z axes

Double roller type linear guideways

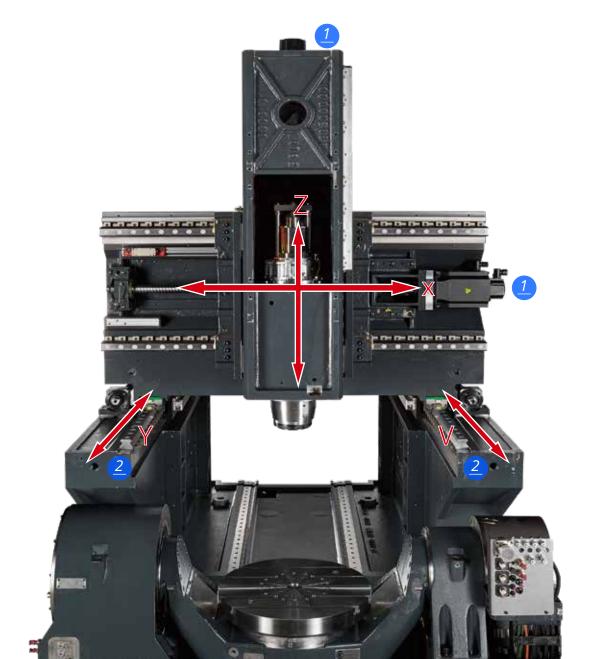
Double pre-loaded double-nut ballscrews

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

Ensures optimal synchronization in Y and V 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

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

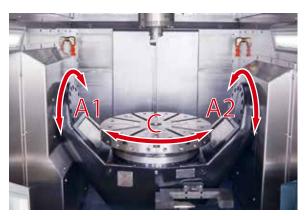
3

High-resolution, direct absolute rotary measuring system

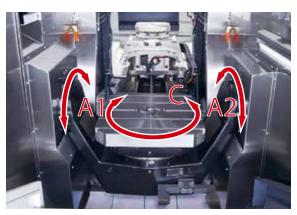
Zero-backlash and high accuracy



G6i Standard table



G6i MT table



G6i 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 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 Tilted working plane indexing (Fanuc)

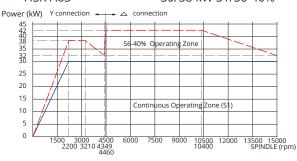


# **SPINDLE**

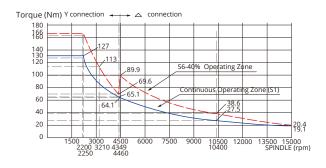
### HIGH-PERFORMANCE BUILT-IN SPINDLE SELECTION



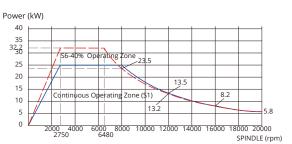
- > 15.000 rpm
- > 127/166 Nm S1/S6-40%
- > HSK A63
- > 30/38 kW S1/S6-40%



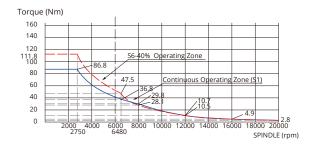
> Double coil asynchronous motor



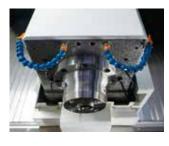
- > 20.000 rpm
- > 86/111 Nm S1/S6-40%
- > HSK A63
- > 25/32 kW S1/S6-40%

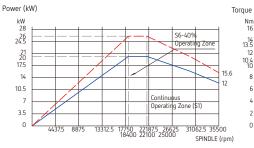


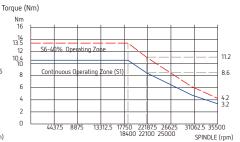
> Double coil asynchronous motor



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







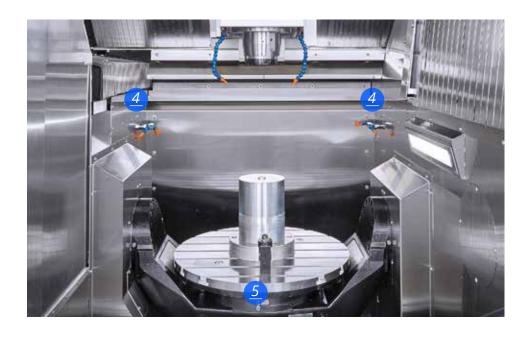
# **CHIP MANAGEMENT**

### **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

- <u>1</u> Coolant through spindle
- 2 Coolant flushing
- 3 Air flushing
- 4 Chip wash down
- 5 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 work 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

#### **Siemens 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

#### Fanuc 31i-B5 plus



#### Siemens SINUMERIK ONE



#### Heidenhain TNC 640 / TNC7

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

#### Heidenhain TNC 640



#### Heidenhain TNC7



# **MILL-TURN**

Mill-turn for those looking for the maximum integration of metal-cutting processes in a single step, reducing complexity of the process and chance of error in the clamping.



C-axis motor is cooled as in the milling version. Additionally the C-axis bearing is cooled in the inner and outer to ensure the long lasting accuracy and life.

Table diameter: 500 mm Max turning speed: 1500 rpm Max table load in turning: 350 kg Max table load in milling: 500 kg



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 (opt)



The mill-turn table equips with a specially designed mechanical and laser type tool measurement system.

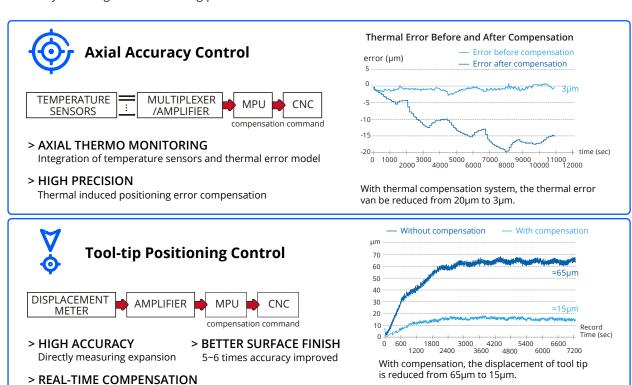
# **TECHNOLOGIES**

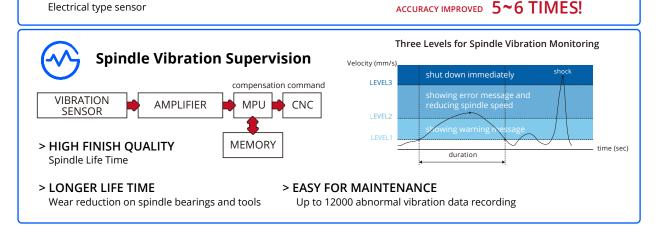


#### SMART MACHINING TECHNOLOGY

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.





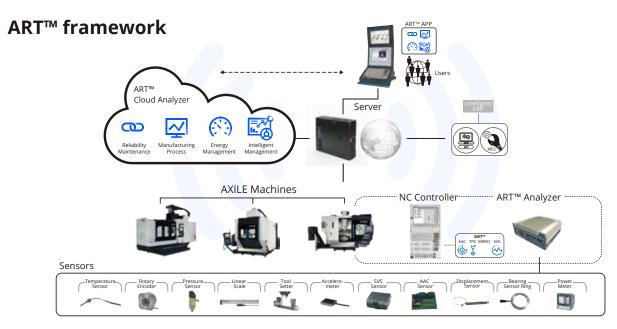


### INTELLIGENT MONITORING SYSTEM

The future of manufacturing depends on intelligent automation. To gain an edge on the competition in the race to upgrade production, embracing and sustaining 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 an ART™ system that enables 24/7 automated production and allows operators to manage digitally, enabling them to plan and strategize through data analysis.

ART™ monitors all the 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. AXILE's ART™ empowers manufacturers to make informed decisions, optimizing operations and greatly improving production efficiency. Now, that's how AXILE sees smart manufacturing in meeting the needs of sustainable business operations.



### 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)**

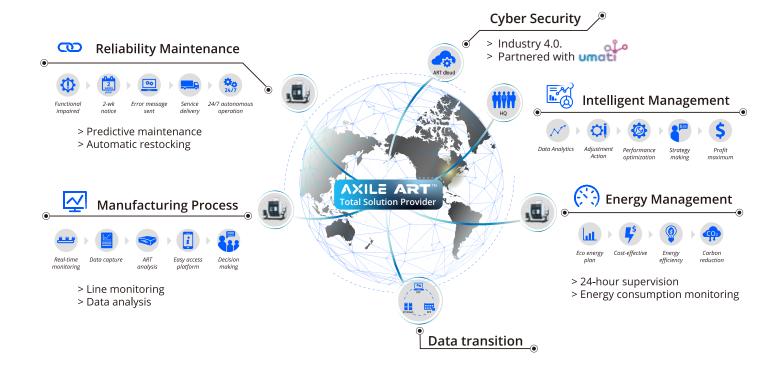
Every penny counts. ART™ enables manufacturers to monitor their power consumption, to identify ways to maximize energy efficiency and reduce expenditure.



#### 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
- > Optimizes machine performance, for high removal rates and longer machine lifetime
- > Provides real-time notification of abnormal conditions, for swift intervention

### **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

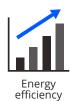












# DIGITALIZED INTELLIGENT AUTOMATION

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

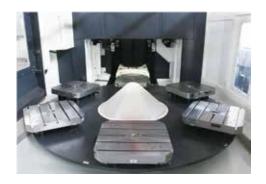
Integrate flexible 2-axis robot that can handle different zero-point pallet sides and brands. The table chuck, the table gripper and pallets are freely selected by end-users to better meet their products requirements.



#### MPC6

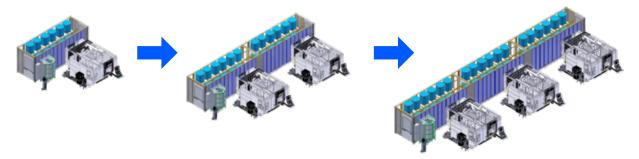
The 6-pallet pool extends the autonomy of the G6 MPC. The system can be integrated at the machine commissioning or later, when the autonomy requirement grows. The loading and unloading is done through the MPC6 system side.





#### G6i 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.



# G6i MPC Flex Expandable

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



# **ROBOTIC PALLET CHANGER (RPC)**

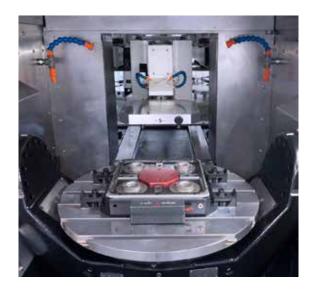
AXILE's automated G6 Robotic Pallet Changer (RPC) solution features a 2-axis robot that keeps machines supplied with workpieces 24/7 from the back side of the machine. Part processing continues simultaneously within the machining center while operators deal with workpieces at the holding area at the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



# **AUTOMATION SELECTION SUMMARY**

G6i	MPC2	MPC2+FMS	MPC FLEX	MPC6	RPC8	RPC10	RPC16	RPC20
Table type						R		
Loader type							Trill	**
Magazine	Ser.	,				۹	۹	•
Chuck type		0			<b>6</b> 5	9 9		<b>3</b>
Chuck type	e Table integrated 4 hydraulic cones			Erowa MTS 400	Erowa UPC 320	Erowa PC 210	Erowa ITS 148	
Gripper type	e					7		
Pallet size	500			398	320	ø210	ø148	
Pallet type	Casting pallet 500x500 mm with/without Hydraulic coupling			Erowa MTS400	Erowa UPC320	Erowa PC210	Erowa ITS148	
Number of pallets	2	12 / 24 / 36	18 / 24	6	8	10	16	20
	ø5	00x190	ø500x420 (*	ø500x480)	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.		Ø 398 42.7L	Ø400 Ø323 Ø323 Ø9°)	230 12.6L	<u>9160</u> 5L		
Max. weighet	400 kg			220 kg	220 kg	98 kg	30 kg	

# **AVAILABLE ACCESSORIES**

Optional design and organization 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

Easier maintenance routine for operator



Chip conveyor with coolant through spindle are available on demand.

Different types of chip conveyor are available for different chip material.



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.

Simplifies 5X workpiece clamping

Standard for standard table. MT table is optional.



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

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



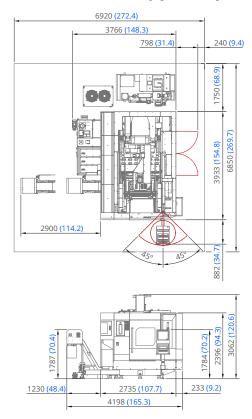
#### Scapper type chip conveyor

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

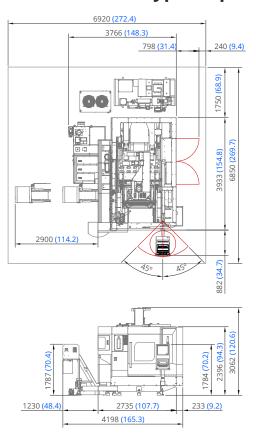
# LAYOUT AND WORKSPACE

MetricInch

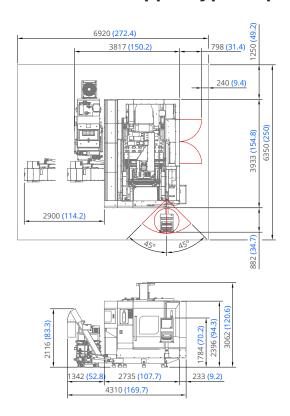
G6i (80 tools ATC and with chain type chip conveyor)



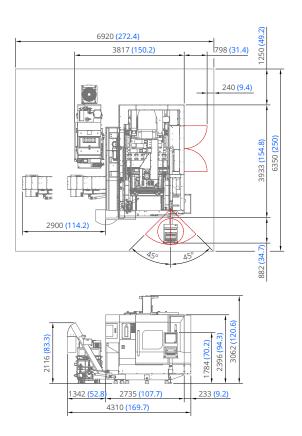
G6i (120 tools ATC and with chain type chip conveyor)



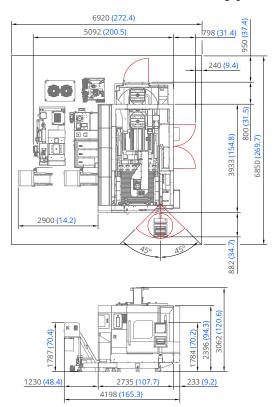
### **G6i** (with 80 tools ATC and scrapper type chip conveyor)



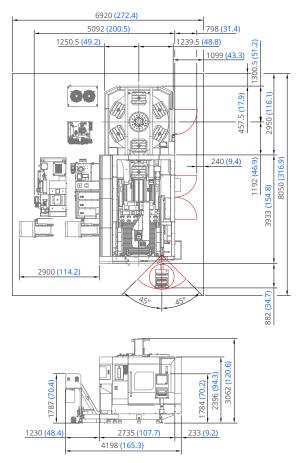
### **G6i** (with 120 tools ATC and scrapper type chip conveyor)



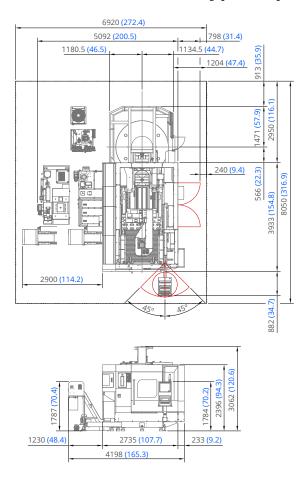
### **G6i MPC2 (with 80 tools ATC and chain type chip conveyor)**



### **G6i MPC6 (with 80 tools ATC and chain type chip conveyor)**

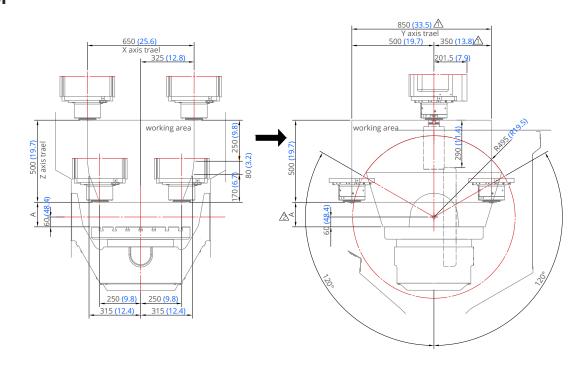


# G6i RPC (with 80 tools ATC and chain type chip conveyor)

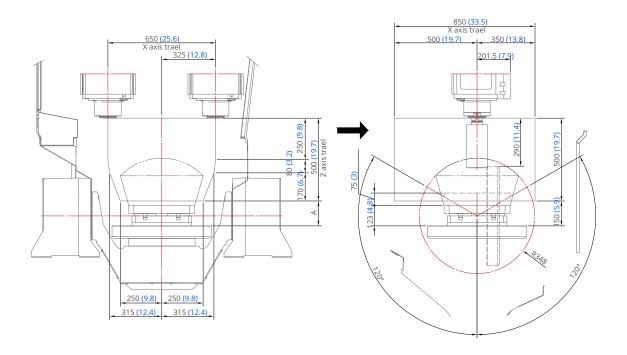


# INTERFERENCE Metric Inch

### G6i



# G6i RPC



# **TECHNICAL DATA**

# **COMMON DATA FOR G6i**

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	R	oller		
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)	±12	20 deg		
C (rotary)		0 deg		
SPINDLE				
Spindle speed	200	00 rpm		
Spindle taper		K-A63		
Transmission	Built-in			
Motor type	Asynchronous			
Bearing typefront/rear		ılar ball		
Bearing cooling and lubrication		il-air		
Power \$1/\$6-40%	25/32 kW	33/53 hp		
Torque S1/S6-40%	86/111 Nm	64.2/99.6 Ft/lbs		
SPINDLE				
Spindle speed	150	00 rpm		
Spindle taper	HS	K-A63		
Transmission	Built-in			
Motor type	Asynchronous			
Bearing typefront/rear	Angular ball			
Bearing cooling and lubrication	Oil-air			
Power S1/S6-40%	30/38 kW	40/61 hp		
Torque S1/S6-40%	127/166 Nm	95.9/147.5 Ft/lbs		
ACCURACY (VDI/DGQ 3441)				
Positionning	0.005 mm	0.0002 in		
Repeatability	±0.0025 mm	±0.0001 in		
EXTERNAL COOLANT SUPPLY				
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)				
High pressure pump	40/70 bar	580.1/1015.2 psi		
CONTROL UNIT				
	TNC 640	/TNC 7		
	Sinumerik one			
Fanuc	31i-B5 Plus			
Heidenhain Siemens	Sinume	rik one		

<sup>\*</sup> Specifications are subject to change without notice.

# **COMMON DATA FOR G6i (CONT.)**

TOOL CHANGER			
Change type	Chain type		
Carousel drving system	Servomotor		
Magazine positions	Chain type: 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	Chain type: 640/800 kg	Chain type: 1410/1763 lbs	

### COMMON DATA FOR G6i/G6i 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		1 100.5 psi		
Working pressure of pneumatic ports	6 bar	87 psi		
SPINDLE	O Dai	ο/ μ3ι		
Spindle taper	HSK	-A63		
Spindle nose to rotary table clamping surface	150-	~650		
ROTARY AXES				
Maximum swiveling (A) speed	100	rpm		
Maximum rotary (C) speed	200	200 rpm		
Driving system in swiveling (A) axis	Dual Toro	Dual Torque Motor		
Driving system in rotary (C) axis	Torque motor			
Brake type of swivelling (A) axis	Hydraulic clamping			
Brake type of rotary (C) axis	Hydraulic clamping			
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 conveyor)	STD: 4250 mm	STD: 13.9 Ft		
Length (w conveyor)	RPC: 4280 mm	RPC: 13.7 Ft		
Width	STD: 4000 mm	STD: 13.1 Ft		
Widti	RPC: 6040 mm	RPC: 19.8 Ft		
Height	3035 mm 10 Ft			
Weight	STD: 12000 kg	STD: 26455 lbs		
WCIBITE	RPC: 20000 kg	RPC: 44092 lbs		
Floor Space	STD: 2970x4000 mm	STD: 9.7x13.1 Ft		
1 loor space	RPC: 3380x6040 mm	RPC: 11x19.8 Ft		

<sup>\*</sup> Specifications are subject to change without notice.

# SPECIFIC DATA FOR G6i 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	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-A	ve2	
Spindle nose to rotary table clamping surface	130~6	30	
ROTARY AXES			
Maximum Swiveling (A) speed	100 rpm		
Maximum rotary (C) speed	200 rpm		
Driving system in swiveling (A) axis	Dual torque motor		
Driving system in rotary (C) axis	Torque motor		
Brake type of swiveling (A) axis	Hydraulic clamping		
Brake type of rotary (C) axis	Hydraulic clamping		
MEASURING FEEDBACK			
Linear axes type	Linear scale		
Linear axes resolution	0.1 μm		
Rotary axes type	Rotary scale		
Rotary axes accuracy	±5"		
APC SYSTEM			
Exchange time	60 sec		
SUPPLIES			
Installed power	60 kVA		
DIMEMSION			
Length (w conveyor)	3990 mm 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	

st Specifications are subject to change without notice.

# SPECIFIC DATA FOR G6i 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			
Spindle nose to rotary table clamping surface	150	0~650		
ROTARY AXES				
Maximum Swiveling (A) speed	15 rpm(Turning) 100 rpm(Milling)			
Maximum rotary (C) speed	1500 rpm(Turning) 100 rpm(Milling)			
Driving system in swiveling (A) axis	Dual Torque Motor			
Driving system in rotary (C) axis	Torque motor			
Brake type of swiveling (A) axis	Hydraulic clamping			
Brake type of rotary (C) axis	Hydraulic clamping			
MEASURING FEEDBACK				
Linear axes type	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 conveyor)	3560 mm	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		

<sup>\*</sup> Specifications are subject to change without notice.





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