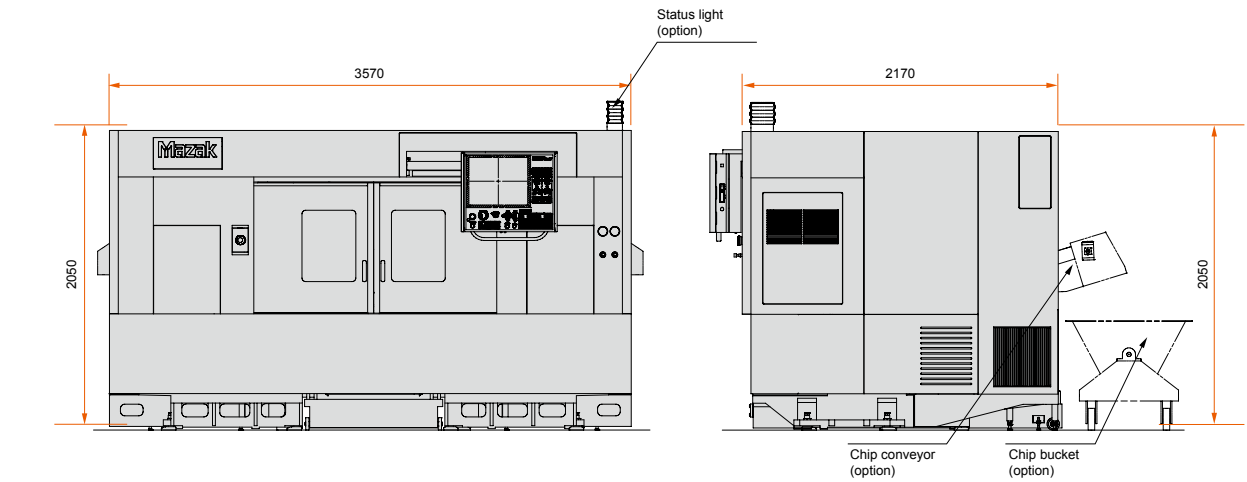


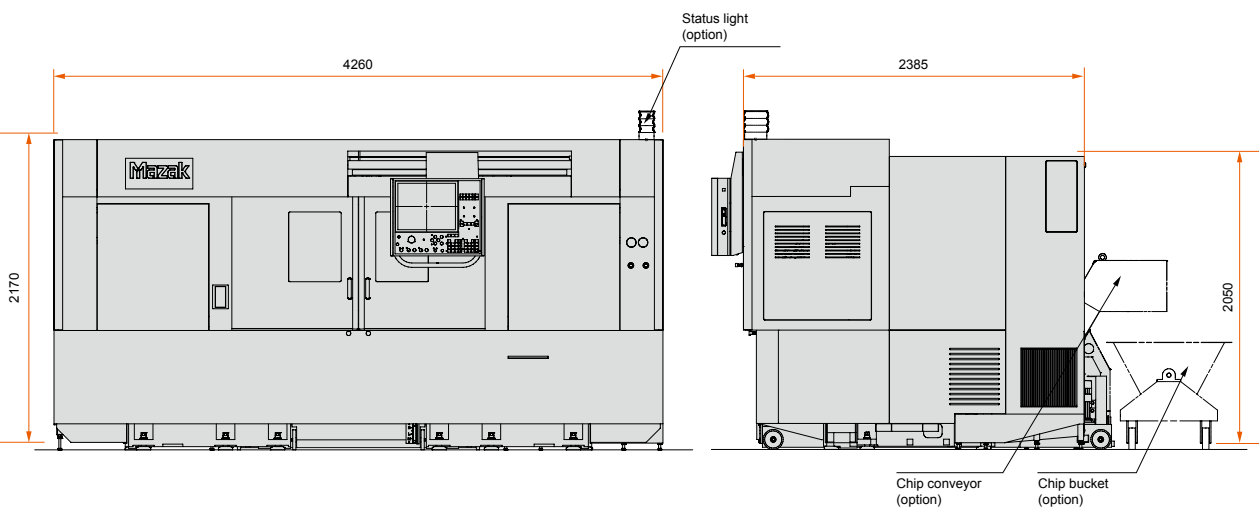
Machine Dimensions

Unit : mm

MULTIPLEX W-200, W-200Y



MULTIPLEX W-300, W-300Y



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- Specifications are subject to change without notice.
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- Unauthorized copying of this catalogue is prohibited.

MULTIPLEX W SERIES 18.02.0 AH 99J1A4518E¹



Mazak

MULTIPLEX W

SERIES

[200 / 200Y / 300 / 300Y]



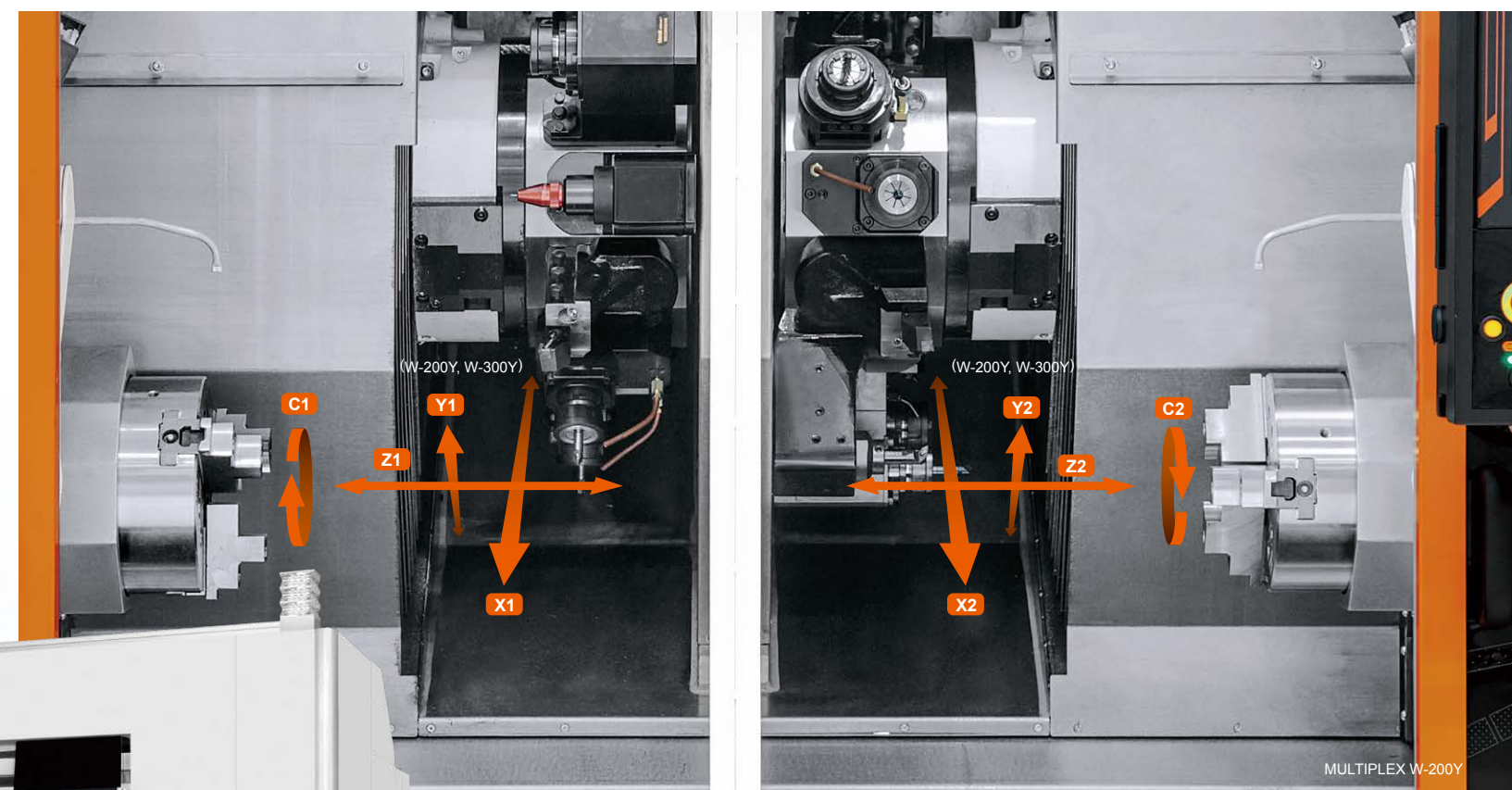
Improved Performance for a Real Production Workhorse



MULTIPLEX W-300Y shown with optionally gantry loader (GL-200) and status light.

Symmetrical Machine Design with 2 Spindles and 2 Turrets

MULTIPLEX W SERIES



Continuous / simultaneous machining by both spindles thanks to automatic workpiece transfer from one spindle to the other

Innovative machine design for higher productivity

- WEDGE bed design for improved chip flow and operator accessibility
- Faster operation for large lot production

New gantry loader system for improved efficiency

Variety of factory automation equipment available for increased productivity

Innovative Machine Design for Higher Productivity

The MULTIPLEX started to work in manufacturers worldwide almost 30 years ago. Since then many improvements have been made for higher efficiency, productivity and ease of operation. The new MULTIPLEX W series equipped with MAZATROL SmoothG incorporates the extensive expertise accumulated over many years to provide you unsurpassed productivity.

MULTIPLEX processing is the automatic continuous workpiece machining from the first process to the second process on the same machine. This is done by transferring the workpiece from one headstock to the other while maintaining the in phase radial positioning to ensure high accuracy. Workpiece transfer is made possible by having each headstock move towards the machine center in the Z-axis. For this reason, the MULTIPLEX was the first MAZAK machine tool to utilize integral spindle / motors.

The first operation of a workpiece can be simultaneously machined by one spindle and turret while the second operation is being performed by the other spindle and turret. Thanks to this independent operation capability, two tools can be simultaneously machining a much larger percentage of time when compared to a workpiece being processed by a single spindle machine with two turrets. Each headstock move towards the machine center in the Z-axis. For this reason, the MULTIPLEX was the first MAZAK machine tool to utilize integral spindle / motors.

The W-200 and W-300 have milling tools on both turrets in addition to turning, which allows high speed drilling and contour milling. The W-200Y and W-300Y with Y-axis can perform machining comparable to a compact machining center. Both are designed to provide unsurpassed productivity.

- 1

Left & right integral spindle / motors

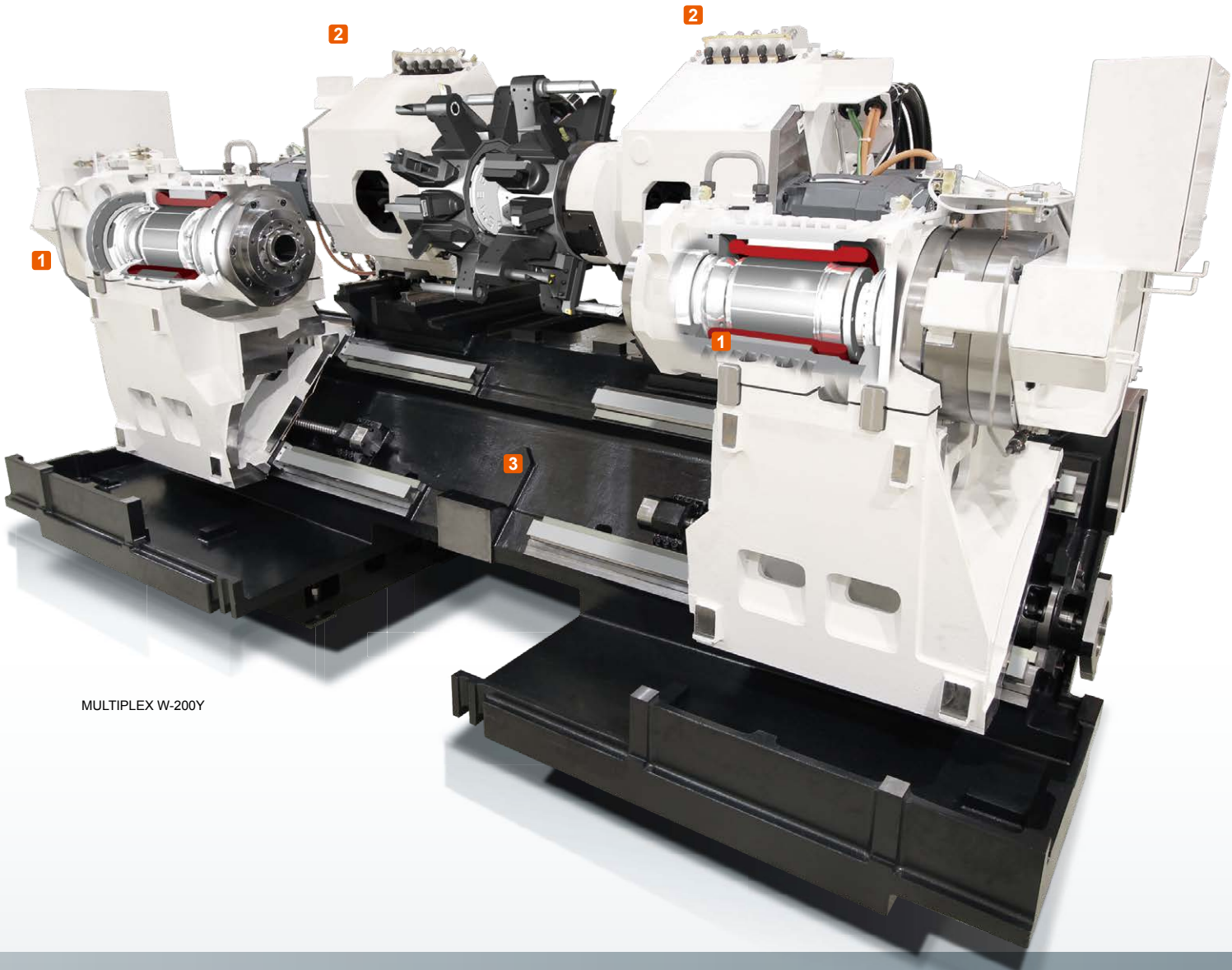
- High efficiency and unsurpassed surface finishes
 - Full 360° C-axis brake for high accuracy C-axis positioning
 - Faster chuck confirmation
- 2

Advanced turret design

- Direct drive motor is utilized for the turret milling spindle to minimize vibration / noise to ensure the accuracy—No clutch for faster chip-to-chip times
 - 12 position VDI turret
- 3

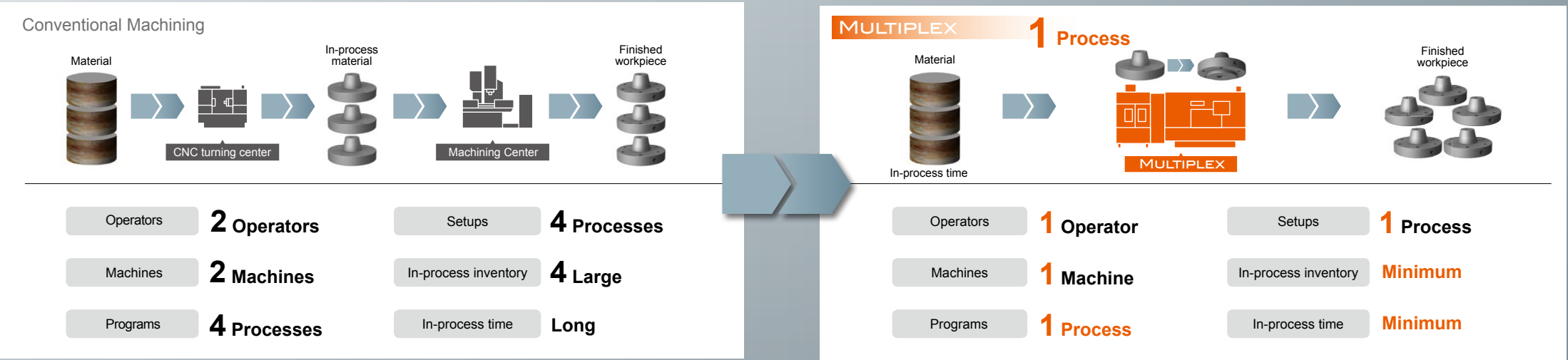
New machine design

- Wedge design for smooth flow of machined chips
 - Higher rigidity
 - High speed positioning X / Y / Z



MULTIPLEX Processing for Higher Productivity

The MULTIPLEX W series is designed to reduce production lead time, improve machining accuracy, reduce floor space and initial cost, lower operating expenses, reduce operator requirements and to improve the working environment.



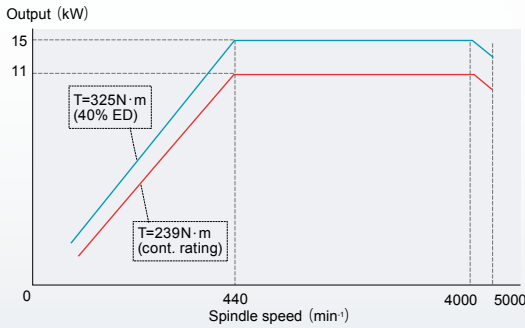
Higher Productivity

High performance integral spindle / motors for high-speed, high-torque turning

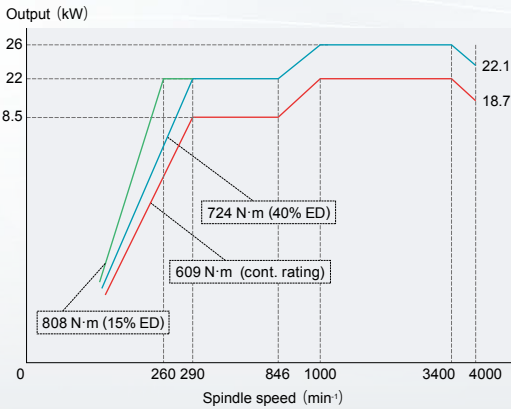


	W-200, W-200Y	W-300, W-300Y
Chuck size	8"	10"
Spindle speed	5000 min ⁻¹	4000 min ⁻¹
Spindle motor	15 kW (40% ED) / 11 kW (cont. rating)	26 kW (40% ED) 22 kW (cont. rating)
Max. spindle torque	325 N·m (40% ED)	808 N·m (15% ED)

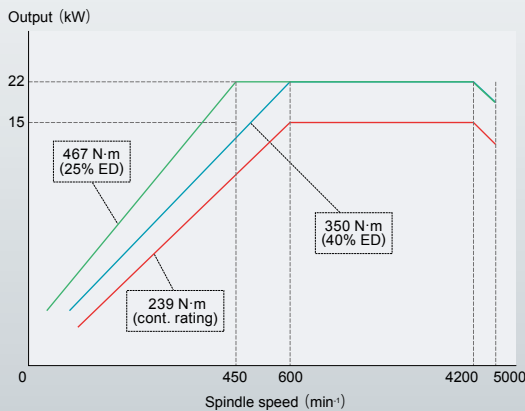
Output diagram
MULTIPLEX W-200, W-200Y 1st and 2nd spindle



MULTIPLEX W-300, W-300Y 1st and 2nd spindle



MULTIPLEX W-200, W-200Y 1st and 2nd spindle (22 kW) **OPTION**



Turret with unsurpassed efficiency

High speed indexing non-lift turrets located on for both sides equipped with VDI-type tool holders. The VDI-type holders can quickly be loaded / unloaded on the turret by tightening / loosening a single bolt with minimum tool setup time. Both turrets can mount either turning or milling tools on each of the 12 positions for convenient setup.

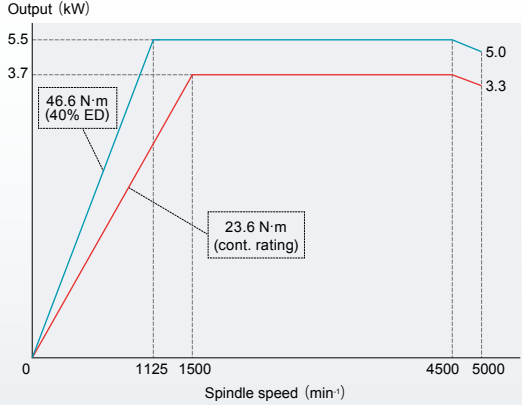
	W-200, W-200Y	W-300, W-300Y
Tool storage capacity	12 × 2	
Turning tool holder size	□25 mm × 150 mm	□25 mm × 150 mm
Tool size for Boring bar	Φ40 mm	Φ50 mm
Turret clamping force	55.4 kN (5653 kgf)	82.5 kN (8418 kgf)

Milling spindle

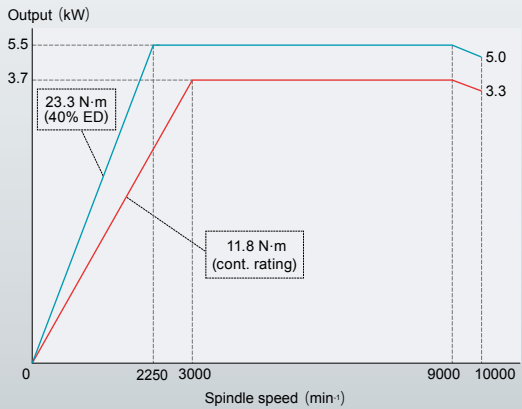
The milling spindle provides versatile performance from powerful face milling to high speed drilling.

	W-200, W-200Y		W-300, W-300Y
Spindle speed	5000 min ⁻¹	10000 min ⁻¹	5000 min ⁻¹
Spindle motor	5.5 kW (40% ED)		7.5 kW (25% ED)
Max. spindle torque	46.6 N·m (40% ED)	23.3 N·m (40% ED)	95.5 N·m (25% ED)
Cutting capacity	Drill	Φ20 mm	Φ25 mm
	End mill	Φ20 mm	Φ25 mm
	Tap	M20	M16

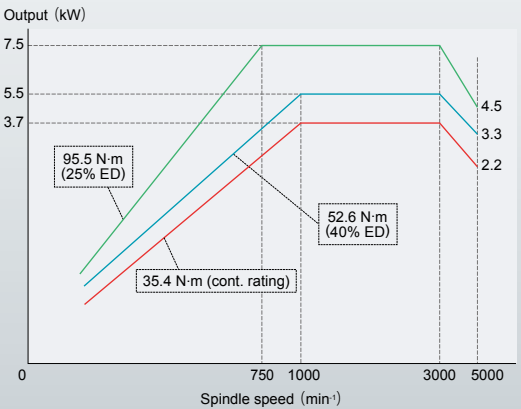
Output diagram
MULTIPLEX W-200, W-200Y 5000 min⁻¹ milling spindle



MULTIPLEX W-200, W-200Y 10000 min⁻¹ milling spindle **OPTION**



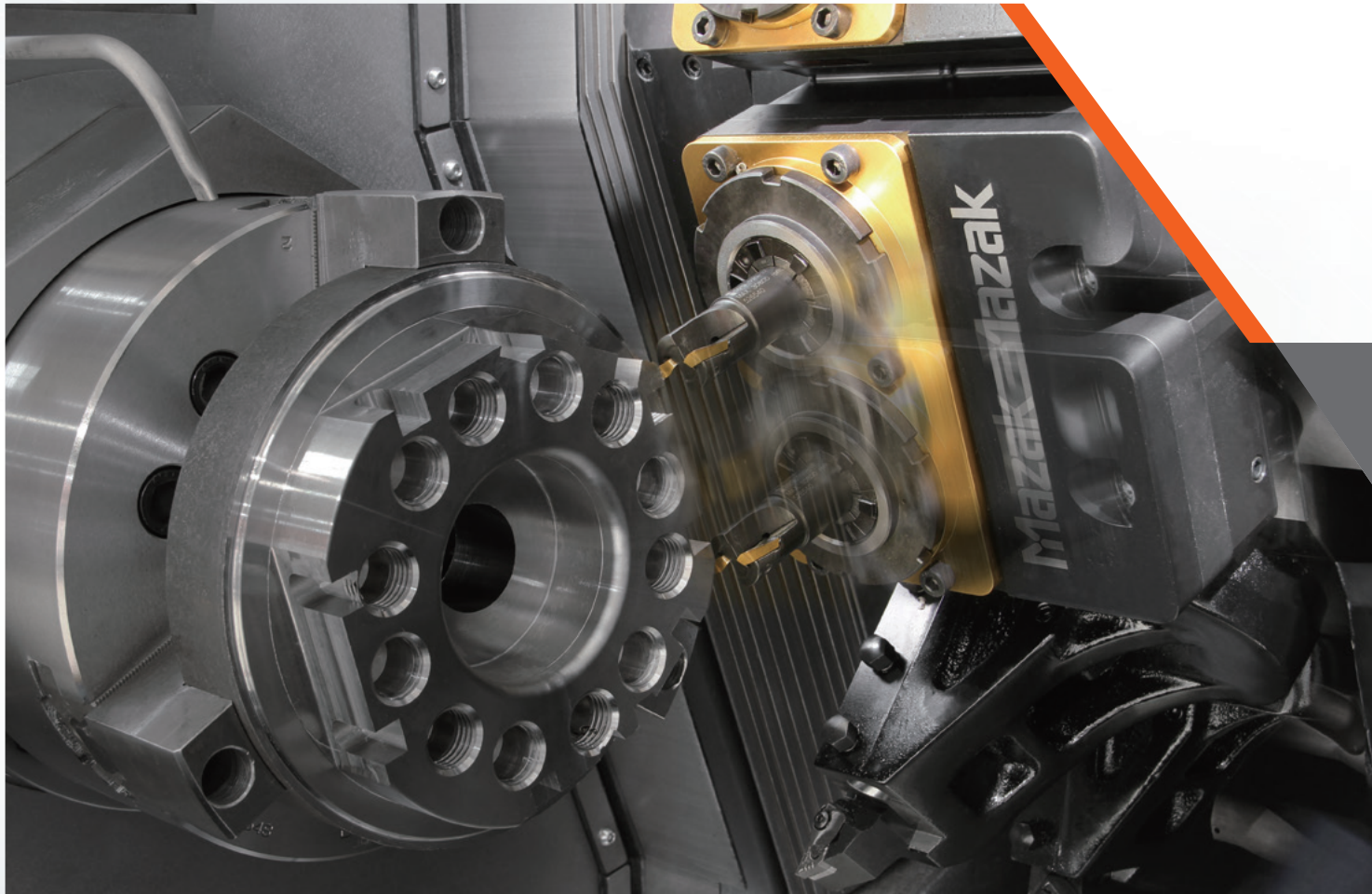
MULTIPLEX W-300, W-300Y 5000 min⁻¹ milling spindle



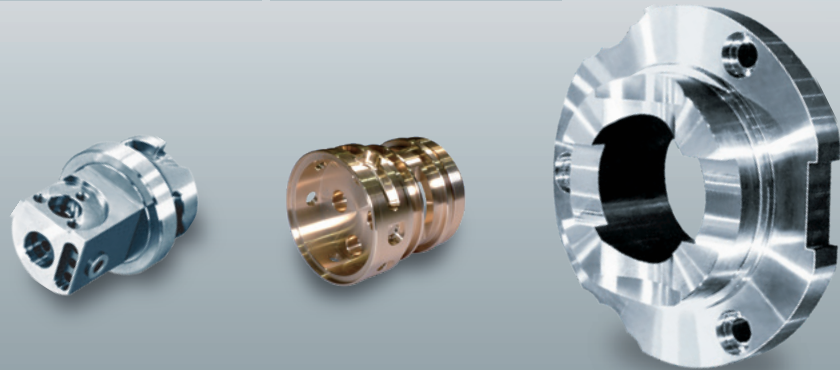
Higher Productivity

Y-axis for process integration and higher productivity (W-200Y, W-300Y)

Large 100 mm (W-200Y) / 154 mm (W-300Y) Y-axis stroke for a wide variety of cutting, such as milling flats and drilling off-center.



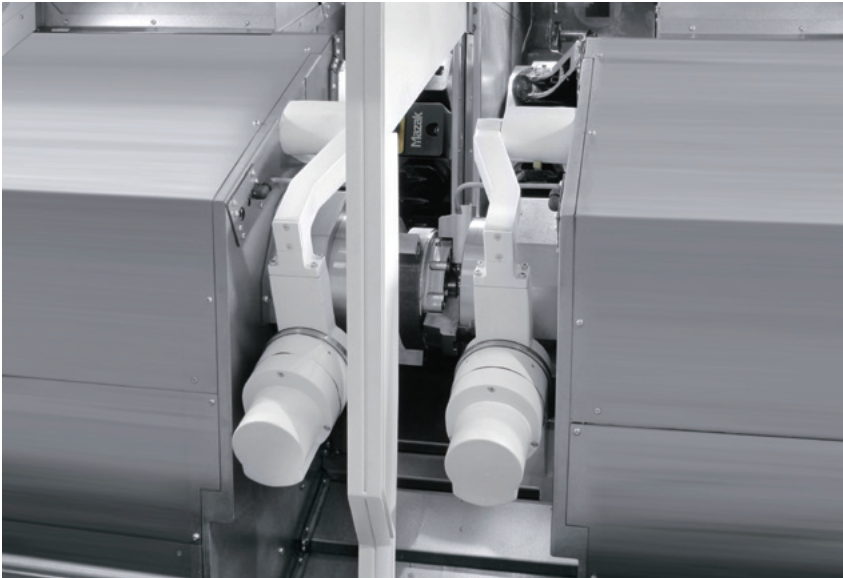
	W-200Y	W-300Y
Y-axis stroke	100 mm (±50 mm)	154 mm (±77 mm)



Designed for the maximum versatility

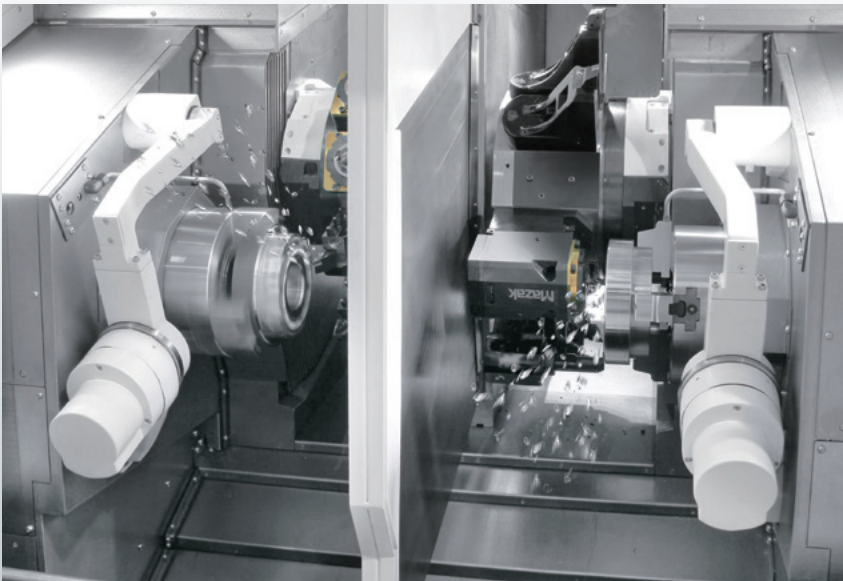
High accuracy and high speed workpiece transfer

Workpieces can be transferred from the left to right with high accuracy and high-speed thanks to automatic in-phase C-axis orientation of both spindles.



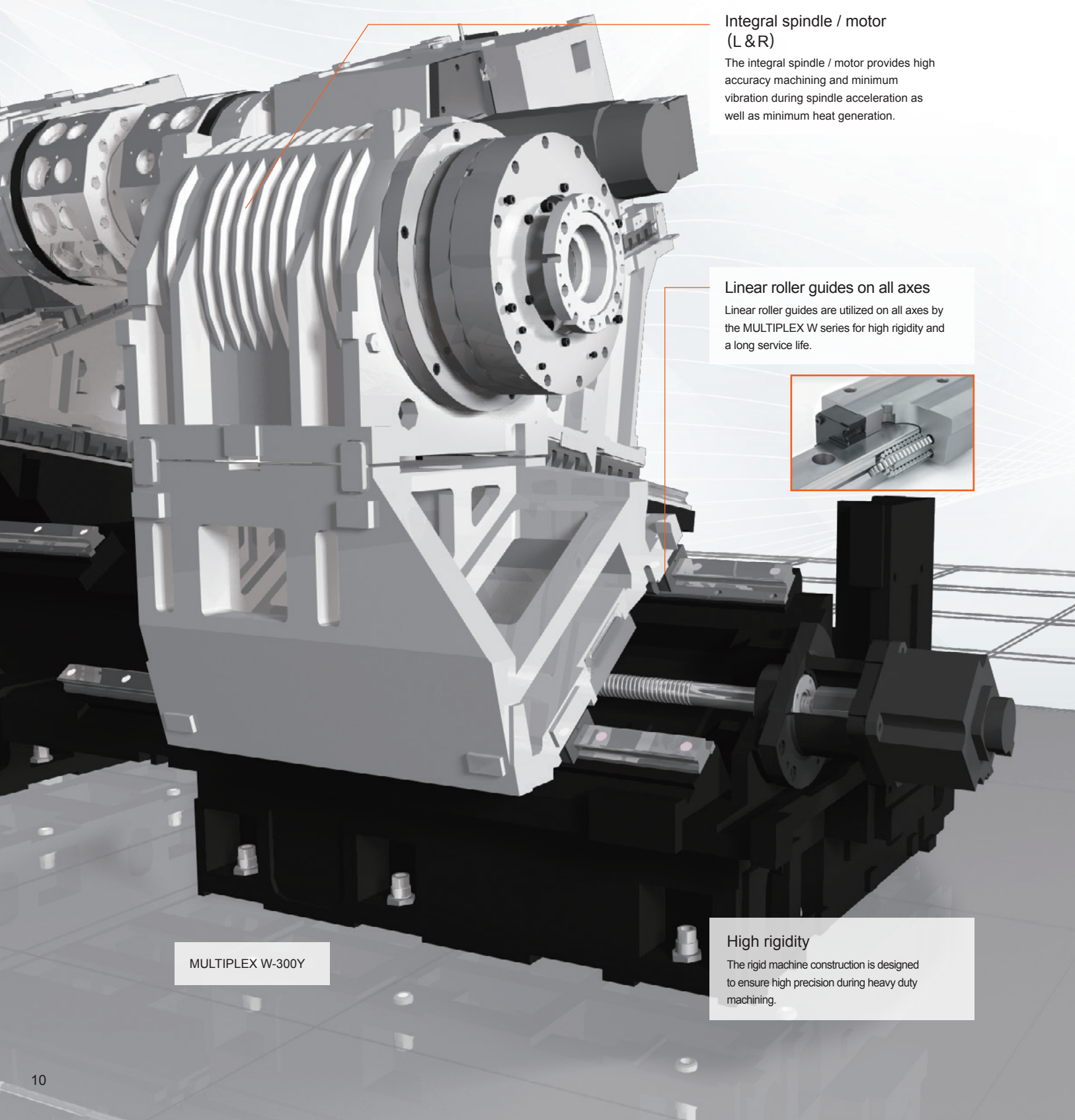
Center partition

The center partition keeps machined chips and coolant contained allowing the MULTIPLEX to be used as two separate machines. Setups can be performed as well as workpiece loading / unloading on one spindle while machining is being performed on the other.



Higher Accuracy

Machine designed for higher accuracy



Integral spindle / motor (L & R)
The integral spindle / motor provides high accuracy machining and minimum vibration during spindle acceleration as well as minimum heat generation.

Linear roller guides on all axes
Linear roller guides are utilized on all axes by the MULTIPLEX W series for high rigidity and a long service life.



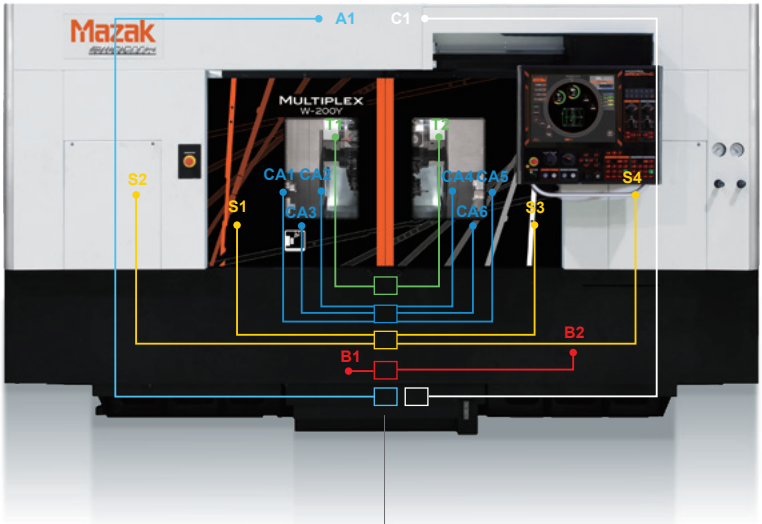
MULTIPLEX W-300Y

High rigidity
The rigid machine construction is designed to ensure high precision during heavy duty machining.

Continuous machining accuracy

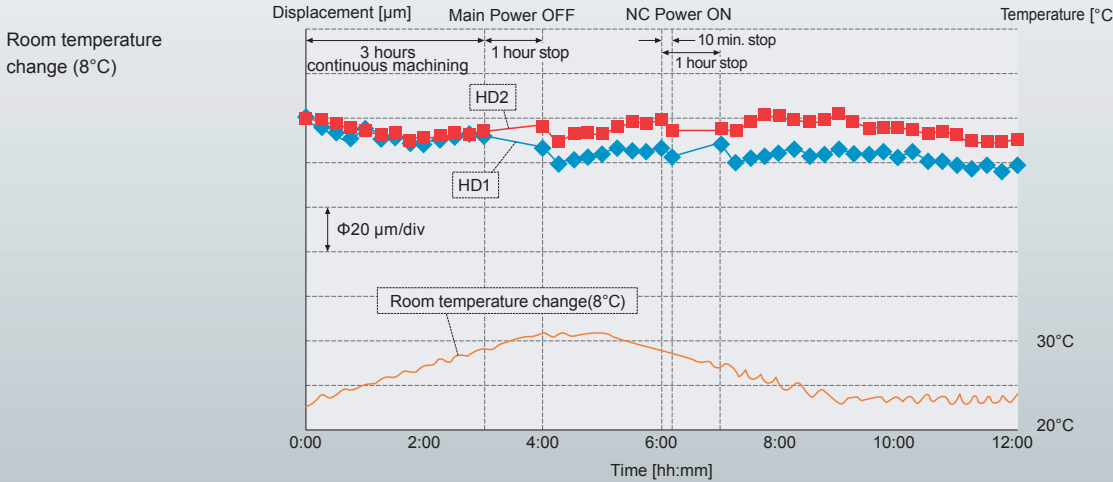
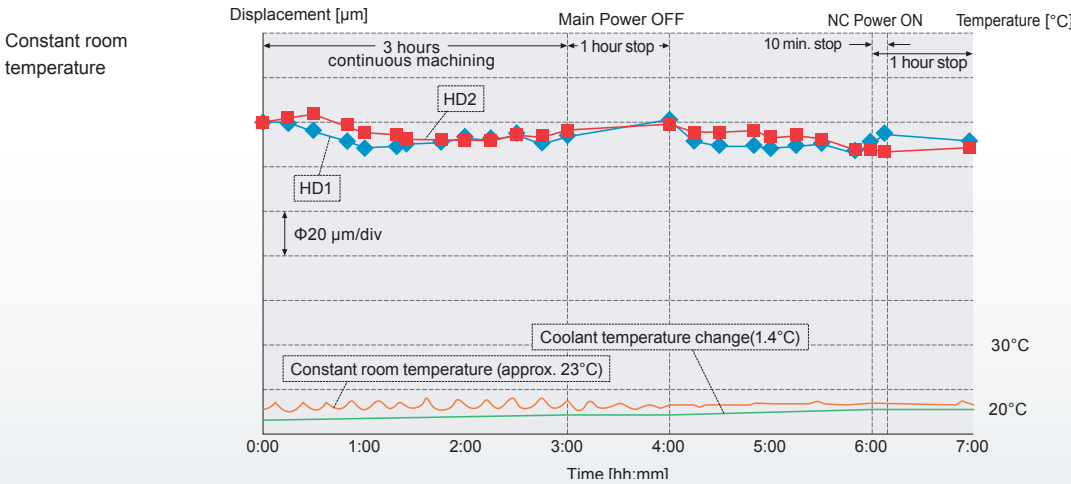
Heat Displacement Control THERMAL SHIELD

The THERMAL SHIELD is an automatic compensation system for room temperature changes, which realizes enhanced continuous machining accuracy. Mazak has performed extensive testing in a variety of environments in a temperature controlled room and has used the results to develop a control system that automatically compensates for temperature changes in the machining area. Changes in the room temperature and compensation data are shown visually.



THERMAL SHIELD sensor system - MULTIPLEX W SERIES

Heat displacement of the MULTIPLEX W-200Y



Factory Automation

Unmanned operation systems for improved productivity

Unmanned operation systems for improved productivity

Finished workpieces are automatically unloaded to the workpiece conveyor outside of the machine.

Option	
Chuck jaw air blast	Work conveyor
Workpiece unloader	Workpiece stand



		W-200, W-200Y	W-300, W-300Y
Workpiece unloader	Workpiece unloader	Φ15.875 mm ~ Φ210 mm	Φ75 mm ~ Φ260 mm
	Workpiece length	20 mm ~ 152.4 mm	25 mm ~ 225 mm
	Max. load weight	Max.7.5 kg	Max.10 kg

Gantry loader system

GL series for automatic operation over extended periods of time also ensures high-speed transferring of heavy workpieces.



MULTIPLEX 200Y with optional gantry loader (GL-100) with sampling unit, and status light

		W-200, W-200Y		W-300, W-300Y		
Type of Gantry loader		GL-100	GL-150	GL-200	GL-300	GL-400
Workpiece dia.		Φ20 ~ 200 mm	Φ20 ~ 200 mm	Φ50 ~ 300 mm	Φ50 ~ 300 mm	Φ50 ~ 350 mm
Max. load weight		10 kg × 2	15 kg × 2	20 kg × 2	30 kg × 2	40 kg × 2

Improved Automation Performance for Gantry Loader system

Workpiece loading / unloading time* **20% reduced** compared to previous system (*Internal machine operation)

Previous Gantry loader : 24.9 sec.	GL-100 : 19.9 sec.
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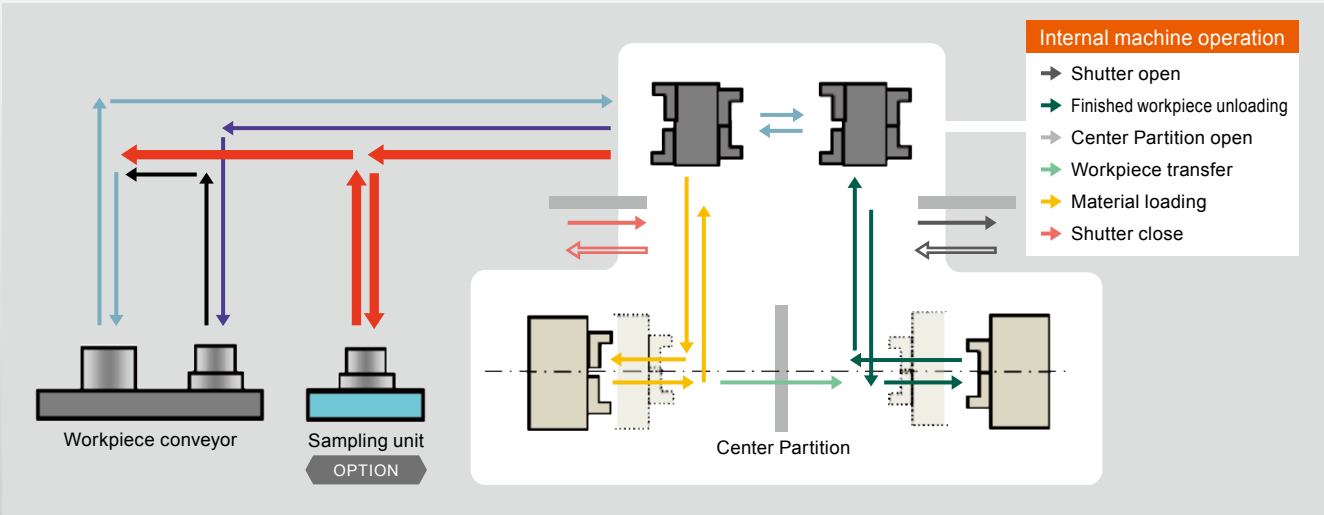
Faster traverse speed : A-axis 100 m/min, B-axis 180 m/min

Faster workpiece loading / unloading : Improved workpiece seating in chuck by feeding headstock against workpiece



MULTIPLEX W-200 shown with optional Gantry loader (GL-100) and sampling unit

- Positioning over pallet conveyor now done by simultaneous 2-axis motion
- 2-pallet workpiece conveyor positioned front and rear for next workpiece setting during current job
- Motion pattern editing function
System changes such as an addition of measuring / cleaning / sampling process available at the customer's field



Ergonomics

Convenient operation and maintenance thanks to the ergonomic machine design

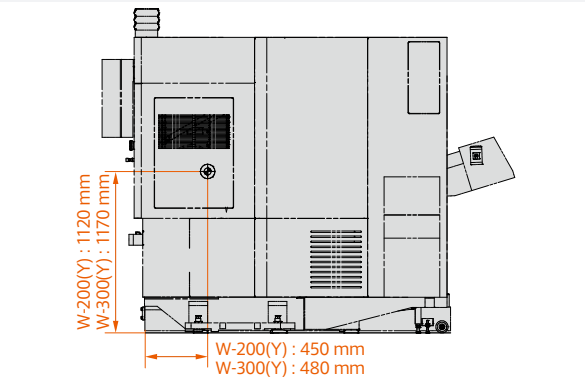


1 Wide door opening

The wide overhead door opening provides convenient workpiece loading / unloading when using an overhead crane.

2 Excellent accessibility for setup

The distance from the front cover to the spindle center line is small for convenient setup and workpiece loading / unloading.



3 CNC operation panel

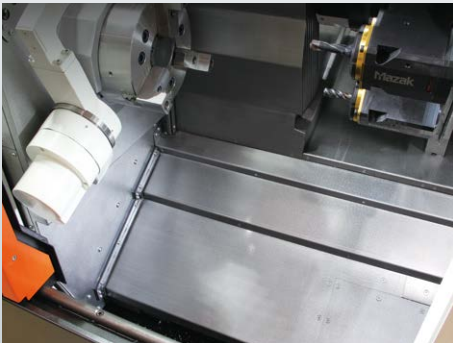
MAZATROL SmoothG operation touch panel is easily adjusted to the operator's desired position.

4 Large window

The large front door window allows the operator to easily monitor workpiece machining.

5 Smooth chip flow

Surfaces such as the Z-axis covers in the machining area are either slanted or vertical to prevent the accumulation of hot machined chips. The smooth chip flow prevents heat built-up in the machine to ensure consistent, high accuracy operation plus simplifies machine cleaning.



A variety of functions provides incomparable operator support for exceptional ease of operation and optimum machine efficiency.

Machine Interference Prevention
SAFETY SHIELD

When an operator manually moves the machine axes for setup, tool measurement or changing inserts, the CNC shows a synchronized 3D model on the display for checking machine interference.

If any machine interference occurs, the machine motion automatically stops. This function for use during automatic operation is optionally available.



Verbal Message System
VOICE ADVISER

Verbal support for machine setup and safe conditions confirmation

C-axis was selected.
Feedrate is 100%. Please watch out.
There are tools not registered in
tool data.
Alarm occurred.



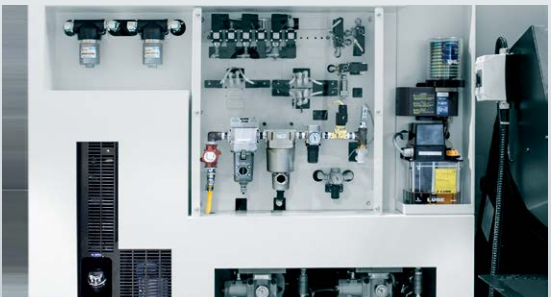
Comprehensive Maintenance Monitor
MAINTENANCE SUPPORT

Useful information for improved preventative maintenance to prevent unexpected machine downtime.



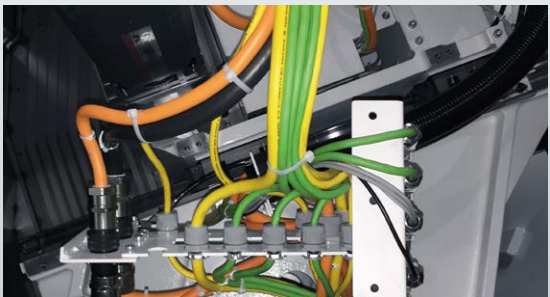
Convenient maintenance

All units requiring frequent access for maintenance are in a convenient central location.



Color-coded cables

Electric cables are color-coded for convenient maintenance.



MAZATROL CNC System



From setup to machining
-designed for unsurpassed
ease of operation

19" touch panel
Touch panel operation
-similar to your smart phone or tablet

USB port
Interface for peripheral equipment
USB-1.0 + 2.0

SD card slot
Transfer program and tool data

Dials
For frequently-used axes selection and
feedrate changes

Operation switches
Large switches
-color changes from orange to green when
turned on

Process home screens

Five different home process screens - each home screen displays the appropriate data in an easy-to-understand manner. Icons can be touched in each process display for additional screen displays.



Pop-up windows

Values and items can easily be input / selected on pop-up windows.



Unsurpassed ease of operation with touch screen

MAZATROL **SMOOTHG**

Ease of Programming

Programming screen links tool path, workpiece shape and programming to reduce programming time

QUICK MAZATROL

MAZATROL program, unit list and 3D workpiece shape are linked to each other. After defining a machining unit in a MAZATROL program, the 3D shape is immediately displayed to easily and quickly check for any programming error.



3D ASSIST

Workpiece and coordinates data can be imported from 3D CAD data to a MAZATROL program. No coordinate value inputs are required. Can reduce input errors and time for program checking.

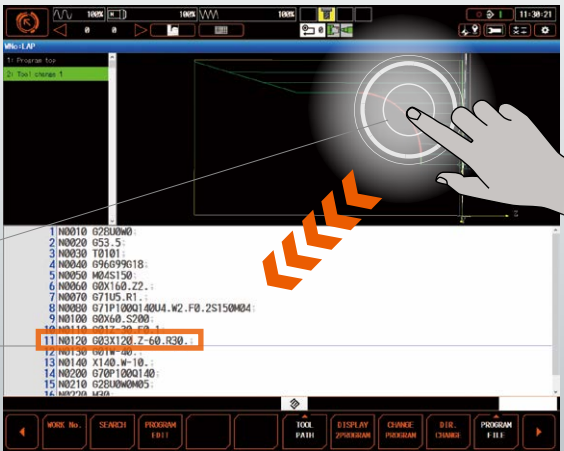


QUICK EIA

Workpiece and coordinates data can be imported from 3D CAD data to a MAZATROL program. No coordinate value inputs are required. Can reduce input errors and time for program checking.

Selecting tool path by touching the screen

Moving to the corresponding EIA program line



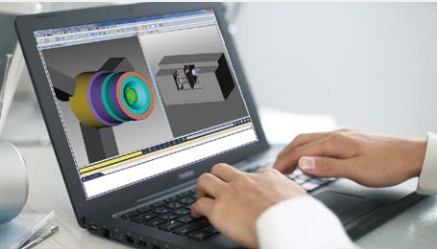
MAZATROL SmoothG Specifications

	MAZATROL	EIA
Number of controlled axes	Simultaneous 2~4 axes	
Least input increment	0.0001 mm, 0.00001 inch, 0.0001 deg	
High speed, high precision control	Shape compensation, Smooth corner control, Rapid traverse overlap	
Interpolation	Positioning (interpolation), Positioning (non-interpolation), Linear interpolation, Circular interpolation, Cylindrical interpolation, Polar coordinate interpolation, Constant lead threading, Re-threading*, Thread start point compensation*, Override variable threading, Synchronized milling spindle tapping	Positioning (interpolation), Positioning (non-interpolation), Linear interpolation, Circular interpolation, Spiral interpolation, Helical interpolation, Equal pitch threading, Variable pitch threading, Threading (C-axis interpolation type), Cylindrical interpolation*, NURBS interpolation*, Polar coordinate interpolation*, Re-threading*, Thread start point compensation*, Thread cut-speed override*, Synchronous tapping*
Feedrate	Rapid traverse, Cutting feed, Cutting feed (per minute), Cutting feed (per revolution), Dwell (time / rotation), Rapid traverse override, Cutting feed override, G0 speed variable control, Feedrate limitation, Variable acceleration control, G0 slope constant*	Rapid traverse, Cutting feed, Cutting feed (per minute), Cutting feed (per revolution), Inverse time feed, Dwell (time / rotation), Rapid traverse override, Cutting feed override, G0 speed variable control, Feedrate limitation, Time constant changing for G1, Variable acceleration control, G0 slope constant*
Program registration	Number of programs : 256(Standard) / 960(Max.), Program memory : 2 MB, Program memory expansion : 8 MB*, Program memory expansion : 32 MB*	
Control display	Display : 19" touch panel, Resolution : SXGA	
Spindle functions	S code output, Spindle speed limitation, Spindle speed override, Spindle speed reaching detection, Multiple position orient, Constant surface speed, Spindle speed command with decimal digits, Synchronized spindle control, Max. speed control for spindle	
Tool functions	Number of tool offset : 4000, T code output for tool number, Tool life monitoring (time), Tool life monitoring (number of machined workpieces)	Number of tool offset : 4000, T code output for tool number, T code output for group number, Tool life monitoring (time), Tool life monitoring (number of machined workpieces)
Miscellaneous functions	M code output, Simultaneous output of multiple M codes	
Tool offset functions	Tool position offset, Tool length offset, Tool diameter / tool nose R offset, Tool nose shape offset, Tool wear offset, Fixed amount offset, Simple wear offset	
Coordinate system	Machine coordinate system, Work coordinate system, Local coordinate system, MAZATROL coordinate system, Additional work coordinates (300 set)	
Machine functions	-	Polygon machining, Hobbing*
Machine compensation	Backlash compensation, Pitch error compensation	
Protection functions	Emergency stop, Interlock, Pre-move stroke check, Barrier, SAFETY SHIELD (manual mode), SAFETY SHIELD (automatic mode)*, VOICE ADVISER	
Automatic operation mode	Memory operation	Memory operation, Tape operation, MDI operation, EtherNet operation
Automatic operation control	Optional stop, Dry run, Manual handle control, MD interruption, TPS, Restart, Single process, Machine lock	Optional block skip, Optional stop, Dry run, Manual handle control, MD interruption, TPS, Restart, Restart 2, Collation stop, Machine lock
Manual measuring functions	Tool-setting data teach, Tool length teach, Touch sensor coordinates measurement, Workpiece offset measurement, Tool eye measurement	Tool-setting data teach, Tool length teach, Tool offset teach, Touch sensor coordinates measurement, Workpiece offset measurement, Tool eye measurement
Automatic measuring functions	Workpiece measurement, Sensor calibration, Tool eye auto tool measurement, Tool breakage detection	
Interface	PROFIBUS-DP*, EtherNet/IP*, CC-Link*	
Card interface	SD card interface, USB	
EtherNet	10 M / 100 M / 1 Gbps	

*Option

3D machine model

A 3D machine model is available to perform program interference checks with other CAD / CAM simulation software.



Designed with environmental considerations

The environment and our impact on natural surroundings have always been important concerns of Yamazaki Mazak. This is shown by the fact that all factories in Japan where Mazak machine tools are produced are ISO 14001 certified,an international standard confirming that the operation of our production facilities does not adversely affect air, water or land.

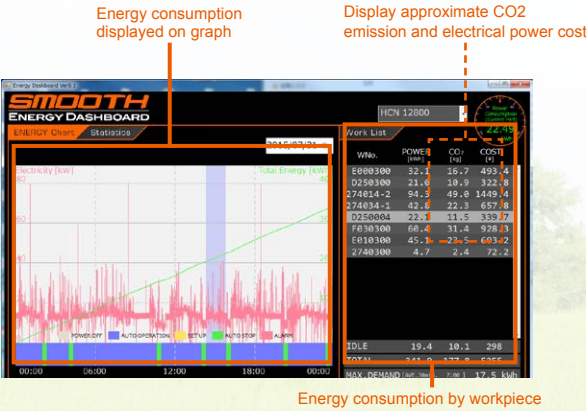
Automatic-off LED worklight and CNC screen are standard equipment for the MULTIPLEX W series. The chip conveyor automatically stops operation 5 minutes after cycle completion for reduced electrical power consumption.



MULTIPLEX W-200Y

Energy Dashboard (MAZATROL SmoothG) OPTION

The Energy Dashboard provides a convenient visual monitoring of energy consumption and analysis.



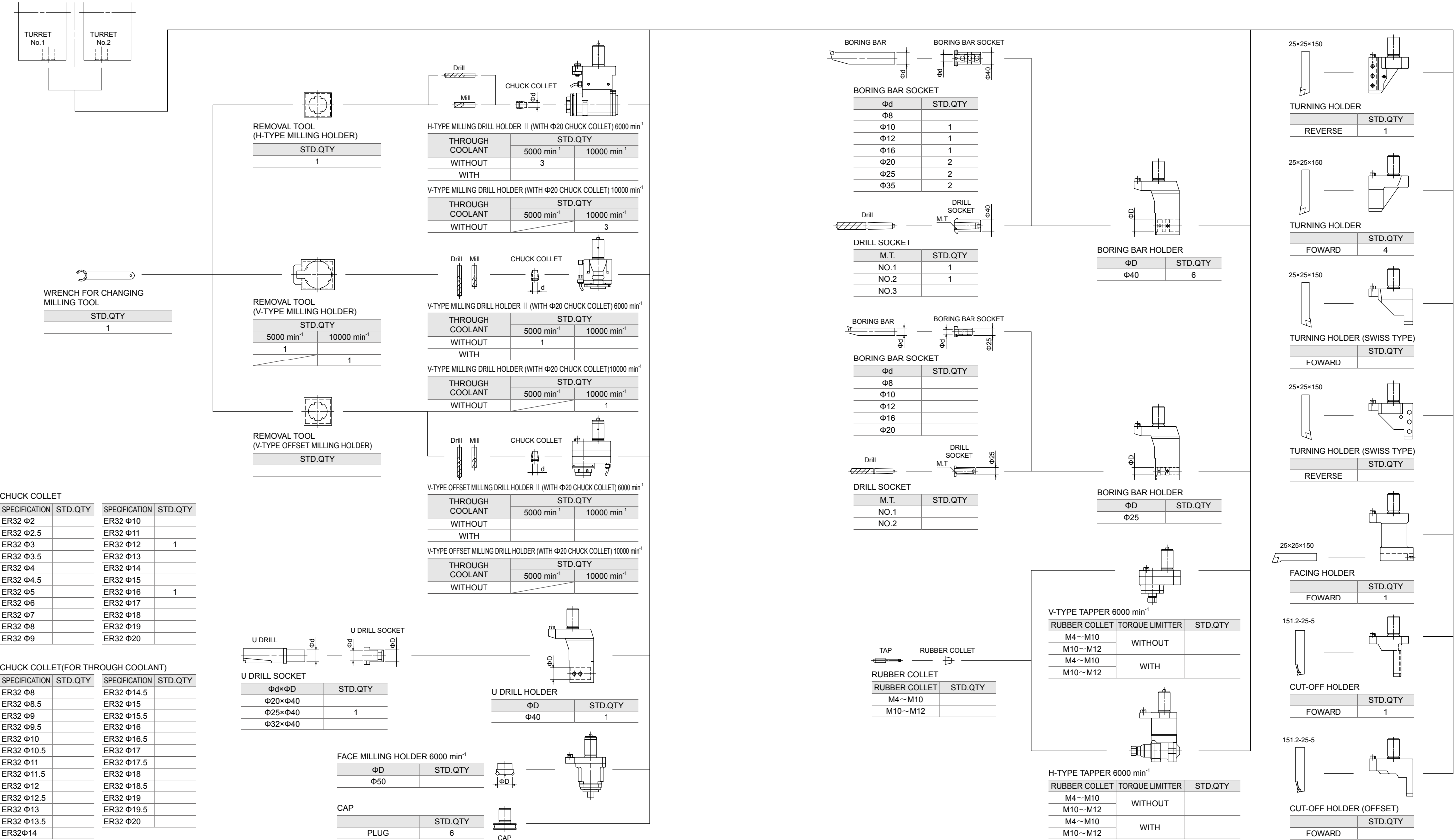
Process screen display

- Total energy consumption (of workpiece in operation)
- Current energy consumption



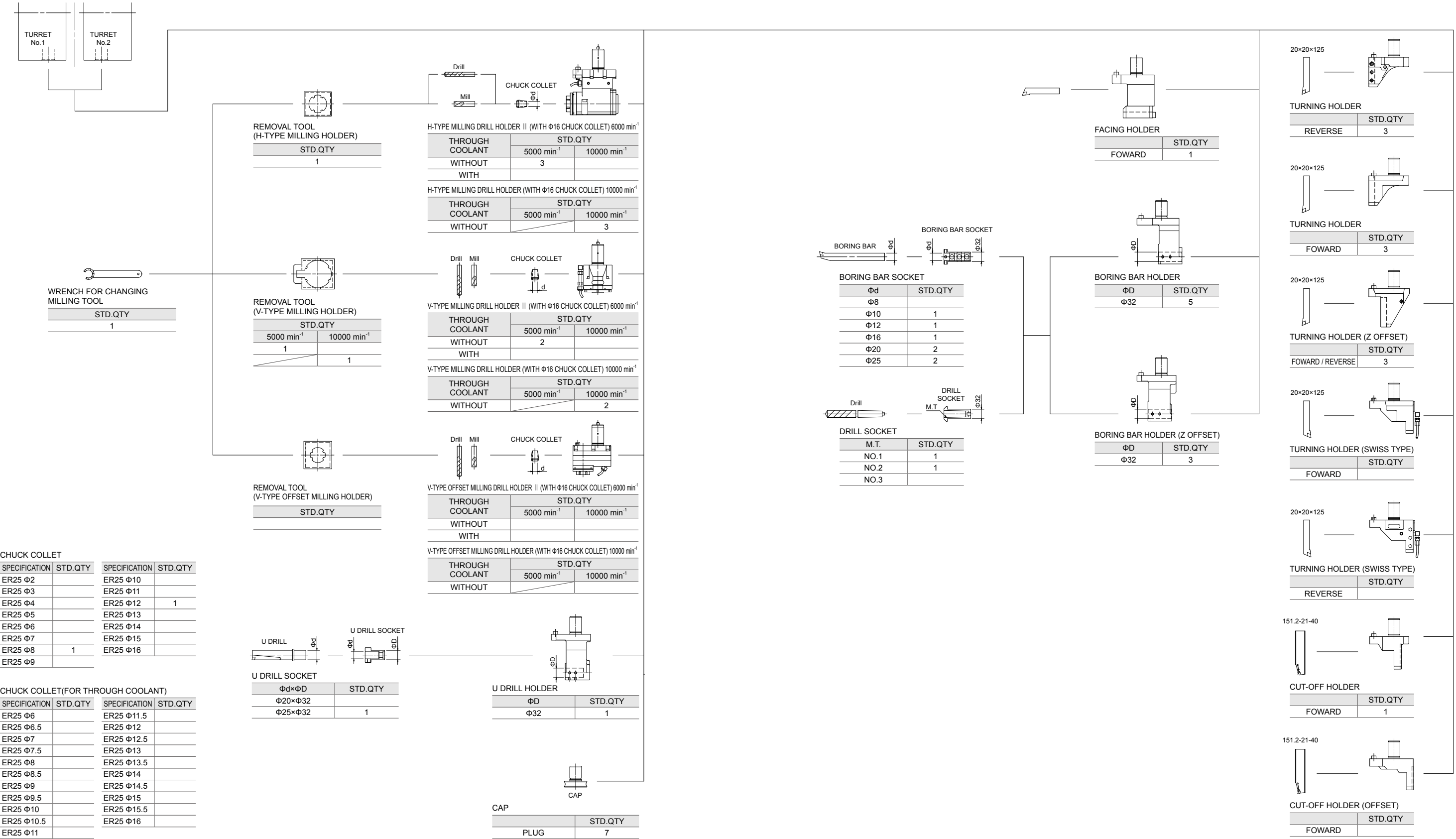
MULTIPLEX W-200, W-200Y 12 position drum turret (standard)

unit : mm



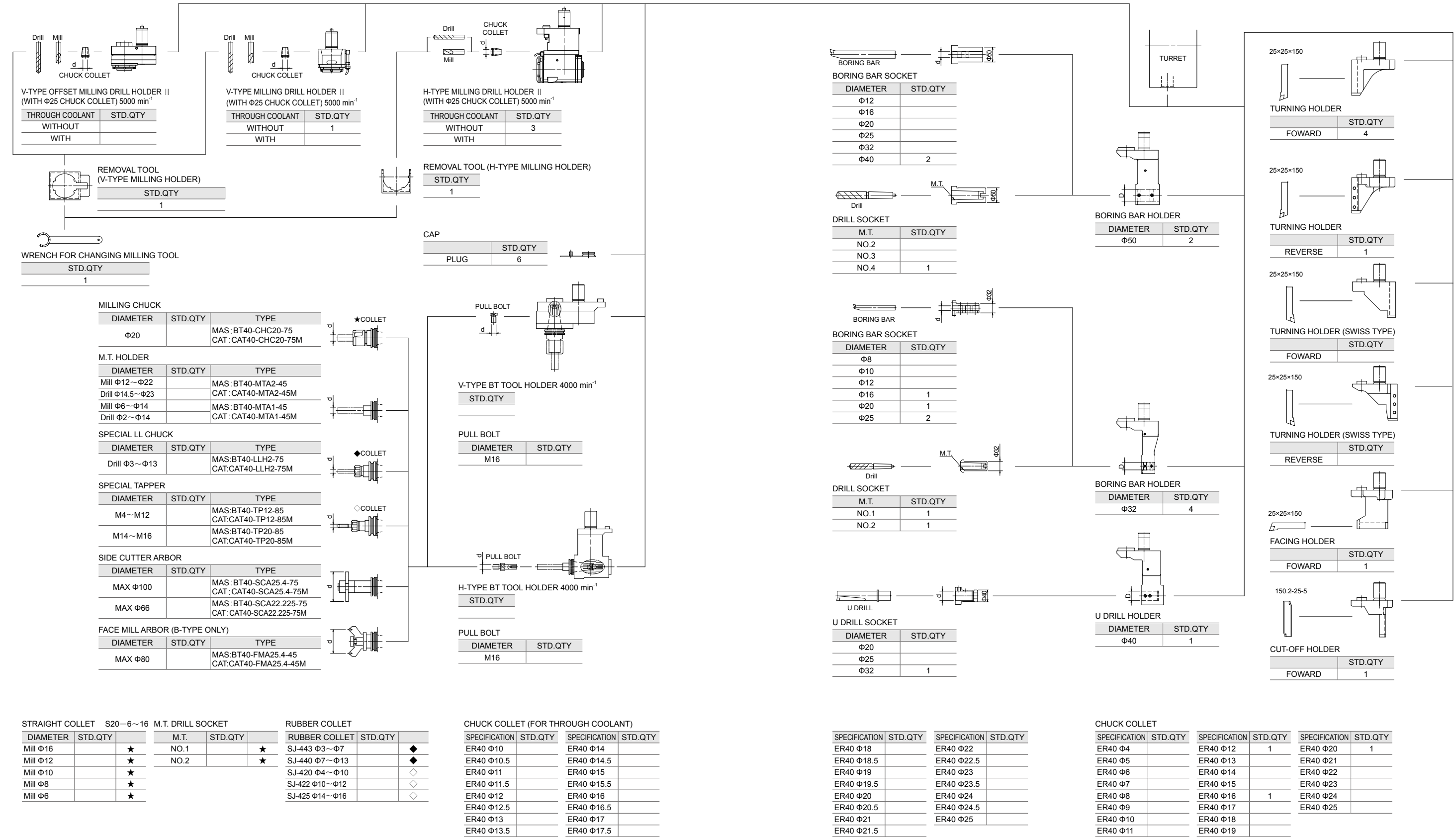
MULTIPLEX W-200, W-200Y 16 position drum turret (option)

unit : mm



MULTIPLEX W-300, W-300Y 12 position drum turret (standard)

unit : mm

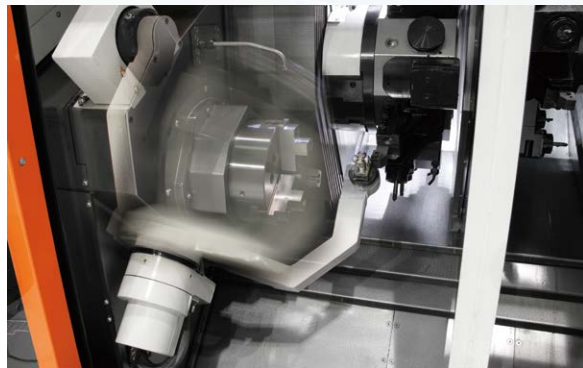


Standard and Optional Equipment

Automation

1 Tool eye

Tool setup is done by simply bringing the tool tip into contact with the tool eye, tool setup time is considerably reduced.



2 Automatic chuck jaw open / close L&R

This option automatically opens / closes the chuck jaws by program M-code such as when the machine is equipped with a bar feeder system or gantry robot. Automatic chuck open / close confirmation is necessary for this option.

3 Programmed chuck pressure control

Chuck pressure (5 levels) can be automatically changed by program M-codes, which is effective for machining various kinds of workpieces that need frequent chuck clamping pressure changes.

4 Double foot-pedal switch

The double foot-pedal switch is used to open / close the chucks of the main and second spindles separately.



5 Automatic opening / closing front door

The automatic opening / closing front door operates in 3 speed steps. If an operator inadvertently places a hand in the opening, operation will automatically stop when the door contacts his hand.

6 Automatic workpiece measurement

This function uses a turret-mounted touch sensor to automatically measure the inside and outside diameters, surface irregularity, etc. of the machined workpiece, to perform tool corrections, and to maintain machining accuracy during unattended operation. The swing arm type of automatic workpiece-measuring unit also allows highly accurate machining with a testcutting macro (NC option) to be started from the first workpiece.



7 Automatic power ON / OFF + warm-up (standard)

Using timer setting, power can be automatically turned on and off, as well as perform warm-up operation.

8 Status light (3 colors)

Consists of three lights: red for alarm, yellow for machining completion, and green for automatic operation.



9 Spindle orientation

This function is necessary to orient the spindle at a specified position in order to supply a square or hexagonal workpiece by a bar feeder, or to load / unload various-shape workpieces by a robot system.

10 Automatic center partition

The center partition installed in the machine allows the left and right sections of the machine to be used as completely separate machining systems without being affected by chips and coolant from the other side.



Coolant

11 Coolant system (standard)

The cutting fluid within the coolant tank is pumped up by the coolant pump, and is discharged from the nozzles of the turret.



12 Turret air blast

Air is discharged from a coolant nozzle of a tool holder mounted on the turret by an M-code command. This is effective for removing fine chips and cooling a workpiece if coolant is not used. This is recommended when using a bar feeder or robot system.

13 Additional coolant nozzle for headstock

Coolant is discharged from a nozzle located in the upper part of the machining area to remove chips from the chuck and workpiece and to minimize heat generated by cutting.



14 Mist collector

Mist coolant or oil is removed from the machining area in order to maintain a safe and clean working environment.

15 High pressure coolant system SUPERFLOW V30C-J

SUPERFLOW V30C-J features improved chipcontrol, lower tool tip temperatures, and longer tool life with faster spindle speeds and feedrates to realize higher productivity.

- Diaphragm Pump with exceptional energy efficiency
- High performance cyclone filter with minimum maintenance requirements
- Coolant pressure easily set by M-code (pressure range from 0 to 7 MPa)



16 Coolant temperature control

Coolant will become hot due to the heat generated by machining and may cause thermal displacement to machine components that can negatively affect machining accuracy. The coolant chiller unit maintains the coolant temperature to be the same as the room temperature, ensuring high-accuracy machining over extended periods of operation.

Chip disposal

17 Chip conveyor (rear disposal)

Chips are smoothly discharged outside of the machine. (Side disposal type is also available for MULTIPLEX W-300 / W-300Y.)

MULTIPLEX W-200, W-200Y Standard Machine Specifications

		MULTIPLEX W-200	MULTIPLEX W-200Y
Capacity	Max. swing	Φ320 mm	
	Max. machining diameter	Φ320 mm	
	Max. machining length	180 mm	
	Distance between spindles at Z-axis home positions	1220 mm	
	Max. weight ^{*1} : Chuck workpiece	300 kg	
	Bar work capacity ^{*2}	Φ65 mm	
Travel	X-axis	275 mm	
	Z-axis	Z1 : 490 mm Z2 : 525 mm	
	Y-axis	-	±50 mm
	C-axis	360°	
Spindle	Chuck size	8"	
	Number of spindles	2	
	Speed ^{*2}	5000 min ⁻¹	
	Number of spindle speed ranges	1-Stepless	
	Max. torque (40% ED)	325 N·m	
	Spindle nose / spindle bore	A2-6 / Φ76 mm	
Turret	Minimum spindle indexing increment	0.0001°	
	Number of turrets	2	
	Number of tools	12 position drum turret × 2	
	Tool shank holder	VDI	
	Tool shank height	25 mm	
	Boring bar shank diameter	40 mm	
Rotary tool spindle	Turret indexing time	0.23 sec / 1step	
	Speed	5000 min ⁻¹	
	Milling capacity	Dril : Φ20 mm Endmill : Φ20 mm Tap : M20 x 2.5	
Feedrate	Rapid traverse rate : X-axis	35000 mm/min	
	Rapid traverse rate : Y-axis	-	15000 mm/min
	Rapid traverse rate : Z-axis	42000 mm/min	
	Rapid traverse rate : C-axis	555 min ⁻¹	
Motors	Spindle motor (40% ED / cont. rating)	15 kW [20 HP] / 11 kW [15 HP]	
	Turrets rotary tool spindle motor (40% ED)	5.5 kW [7.5 HP]	
	Coolant pump motor	0.52 kW × 2	
Power requirement	Required power capacity (Cont. rating)	42.5 kVA	45.9 kVA
	Air supply	0.5 MPa, 780L/min	
Coolant	Coolant tank capacity	265 L	
Machine size	Height	2050 mm	
	Floor space requirement	3570 mm × 2170 mm	
	Machine weight	11100 kg	11200 kg

^{*1} Chuck weight is included ^{*2} Depends on chuck specifications

MULTIPLEX W-300, W-300Y Standard Machine Specifications

		MULTIPLEX W-300	MULTIPLEX W-300Y
Capacity	Max. swing	Φ430 mm	
	Max. machining diameter	Φ430 mm	
	Max. machining length	225 mm	
	Distance between spindles at Z-axis home positions	1470 mm	
	Max. weight ^{*1} : Chuck workpiece	450 kg	
	Bar work capacity ^{*2}	Φ80 mm	
Travel	X-axis	310 mm	
	Z-axis	Z1 : 615 mm Z2 : 615 mm	
	Y-axis	-	±77 mm
	C-axis	360°	
Spindle	Chuck size	10"	
	Number of spindles	2	
	Speed ^{*2}	4000 min ⁻¹	
	Number of spindle speed ranges	1-Stepless	
	Max. torque (40% ED)	808 N·m	
	Spindle nose / spindle bore	A2-8 / Φ91 mm	
Turret	Minimum spindle indexing increment	0.0001°	
	Number of turrets	2	
	Number of tools	12 position drum turret × 2	
	Tool shank holder	VDI	
	Tool shank height	25 mm	
	Boring bar shank diameter	50 mm	
Rotary tool spindle	Turret indexing time	0.24 sec / 1step	
	Speed	5000 min ⁻¹	
	Milling capacity	Dril : Φ25 mm Endmill : Φ25 mm Tap : M24 × 3.0	
Feedrate	Rapid traverse rate : X-axis	30000 mm/min	
	Rapid traverse rate : Y-axis	-	14000 mm/min
	Rapid traverse rate : Z-axis	28000 mm/min	
	Rapid traverse rate : C-axis	555 min ⁻¹	
Motors	Spindle motor (40% ED / cont. rating)	26 kW [35 HP] / 22 kW [30 HP]	
	Turrets rotary tool spindle motor (25% ED)	7.5 kW [10 HP]	
	Coolant pump motor	0.52 kW × 2	
Power requirement	Required power capacity (Cont. rating)	76.7 kVA	78.5 kVA
	Air supply	0.5 MPa, 755L/min	
Coolant	Coolant tank capacity	350 L	
Machine size	Height	2170 mm	
	Floor space requirement	4260 mm x 2385 mm	
	Machine weight	13500 kg	13800 kg

^{*1} Chuck weight is included ^{*2} Depends on chuck specifications

MULTIPLEX W-200, W-200Y Standard and Optional Equipment

Standard: ● Option: ○			
Machine	8" non-through-hole chuck N08A615 + Y1225–5Y	●	
	8" through-hole chuck B208A615 + SR1453C	○	
	8" through-hole chuck BB208A615 + SR1566C	○	
	Rotary tool spindle 10000 min ⁻¹	○	
	Polygon tool holder	○	
	16D turret (VDI)	○	
	Double foot pedal switch	○	
Factory Automation	Gantry loader system (GL-100 / GL-150)	○	
	Gantry loader	Pallet conveyor	○
		Pitch feed conveyor	○
		Rotary conveyor	○
	Workpiece unloader	○	
	Robot interface	○	
	Automatic workpiece measurement	○	
	Tool eye	○	
	Chuck pressure program management	○	
Factory Automation	Status light (1 color)	○	
	Status light (3 colors)	○	
	Machining end buzzer	○	
	Calendar type automatic power ON / OFF	●	
	Automatic front door	○	
Factory Automation	Spindle orientation	○	
	Automatic chuck jaws open / close	●	
	Chuck jaws open / close confirmation (position sensor)	●	
	Chuck air blast	●	
	Automatic center partition	●	
	Absolute position detection	●	
	Coolant temperature control	○	
	Scale feedback	○	
	Chip conveyor (rear discharge / Hinge)	○	
	Chip bucket (rotary)	○	
Coolant / chip disposal	Chip bucket (fixed)	○	
	Powerful coolant 1.1 kW	○	
	High pressure coolant 1.5 MPa	○	
	Superflow coolant system 7 MPa	○	
	Turret air blast	○	
	Additional coolant nozzle	○	
	Mist collector	○	
	Preparation for mist collector	○	
	Overload detection sytem	○	
	MAZATROL SmoothG	●	

Standard: ● Option: ○			
Machine	10" non-through-hole chuck N10A815 + Y1225	●	
	10" through-hole chuck B210A815F + SR1677C	○	
	10" through-hole chuck BB210A815 + SR1781C	○	
	Polygon tool holder	○	
	Double foot pedal switch	○	
Factory Automation	Gantry loader system (GL-200 / GL-300 / GL-400)	○	
	Gantry loader	Pallet conveyor	○
		Pitch feed conveyor	○
		Rotary conveyor	○
		Shuttle loop conveyor	○
	Robot interface	○	
	Automatic workpiece measurement	○	
	Tool eye	○	
	Chuck pressure program management	○	
	Status light (1 color)	○	
Factory Automation	Status light (3 colors)	○	
	Machining end buzzer	○	
	Calendar type automatic power ON / OFF	●	
	Automatic front door	○	
Factory Automation	Spindle orientation	○	
	Automatic chuck jaws open / close	●	
	Chuck jaws open / close confirmation (position sensor)	●	
	Chuck air blast	●	
	Automatic center partition	●	
	Absolute position detection	●	
	Coolant temperature control	○	
	Scale feedback	○	
	Chip conveyor (rear, side discharge / Hinge)	○	
	Chip bucket (rotary)	○	
Coolant / chip disposal	Chip bucket (fixed)	○	
	Powerful coolant 1.1 kW	○	
	High pressure coolant 1.5 MPa	○	
	Superflow coolant system 7 MPa	○	
	Turret air blast	○	
	Additional coolant nozzle	○	
	Mist collector	○	
	Preparation for mist collector	○	
	Overload detection sytem	○	
	MAZATROL SmoothG	●	