TAKAMAZ
GENERAL CATALOG
ENGLISH

De Sign

TAKAMAZ

Aiming for Carbon-neutral Production

The new TAKAMAZ plant (Asahi plant) is contributing to global environmental conservation by introducing energy-saving equipment including air conditioning systems that utilize solar power generation※ and well water. ※Scheduled to be installed sequentially from 2023

Environmental Technology Supporting Customers' Push Toward Carbon Neutrality

- **Increased energy conservation**
  (adoption of regenerative energy, high-efficiency motors)
- **More compact, increased space savings**
  Successful integration of loading units, oil mist collectors, chip conveyors, coolant temperature regulators, etc.
- **Defectives reduced by stable precision machining**
- **Cycle times shortened by speed increases**
- **Improved operability and maintainability**
- **Reduced number of structural components**

Lineup Realizing Process Integration and Productivity Improvements

Turning + grinding

SKV-8
Skiving machining

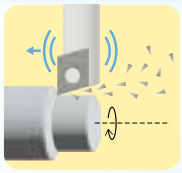
Compound machining

XYseries
Compound machining

Turning + hobbing

XT-8MY
Compound machining

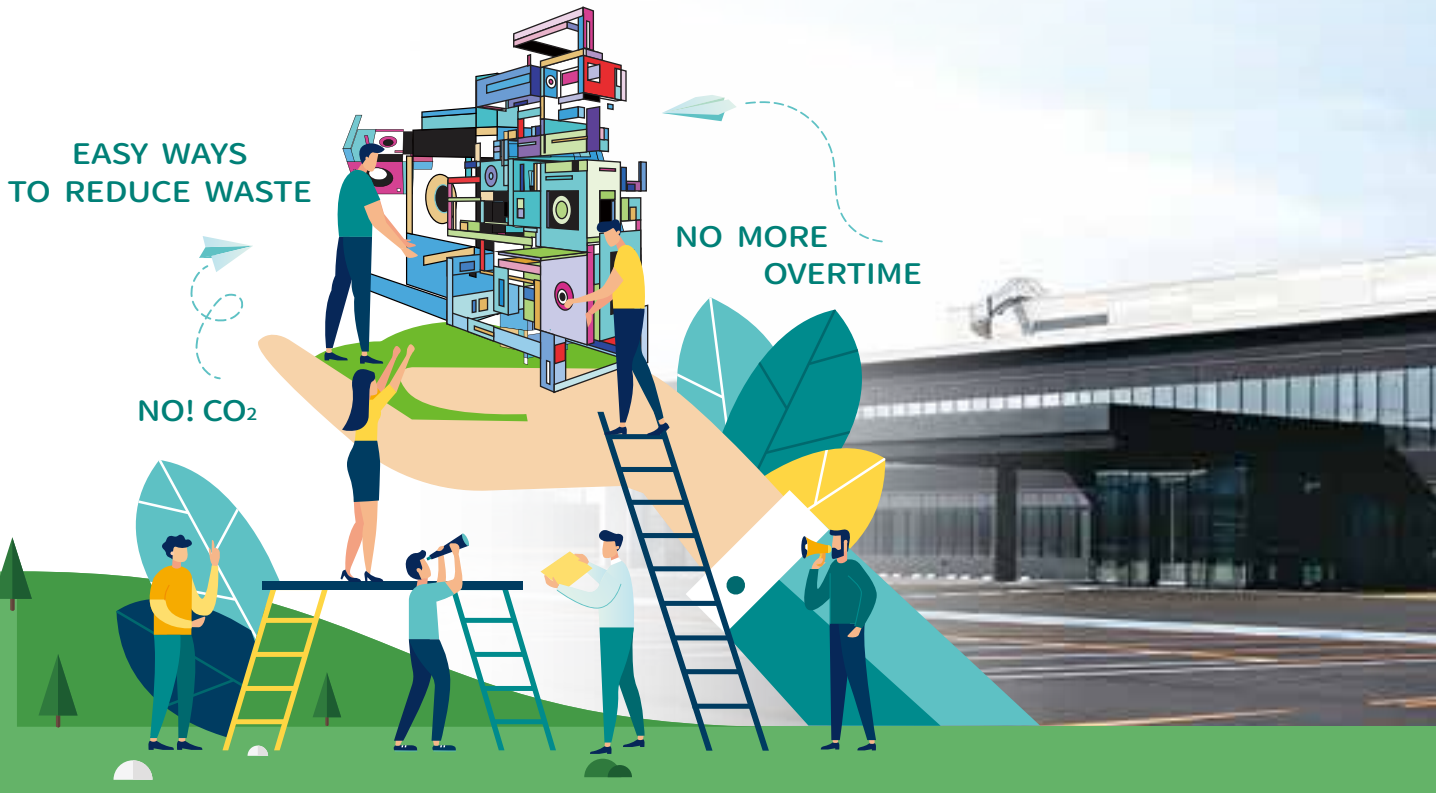
Ultrasonic vibration cutting



Chip breaking machining method

Operating system

T-Support System®
TAKAMAZ OS
F Loader System
Thermony® Spimony®



TAKAMAZ LINE UP

A New System at a New Plant

We will make products tailored to individual customers' needs based on a lineup that, in addition to productivity, considers everything from production efficiency and production space to the environment, durability and future-proofing.

"Starting Point of TAKAMAZ"
Integration of the Power of Technology.

X series

Standard of Single Lathes

Ideal for small part processing

XTS-6

6inch Chuck

Ishikawa Ecodesign Award 2024

Received the silver award in the product category at the Ishikawa Ecodesign Awards 2024

1-spindle **1**-turret

Our total production count is proof of reliability.
This is a TAKAMAZ standard that has evolved for single lathes.

XT-6 XT-6M

6(8) inch Chuck

XT-8 XT-8M

8(10) inch Chuck

Equipped with power tools and a Y axis

XT-8MY

8(10) inch Chuck

Xseries Machine Specifications

Item	Unit	XTS-6	XT-6 Standard	XT-6M Power tool type	XT-8 Standard	XT-8M Power tool type	XT-8MY	XTL-8 (NEW) 8-station Specifications(Standard)	XTL-8 (NEW) 12-station Specifications(Option)
Chuck size	inch	Collet,6	Collet,6(8)		Collet,8(10)		Collet,8	Collet,8(10)	
Spindle bearing I.D.	mm	ϕ75	ϕ75(ϕ85)		ϕ100(ϕ120)		ϕ100	ϕ100(ϕ120)	
Spindle speed	min^{-1}	Max.5,000	Max.4,500(6,000) (3,500)		Max.3,500(5,000) (3,000)		Max.4,000	Max.4,000(5,000) (3,000)	
Tool post type		8-station turret	8-station(12-station)turret	12-station turret	8-station(12-station)turret	12-station turret	12-station turret	8-station turret	12-station turret
Max. stroke	mm	X:120 Z:230	X:120 Z:280		X:190 Z:400	X:190 Z:420	X:175 Z:420 Y:+35、-40	X:190 Z:600	
Rapid traverse	m/min	X:18 Z:24	X:18 Z:24		X:18 Z:24		X:18 Z:24 Y:10	X:18 Z:24	
Spindle motor	kW	AC7.5/5.5	AC7.5/5.5(AC11/7.5)		AC11/7.5:ϕ100 3,500min^{-1} (AC15/11:ϕ100 5,000min^{-1}) (AC15/11:ϕ120 3,000min^{-1})		AC15/11	AC15/11	
Power tool capability Milling	mm	–	–	ϕ10	–	ϕ20	ϕ16	–	
Power tool capability Tap	mm	–	–	M6	–	M16	M16	–	
Dimensions (L×W)	mm	1,105 × 1,380	1,360 × 1,370		1,600 × 1,535	1,750 × 1,535	1,780 × 1,685	1,840 × 1,930	
Controller		TAKAMAZ & FANUC 0i-TF Plus	TAKAMAZ & FANUC 0i-TF		TAKAMAZ & FANUC 0i-TF Plus		TAKAMAZ & FANUC 0i-TF Plus	TAKAMAZ & FANUC 0i-TF Plus	

Can handle long shaft work
up to 598 mm

XTL-8

8(10) inch Chuck

NEW

Equipped with power tools and a Y axis

XTL-8MY

8 inch Chuck

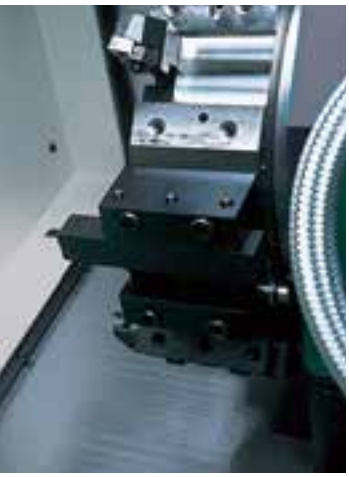
NEW

Equipped with power tools,
a Y axis and a sub-spindle

XTL-8MYS

8 inch Chuck

NEW



Capable of compound machining

XTT-500 XTT-500M

8(10) inch Chuck

XTL-8MY NEW	XTL-8MYS NEW Main-spindle	XTL-8MYS NEW Sub-spindle	XTT-500 Standard	XTT-500M Power tool type
Collet,8	Collet,8	Collet,6	Collet,8(10)	Collet,8
ϕ100	ϕ100	ϕ75	ϕ100(ϕ120)	ϕ100
Max.4,000	Max.4,000		Max.4,000(3,500)	Max.4,000
12-station turret	12-station turret		8-station turret × 2	
X:175 Z:550 Y:+35、-40	X:175 Z:550 Y:+35、-40 A:400		X:105 Z:450	
X:18 Z:24 Y:10	X:18 Z:24 Y:10 A:30		X:18 Z:24	
AC15/11	AC15/11	AC7.5/5.5	AC15/11(18.5/15)	AC15/11
ϕ20	ϕ20		—	ϕ10
M16	M16		—	M4 ～ M8
1,840 × 1,930	2,764(1,840※) × 1,965		1,695 × 1,830	
TAKAMAZ & FANUC 0i-TF Plus	TAKAMAZ & FANUC 0i-TF Plus		TAKAMAZ & FANUC 0i-TF	

※ Bed width ( ) :Options.

Number of turret stations
Gang type
Y-axis control
Power tool
Built-in spindle motor
Spindle C-axis indexing
Spindle Cs-axis indexing
Spindle indexing (electrical/mechanical)
Sub-spindle
Tailstock
CE type
Environmentally friendly design

From High Volume Machining to Heavy Cutting.
Revolutionary Machine with 2-Spindle and 2-Slide

XW series

2-spindle **2**-slide

Simultaneous machining of both or the same sides of the parts for total complete process machining.
The functions of two units within the space of a single unit.

Ideal for Small Part Processing

XWG-3

3inch/4inch Chuck

Received a Japan Institute of Design Award at the 54th Machinery Industrial Design Awards (IDEA) (Nikkan Kogyo Shimbun)

Integrating Various Process

XW-60 XW-60M

6inch Chuck

Fastest Loading Cycle in its Class

XW-130M

8inch Chuck

XWseries Machine Specifications

Item	Unit	XWG-3	XW-60 Standard	XW-60M Power tool type
Chuck size	inch	Collet,3,4	Collet,6(5)×2	
Spindle bearing I.D.	mm	ϕ60	ϕ75(ϕ65)	
Spindle speed	min⁻¹	Max.8,000(6,000※1)	Max.4,500(6,000)	
Tool post type		Gang type (Max.4 pcs.)	8-station turret×2	10-station turret×2
Max. stroke	mm	X:160 Z:230	X:125 Z:140	
Rapid traverse	m/min	X:16 Z:20	X:21 Z:18	
Spindle motor	kW	AC5.5/3.7	AC 7.5/5.5×2	
Power tool capability Milling	mm	—	—	ϕ13
Power tool capability Tap	mm	—	—	M4~M10
Dimensions (L×W)	mm	1,340 × 2,130	1,595(1,950)×2,005	1,695(1,950)×2,005
Controller		TAKAMAZ & MITSUBISHI M830VW	TAKAMAZ & FANUC 0i-TF	

NEW

Supporting center can be mounted

XWT-8

8inch Chuck

Received a JSPE（Japan Society for Precision Engineering）Monozukuri Award

Large Flange-Like Workpiece

XW-200

10inch Chuck

Large Flange-Like Workpiece

XWT-10

10inch Chuck

	XW-130M Power tool type	XWT-8 NEW	XW-200	XWT-10
	Collet,8 × 2	Collet,8	Collet,10 × 2	Collet,10 × 2
	ϕ100	ϕ100	ϕ120	ϕ120
	Max.4,000	Max.4,000	Max.2,800	Max.2,800(4,000)
	10-station turret× 2	8-station turret	8-station turret× 2	10-station turret× 2
	X:170 Z:220	X:150 Z:180	X:170 Z:220	X:170 Z:270
	X:24 Z:24	X:24 Z:24	X:24 Z:24	X:24 Z:24
	AC11/7.5 × 2	AC 11/7.5	AC18.5/15 × 2	AC18.5/15 × 2
	ϕ16	—	—	—
	M4～M10	—	—	—
	1,990(2,350※2) × 2,330	1,890(Overall width：2,250)×2,187	1,990(2,350※2) × 2,330	2,030(2,350※2) × 2,370
	TAKAMAZ & FANUC 0i-TD(0i-TF※3)	FANUC Oi-TF Plus	TAKAMAZ & FANUC Oi-TF	TAKAMAZ & FANUC 0i-TF

※1.Hydraulic specification ※2.Machine width with loader spec. ※3.Optional with power tools. ( ) :Options.

TAKAMAZ Compact Machines
Suitable for Compound Machining

XY series

Multi-**T**urning

Gang Type Precision Lathe
That Has Honed the Essentials.

GANG TYPE series

1-spindle **1**-slide

XG-4

XV-3

With 2 spindle and 2 turret, there are lots of possible cutting methods.
Complex parts can be processed at shorter amount of time.

Sub-Spindle + Power Tools

XYT-51

6inch Chuck

High-Accuracy Turning with Built-In Motors

XG-4

4inch Chuck

Fastest Loading Cycle in its Class

J-WAVE PLUS

4inch Chuck

Integration of Diverse Processes

XV-3

3inch /4inch Chuck

Won the Judges' Special Award at the 52nd Machinery Industrial Design Awards (IDEA)

XYseries Machine Specifications

Item	Unit	XYT-51			
		ϕ51 THRU,BMT45 specification		ϕ65 THRU,BMT55 specification(OP)	
		Main-spindle	Sub-spindle	Main-spindle	Sub-spindle
Chuck size	inch	Collet,6		Collet,8	
Spindle bearing I.D.	mm	ϕ100	ϕ85	ϕ120	ϕ100
Spindle speed	min^{-1}	Max.5,000		Max.4,000	
Tool post type		12-station turret,24ST,BMT45		12-station turret,24ST,BMT55	
Max. stroke	mm	X1:162.5 Z1:500 Y:±35 X2:170 Z2:500 A:550		X1:162.5 Z1:500 Y:+40 −35 X2:170 Z2:500 A:550	
Rapid traverse	m/min	X:18 Z:30 Y:12 A:30		X:18 Z:30 Y:12 A:30	
Spindle motor	kW	AC18.5/15/11	AC9/7.5/5.5	AC18.5/15/11	AC9/7.5/5.5
Power tool capability Milling	mm	ϕ13		ϕ20	
Power tool capability Tap	mm	M12		M16	
Dimensions (L×W)	mm	2,988 × 2,163		3,000 × 2,163	
Controller		TAKAMAZ & FANUC 32i-B			

( ) :Options.

GANG TYPE series Machine Specifications

Item	Unit	XG-4	J-WAVE PLUS	XV-3
Chuck size	inch	Collet,4		Collet,3,4
Spindle bearing I.D.	mm	ϕ65		ϕ60
Spindle speed	min^{-1}	Max.8,000	Max.4,500	Max.10,000
Tool post type		Gang type		Gang type
Max. stroke	mm	X:200 Z:250		X:160 Z:200 Y:265
Rapid traverse	m/min	X:18 Z:18		X:12 Z:24 Y:24
Spindle motor	kW	AC7.5/5.5/3.7	AC5.5/3.7	AC5.5/3.7
Dimensions (L×W)	mm	1,506 × 1,250(780 × 1,735※)		1,600(2.075) × 2,130 × 2,230
Controller		TAKAMAZ & MITSUBISHI M80		TAKAMAZ & MITSUBISHI M80

※When the loader is mounted.

( ) :Options.

A Simple Machine Best in Its Class among Manual Operated Machines, Focusing the Cost Performance.

Global Startegy Lathe

GSL series

1-spindle **1**-turret

Excellent Cost Performance

GSL-15 PLUS

8 inch Chuck

SKIVING MACHINE

1-spindle **1**-turret

A Machine Specialized for Skiving

Turning + Grinding on This One Machine

SKV-8

8 inch Chuck

Limited exclusively to domestic sales in Japan

GSLseries Machine Specifications

Item	Unit	GSL-15 PLUS
Chuck size	inch	Collet,8
Spindle bearing I.D.	mm	ϕ100
Spindle speed	min^{-1}	Max.3,500
Tool post type		8-station turret
Max. stroke	mm	X:175 Z:330
Rapid traverse	m/min	X:18 Z:24
Spindle motor	kW	AC7.5/5.5
Dimensions (L×W)	mm	1,875 (With tailstock : 1,990) × 1,680
Controller		TAKAMAZ & FANUC 0i-TF

SKV-8 Machine Specifications

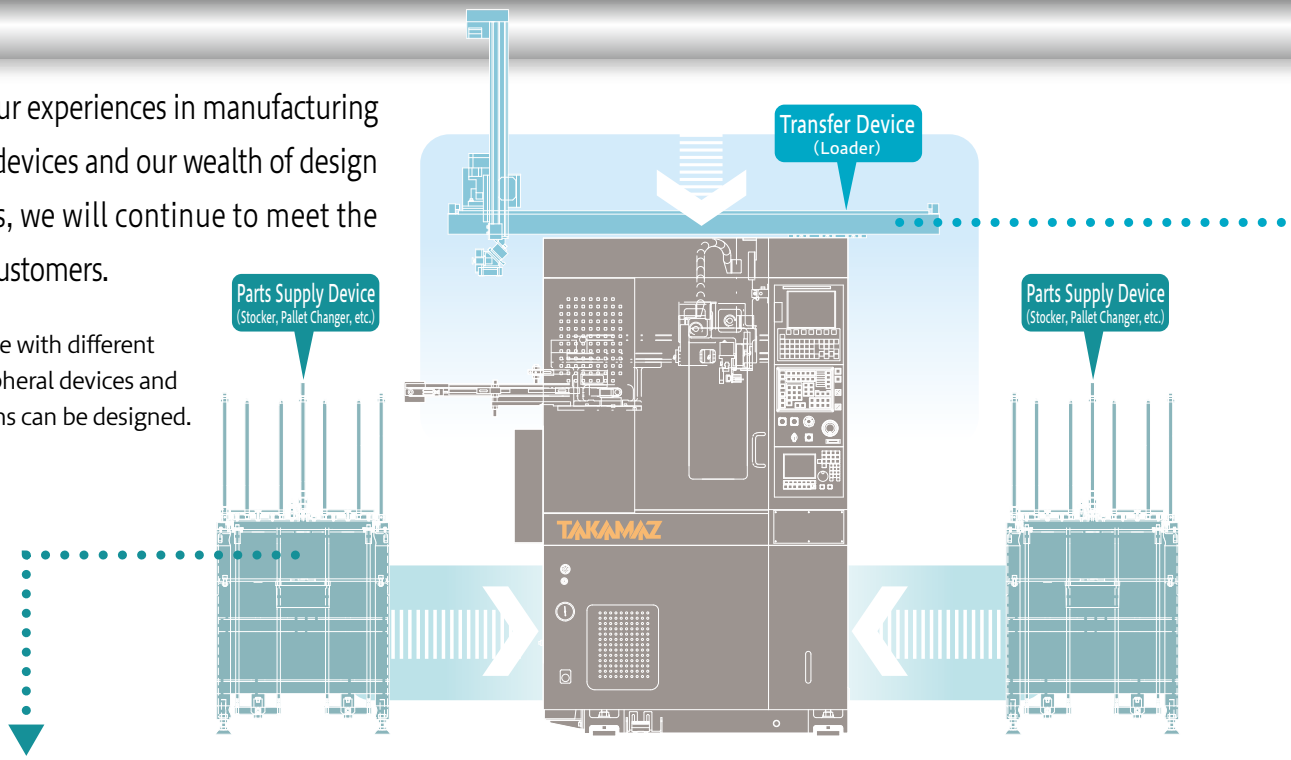
Item	Unit	SKV-8
チャックサイズ	inch	Collet,8
主軸軸受内径	mm	ϕ100
主軸回転速度	min^{-1}	Max.5,000
刃物台形状		12-station turret
最大移動量	mm	X:150 Z:400 Y:±35
早送り速度	m/min	X:18 Z:24 Y:12
主軸モータ	kW	AC 15/11
幅×奥行き	mm	2,270 × 1,690
制御装置		TAKAMAZ & FANUC 0i-TF

Customizable for unique specifications

OPTION SYSTEM

By applying our experiences in manufacturing of peripheral devices and our wealth of design achievements, we will continue to meet the needs of our customers.

A production line with different varieties of peripheral devices and loading variations can be designed.



EASY WAYS TO REDUCE WASTE

Automation Peripheral Devices

■Station Stocker
Flexible Multi-layer stocker to accommodate different part diameter sizes.

■Flat Stocker

■Stocker for Shaft Type Parts

■Parts Feeder
Workpieces can be stored together with the tray.

■Tray Changer
Workpieces can be stored in individual trays.

Quality/Environment Control Unit

■Cleaning Unit
Without operator intervention, cleaning is performed automatically.

■Measuring Devices
Feeds dimensional errors back to the machine to maintain high-quality dimensional accuracy.

■Oil Mist Collector
Oil mist collection facilitates a clean production environment.

■Automatic Fire Extinguisher
If fire breaks out in the machine during automatic operations, fire extinguishing agent is automatically discharged.

Cutting Efficiency/Chip Disposal

■Alloyed Clamp Holder for Vibration Suppression
Inhibiting the progression of wear boundary is expected to extend cutting tool life in high speed machining.

■Chip Conveyor

(Spiral Type)
Mounted on the rear side
Chip disposal is done semi-automatically in minimal space.

(Floor Type)
Mounted on the rear side
Chips are reliably discharged outside the machine.

■High-Pressure Coolant
Constantly cooled coolant is discharged at high pressure so that the tool life is significantly prolonged.

■Semi-Dry Machining
Ultratrace, highly-lubricating organic coolant is applied to the correct point on the cutting edge, realizing semi-dry machining.

LOADER SYSTEM

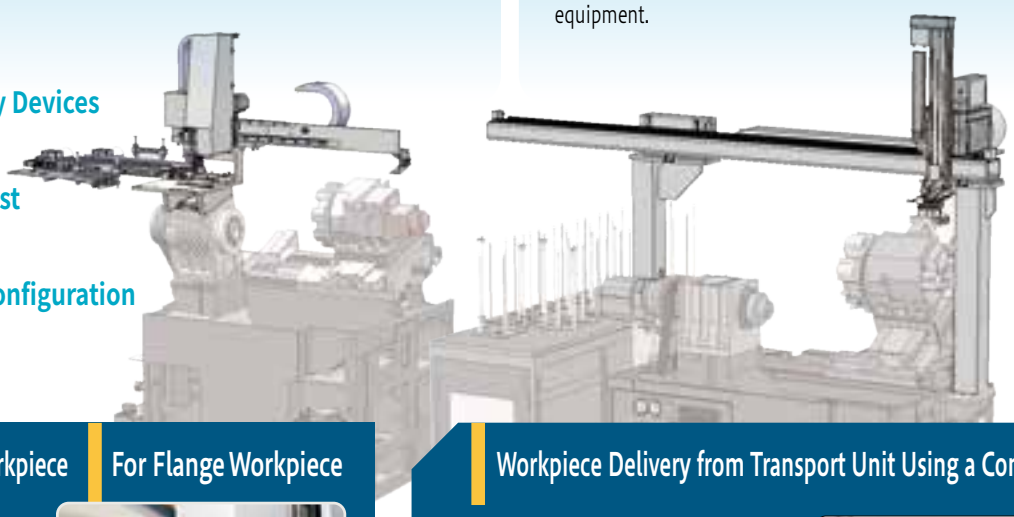
Encouraged from sales of more than 65 years, with "Integral loader" design philosophy in mind, TAKAMAZ will lead the consistent support service follow up and support system built on trust, leading to increased productivity.

Compact Loader

- Hi Speed Loader mounted on the machine to save space.
- A dedicated servo controller allows speedy setup.

Gantry Loader

- Gantry-type servo loader with high rigidity.
- The traverse distance can be extended, ensuring extremely flexible line configuration and systemization of peripheral equipment.



Space Saving Accessory Devices
Improving Durability
Pursuing of the Low Cost
Short Loading Time
Flexible System Line Configuration
Improving Operability

For Small and Short Workpiece

Parallel Hand

For Flange Workpiece

L Hand

For Front and Back Cutting Workpiece

Σi GTH Hand

For Shaft Workpiece

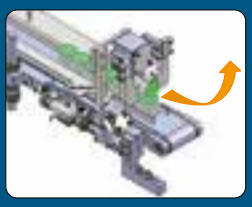
Pendulum Hand

Workpiece Delivery from Transport Unit Using a Conveyor

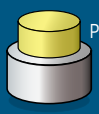
Vertically-Oriented Workpiece (For Machining the Bottom Face)

Processing Region

E Turn Device

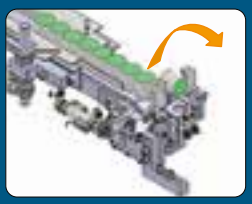


Standing Workpiece (For Cutting the Top Surface)

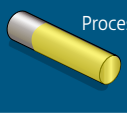


Processing Region

Y Turn Device

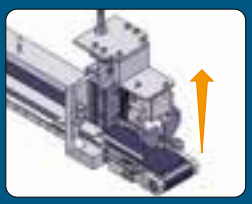


Horizontally Placed Small Diameter Workpiece



Processing Region

Pickup Device



TAKAMAZ Collet Chuck

The collet chuck developed and marketed under the TAKAMAZ brand is manufactured in the factory where an integrated system is used to streamline every part of the production, from machining to heat treatment.
Collet run-off accuracy conforms to TAKAMAZ standard, which is even higher than Japanese Industrial Standards (JIS), allowing us to provide our customers with exceptionally dependable products.

ServoROT® series

A Highly-Productive Robot System That Solves Your Problems!

This is a workpiece loading/unloading automation system that delivers the “simple operability” and “reduced setup time” required to deal with the issues posed by multiproduct, variable quantity production and the shortage of labor.
With the robot and material supply section developed as packages, the TAKAMAZ **ServoROT® series** doesn’t just improve productivity but also greatly helps to reduce the burden on the operator.

ServoROT-X1 NEW

Use of the FANUC CRX series collaborative robot, which does not require a safety fence, allows configuration of a safe and reliable supply system. In addition, the collet chuck can be changed.
∗Max. weight capacity: 20 kg
∗12-inch operation panel adopted

ServoROT-01

A multi-layer tray is integrated as a supply device, allowing prolonged unmanned operation.

ServoROT-00

A flat-type workpiece stocker is used to address flexible needs. The robot base is angled so as not to obstruct the space required for setup at the lathe.

Reduces Personnel Costs

This system loads/unloads workpieces with a robot that is integrated with a tray changer. It realizes unmanned operation day and night, and improves production efficiency by maintaining machining quality, ensuring stable loading, and allowing multi-machine control.

Wide Range of Variations

Based on this robot + tray changer system, we can meet various needs including washing units and gauging systems.

Simple Setup

With the integrated robot + tray changer construction, setup can be completed just by teaching on site.

Retrofitting Even to Previous Models

The system can be retrofitted to an existing machine provided there is a space of 1.8 x 0.9 meters in front of it. Consultations are welcome.

T-ECO Support

Environmental Considerations as Standard Specifications

Spindle Acceleration/Deceleration Time Fully Adjustable

The spindle acceleration/deceleration time can be adjusted as required to switch between operation that prioritizes cutting time and operation that prioritizes energy savings.

Acceleration/Deceleration Time Adjustable as Required

Example with spindle acceleration/deceleration set at 80%:

Power consumption −1% Cycle time +1%

* According to actual values measured by TAKAMAZ

* In lines comprising multiple machines in sequence, when there are waiting times for material loading due to differences in process cycle times, operation that prioritizes energy savings can be used effectively to achieve power savings without increasing the line cycle time.

20% Reduction in Power Consumption while Machine is Stopped

An "idle stop function" that automatically stops power supply to the hydraulic pump when the machine is stopped is now incorporated. This provides a power conservation effect when the machine is stopped, such as during machine setup work.

When hydraulic pump is OFF Power consumption −20%

* According to actual values measured by TAKAMAZ

Power Consumption Monitor

Energy usage can be managed at all times, including the power on time, production quantity, energy consumption, average power consumption per workpiece, and energy saving effect.
This helps to reduce the environmental load and manage running costs.

Production information (per-day basis)

Power consumption history

T-Support System®

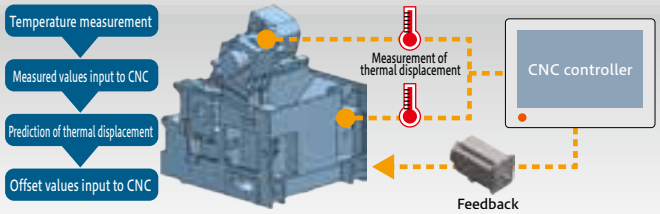
Constantly Monitors Machines and Automatically Corrects to the Appropriate Status!

Thermony®

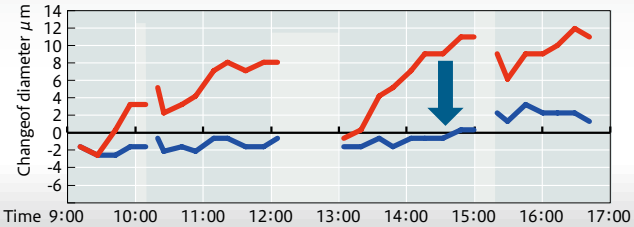
Patented

Thermal Displacement Compensation System

The machined dimension values change as the machine temperature changes due to the customer's conditions of use (machining conditions) and the environmental conditions (factory temperature, etc.). This system predicts the amount of thermal displacement based on the temperature changes at each part of the machine and provides compensation values to the CNC controller In order to minimize these changes in the machining dimension values.



Thermony applied - Amount of change = 6μm Improved by 60%

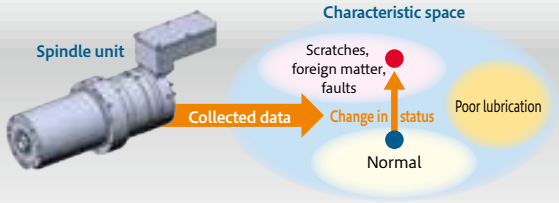


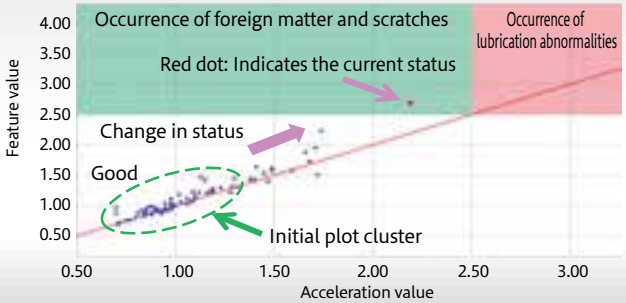
Spimony®

Patented

Spindle Condition Monitoring System

The application of machine fault diagnosis methods is difficult in many cases where existing threshold values are provided, because the threshold values differ for each machine. We have addressed this issue by providing a new method of diagnosis with a spindle status monitoring system based on the "characteristic space common among machines", which is determined using characteristic quantities.





T-Program Guide


XTS-6

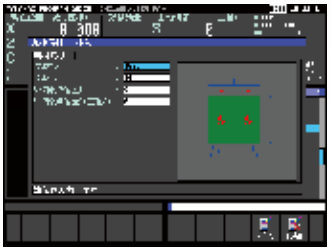
Programming Assistance Tool

The first requirement when mass producing parts using machine tools is setup. A lot of preparation is required, from understanding the shape of the material and creating a cutting program, to selecting and mounting the cutting tool and chuck. Unlike skilled workers, it takes time for inexperienced operators to master the know-how required for creating programs for cutting to the required accuracy in a short period of time, making full use of G-codes and so on. They will also be apprehensive about their ability to accomplisah the cutting using the completed program without any interference. To address this, we are introducing an assistance function that enables even operators with little experience to create programs without errors, called the T-PROGRAM GUIDE.

Programs can be created simply by entering the necessary information in order on the screen.

❶Workpiece settings

Enter the stipulated information, such as the material and dimensions.

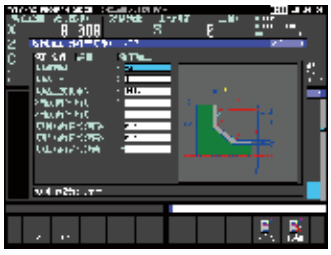


❷Tool condition settings

The cutting conditions are automatically selected according to the selected tool and workpiece material.

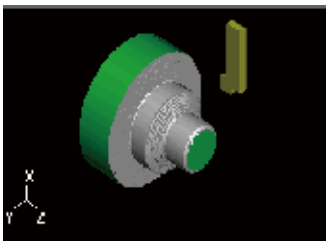
❸Cutting cycle settings

Cutting cycles appropriate for the tool to be used are displayed, allowing selection without faltering.



❹Simulation (MGi)

The created program can be checked through a simulated animation.



Functions allowing tool management and facilitating process editing are provided.

●Tool management

-Input of condition settings for each program is simplified by pre-registration of tool information (material, shape, T codes, etc.).
-Cutting conditions according to tool material and workpiece material are put in a database.

●Process editing

-Cycles and conditions can be checked for each process, thereby simplifying editing operations.
-Adding/deleting/replacing processes, and changing/editing cutting cycles can be done easily using soft keys.

*T-PROGRAM GUIDE is based on the FANUC manual guide.

Compatible models XTL-8,XTS-6,XT-6,XT-6M,XT-8,XT-8M,XT-8MY

F Loader System

Featuring Functions Unique to TAKAMAZ!

Realizes High Productivity through Increased Loader Speed and Shorter Machine Stoppage Times

Productivity improvement

- Traverse axis: **MAX.160m/min**
- Vertical axis: **MAX.160m/min**

Shorter Setup Times by Functions Unique to TAKAMAZ

Ease-of-setup improvement

- Loader system operation can be checked safely using handle operation.
- Two types of teaching methods are available to suit various situations.

Loader Speed Optimization Function for Energy Savings and Longer Service Life

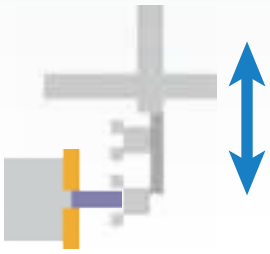
Energy saving functions

- By automatically optimizing the speed of the loader, loader energy savings and a longer loader service life are achieved.

Loader Size Display Function

When setting up after changing the workpiece, teaching can be completed by simply setting the workpiece size.

Y-Axis Automatic Adjustment Function



When teaching the loader, the Y-axis position can be automatically adjusted just by repeatedly opening and closing the fingers.

In Addition to a Touch Panel Giving Exceptional Loader Operability, a Servo System Made by FANUC Is Adopted.

TAKAMAZ OS

TAKAMAZ Technology Aids Productivity

- Functions for Better Working Efficiency in Addition to Conventional NC Screens
- Work Simplified by Automation of Operations and Network Function

Better Working Efficiency

Operator working efficiency improved, reducing production stoppage time

Keeping Track of Production Progress

Production count and tool usage count can be determined at a glance.

Display of Start Conditions

Operations to prepare for starting can be performed quickly.

Machine Stoppage Warning

Advance warning of the next machine stoppage is displayed based on the workpiece count, etc.

Camera Image Display (Option)

Makes it possible to check areas that are difficult to see, like the rear section of the machine.

Quality Control

Storing of traceability information per workpiece to assist quality control

The status of the machine during machining and can be checked and the information can be used for quality control and preventive maintenance.

Examples of Traceability Data

Times, motor temperatures, cycle times, program numbers, tool wear offsets, etc.

IT & IoT

Programs can easily be input and output between machines via the network.

Simple On-Screen Input/Output

No need to move between machines

No need for USB flash drives

No need for an external computer

PRODUCTS OF PARTNERS

F.T. Japan Inc.

F.T. Japan imports machines manufactured by FEELER, ECOCA, and LEADWELL from our affiliate FFG Group (Taiwan), the world's third-largest general machine tool manufacturer, and sells them.

■ General-Purpose Lathe SJ460 × 1000G

This is a general-purpose lathe manufactured by ECOCA. It has excellent cost performance and is available in a wide range of sizes. The apron handle position can be selected from either the left or right sides. Slides are hardened/polished. Equipped with an auto-feed stopper ring, machining that meets your needs can be accomplished.

Equipment sold by the TAKAMAZ Group will be fully supported by the TAKAMAZ service network.

TAKAMAZ

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