
JOURNAL 09
THE ULTIMATE MACHINING POWER
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GOODWAY
GOODWAY MACHINE CORP.

GOODWAY'S MANIFEST ON THE FUTURE

Starting from today and leading to the future, Goodway's ambition has always been to go beyond limits while being dedicated to improving our customers' satisfaction. What has kept us thriving for all these years are our constant innovative technology, sharp insight into the future, and unrivaled enthusiasm.
In the face of a new world after the pandemic comes with revolutionary trends in aerospace, new energy, smart manufacturing, medical cloud service, and other industries. Goodway is sure to continuously evolve the product lineup of turning centers and grinding machines, pushing the overall performance in quality, precision, and efficiency to the next level, we join hands with global customers to meet all future challenges together.

Multi-tasking Machines

Including 5-axis simultaneous processing technology, and one machine can directly complete turning, milling, and grinding. Any processing difficulties can be solved in Goodway's machines.

Smart Manufacturing

Advanced features such as G.LINC intelligent system, G.NET information integration system, Load Monitor, Smart Chuck Sensor serve as essential tools on the path to smart manufacturing

Automation Solutions

Our automation solutions include visual identification of the stocker, automatic loading and unloading system, articulated robot arm, precision detection etc.. We are confident in providing you the best solution on the market.

Turn-key Project

Through the trustworthy technique analysis and engineering development experience, we provide exclusive production lines for customers who demand high efficiency, multi-process, and mass production.

The Craft of Goodway

The quality of Goodway's turning centers comes from selfmade core components, self-processed castings and exquisite scraping skills. But most importantly, our 50 years of experience in the machine tools industry.

Environmental Protection

Goodway is starting to introduce low energy consumption technologies, including automatic dormancy of NC screens, intelligent operation of chip conveyors, LED lights etc. We've also developed precision lubrication to effectively reduce environmental pollution.

Supersized Machines

With FEM analysis, topology optimization analysis, and material science technologies, we could efficiently ensure the rigid conditions needed for supersized machines. These include HA series with a turning length of up to 10 m; Super GV series with a table diameter up to 8 m.

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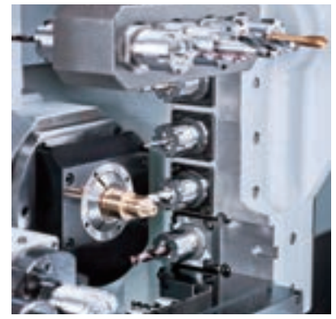


A corporation's responsible attitude lies in the lasting devotion to its customers and the environment.

A constant transforming Goodway join hands with our partners to meet future challenges.

Covid-19 brought about great waves in the political and economic field, reshaped industry structures while generating rapid development in electric vehicles, new energy, 5G communications, and medical cloud services. The next five to ten year is sure to be an era full of challenges and opportunities.

Goodway will constantly improving internal enterprise, launching our second expansion project in Chiayi plant and strengthening our sales network in emerging markets. With the successful introduction of TPS lean production, a new generation of ERP enterprise resource planning system, and high-performance human resource training courses, Goodway is determined in our abilities to face the future with our global customers.

In terms of product research, we are aiming to achieve intelligent, compound, and large-scale development, and has successfully launched the new generation models such as multi-tasking machines, multi-turret turning centers, swiss type turning centers and supersized vertical turning centers.

We look forward to the future where Goodway continues to stand proudly in the industry, developing and solving any processing needs of our customers.

Environmental sustainability starts from us

Carrying on the responsibility in an era of zero carbon emissions, green machine tools with low energy consumption, precise lubrication, and high efficiency circulating coolant tank system is now the priority of Goodway to refining the products. In terms of environmental friendly, we've continued to install solar panels our factory roofs, simplify packaging materials, and promote eco-friendly habits such as plastic reduction and water-saving to our colleagues. **Our goal is to implement ESG and lead our company to strive and grow with our nature.**

GOODWAY MACHINE CORP.
EDWARD YANG,PRESIDENT

Business philosophy

Outstanding Innovation & The Pursuit of Excellence

Chairman Mr. Edward Yang decided personally determined the spirit of his career early on,and based on this, determined the core values of the GOODWAY Group. He has successfully lead the group's decision making and development for many years.

PERSISTENCE

PERSISTENCE

Mr. Yang's management philosophy

Online order
(Traditional Chinese Version)

The proceeds from the book sales will be donated to social welfare organizations and disadvantaged groups.

SOCIAL RESPONSIBILITIES

The goal we value not only on creating maximum profits for our shareholders but also on improving the rights of our employees, customers, suppliers, and society; these are a vital part in sustainable development and a global citizen's social responsibility.

Environmental Sustainability

Solar power generation system

By 2024, all the roofs of Goodway's factories will be installed with solar panels, providing 4 million kilowatts of green electricity for the company every year, reducing carbon emissions by about 2,600 tons per year, which is equivalent to seven Taipei Da an Forest Park of carbon absorption every year.

Wind turbin

Devoted to offshore wind power supply system, including various processing machines, lifting devices, fixtures and other key production equipment.

Factory area afforestation

Green machine tools

- Energy-saving LED lighting
- Precise lubrication to reduce oil consumption
- NC screen automatic hibernate modelighting
- Intelligent chip conveyor
- Application of variable-frequency motor

Fulfilling Workplace

Human resource is the key to a progressive enterprise. Goodway believes in treating our employees as everlasting partners, other than improving wages and benefits, we are committed to building an equal, friendly, and collaborative workplace environment, so as every member holds a sense of honor to be part of the company.

Staff family day

Carnegie training

Modern work environment

- Employee shareholding trusts
- Earnings dividends
- In-service training
- Employment care
- Regular health checks
- Company trip
- Gym
- Free lunch

Social Participation

Yang Wenxu charity foundation

In 2008, Chairman Mr. Yang established the "Yang Wenxu Charity Foundation" in his father's name to express his gratitude to his parents. The foundation is dedicated to take care of the disadvantaged, spreading Chairman Yang's ambition to give back to society.

Joins the battle against Covid-19

Charity fundraising

Promote filial piety

Sponsor FM97.7 Classical Music Station to produce and broadcast the album, which mainly promotes the virtue of gratitude and kindness for the family and has received positive respond from the audience.

Tourism promotion

Participates in the "Taiwan Lantern Festival" with the corporate image lantern and strive to promote the development of the local tourism industry.

Cooperation Between Industry and University

Goodway "Precision Machine Tools " Competition

In order to encourage students to join the machine tools industry. The competition has been held in cooperation with NCHU every year since 2012. An accumulation of more than 800 teams and 3,000 participants from home and abroad to participate. The final day in October every year has become a major event between the departments of universities.

Internship courses

Sponsors NCHU's tool machine building

Cultivate industrial technical talents :

- Set up a classes for cooperative education.
- Open factory visit for students to experience the workplace.
- Donate machine tools to schools for education.

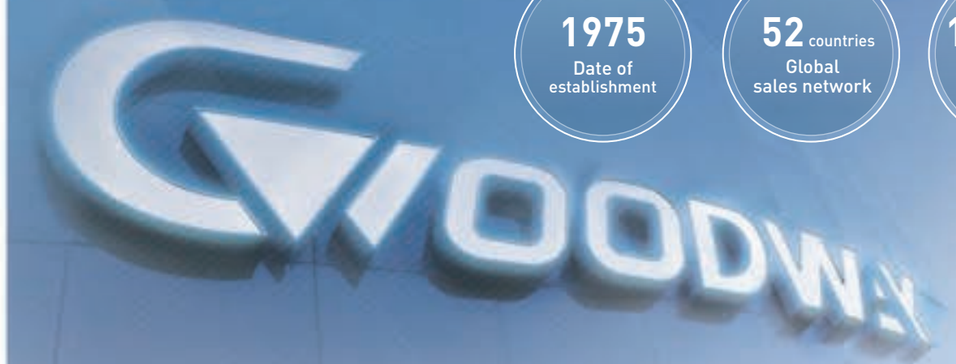
OPERATION CENTERS

Operation centers of Goodway are located in Taichung, Chiayi, Suzhou cities in East Asia. And the marketing network covers 52 countries around the world, with more than 80 professional agents, including YAMA SEIKI, our North America sales and service center established by the group. Goodway's goal is to ensure immediate and effective technical support and warranty maintenance for all our end users through our complete sales network. We hold this standard to all our agents, as promised to our customers.

1975
Date of establishment

52 countries
Global sales network

196,000 m^2
Total factory area



HEADQUARTERS

TAICHUNG · TAIWAN

Processing and assembly of key components

Area : 18,600 m^2

CTSP BRANCH

TAICHUNG · TAIWAN

Manufacturing of turning centers and grinder

Area : 26,600 m^2

CHIAYI BRANCH

CHIAYI · TAIWAN

Manufacturing of vertical turning centers

Area : 60,000 m^2

YAMA SEIKI USA, INC.

LOS ANGELES · CALIFORNIA

Sales and service center

Area : 24,000 m^2

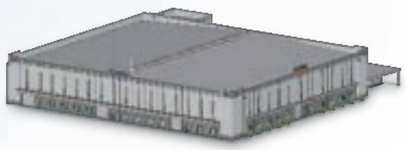
WUJIANG BRANCH

WUJIANG · SUZHOU

Manufacturing of turning centers

Area : 66,800 m^2

CHIAYI BRANCH PHASE II



CHIAYI · TAIWAN

Assembly of key components

Area : 18,000 m^2

HISTORY

1975
Goodway was established with a capital of 1.5 million NTD and a factory area of 130 m².

1976
First Lathe Manufactured – The TMB-25 Series Designed by President Yang himself.

1987
Completed the development of GCL-2 CNC lathe, accumulated sales record of more than 10,000 units.

2000
Established US operation base YAMA SEIKI, USA.

2008
- Company public listed in Taiwan stock market.
- Completed Taichung Science Park Plant and began full operation.

2012
Cooperation with NCHU to hold the first annual of "Precision Machine Tools" Competition.

2014
Completed Wujiang Plant and began full operation.

2018
Completed Chiayi Plant and began full operation.

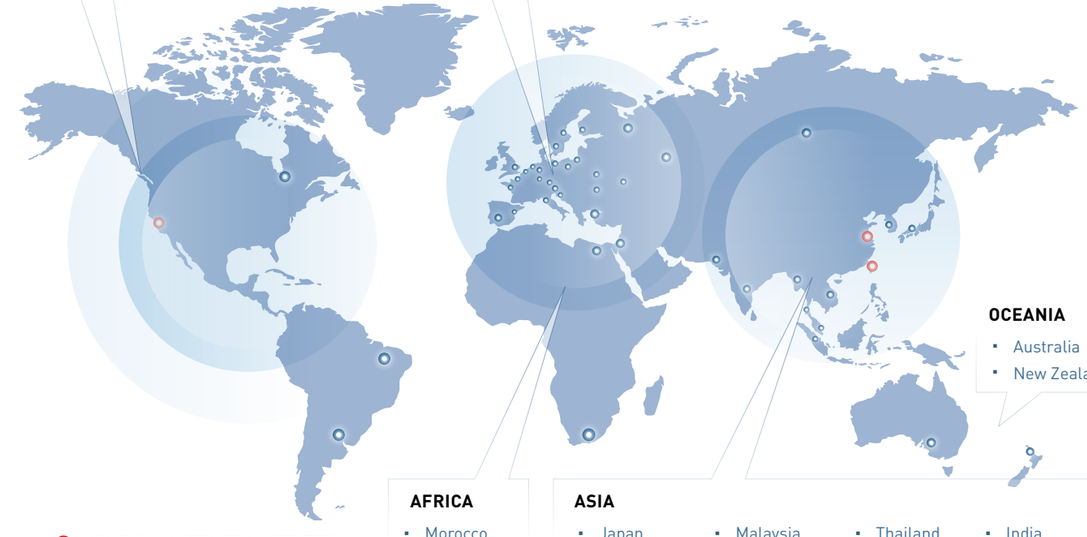
2020
Invited to participate in the "Taiwan Best International Brand Survey" and was honored the Potential Star Award.

2022
With 50 years of Goodway's R&D technologies and manufacturing experience, the GMT series 5-axis multi-tasking machine was officially launched.

Global Sales Network

AMERICA
- U.S.A
- Canada
- Mexico
- Chile
- Paraguay
- Brazil
- Argentina

EUROPE
- Turkey
- Sweden
- Denmark
- Finland
- Norway
- Ireland
- England
- France
- Germany
- Netherlands
- Switzerland
- Luxembourg
- Belgium
- Italy
- Spain
- Portugal
- Hungary
- Czech
- Poland
- Bulgaria
- Romania
- Russia
- Ukraine
- Slovenia
- Croatian
- Lithuania
- Latvia
- Estonia



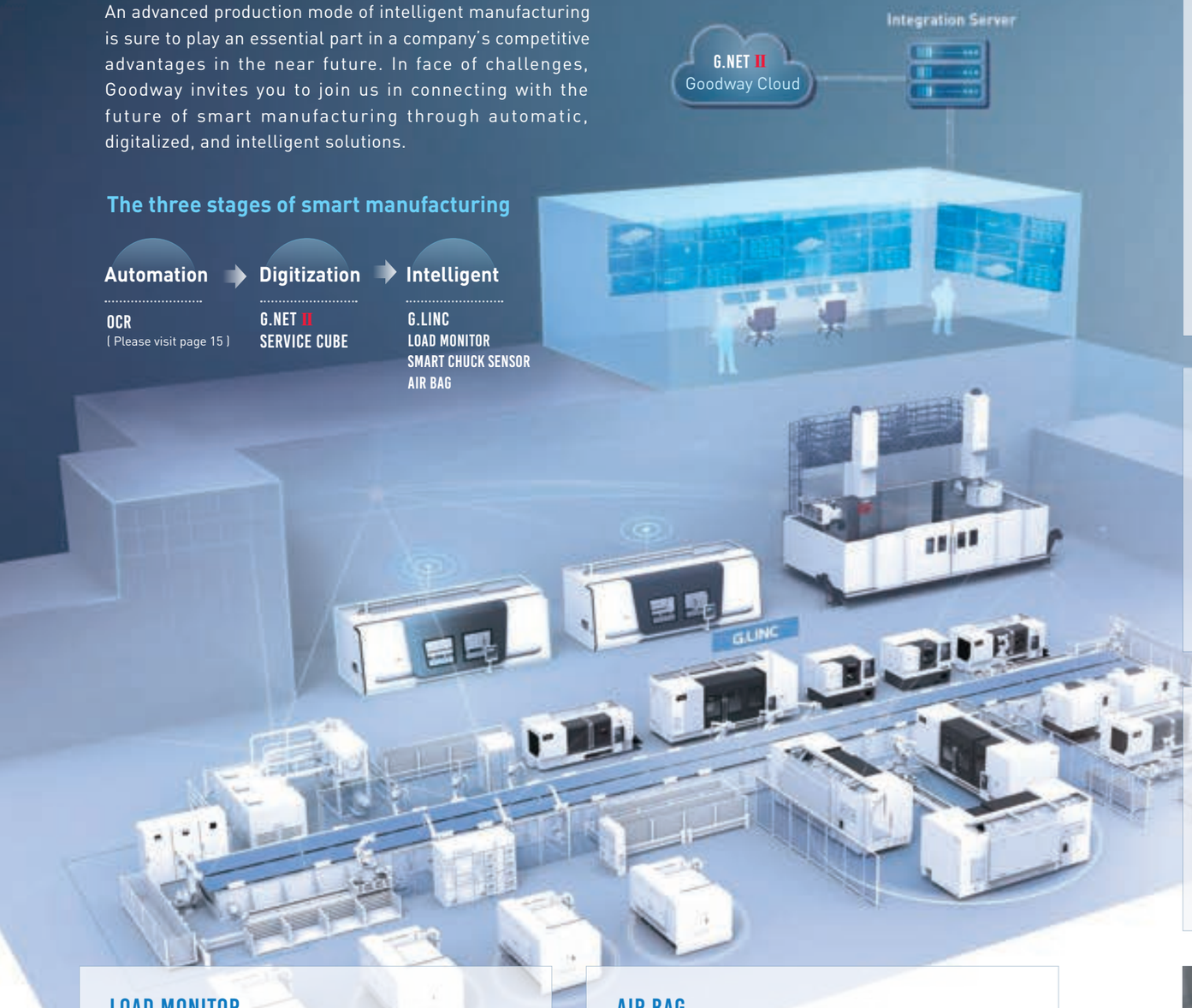
SMART MANUFACTURING

An advanced production mode of intelligent manufacturing is sure to play an essential part in a company's competitive advantages in the near future. In face of challenges, Goodway invites you to join us in connecting with the future of smart manufacturing through automatic, digitalized, and intelligent solutions.

The three stages of smart manufacturing

Automation → **Digitization** → **Intelligent**

- Automation: OCR (Please visit page 15)
- Digitization: G.NET II, SERVICE CUBE
- Intelligent: G.LINC, LOAD MONITOR, SMART CHUCK SENSOR, AIR BAG



SERVICE CUBE

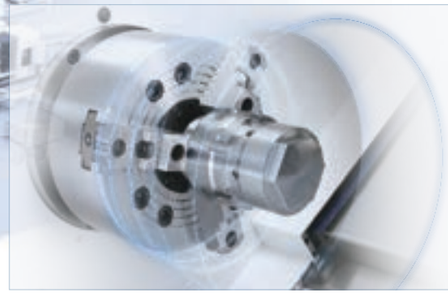
Via service cube, no matter where you are in the world (as long as internet available), you can do machine setting, monitoring, maintenance, upload / download program, etc.. Machine maintenance efficiency can be increased, manpower and traffic cost can be decreased.

Machine with Service Cube

Machine without Service Cube

INTELLIGENT OPERATING SYSTEM G.LINC

Machining preparation	Program editing	Machining	Adjuvant function
· Ultra fast tool selection	· Adjuvant of G/M code	· Load monitor	· Data record
· To memorize MDI program	· Graphical procedure management	· Tool life time	· Maintenance Warn
	· Manual Guide *i*	· Machined parts counter	· Prt Scrm record
		· Visible servo observation	· Memo / e Book (Please visit page 11)



SMART CHUCK SENSOR

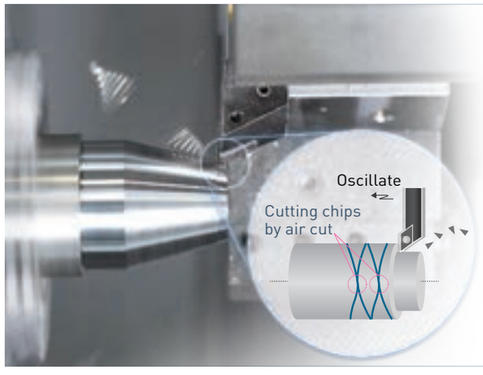
When changing different diameter of parts, only do simple setting on controller then can adjust checking positon. Not only ensure the spindle, chuck clamping / unclamping function but also without complicated procedure by traditional manual method.

LOAD MONITOR

Load monitoring function can be check the abnormal tool load via detecting the electric current variation of spindle and servo motor when turning. When abnormal loading occur, if achieve tool life, machine will stop when program end (M30); If achieve wear value, machine will immediately pause the feedrate but spindle not stop.

AIR BAG

The load of servo motor can be detected in real time. When the load is at an abnormally large value (such as in case of machine collision), the system immediately shifts to emergency stop mode and retract servo axes in the meantime. Such immediate risk control mechanism can save the cost of machine repair and diminish production loss.



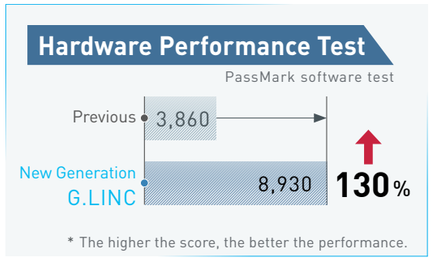
OSCILLATING CHIP REMOVAL (OCR)

OCR oscillating cutting function is to air cut fine chips while oscillates the slide axis fully synchronized relative to spindle rotation. No mechanical failure occurred due to entangled chips which enhances machine effectiveness.

G.LINC

INTELLIGENT OPERATING SYSTEM

User-friendly app and superior hardware allow you to get all-around support from program simulation, processing implement, to precautionary maintenance, satisfying your needs to increase production and labor simplification. Moreover, graphical interface design makes operating the G.LINC system as simple as a few clicks on a mobile device, a beginner with no experience can easily get started.



Features

Main Functions

Tool loading monitor

Tool load monitoring is able to setup individual trigger alarms for different tools, which actively prevents collisions caused by tool damage.

Tool life monitor

By monitoring the machining or running time of the tool, the operator will be alerted before the wear value reaches the set value, so the operator does not need to monitor the tool status consistently,which greatly reducing the workload.

Tool anti-collision (Opt.)

Maintenance manager

Data Logger

FANUC tree

Servo viewer

Remote Assistance

G/M code guide

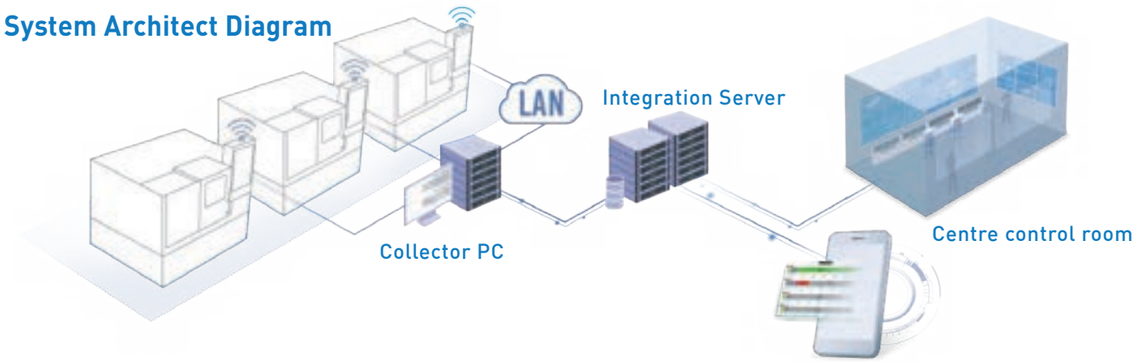
Trigonometric functions

G.NET II

PRODUCTION INFORMATION INTEGRATION SYSTEM

- > High-security regional network architecture.
- > The system automatically collects processing data after connection.
- > Automatically generates analysis reports to improve factory management.
- > Synchronized monitoring function on website which prevents space restrictions and allows real-time monitoring of the production line.
- > Complete history of caution alarms, that helps trace back all historical records of abnormal warnings.

System Architect Diagram



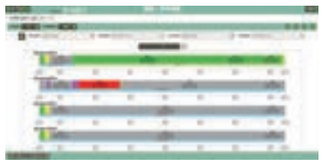
Factory Top View Diagram

Simulation of the factory production line by arranging and positioning each machine, so the real-time operation of all machines in the area is clear at glance.

Real-time Status Monitor

A complete status list of the number of processed pieces, the current program name, fan status, etc. Also, the items to be monitored can be set according to the needs.

Operation Report



Display status of each machine in chronological order, including in progress, alarm, disconnection, etc. Users can also track back to a specific time to check the historical status.

Alarm History

The alarm history database provides two different search modes according to the condition and time, which helps users effectively identify the reason for the alarm and remove it.

Program History

Keeps a record of the operation program and execution time and supports the output of CSV format files help review the efficiency of the program and whether any adjustments are needed.

Program Transmission

Supports two-way transmission of NC data between the server and machine, including processing programs, parameter files, which can also be used as machine data backup.

COMPREHENSIVE PROCESSING SOLUTIONS

From 500 kilometers above the surface to 500 meters below the sea.

All achievements in the development of our society have traces of Goodway's turning centers to assist in the production.

For Complex Parts

With 9-axis control and 5-axis simultaneous machining capabilities, the GMT series can easily complete complex workpieces that are difficult to process with general turning centers on the market.

Milling Spindle · Lower Turret

GMT series

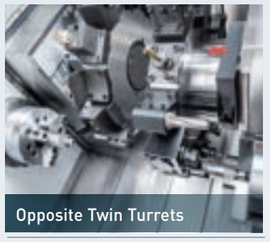
In response to the demand for high-efficiency mass production, Goodway's multi-axis turning centers can complete the front and back processing of the workpiece automatically in a single machine. The processing capacity is equivalent to 2 turning centers.

Turret · Gang Tooling

GTW series

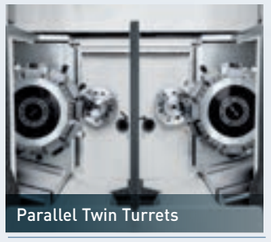
Upper & Lower Turrets

GTZ series



Opposite Twin Turrets

GTS series



Parallel Twin Turrets

GTH series

For Micro Parts

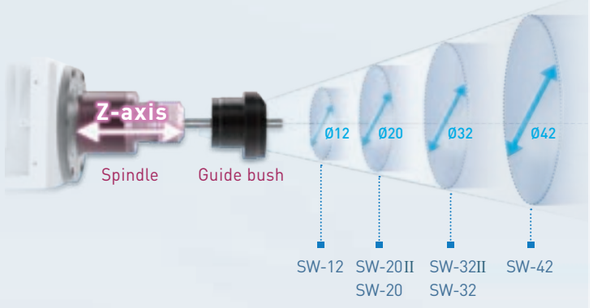
Goodway's Swiss type turning center is specifically designed for micro part production. It has an abundant tool quantity and flexible tool system, fulfilling your any machining needs.

- Hybrid guide bush design, guide bush can be attached and removed easily, allowing the machine to be used both ways.
- 1 ~ 2 deep-hole tool post attached on sub-spindle body.
- B-axis live tool holder allowing fixed angle hole drilling and continuous contour machining.
- Tool holder for back working enables Y_2-axis control, allowing offset drilling and tapping.

* Above may be optional function.

// Max. turning diameter

Unit : mm



// Sample work-piece

Medical probe

SW-12 Machining Equipment

Ø1 mm Bar Diameter

Minimum turning diameter Ø 0.4 mm

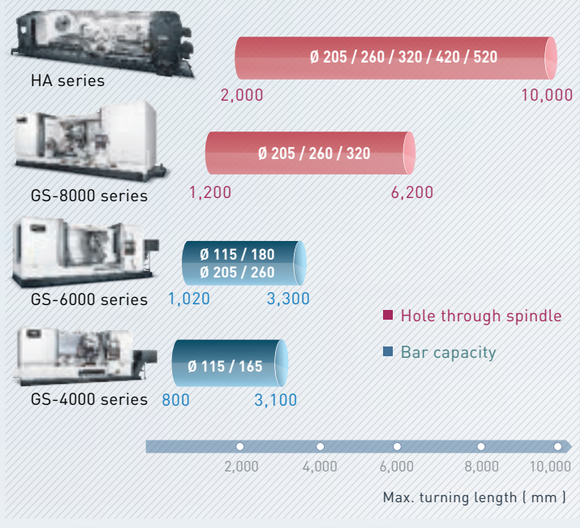
For Long Parts

Based on high-rigidity Meehanite casting base, box way structure and equipped with manual / automatic steady rest, programmable / servo drive tailstock. Goodway's horizontal turning centers provide sufficient rigid support for long-shaft workpiece to ensure the ultimate machining accuracy.

Programmable Tailstock

Hydraulic Steady Rest

Dual chucks clamping



For Heavy Parts

Goodway's vertical turning centers are known in the market for it's high rigidity and powerful spindle. The whole series is mainly divided into two series of hydraulic chuck and work table. Maximum load ranges from 20 kg to 300,000 kg, fulfilling the machining needs of the automobile,energy, and aerospace industry.

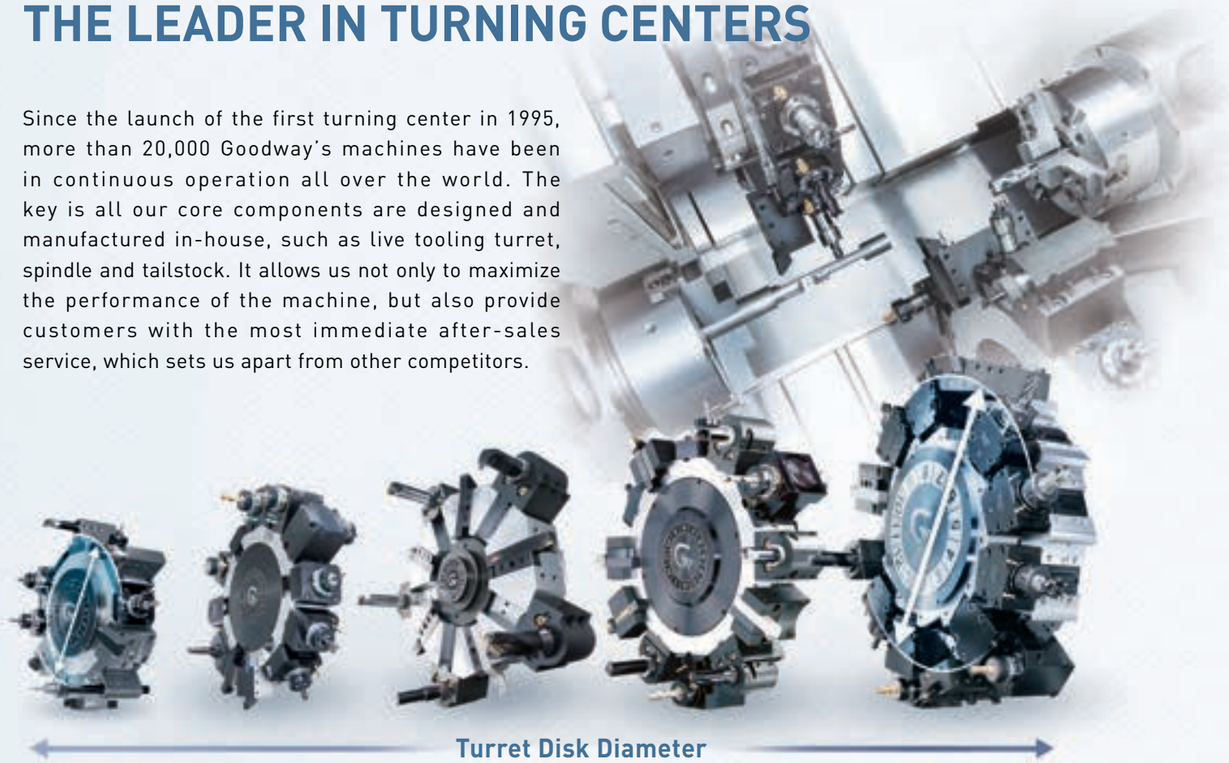
Hydrostatic Bearings

Hydrostatic bearings combines ultra-high rotation accuracy and load capacity, and are specified for Goodway GVB ultra-large vertical turning centers series.

// Goodway's vertical turning centers lineup

THE LEADER IN TURNING CENTERS

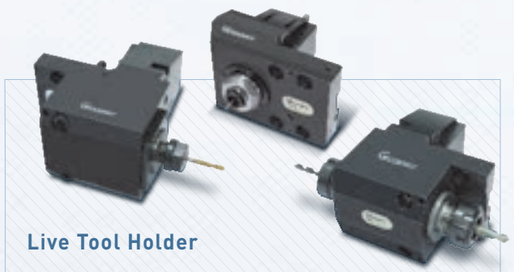
Since the launch of the first turning center in 1995, more than 20,000 Goodway's machines have been in continuous operation all over the world. The key is all our core components are designed and manufactured in-house, such as live tooling turret, spindle and tailstock. It allows us not only to maximize the performance of the machine, but also provide customers with the most immediate after-sales service, which sets us apart from other competitors.



Live Tooling Turret

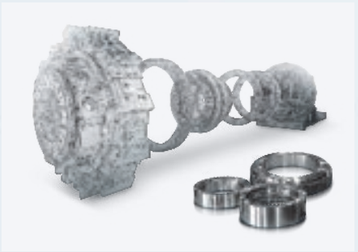
All Goodway's turning centers are equipped with specially designed live tooling turrets, which not only matches the machine perfectly, but also comes with the following extraordinary features：

- Servo index turret disk, providing quick tool change and precise positioning.
- High power milling spindle motor with abundant torque output.
- Multi-piece curvic coupling for precise positioning of the turret disk.
- Reduce accidental collision damage through torque limiter.



Live Tool Holder

The live tool holder is manufactured by a well-known German manufacturer, which can fully match the powerful performance of Goodway's live tooling turret .



Curvic Coupling

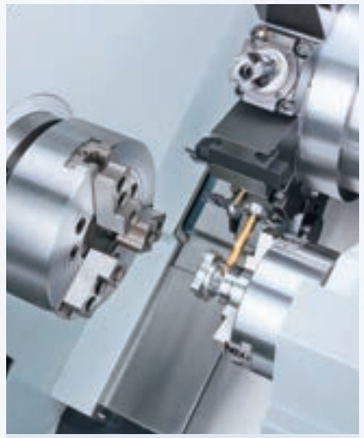
Curvic coupling and precision gears are purchased by Japan famous company.

Servo Index Turret

Index movements are single step, without pauses, no matter how many stations are skipped.

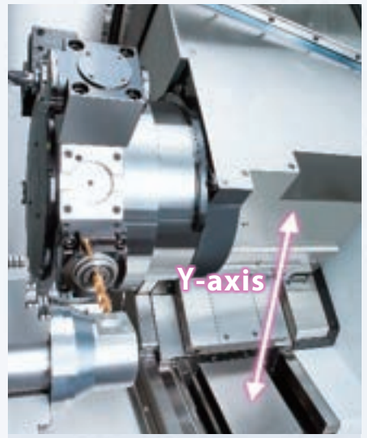
Automatic oil mist lubrication

Efficiently lowers the temperature rise of transmission mechanism to ensure the speed of milling spindle.



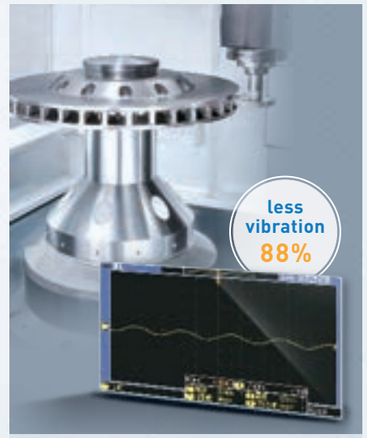
Rear-end Machining

The sub-spindle automatically processes the rear-end after receiving workpiece from the main spindle; effectively saving manpower to flip the workpiece manually, thus avoiding accuracy error caused by secondary positioning.



Y-axis Control

Y-axis control further enhances multi-tasking live tooling capabilities and improves various machining precision. High precision grooving and X-axis off-center drilling are enabled.



Workpiece Balancing Analysis

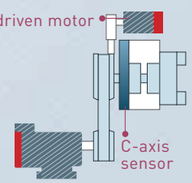
Goodway's online workpiece balance analysis system integrates dynamic balancing machine functions within turning center, improving production and inspection efficiency.

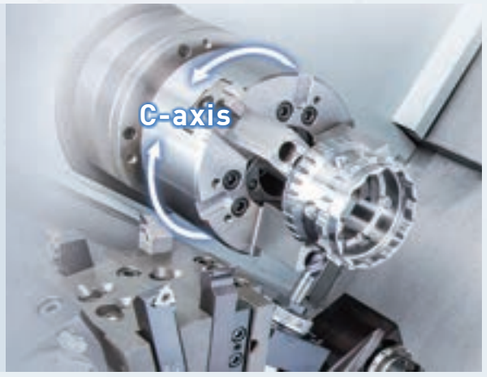
C-axis Control

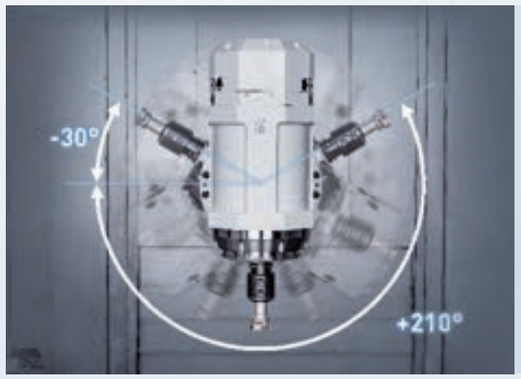
Live tooling turret with C-axis enables turning, milling, drilling, and tapping in a single machine.

New generation Cf-axis technology

The new Cf-axis combines the pros of Cs and Cf axis, which obtains both rigidity and precision, live accuracy reaches 0.00167°.







Milling spindle

The milling spindle comes with many features such as high speed, high power, low interference, etc.; it can continuously index every 0.0001° within the 240° B-axis travel range. Not only to perform heavy cutting on fixed angle, but also perform 5-axis simultaneous machining, with extremely flexible processing capabilities.

SOLUTIONS FOR HIGH-EFFICIENCY MASS PRODUCTION

Automatic Systems

Goodway is able to customize and execute any automatic production solution according to your engineering drawings. Such confidence comes from many years of experience in process analyzing and outstanding mechatronics capabilities we have.


Accuracy Detection Device


3D Area Sensor


Parts Flipping Device


Auto Door & Light Curtain


Parts Catcher


Tool Presetter

Automation Planning

CUSTOMER — GOODWAY

Analysis Drawing ▶ Select Model ▶ Machining Process ▶ Automation Plan ▶ Optimization Design ▶ Integration ▶ Inspection and Test ▶ Delivery

Turn-Key

As the need for mass production of multi-processing parts continues to grow, Goodway specifically designs high-efficiency production line through our rich engineering experience, that completes input and output in one go and reduces labor need for our customers.


Auto. butted device


Specialized chuck


WorkPiece lean platform


Workpiece determining device


Trimmings device


Integrated capability

ALLCOOL SYSTEMS High Pressure Coolant Systems

Machining Speed
- Cutting speeds can be increased up to 20% or more.
- Reduce machining cycle time up to 70%.

Machining Precision
- Improved cutting accuracy with excellent surface finishes.

Chip Removal
- Excellent in deep-hole machining with best chip removal capability.

Tool Life
- Extend tool life up to 25% to 400%.
- Breakthrough the vapor barrier for tool-tip heat removal.

R series
Max. Pressure：100 Bar
Max. Flow Rate：53 LPM

SP series
Max. Pressure：140 Bar
Max. Flow Rate：19 LPM

MB series
Max. Pressure：35 Bar
Max. Flow Rate：26 LPM

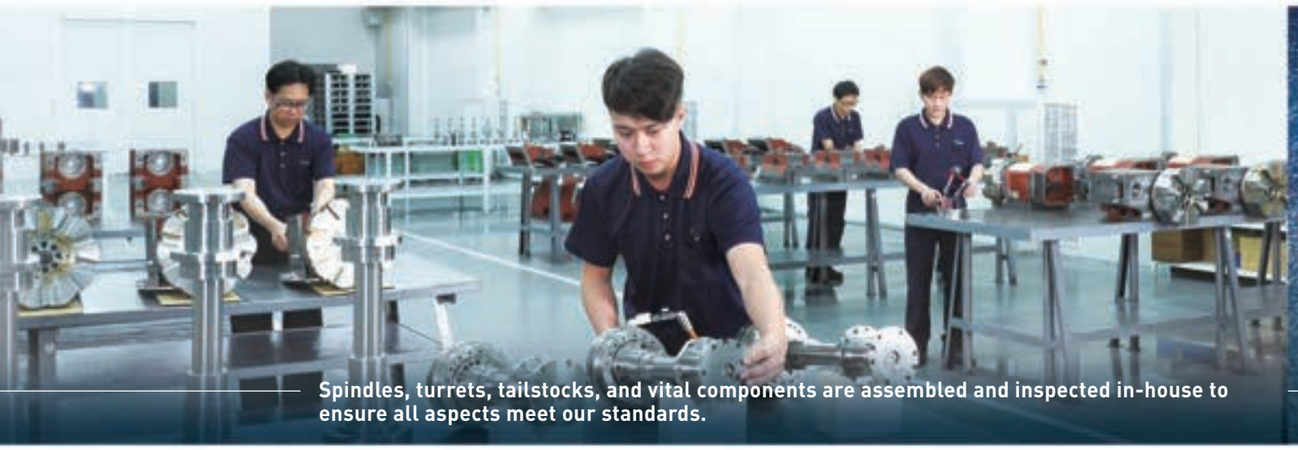
SMART INVERTER (Opt.)

Ethernet fast connection

Automatic Variable Pressure Control (AVP Control)
- Use NC program to control output pressure.
- Maintain stable pressure in different diameter of tools.
- Save 40% electric power in average.

EMPHASIS ON QUALITY

The key to Goodway's reliable brand image lies in our strict standard production procedures, well-trained engineers, modern thermostatic workshops, and more importantly, our unswerving requirements for quality.



Spindles, turrets, tailstocks, and vital components are assembled and inspected in-house to ensure all aspects meet our standards.

Every contact surface undergoes precise hand scrapping to ensure maximum assembly accuracy, structure rigidity, and balanced load.

Hand Scraping Rubbing Data Sheet

The hand scraping rubbing record is Goodway's standard accessory, because we ensure quality even in details where customers are seldom aware of.

Cast Processing

Final machining is done in-house by high-end equipment including YASDA horizontal machining centers and ZEISS 3D coordinate measuring systems.

// Casting Aging

After high-temperature casting, the cast later goes through a complete cooling process that takes up to 3~6 months to ensure maximum rigidity and precise repeatability.

// High Precision HMC Centers (JPN)

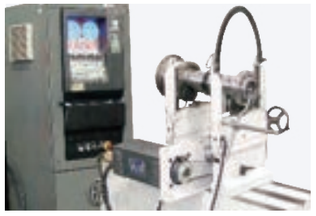
// High Precision Horizontal Boring Mills (JPN)

// 3D coordinate measuring machine (German)

Vital Components Assembly

The essential core units are manufactured in Goodway's precision assembly department, allowing us to better control quality and ensure delivery, which sets Goodway's products apart from other models.

GN level precisely measuring clearance of spindle bearing



Spindle dynamic balancing analysis

Precise Production

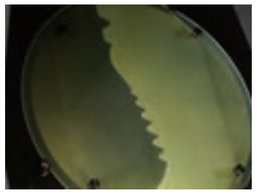
The digital production board displays real-time status of all stations in the factory area, including process progress, shutdown or material shortage. Managers can make more accurate decisions, thereby ensuring quality and delivery.

Digital production display

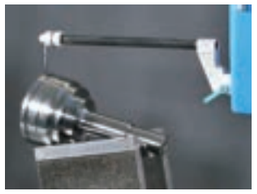
Process information station

Quality Control

- Key components will have to be checked by the 3D measuring system, 3D profiler, Projection comparator and other advanced equipment quality inspection before entering assembly line.
- The machine will have to pass laser calibration, ballbar testing, cutting test, and more than 100 hours of running-in test.



Outline precision projection evaluation



3D contour detection

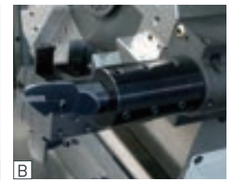
Roundness measurement

Ball bar test

GA-3600/W24

HIGH PERFORMANCE WHEEL TURNING MACHINE


A


B

A Specialized aluminum wheel finger chuck

B Goodway anti-vibration tool

+ Users can change the jaws and cushion block of the chuck with no hassle, therefore front and back processing can be completed easily with this series.
+ You can combine 2 sets GA-3600/W24 machines with a machining center and robot arm to form a high performance production line.

		GA-3600/W24
Wheel size		13" ~ 24"
Max. swing diameter	mm	Ø 930
Max. turning diameter	mm	Ø 680
Spindle nose		A2-11
Spindle speed	rpm	2,500
Spindle motor output	kW	30 / 37 / 45 (cont. / 30 min. / 15 min.)
Turret station	T	10
Shank size	mm	□ 32 / Ø 50

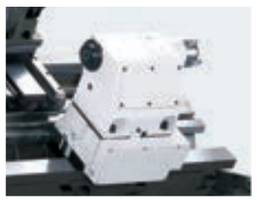
Specifications are subject to change without notice.

GS-200 SERIES

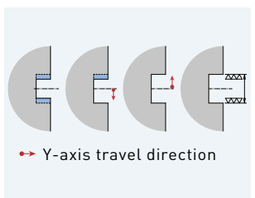
HIGH PERFORMANCE HORIZONTAL TURNING CENTERS

+ High rigidity 30° box way slant bed provides extremely stable base.
+ Equipped FANUC αP series motor, the spindle provides powerful heavy cutting ability within low-speed range.
+ 12-station servo index turret or optional live tooling turret.
+ High performance programmable quill and tailstock.

// Box Way Slant Bed Structure



// Built-in Spindle Type Tailstock



// Y-axis Control

// Live Tooling Turret and Sub-spindle

		GS-200	GS-260	GS-280
Max. swing diameter	mm		Ø 650	
Max. turning diameter	mm		Ø 420	
Max. turning length	mm	591 / 1,191	560 / 1,160	534 / 1,134
Chuck size		8"	10"	10"
Bar capacity	mm	Ø 51	Ø 65	Ø 75
Spindle nose		A2-6	A2-8	
Spindle motor output	kW		11 / 15 (cont. / 30 min.)	
X / Y axes travel	mm		240 (Y-axis : 270) / ±55	
Z-axis travel	mm		600 / 1,200	
X / Z axes rapid feedrate	m/min.		20 / 24	

Specifications are subject to change without notice.

GLS-150 SERIES

HIGH SPEED HORIZONTAL TURNING CENTERS

+ Low gravity 30˚slant bed design provides extremely stable base for headstock, turret and tailstock.
+ 12-station servo index turret / programmable tailstock.
+ Optional live tooling turret / Y-axis.

New GLS-150 series VS. Previous Model

40% Spindle Motor Output

16% Turret Disk Diameter

10% Curvic Coupling of Turret Diameter

// Live Tooling Turret

// Y-axis Control

		GLS-150	GLS-200
Max. swing diameter	mm	Ø 500	
Max. turning diameter	mm	Ø 360	
Max. turning length	mm	500	
Chuck size		6" (Big-bore)	8" (Big-bore)
Bar capacity	mm	Ø 51	Ø 65
Spindle nose		A2-5	A2-6
Spindle motor output	kW	11 / 15 (cont. / 30 min.)	
X / Y axes travel	mm	210 (Y-axis : 195) / ±35	
Z-axis travel	mm	520	
X / Z axes rapid feedrate	m/min.	30	

Specifications are subject to change without notice.

// MULTI-AXIS TURNING CENTERS

GMT SERIES
Multi-tasking Machine

Chuck size
GMT-2000 : 8" / 10" / 12"
GMT-4000 : 15" ~ 24"

GTH SERIES
Parallel Twin Spindles
Turning Centers

Chuck size 6" / 8" / 10"

GTS SERIES
Twin Spindles & Turrets
Turning Centers

Chuck size 6" / 8" / 10"

GTZ SERIES
Multi-turret
Turning Centers

Chuck size 6" / 8"

GTW SERIES
Turret / Gang Tooling
Turning Centers

Chuck size 6" / CL42 / CL52

// HORIZONTAL TURNING CENTERS

HA SERIES
Flat-bed
Turning Centers

Chuck size 24" ~ 63"

GS-8000 SERIES
Heavy Duty Super Size
Turning Centers

Chuck size 18" ~ 32"

GS-6000 SERIES
Heavy Duty
Turning Centers

Chuck size 15" ~ 24"

GS-4000 SERIES
Maximum Performance
Turning Centers

Chuck size 15" ~ 24"

GS-3000 SERIES
Maximum Performance
Turning Centers

Chuck size 12" / 15"

GS-2000 SERIES
Maximum Performance
Turning Centers

Chuck size 8" / 10"

GS-200 SERIES
Ultra Performance
Turning Centers

Chuck size 8" / 10"

GA-3300 SERIES
High Performance
Turning Centers

Chuck size 12" / 15"

GA-2000 SERIES
High Performance
Turning Centers

Chuck size 8" / 10"

GLS-3300 SERIES
High Speed
Turning Centers

Chuck size 12"

GLS-2800 SERIES
High Speed Turning Centers

Chuck size 10"

GLS-1500 SERIES
High Speed Turning Centers

Chuck size 6" / 8"

GLS-150 SERIES
High Speed Turning Centers

Chuck size 6" / 8"

GLA SERIES
High Speed Turning Centers

Chuck size 6"

// SWISS TURNING CENTERS

SW-42 SERIES
Max. Performance
SWISS Turning Centers

Max. machining dia.
Ø42 mm

SW-32 SERIES
Max. Performance
SWISS Turning Centers

Max. machining dia.
Ø32 mm

SW-32II SERIES
Multi-tasking
SWISS Turning Centers

Max. machining dia.
Ø32 mm

SW-20 SERIES
Max. Performance
SWISS Turning Centers

Max. machining dia.
Ø20 mm

SW-20II SERIES
Multi-tasking
SWISS Turning Centers

Max. machining dia.
Ø20 mm

// VERTICAL TURNING CENTERS

SW-12 SERIES
Ultra Performance
SWISS Turning Centers

Max. machining dia.
Ø13 mm

GVB SERIES
Super Size
Vertical Turning Centers

Table diameter
Ø3,000 ~ Ø8,000 mm

GVH SERIES
Super Size
Vertical Turning Centers

Table diameter
Ø2,000 ~ Ø2,500 mm

GV-1 SERIES
Heavy Duty
Vertical Turning Centers

Table diameter
Ø1,100 ~ Ø2,000 mm

GVF SERIES
Super Rigid
Vertical Turning Centers

Table diameter
Ø1,100 ~ Ø2,000 mm

GV-1000 SERIES
Super Rigid
Vertical Turning Centers

Chuck size 18" ~ 32"

GV-780 SERIES
High Speed
Vertical Turning Centers

Chuck size 15" / 18"

GV-500 SERIES
High Speed
Vertical Turning Centers

Chuck size 12" / 15"

GVI-400 SERIES
Inverted Vertical Combination
Turning Centers

Chuck size 12"

GVI-350 SERIES
Inverted Vertical Combination
Turning Centers

Chuck size 12"

// WHEEL TURNING MACHINE

GA-W SERIES
Wheel Turning Machine

Chuck size 13" ~ 24"

// CYLINDRICAL GRINDING MACHINE

GRW SERIES
Traveling Head
Cylindrical Grinding Machine

Max. external grinding dia.
Ø400 mm

GRU SERIES
Plunge Cylindrical
Grinding Machine

Max. external grinding dia.
Ø190 mm

GRA SERIES
Angular Cylindrical
Grinding Machine

Max. external grinding dia.
Ø190 mm

THE ULTIMATE MACHINING POWER

GOODWAY®

GOODWAY MACHINE CORP.

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