MINNUO

COMPANY PROFILES

MASTER CORE TECHNOLOGY

MINNUO

Company/
Jiangsu Minnuo Group Co.,Ltd

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ABOUT US

BECOME THE WORLD'S LARGEST ONE-STOP TRADE SERVICE COMPLEX

Minnuo Special Equipment Co., Ltd. was established in 1987 as a liquefied petroleum gas cylinder factory. Minnuo people provide people with high-quality products and excellent services, strictly control quality, reduce costs, and thus establish a stable customer base.

150+
Exported to more than 150 countries

50+
Invention patents and utility model patents

2003 YEAR
Established R&D center

1987 Yrs
Minnuo Special Equipment Co., Ltd was established

2017 Yrs
Minnuo Group was established

3.299 Billion
Total sales in 2023

OUR STORY

BECOME THE WORLD'S LARGEST ONE-STOP TRADE SERVICE COMPLEX

Jiangsu Minnuo Group Co., Ltd. is a high-tech enterprise integrating product design, R&D, manufacturing and sales. It mainly produces and operates more than a dozen series of products such as CNC lathes, gantry milling machines, gantry machining centers, horizontal machining centers, vertical machining centers, engraving and milling machines, etc. The company covers an area of 100,000 square meters and has fixed assets of more than 200 million yuan. It has more than 70 middle and senior technical personnel and more than 380 engineering and technical personnel of various types. Using advanced 3D CAD methods, finite element analysis of parts is carried out to make the machine tool structure more reasonable, and motion simulation of design results is carried out to analyze expected results, shorten product development and manufacturing cycle, and improve resource utilization.

Jiangsu Minnuo Group Co.,Ltd

SMART MANUFACTURING

FACTORY INTERIOR SCENE AND MACHINE PICTURES

Strive to "create greater value" for our customers and build a CNC machine tool industry chain group company

First-class enterprise / First-class products / First-class service / First-class benefits

01
PROFESSIONAL WORKSHOP

Create Greater Value

02
CONVENT AND FAST

Create Greater Value

03
INTELLIGENT AND EFFICIENT

Create Greater Value

04
PRECISE AND ACCURATE

Create Greater Value

ISO90001
International quality system

Provide customers with high-quality professional products and the best services.

ISO14001
Environmental quality system certification

Our company has formed long-term and stable strategic cooperative relations with many well-known companies in the world

AAA
Corporate credit rating

All employees adhere to the concept of "reasonable price, efficient production time and good after-sales service"

PERSONALIZATION

Automation solutions
advanced processes

Intelligent design

Multiple high-end machine tools are connected online and equipped with robots to form a flexible processing production line; deep customization, flexible wiring, intensive procedures, and multiple processes in series can greatly improveproduction efficiency, save human resources, enhance the company's market competitiveness, and enhance the corporate image.

Integrated (truss) automation

The integrated optimized design and integration of the logistics host is suitable for one-time processing from rough to finished products with few people, easy to move and small footprint High rigidity and greater stability

Integrated (joint) automation

According to the workpiece, multiple Pruett lathes can be connected and equipped with articulated robots to form a flexible processing production line. This can greatly improve production efficiency, save human resources, and enhance the company's market competitiveness and corporate image.
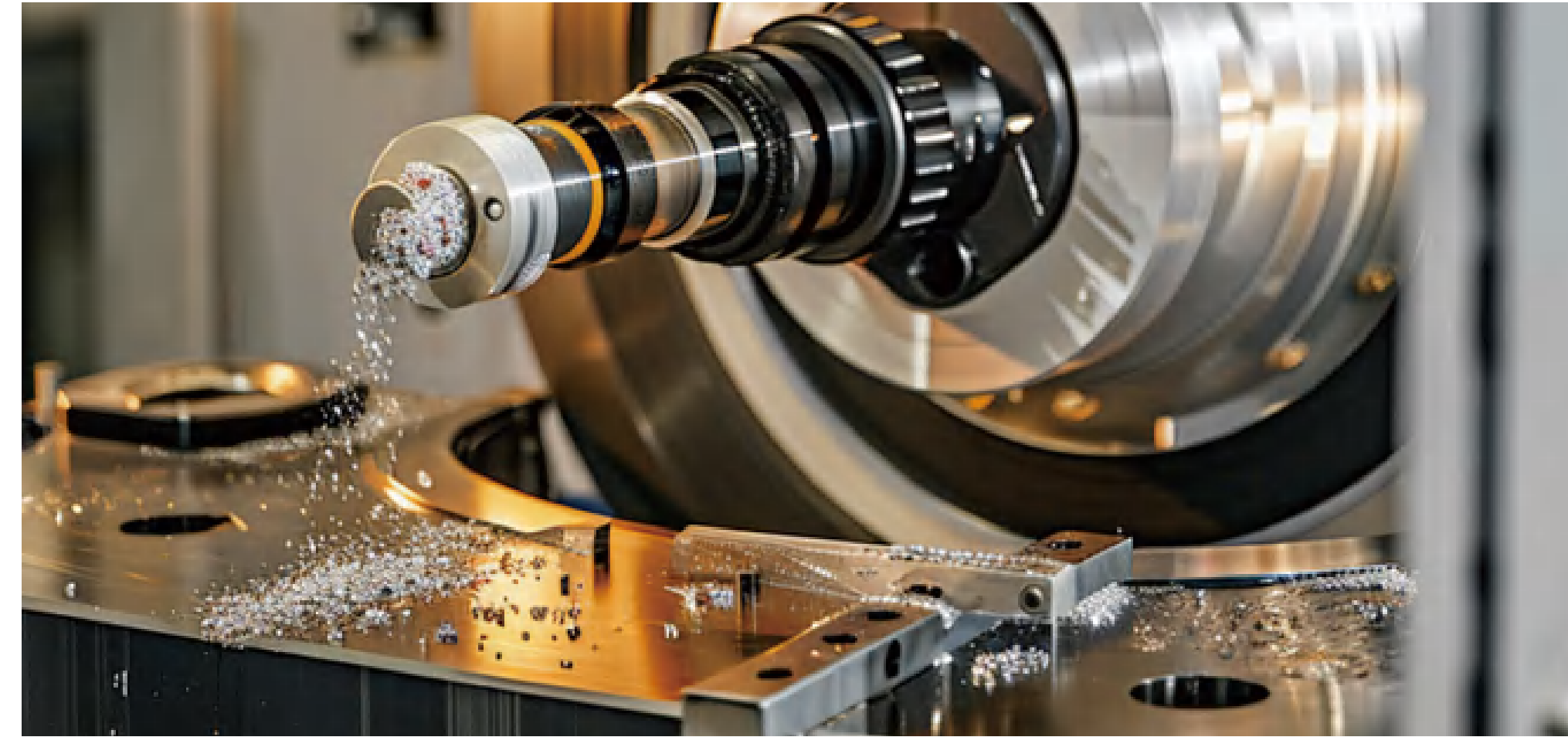
Four Major Advantages

01
MST Function

When the operator performs actions such as spindle test run and tool change, there is no need to switch to MDI mode to enter the operation program.

02
Integrated lathe

Using multi-channel technology, two channels of a CNC system control the machine tool and the truss robot at the same time

03
CNC Cloud

CNC Cloud is a CNC machine tool big data platform based on mobile phones and PC platforms, mainly used for users to manage CNC machine tools.
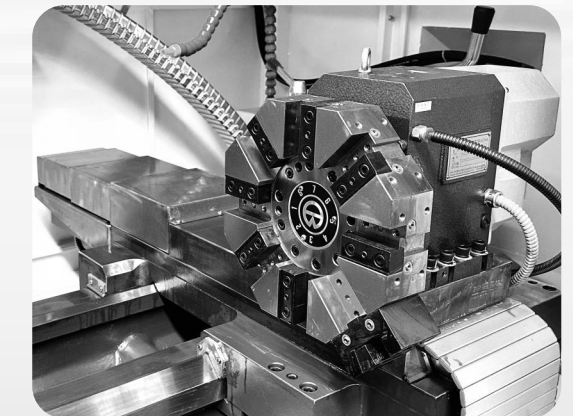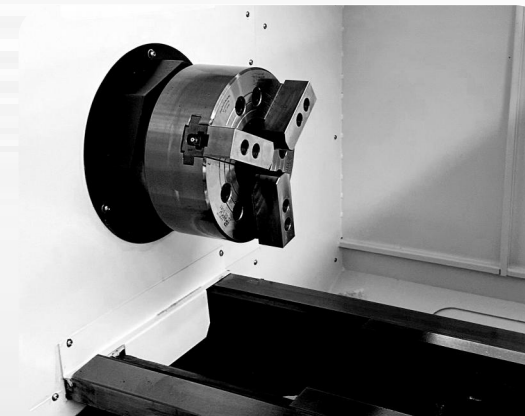
04
Automatic chip breaking

The chip breaking function can also be used in thread processing. Such as linear thread, tapered thread, external hread, internal hole thread, end face thread, etc.
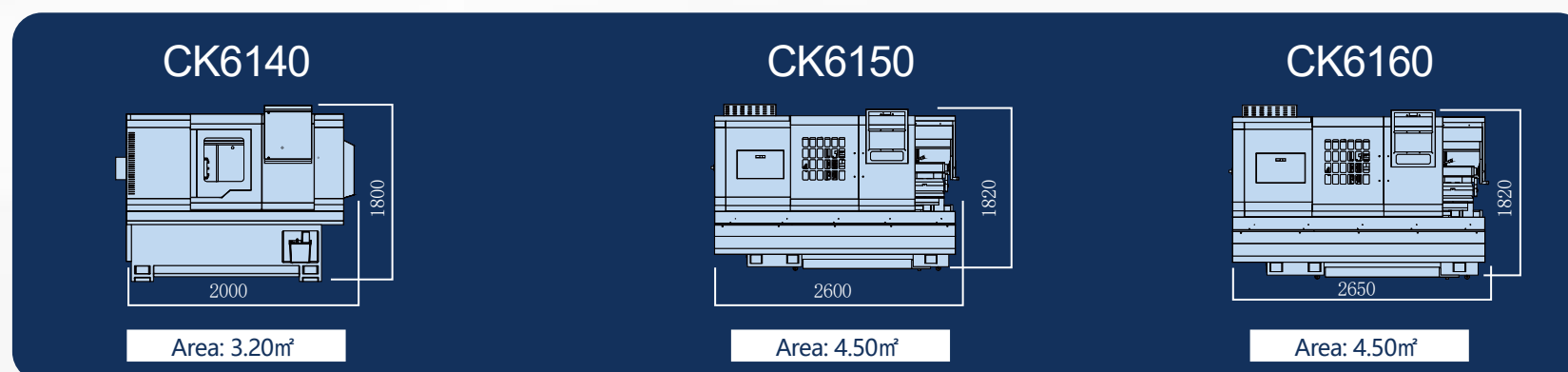
CK6140/CK6150/CK6160

Box guide way CNC lathe

Overall bed/Independent spindle/High stability

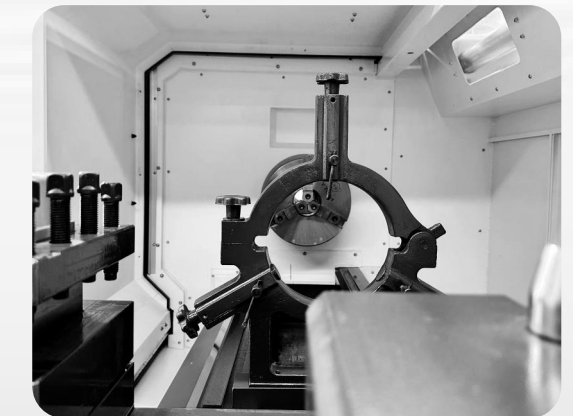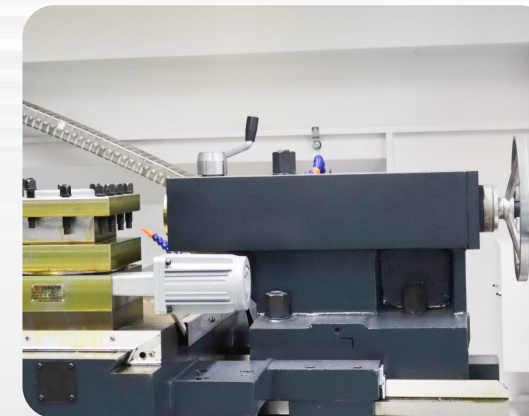| CK6140	CK6150	CK6160
Area: 3.20㎡	Area: 4.50㎡	Area: 4.50㎡

1800
2000

1820
2600

1820
2650

USAGE

Machine tool can automatically process the inside and outside cylinder surface,cone surface, circular arc surface, end face, such as processing, and also can process the single and muliple threads in metric, inch and othelstandards.
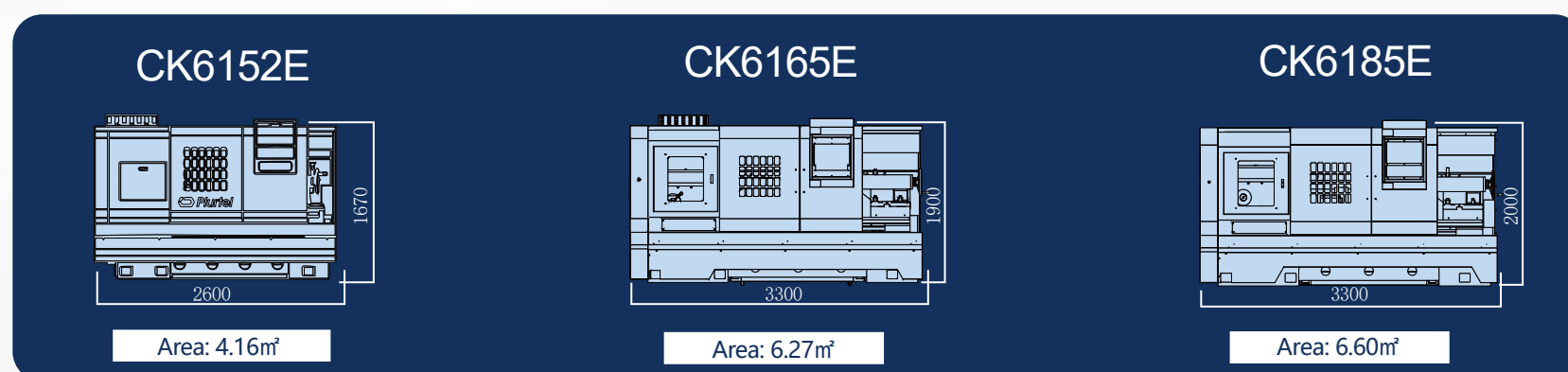
Specifications	unit	CK6140	CK6150	CK6160
Max. swing dia. over bed	mm	400	500	600
Max. swing dia. over slide	mm	240	250	395
Maximum turning diameter (disc)	mm	400	500	600
Max. work piece length	mm	550/750	1000/1500/2000	1000/1500/2000
Maximum turning length	mm	420/620	850/1350/1850	850/1350/1850
Spindle nose		A2-6/A2-8	A2-8/A2-11	A2-8/A2-11
spindle bore	Φ/mm	48/82	82/130	82/130
Spindle taper	Φ/mm	Chuck/Metric 90	Metric 90/Metric 140	Metric 90/Metric 140
Spindle speed	r/min	150-2500/150-1800	150-1800/150-800	150-1800/150-800
Spindle type		Stepless speed regulation	Stepless speed regulation	Stepless speed regulation
Spindle motor power	KW	5.5/7.5	7.5/11	7.5/11
Chuck type		Manual chuck	Manual chuck	Manual chuck
Chuck size	mm	200/250	250/320/380	250/320/380
X axis rapid traverse	m/min	6	6	6
Z axis rapid traverse	m/min	8	8	8
X axis servo motor torque	N.m	4	5/7.5	5/7.5
Z axis servo motor torque	N.m	6	7.5/10/15	7.5/10/15
X axis travel	mm	280	280	325
Z axis travel	mm	550/750	1000/1500/2000	1000/1500/2000
Guide way type		Hard rail	Hard rail	Hard rail
Capacity of tool post		4	4	4
Tool shank size	mmxmm	20x20	25x25	25x25
Tail stock quill dia	Φ/mm	60	75	75
Tail stock quill travel	mm	100	150	150
Tail stock quill taper		MT4#	MT5#	MT5#
Total rated power	KW	8/10	11/12/13	11/12/13
Total rated current	A	17/21	23/26/29	23/26/29
Net weight	kg	1900/2200	2700/3100/3500	2800/3200/3400
Machine dimension(LxWxH)	LxWxH (mm)	2000/2200x1600x1800	2650/3250/3750x1700x1820	2650/3250/3750x1700x1820

CK6152E/CK6165E/CK6185E

One-piece casting bed and box way CNC lathe

High precision/High torque/Overall bed

CK-6152E

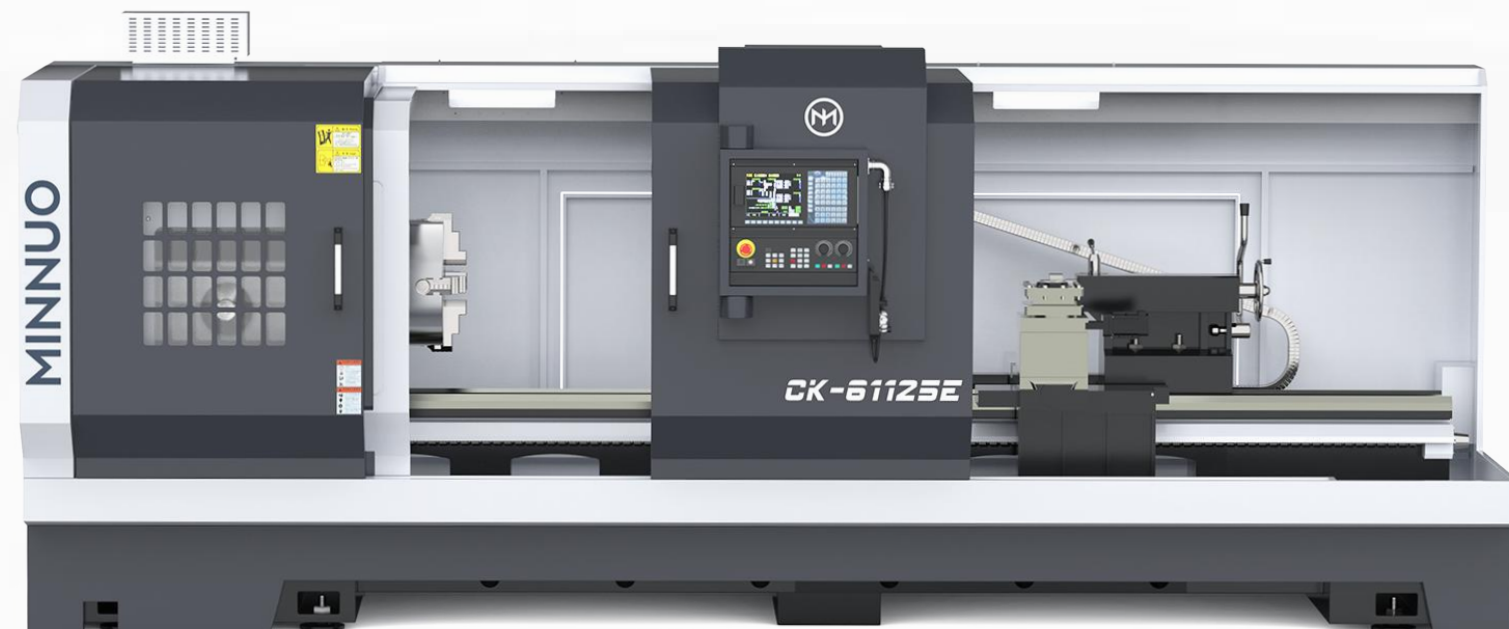| CK6152E	CK6165E	CK6185E
Area: 4.16㎡	Area: 6.27㎡	Area: 6.60㎡

USAGE

Controued by CNC system, this machine could process different inner bore, ex-circle, circular conicasurface and screw thread, especially suitable for the small and middle-sized shaft and plate work piecefrom rough processing to finish processing in batch. It has advantages like higher automaticity, simplerprogramming and higher accuracy.
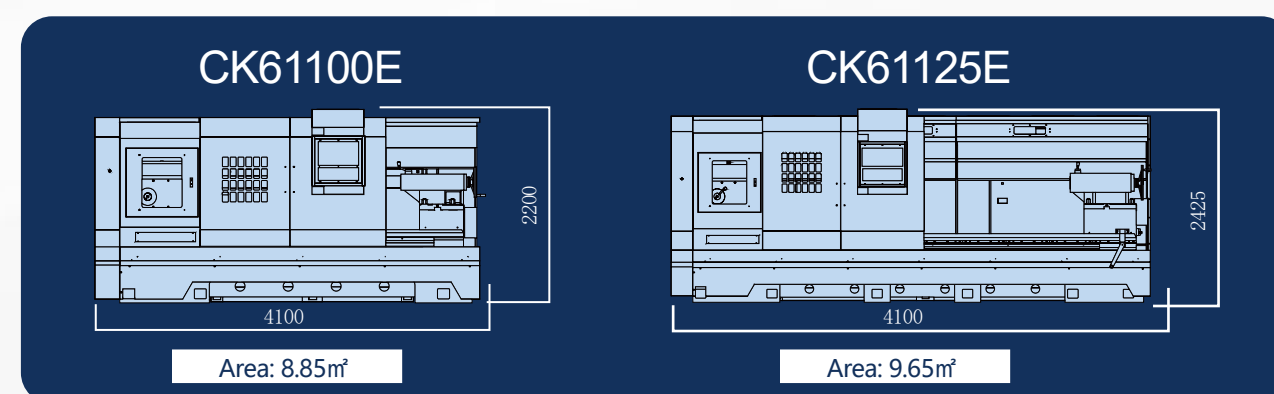
Specifications	unit	CK6152E	CK6165	CK6185E
Max. swing dia. over bed	mm	530	650	850
Max. swing dia. over slide	mm	280	375	500
Maximum turning diameter (disc)	mm	520	650	850
Max. work piece length	mm	1000/1500/2000/3000	1000/1500/2000/3000	1000/1500/2000/3000/4000
Maximum turning length	mm	825/1325/1825/2825	1000/1500/2000/3000	900/1400/1900/2900/3900
Spindle nose		A2-8	C11	C11
spindle bore	Φ/mm	90	105	105
Spindle taper	Φ/mm	Metric 100/1:20	Metric 120/1:20	Metric 120/1:20
Spindle speed	r/min	30-150,90-450,315-1600	10-85,40-350,100-850	10-85,40-350,100-850
Spindle shift mode				
Spindle motor power	KW	7.5	11	11
Chuck type		Manual chuck	Manual chuck	Manual chuck
Chuck size	mm	250	320	400
X axis rapid traverse	m/min	6	4	4
Z axis rapid traverse	m/min	8	5	5
X axis servo motor torque	N.m	7.5	10	10
Z axis servo motor torque	N.m	10/15/22	15/22/30	15/22/30
X axis travel	mm	300	400	450
Z axis travel	mm	1000/1500/2000/3000	1100/1600/2100/3100	1100/1600/2100/3100/4100
Guide way type		Hard rail	Hard rail	Hard rail
Capacity of tool post		4	4	4
Tool shank size	mmxmm	25x25	32x32	32x32
Tail stock quill dia	Φ/mm	75	100	100
Tail stock quill travel	mm	150	250	250
Tail stock quill taper		MT5#	MT6#	MT6#
Total rated power	KW	12/12/13	16/18/20	16/18/20
Total rated current	A	26/26/28	36/40/42	36/38/42
Net weight	kg	2900/3150/3500/4300	4400/4800/5400/6200	4800/5200/5800/6600
Machine dimension(LxWxH)	LxWxH (mm)	2600/3100/3600/4800x1600x1670	3500/4000/4500/5500x1900x1900	3500/4000/4500/5500x2000x2000

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CK61100E/CK61125E

One-piece casting bed and box way CNC lathe

High spindle torque/High rigidity/Stable performance

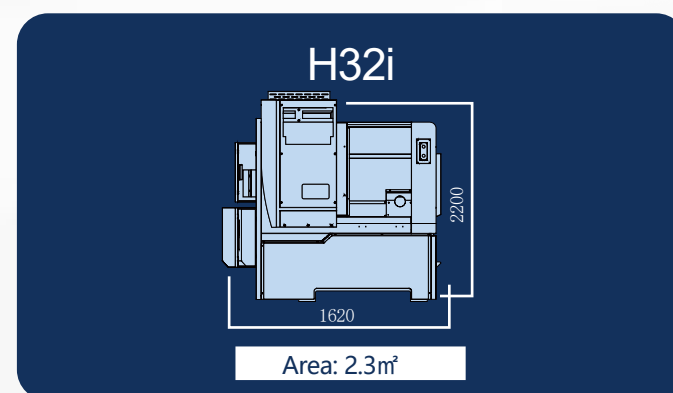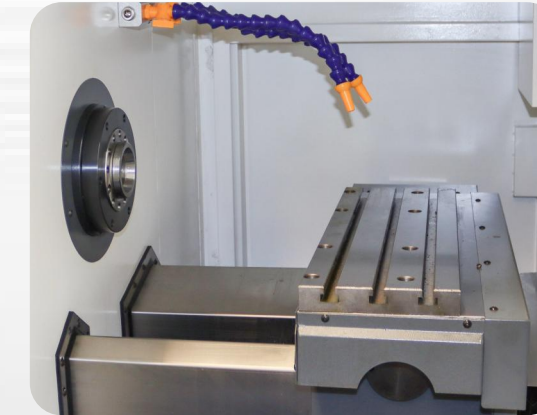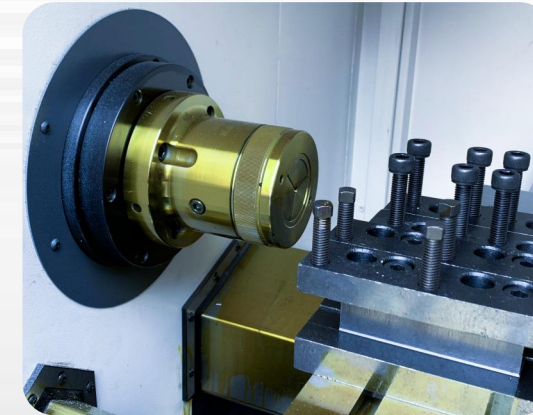| CK61100E	CK61125E
Area: 8.85㎡	Area: 9.65㎡

USAGE

This machine tool is suitable to process the middle and large size work piece in steelcast iron, non-ferrous metal material.With the feature of big power and high rigidity,this machine is applied to heavy-cut the inner circle, ex-circle,end surface and thread in both metric and English system, and could drill and bore the holes.

Specifications	unit	CK61100E	CK61125E
Max. swing dia. over bed	mm	1000	1250
Max. swing dia. over slide	mm	650	850
Maximum turning diameter (disc)	mm	1000	1250
Max. work piece length	mm	1500/2000/3000/5000	1500/2000/3000/5000
Maximum turning length	mm	1400/1900/2900	1350/1850/2850
Spindle nose		A2-15	A2-15
spindle bore	Φ/mm	130	130
Spindle taper	Φ/mm	Metric 140/1:20	Metric 140/1:20
Spindle speed	r/min	10-60,40-240.100-600	10-50.40-120.100-400
Spindle shift mode			
Spindle motor power	KW	15	22
Chuck type		Manual chuck	Manual chuck
Chuck size	mm	500	630
X axis rapid traverse	m/min	4	4
Z axis rapid traverse	m/min	5	5
X axis servo motor torque	N.m	10	15
Z axis servo motor torque	N.m	15/22/30	18/22/30
X axis travel	mm	530	650
Z axis travel	mm	1500/2000/3000	1350/1850/2850
Guide way type		Hard rail	Hard rail
Capacity of tool post		4	4
Tool shank size	mmxmm	40x40	40x40
Tail stock quill dia	Φ/mm	140	160
Tail stock quill travel	mm	250	250
Tail stock quill taper		MT6#	MT6#
Total rated power	KW	22/23/25	29/30/30
Total rated current	A	47/50/54	62/65/65
Net weight	kg	5400/6000/6800	8500/9000/10600
Machine dimension(LxWxH)	LxWxH (mm)	4100/4600/5600x2160x2200	4100/4600/5600x2355x2425

H32i

Slant bed and linear guide way CNC lathe

High Speed/High Precision/High Reliability

H32i

Area: 2.3㎡

Specifications	unit	H32i
Max. swing dia. over bed	mm	320
Max. swing dia. over slide	mm	70
Max. processing length	mm	280
Max. bar capacity	mm	39
Max. processing diameter (plate)	mm	320
Spindle nose	GB59001	A2-5
spindle bore	Φ/mm	48
Spindle speed	r/mm	50-4000
Spindle shift mode		Stepless speed regulation
Spindle motor power	KW	3.7
Chuck type		Hydraulic chuck/ chuck
Chuck size	Inch	6
X axis rapid traverse	m/min	6
Z axis rapid traverse	m/min	24
X axis servo motor torque	N.m	4
Z axis servo motor torque	N.m	4
X axis travel	mm	280
Z axis travel	mm	330
Guide way type		Linear Guides
Tool post type		Row knife
Tool shank size	mm	20X20/Ø25
Total rated power		6
Total rated current	Φ/mm	13
Net weight	mm	1400
Machine dimension(LxWxH)		1620x1420x1700

USAGE

This machine is mainly used for processing various shaft, disk parts,turning canbe all kinds of screw thread, arc, cone and plane of internal and externasurface,

PRODUCT QUALITY ASSURANCE
HIGH-END ADVANCED NUMERICAL CONTROL SYSTEM

GSK 988 TA bus type lathe CNC system

GSK988TA turning center CNC system adopts GSKLink industrial Ethernet bus technology and is compatible with GR-L series servo devices

Technical features

Support remote monitoring and fault diagnosis

Based on the Ethernet LAN interface, remote monitoring, fault diagnosis, and reliability data collection and analysis of CNC machine tools can be achieved.

High-speed and high-precision control

It adopts GSKLink industrial Ethernet bus, has a maximum operating speed of 1 00m/min, and supports nano-interpolation.
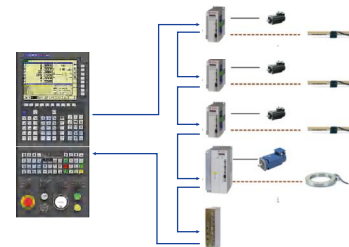
Support turning and milling composite processing

The system can be configured with 8 feed axes and 4 spindles, and all spindles can be controlled as Cs axes. It can complete multiple processing such as turning, milling, drilling, tapping, etc. in one clamping.

New generation technology lathe CNC system

GSK988TA turning center CNC system adopts GSKLink industrial Ethernet bus technology and is compatible with GR-L series servo devices

Technical features

Break point return function

Accurate action: Intelligent cutting line selection, Ensure accurate breakpoint coordinates
Simple setting: Pr3851=999901
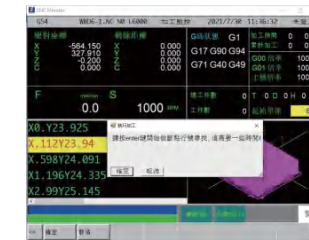
New version of tool life management

The screen is simple, tool information is clear at a glance. It has complete functions, supporting life timer, count, sister tool, multi-axis group life count
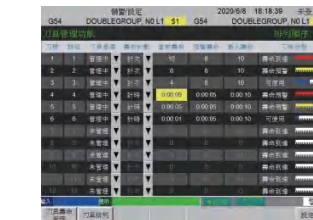
Power off tapping retraction function

The abnormal power failure caused the tool to jam and the problem can be handled by supporting different S or F independent variables to meet the speed requirements when rolling back.
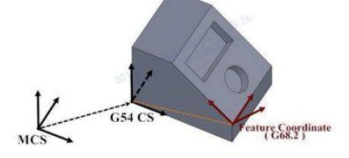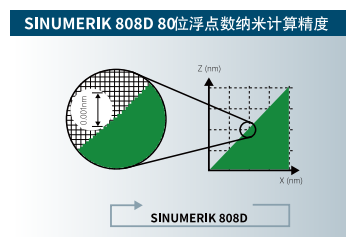
SINUMERIK 808D lathe CNC system

SINUMERIK 808D provides the latest CNC technology for popular lathes and milling machines
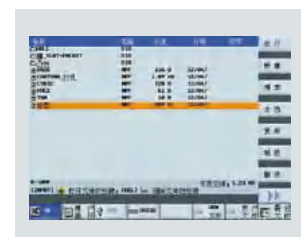
Technical features

Maximum accuracy

Nano-level precision
Keyboard design optimized for different processes
Mechanical buttons covered with protective filmSerial interface RS232C

Computerized document processing

Easier and faster file management
Long-lasting battery
Front panel protection level reaches IP65
Design of CNC system based on panel

Intelligent JOG function

Measuring and cutting cycles are fully graphical
Fanless
No hard disk
LED tool number real-time display
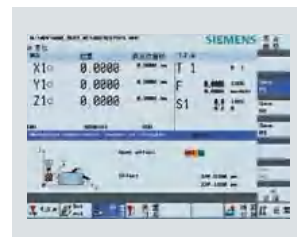
## FANUC 0i-F Plus Lathe CNC System

FANUC Oi-F PluS is a nano CNC system with high reliability and high cost performance developed based on the 30i-B series system.

Technical features

Intelligent servo control

Intelligent servo control refers to a group of servo control functions that can self-op timize and adjust in real time as machine tool conditions such as load and tempera ture change.
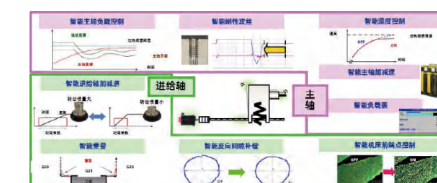
Surface fine treatment technology

Surface finishing technology is a general term for CNC and servo technologies used to achie ve high-quality processing.

Efficient processing technology

By accelerating and decelerating according to the action state and making the most of the spindle capacity, the sequence processing time of external signals is shortened, and the cycle time of the machining program is reduced.
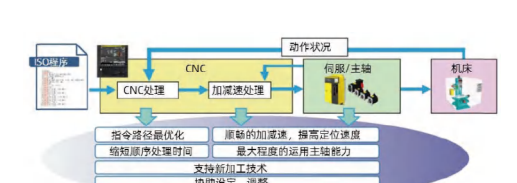
AUTOMATION SOLUTIONS/ ADVANCED PROCESSES

AUTOMATION SOLUTIONS

Integrated (truss) automation

Multiple high-end machine tools are connected online and equipped with robots to form a flexible processing production line; deep customization, flexible wiring, intensive procedures, and multiple processes in series can greatly improve production efficiency, save human resources, enhance the company's market competitiveness, and improve the corporate image.
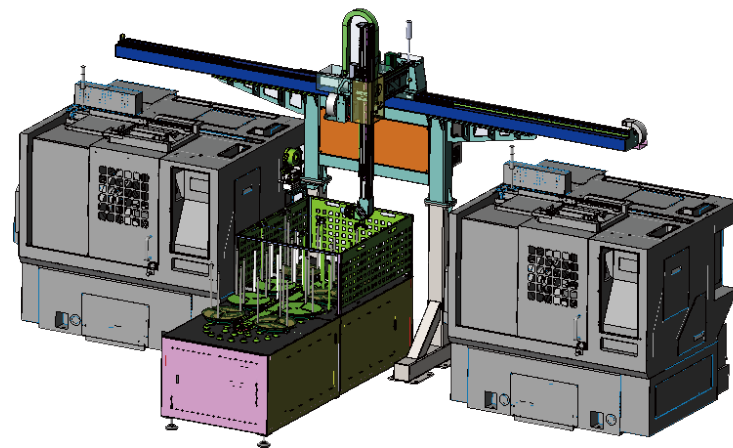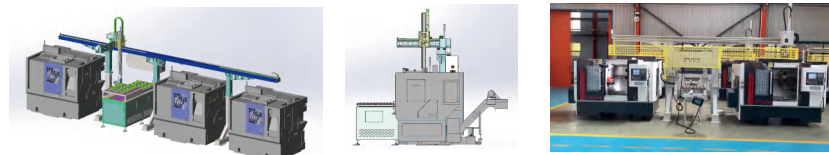
Integrated (truss) automation

The integrated optimized design and integration of the logistics host is suitable for one-time, less-manpowered processing from rough parts to finished products. It is easy to move the machine and occupies a small area. It has high rigidity and greater stability, improves production efficiency, effectively reduces the growing cost pressure, and has a short investment return period.

Integrated (joint) automation

According to the workpiece, multiple Pruett lathes can be connected online and equipped with articulated robots to form a flexible processing production line.It can greatly improve production efficiency, save human resources, improve the market competitiveness of enterprises, and enhance the corporate image.

Automation options
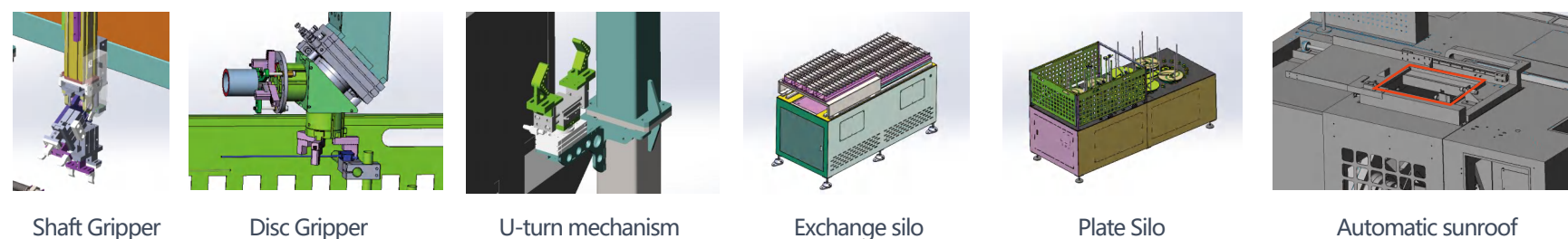
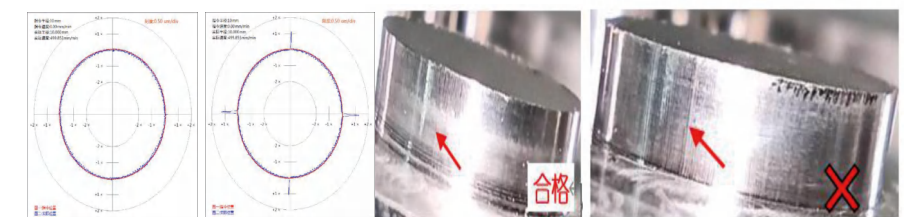| Shaft Gripper | Disc Gripper | U-turn mechanism | Exchange silo | Plate Silo | Automatic sunroof |

ADVANCED PROCESSES

MST Function

When the operator performs actions such as spindle test run and tool change, there is no need to switch to MDI mode to enter the operation program. Instead, the operator only needs to enter the required value in the data box of the "Manual MST" shortcut interface to directly adjust the spindle, tool, etc. This greatly simplifies the operation steps and improves the efficiency and convenience of operation.

SSV spindle speed floating shock absorption function

During the turning process of slender shafts, the workpiece and the tool are prone to resonance.The SSV spindle speed floating shock absorption function can effectively solve the problem of tool vibration and improve the processing quality.

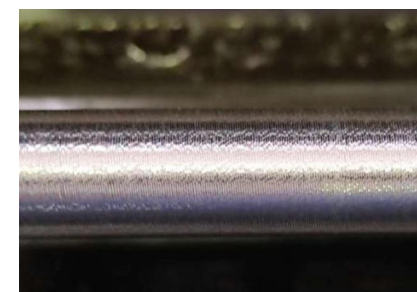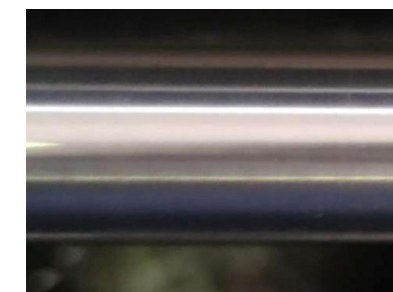(Not enabled)　　(Enabled)

Friction Compensation Technology

Due to the influence of factors such as nonlinear friction, when the moving axis reverses, the servo motor and machinery lag, and tool marks are generated in the processing arc quadrant. The quadrant jump compensation function is to suppress quadrant errors and eliminate tool marks in the quadrant. Quadrant jump compensation improves the surface quality of curved surface machining and is widely used in consumer electronics, molds, and five-axis linkage machining.

Intelligent tool life management

Monitor and manage the status of machine tool tools to ensure the machining accuracy and quality of machine tool parts, reduce downtime and improve machine tool output.
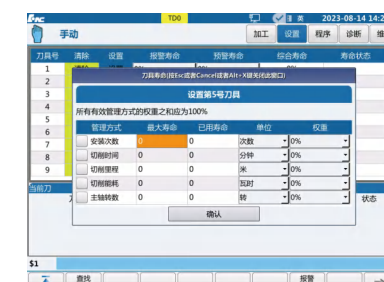
integrated lathe/ truss function

Using multi-channel technology, two channels of a CNC system can control the machine tool and the truss robot at the same time