

RAIS

In Quality we trust



CNC Machine Tools

Vertical
Milling
Machines

5-axes
Machining
Centers

CNC Lathes

Double
Spindle
CNC Lathes

RAIS is a leading Bulgarian company for manufacturing and recycling of CNC machine tools. Created in 1994 in Pazardzhik, the company began its operations with recycling Bulgarian CNC machines. Gradually, its activities are directed towards the production of new machines, the company is the only local manufacturer of vertical machining centers.

The machines are designed and implemented in full production by the company experts.

The company carries also complete overhaul, repair and modernization of CNC machines, including horizontal and vertical centers.

Production list of RAIS includes:

- 10 models vertical machining centers with sizes from 300 to 800 mm (table sizes from 400 to 300 mm to 1600 by 800 mm, spindle speed from 8000 to 15000);
- 5 models CNC lathes with a maximum turning diameter from 200 to 700 mm;
- 2 models 5-axis VMC, 350 and 550 mm size;
- 4 models twin-spindle lathes;
- milling-turning VMC and double column milling machines;
- spare parts for forklifts.



All of them are equipped with reliable CNC systems from Siemens, Heidenhain and Fanuc- Japan.

The stability of machines manufactured by RAIS outperforms all others in this frame size. Precision linear guides and ball screws from "Bosch Rexroth" are built-in.

RAIS provides integrated solutions through the selection, procurement, production estimates for the time, tooling, commissioning, training and after-sales service of all types of CNC machine tools.

Precision in assembly, test and control means provides quality on each machine, meeting the requirements of EN ISO standards for machining centers.

The implemented Quality Management System creates all the prerequisites to meet customer requirements.

The company motto expresses our creed that the excellent quality of products and services is the best guarantee for the loyalty of our clients.

Buying from us, you do not receive just a machine, you receive our commitment and guarantee of quality - before and after the sale.

Nishan Bazdighyan - CEO of RAIS Ltd.



24 MONTHS WARRANTY*

Our machines speaks for themselves. We rely on the well-known quality of our machines.

You can always count on us. And benefit from our partnership!

(*Based on one-shift operating schedule)

SERVICE

We are always there for you!



- LOCAL
- CENTRAL
- FACTORY SERVICE

SPARE PARTS SUPPLY



YOUR BENEFITS:

- Local sales and attendance in their respective countries and also access to other services;
- The same level of service and support in their respective countries;
- Service network of over 20 service technicians;
- Central spare parts supply (95% of the parts in stock);
- Hotline available locally and centrally;
- Excellent for companies with multiple locations - for easy handling of sales and services.

**ONE WORLD,
ONE RELIABLE COMPANY
AND SO MANY PARTNERS**



Manufacturers from 15 countries in Europe, Asia and Africa trusted RAIS. Among our major clients are:

- Hiunday Heavy Industries in the field of heavy engineering
 - OMCO Group in the glass industry and space industry
 - M+S Hydraulic in the field of hydraulics
 - Liebherr in the field of construction machinery and the production of white goods
 - Hertz in climatization, Lenze in drives technology
- and many other companies in the fields of mechanical engineering, chemical industry, production of medical equipment and heating technology, thanks to which we constantly develop and for the last 20 years affirm RAIS's name in the CNC machine tools production.

RAIS has offices in Germany, Austria, Switzerland, Russia, Serbia, Macedonia, Turkey, Greece and Romania.



CNC MILLING MACHINES AND CENTERS

CONFIGURATION OPTIONS FOR MILLING CENTERS (Page 6)

Vertical machining centers

	 M400 / M450 (Page 8)
	 M500 / M550 (Page 10)
	 M650 / M700 (Page 12)
	 M800 / M1000 / M2000 (Page 14)

4+1 / 5-axes machining centers

 GM350 (Page 16)
 VMC350 / VMC500 (Page 18)




CNC LATHES

CONFIGURATION OPTIONS FOR TURNING CENTERS (Page 20)

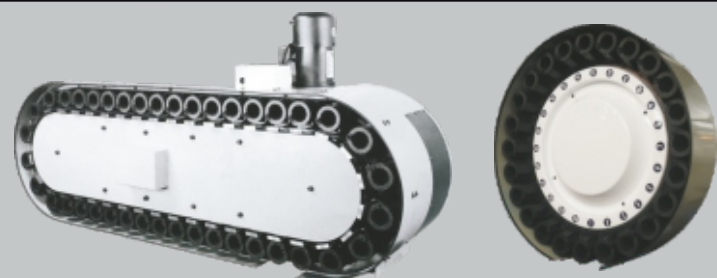
CNC lathes

 T200 (Page 22)
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Double spindle CNC lathes

 T202-2S (Page 30)
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SELECTABLE TOOL MAGAZINE



Machine Magazine	M400/M450	M500/M550	M650/M700	M800/1000/2000	GM350	VMC350
24 Arm - BT40	X	X	X	X		X
24 Arm - BT50			X	X		
32 Arm - BT40	X	X	X	X		X
32 Arm - BT50			X	X		
40 Chain - BT40		X	X	X		X
40 Chain - BT50			X	X		
60 Chain - BT40		X	X	X		X
60 Chain - BT50			X	X		
30 Pick up - BT40					X	

SPINDLE MOTORS

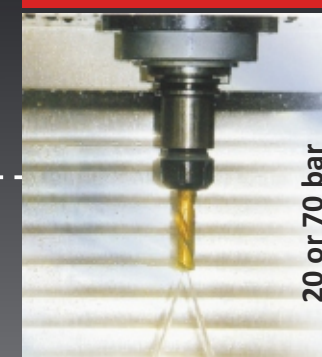
FANUC



SIEMENS



COOLANT THROUGH SPINDLE



20 or 70 bar

CNC ROTARY TABLES

4-th axis

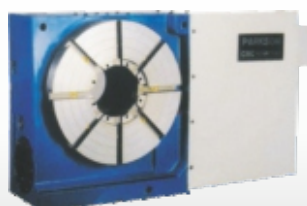


Table diameter:
125; 170; 200; 250; 320 mm

4-th & 5-th axes

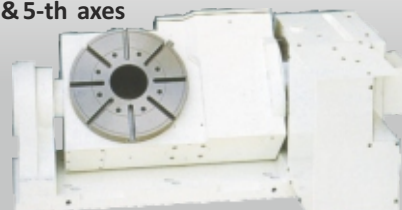


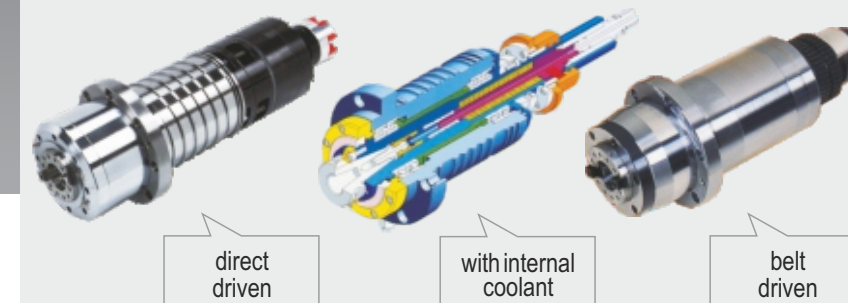
Table diameter:
170; 200; 250; 320 mm

AUTOMATIC PALLETTE CHANGER



SELECTABLE SPINDLE

Toolholder ISO / SK / BT. Precise bearings. Minimum taper play. Increased tightening force.

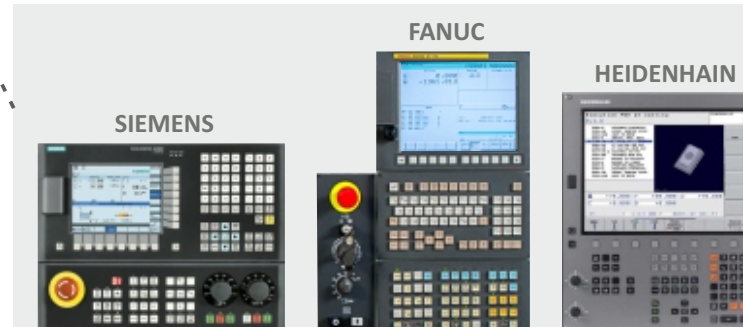


direct driven

with internal coolant

belt driven

SELECTABLE CNC CONTROL



SIEMENS

FANUC

HEIDENHAIN

RAIS SYSTEM
M400

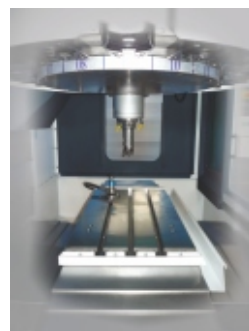
The vertical machining centers M400 and M450 RAIS are designed to perform various machining operations on small-size workpieces and shapes in high cutting speed conditions, with high precision positioning and excellent reliability.



Optimum construction; minimum heat deformation; absence of vibrations in working process; high geometry accuracy.

Directly driven spindle assembly and high precision bearings: minimum run out of the spindle taper; improved smoothness of operation under high-speed machining conditions; increased tool durability.

Telescopic guards along the three axes: long life of the ball screws and the linear guide ways.



All ball screws - high precision, class P3, Ø32 mm OD, with a double nut, pre-loaded to control backlash. High precision of positioning and smooth operation.

Automated air blow during tool change ensures cleaning of the spindle taper and holder.

Directly coupled to the ball screws AC servo motors along all axes: guaranteed excellent interpolation accuracy.

Fully enclosed splash guard. Swivel panel of the CNC control. Maximum convenience for adjusting and operation purposes.

High-quality housing castings of gray cast iron. Optimum ribbed base, column and spindle casing; guaranteed maximum rigidity and minimum bending under applied load conditions.

RAIS SYSTEM
M450

Linear guideways along the three axes - size 25, zero clearance. Stable cutting under full load conditions. Minimum friction when in motion. High precision and high speed with no need for adjustment during operational life.



TECHNICAL PARAMETERS	UNIT	M400	M450
CAPACITY			
X axis travel	mm	500	600
Y axis travel	mm	400	450
Z axis travel	mm	460	500
Spindle nose to table	mm	150 - 650	150 - 650
Table size	mm	760 x 400	760 x 450
T - slots: number / size / pitch	mm	3 / 18 / 93	3 / 18 / 93
Max workpiece weight	kg	350	350
Guideways		Linear	Linear
Floor to table	mm	930	930
SPINDLE			
Spindle speed range	rpm	8000 / 12 000* / 15 000**	8000 / 12 000* / 15 000**
Main motor power (100% ED / 30 min.)	kW	7.5 / 11	7.5 / 11
Main motor torque (100% ED / 30 min.)	Nm	35.8 / 70	35.8 / 70
Spindle taper		SK40 / ISO40 / BT40	SK40 / ISO40 / BT40
ATC			
Tool capacity		24 / 32***	24 / 32***
Max tool diameter	mm	90	90
Max tool diameter (adjacent pockets empty)	mm	110	110
Max tool length	mm	250	250
Max tool weight	kg	6	6
FEED			
Rapid traverse X / Y / Z	m/min	30 / 30 / 30	30 / 30 / 30
Max cutting feedrate	m/min	10	10
Z axis motor power (100% ED)	kW	2.5	2.5
Z axis motor torque (100% ED)	Nm	20	20
X / Y axes motor power (100% ED)	kW	1.4	1.4
X / Y axes motor torque (100% ED)	Nm	11	11
SIZE			
Machine weight	kg	3100	3200
Machine dimensions (approx.): L x B x H	mm	2000 x 2000 x 2300	2000 x 2000 x 2300
CNC CONTROL			
Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D / Heidenhain iTNC620)****			
ACCURACY OF THE MACHINE		DIN8605-8607	DIN8605-8607

(*) with direct drive
 (**) with motor spindle
 (***) option
 (****) on customer request

OPTIONAL ACCESSORIES

- 4-th axis, table diameter 125 / 170 mm
- Tool magazine 32 tools with arm
- Chip conveyor
- Tool setter
- 4-th & 5-th axes, table diameter 125 mm
- Direct drive spindle 15 000 rpm
- Coolant trough spindle with pump 20 Bar
- Touch probe with infra-red connection

RAIS SYSTEM M500

The vertical machining centers M500 and M550 RAIS are designed to perform various machining operations on medium-size workpieces in high cutting speed and feed conditions.



Cartridge type spindle, without need of maintenance. High precision bearings (P4 class). The increased axial tightening force eliminates vibrations at heavy cutting conditions.

Linear guide ways along the three axes - size 35, zero clearance. Stable cutting under full load conditions. Minimum friction when in motion. High precision and high speed with no need for adjustment during operational life.

All ball screws - high precision, class P3, Ø40 mm OD, with a double nut, pre-loaded to control backlash. High precision of positioning and smooth operation.

Directly coupled to the ball screws AC servo motors along all axes: guaranteed excellent interpolation accuracy.

Telescopic guards along the three axes: long life of the ball screws and the linear guideways; fast and efficient flushing of chips by means of coolant liquid.

24 ATC fast tool change magazine - 2.8 sec. Automated air blow during tool change ensures cleaning of the spindle cone and holder..

High-quality housing castings of grey cast iron. Optimum ribbed base, column, spindle casing and table. Ensured for maximum rigidity and minimum bending under applied load conditions..

Fully enclosed electrical cabinet with heat exchanger, accordance to CE requirements.

Ability to implement with Automatic Palette Changer.

Optimum construction: minimum heat deformation; absence of vibrations in working process; high geometry accuracy and smoothness; of finished surfaces.

RAIS SYSTEM M550



TECHNICAL PARAMETERS	UNIT	M500	M550
CAPACITY			
X axis travel	mm	850	1200
Y axis travel	mm	500	600
Z axis travel	mm	510	610
Spindle nose to table	mm	125 - 635	150 - 760
Table size	mm	1000 x 500	1300 x 600
T - slots: number / size / pitch	mm	5 / 18 / 93	5 / 18 / 93
Max workpiece weight	kg	800	1000
Guideways		Linear	Linear
Floor to table	mm	870	870
SPINDLE			
Spindle speed range	rpm	8 000 / 12 000* / 15 000**	8000 / 10 000* / 15 000**
Main motor power (100% ED / 30 min.)	kW	11 / 15	11 / 15
Main motor torque (100% ED / 30 min.)	Nm	52.5 / 95.5	52.5 / 95.5
Spindle taper		SK40 / ISO40 / BT40	SK40 / ISO40 / BT40
ATC			
Tool capacity		24 (32 / 40 / 60)***	24 (32 / 40 / 60)***
Max tool diameter	mm	90	90
Max tool diameter (adjacent pockets empty)	mm	110	110
Max tool length	mm	300	300
Max tool weight	kg	6	6
FEED			
Rapid traverse X / Y / Z	m/min	30 / 30 / 30	30 / 30 / 30
Max cutting feedrate	m/min	10	10
Z axis motor power (100% ED)	kW	2.5	2.5
Z axis motor torque (100% ED)	Nm	20	20
X / Y axes motor power (100% ED)	kW	1.4	1.4
X / Y axes motor torque (100% ED)	Nm	11	11
SIZE			
Machine weight	kg	5000	6500
Machine dimensions (approx.): L x B x H	mm	2900 x 2420 x 2850	3450 x 2805 x 2950
CNC CONTROL			
		Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D / Heidenhain iTNC620)****	
ACCURACY OF THE MACHINE		DIN8605-8607	DIN8605-8607

(*) with direct drive
 (**) with motor spindle
 (***) option
 (****) on customer request

OPTIONAL ACCESSORIES

- 4-th axis, table diameter 250 / 320 mm
- 4-th & 5-th axes, table diameter 200 / 250 / 320 mm
- Direct drive spindle 15 000 rpm
- Tool magazine 32, 40 or 60 tools with arm
- Tool setter
- Touch probe with infra-red connection
- Coolant trough spindle with pump 20 Bar
- Chip conveyor

RAIS SYSTEM
M650

The vertical machining centers M650 and M700 RAIS are designed to perform various machining operations on medium and large-size work pieces in high cutting speed and feed conditions.

Optimum construction: minimum heat deformation; absence of vibrations in working process; high geometry accuracy of finished surfaces.

RAIS SYSTEM
M700

Reinforced spindle assembly with precise grinded parts. Increased size of bearings. High processing speeds under heavy operating conditions.

Telescopic guards along the three axes: long life of the ball screws and the linear guide ways; fast and efficient flushing of chips by means of coolant liquid.

24 ATC fast tool change magazine - 2.8 sec. Automated air blow during tool change.

Fully enclosed machine guarding design provides a safe, dry, clean working environment. Swivel panel of the CNC control. Highest convenience for easy setup and manipulating.

Wide and hardened precise grinded flat slide ways on all axes. Stable work by heavy cutting conditions. Super high grade "Turcite-B" fitted to X, Y, Z slide ways gives 40 % greater stability.

All ball screws - high precision, class P3, Ø40 mm OD, with a double nut, pre-loaded to control backlash. High precision of positioning and smooth operation.

Directly coupled to the ball screws AC servo motors along all axes. Excellent interpolation accuracy.

Guaranteed precision and stability in the long transverse stroke of the four flat guideways surfaces on Y-axis.



TECHNICAL PARAMETERS	UNIT	M650	M700
CAPACITY			
X axis travel	mm	1100	1300
Y axis travel	mm	700	700
Z axis travel	mm	610	710
Spindle nose to table	mm	130 - 740	130 - 840
Table size	mm	1300 x 650	1500 x 650
T - slots: number / size / pitch	mm	5 / 18 / 100	5 / 18 / 100
Max workpiece weight	kg	1000	1000
Guideways		Flat	Flat
Floor to table	mm	820	820
SPINDLE			
Spindle speed range	rpm	8000 / 6000*	8000 / 6000*
Main motor power (100% ED / 30 min.)	kW	11 / 15	11 / 15
Main motor torque (100% ED / 30 min.)	Nm	52.5 / 95.5	52.5 / 95.5
Spindle taper		SK40 / ISO40 / BT40 (50)*	SK40 / ISO40 / BT40 (50)*
ATC			
Tool capacity		24 (32 / 40 / 60)**	24 (32 / 40 / 60)**
Max tool diameter	mm	100 / 125*	100 / 125*
Max tool diameter (adjacent pockets empty)	mm	150 / 200*	150 / 200*
Max tool length	mm	300	300
Max tool weight	kg	7 / 15*	7 / 15*
FEED			
Rapid traverse X / Y / Z	m/min	20 / 20 / 15	20 / 20 / 15
Max cutting feedrate	m/min	10	10
Z axis motor power (100% ED)	kW	2.5	2.5
Z axis motor torque (100% ED)	Nm	20	20
X / Y axes motor power (100% ED)	kW	2.5	2.5
X / Y axes motor torque (100% ED)	Nm	20	20
SIZE			
Machine weight	kg	9000	9000
Machine dimensions (approx.): L x B x H	mm	3200 x 2800 x 3080	3200 x 2800 x 3080
CNC CONTROL		Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D / Heidenhain iTNC620)***	
ACCURACY OF THE MACHINE		DIN8605-8607	DIN8605-8607

(*) option with BT / ISO 50

(**) option

(***) on customer request

OPTIONAL ACCESSORIES

- 4-th & 5-th axes, table diameter 320 mm
- Tool setter
- Touch probe with infra-red connection
- ZF gear box
- Coolant trough spindle with pump 20 Bar
- Tool magazine 32, 40 or 60 tools with arm
- Direct drive spindle 10 000 rpm
- Chip conveyor

RAIS SYSTEM

M800

M1000

M2000

The vertical machining centers M800, M1000 and M2000 RAIS are designed to perform various machining operations on large-size work pieces in high cutting speed and feed conditions.



Optimum machine design: minimum temperature deformation; absence of vibrations in working process; high and stable geometry accuracy.

Directly coupled to the ball screws AC servo motors along all axes.

All ball screws - high precision, class P3, Ø50 mm OD, with a double nut, pre-loaded to control backlash. Screw pre-tensioned to compensate for temperature variations.



Two-step gear box. All gear wheels are hardened and precisely ground to size. Low noise and excellent smoothness during the process. High torque.

Reinforced spindle assembly. 4 - 6 slide way configuration on Y axis.

Fully enclosed electrical cabinet with heat exchanger, accordance to CE requirements.



Wide and hardened precise grinded prismatic slide ways on the three axes. Guaranteed stable work by heavy cutting conditions. Super high grade "Turcite-B" fitted to X, Y, Z slide ways.

24 ATC fast tool change magazine - 2.8 sec. Automated air blow during tool change.



TECHNICAL PARAMETERS	UNIT	M800	M1000	M2000
CAPACITY				
X axis travel	mm	1600	2000	2200
Y axis travel	mm	800	900	1000
Z axis travel	mm	800	800	800
Spindle nose to table	mm	200 - 1000	250 - 1050	250 - 1050
Table size	mm	1800 x 840	2200 x 850	2400 x 1000
T - slots: number / size / pitch	mm	5 / 22 / 100	5 / 22 / 100	5 / 22 / 100
Max workpiece weight	kg	2200	2500	3000
Guideways		Flat	Flat	Flat
Floor to table	mm	900	900	910
SPINDLE				
Spindle speed range	rpm	6000	6000	6000
Main motor power (100% ED / 30 min.)	kW	15 / 18.5	15 / 18.5	15 / 18.5
Main motor torque (100% ED / 30 min.)	Nm	71.6 / 117.8	71.6 / 117.8	71.6 / 117.8
Spindle taper		SK / ISO / BT50	SK / ISO / BT50	SK / ISO / BT50
ATC				
Tool capacity		24 (32 / 40 / 60)*	24 (32 / 40 / 60)*	24 (32 / 40 / 60)*
Max tool diameter	mm	125	125	125
Max tool diameter (adjacent pockets empty)	mm	200	200	200
Max tool length	mm	300	300	300
Max tool weight	kg	15	15	15
FEED				
Rapid traverse X / Y / Z	m/min	20 / 20 / 15	20 / 20 / 15	20 / 20 / 15
Max cutting feedrate	m/min	10	10	10
Z axis motor power (100% ED)	kW	3	3	3
Z axis motor torque (100% ED)	Nm	27	27	27
X / Y axes motor power (100% ED)	kW	3	3	3
X / Y axes motor torque (100% ED)	Nm	27	27	27
SIZE				
Machine weight	kg	14 000	16 000	24 000
Machine dimensions (approx.): L x B x H	mm	4400 x 3300 x 3300	5500 x 3435 x 3310	6130 x 4200 x 3660
CNC CONTROL				
Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D / Heidenhain iTNC620)**				
ACCURACY OF THE MACHINE		DIN8605-8607	DIN8605-8607	DIN8605-8607

(*) option

(**) on customer request

OPTIONAL ACCESSORIES

- 4-th & 5-th axes, table diameter 320, 350 mm
- Tool setter
- Touch probe with infra-red connection
- Direct drive spindle 6000 rpm
- Tool magazine 32, 40 or 60 tools with arm
- Coolant trough spindle with pump 20 or 70 Bar

RAIS SYSTEM
GM350

The 5-axes vertical machining center RAIS GM350 is designed to perform various machining operations with high cutting speed and feed conditions for:

- Aerospace industry
- Automotive industry
- Die & Mold
- Medical industry



Optimum machine design: minimum temperature deformation; absence of vibrations in working process; high and stable geometry accuracy of finished surfaces.



The 5-axis machine can also deal with complex parts from aluminum to stainless steel.

32 ATC fast tool change magazine. Automated air blow during tool change.

Directly coupled to the ball screws AC servo motors along all axes.

All ball screws - high precision, class P3, Ø40 mm OD, with a double nut, pre-loaded to control backlash. Screw pre-tensioned to compensate for temperature variations.

All roller linear guides across all axes for rigidity structure.

Convenient workpiece loading and unloading thanks to large door opening.



TECHNICAL PARAMETERS	UNIT	GM350
CAPACITY		
X axis travel	mm	650
Y axis travel	mm	1020
Z axis travel	mm	550
Spindle nose to table	mm	100 - 650
Max tilting on A axis	deg	+/- 120
Max rotating on C axis	deg	+/- 360
Table size	mm	Ø350 / 800 x 480*
T - slots: number / size	mm	5 / 18H7
Max workpiece weight: horizontal / 90°	kg	300 / 200
Guideways		Linear
Floor to table	mm	840
SPINDLE		
Spindle speed range	rpm	15 000
Main motor power (100% ED / 30 min.)*	kW	15 / 18,5
Main motor torque (100% ED)	Nm	95
Spindle taper		SK40 / ISO40 / BT40
ATC		
Tool capacity		32
Max tool diameter	mm	70
Max tool diameter (adjacent pockets empty)	mm	100
Max tool length	mm	250
Max tool weight	kg	6
FEED		
Rapid traverse X / Y / Z	m/min	30 / 30 / 30
Max cutting feedrate	m/min	10
Z axis motor power (100% ED)	kW	1.4
Z axis motor torque (100% ED)	Nm	11
X / Y axes motor power (100% ED)	kW	1.8
X / Y axes motor torque (100% ED)	Nm	11
SIZE		
Machine weight	kg	12 000
Machine dimensions (approx.): L x B x H	mm	2900 x 3650 x 3300
CNC CONTROL		Fanuc Oi (Fanuc 32i / Siemens 828D / Siemens 840D / Heidenhain iTNC620)***
ACCURACY OF THE MACHINE		DIN8605-8607

(*) option

(**) option with Fanuc equipment

(***) on customer request

OPTIONAL ACCESSORIES

- 4-th & 5-th axes, table diameter 500 mm
- Tool setter
- Touch probe with infra-red connection

- Flat working table 800 x 480 mm
- Coolant trough spindle with pump 20 or 70 Bar

RAIS SYSTEM
VMC350
VMC500



The machine design is distinguished by minimal temperature deformation; absence of vibrations in working process; high and stable geometry accuracy of finished surfaces.



The 5-axes vertical machining centers RAIS VMC350 / VMC500 are designed to perform various machining operations with high cutting speed and feed conditions for Aerospace industry, Automotive industry, Die & Mold, Medical industry.

All VMC machines are designed to operate with direct drive spindle - to avoid noise and vibration.

24 ATC fast tool change magazine. Automated air blow during tool change.

Directly coupled to the ball screws AC servo motors along all axes.

All ball screws - high precision, class P3, Ø40 mm OD, with a double nut, pre-loaded to control backlash. Screw pre-tensioned to compensate for temperature variations.

The 5-axes machine can also deal with complex parts from aluminum to stainless steel.



TECHNICAL PARAMETERS	UNIT	VMC350	VMC500
CAPACITY			
X axis travel	mm	600	600
Y axis travel	mm	560	560
Z axis travel	mm	510	510
Spindle nose to table	mm	150 - 510	150 - 510
Max tilting on A axis	deg	+ 125 / -10	+ 125 / -10
Max rotating on C axis	deg	+/- 360	+/- 360
Table size	mm	Ø350	580 x 520
T - slots: number / size	mm	8 / 14H7	8 / 14H7
Max workpiece weight: horizontal / 90°	kg	300 / 200	300 / 200
Guideways		Linear	Linear
Floor to table	mm	720	720
SPINDLE			
Spindle speed range	rpm	8000 / 12 000* / 15 000*	8000 / 12 000* / 15 000*
Main motor power (100% ED / 30 min.):**	kW	9 / 25	9 / 25
Main motor torque (100% ED)	Nm	57 / 135	57 / 135
Spindle taper		SK40 / ISO40 / BT40	SK40 / ISO40 / BT40
ATC			
Tool capacity		24 (32 / 40 / 60)*	24 (32 / 40 / 60)*
Max tool diameter	mm	80	80
Max tool diameter (adjacent pockets empty)	mm	110	110
Max tool length	mm	350	350
Max tool weight	kg	6	6
FEED			
Rapid traverse X / Y / Z	m/min	30 / 30 / 30	30 / 30 / 30
Max cutting feedrate	m/min	20	20
Z axis motor power (100% ED)	kW	1.4	1.4
Z axis motor torque (100% ED)	Nm	11	11
X / Y axes motor power (100% ED)	kW	1.8	1.8
X / Y axes motor torque (100% ED)	Nm	11	11
SIZE			
Machine weight	kg	7500	7500
Machine dimensions (approx.): L x B x H	mm	3800 x 3050 x 3100	3800 x 3050 x 3100
CNC CONTROL			
Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D / Heidenhain iTNC620)***			
ACCURACY OF THE MACHINE		DIN8605-8607	DIN8605-8607

(*) option

(**) option with Fanuc equipment

(***) on customer request

OPTIONAL ACCESSORIES

- Direct drive spindle 12 000 rpm and 15 000 rpm
- Tool setter
- Touch probe with infra-red connection
- Coolant trough spindle with pump 20 or 70 Bar

SELECTABLE CNC CONTROL

FANUC



SIEMENS



TOOL SETTER



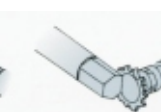
VDI SERVO TURRET WITH C + Y AXES



Drilling



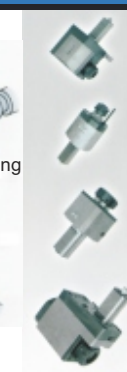
Threadcutting



Plan or Face Milling



Milling of slots



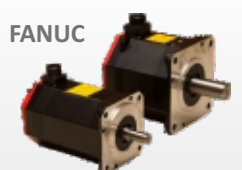
BAR FEEDER



Automatic bar feeders 1.2 or 1.5 m for all type profiles of material.
Hydrodynamic 2.5, 3.2 and 3.7 m automatic bar feeders.

SPINDLE MOTORS

FANUC

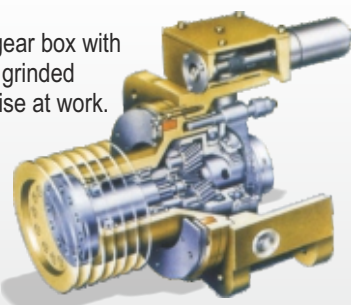


SIEMENS



ZF GEAR BOX

Three-speed gear box with hardened and grinded gears. Low noise at work. High torque.



ROBOTIC ARM



PART CATCHER



PROGRAMMABLE TAILSTOCK



AUTOMATIC COLLET CHUCK



RAIS SYSTEM
T200

The precise T200 RAIS CNC lathe is designed to perform a wide range of turning operations on medium-sized parts and components on a serial production basis.



STANDARD ACCESSORIES

- 3-jaw through-hole power chuck
- Tailstock
- 8 station turret VDI 30
- Chip conveyor and cart
- Coolant system
- Working lamp
- Automatic lubrication system for axis ways and ball screws
- Foot switch for chuck operation

High production capacity, stability and speed of all turning operations on various types of material.

Precise spindle assembly mounted in a temperature-stabilized and ribbed casing by means of class P4 spindle bearings featuring minimum radial runout and minimum axial clearance. Guaranteed high cutting speed with no vibration.

Linear (integrated) guideways: precise SP/P-class along X and Z axes. Precise ball screws (class P3) with a pre-loaded double nut and minimum backlash.

High precision of part positioning and long life. Minimized temperature and vibration deviations.

OPTIONAL ACCESSORIES

- 12 tools turret (VDI 30) and C-axis of the spindle
- Part catcher
- Bar feeder 1.2 m
- Bar feeder interface
- Non through-hole power chuck
- Auto tools presetter
- Collet chuck
- Heat exchanger for electrical cabinet



TECHNICAL PARAMETERS	UNIT	T200
CAPACITY		
Max swing over bed	mm	420
Swing over carriage cover	mm	330
Max turning diameter	mm	200 / 250***
X axis travel	mm	165 + 10
Z axis travel	mm	460 / 370*
X / Z axis rapid traverse	m/mm	12 / 20
Ball screw (X / Z): diameter x pitch	mm	32x5 / 40x10
Guideways		Integrated, size 30(X); 35(Z)
Carriage inclination	deg	45
Spindle center height (from floor)	mm	1020
SPINDLE		
Spindle nose		A2-5 / A2-6*
Spindle bore	mm	52 / 62*
Power chuck diameter	mm	170 / 205*
Spindle motor 100% ED / 30 min.**	kW	11 / 15
Main motor torque 100% ED / 30 min.**	Nm	52.5 / 95
Max spindle speed	rpm	6000 / 4200*
Bar capacity	mm	41 / 51*
Power chucking system		Hydraulic
TURRET		
Number of tool posts		8 / 12*
Number of rotating tools		12*
Tool holder		VDI 30 / BMT*
Torque of rotating tools 100% / 40% / max.**	Nm	12*
Y axis on turret 1		Option
TAILSTOCK		
Tailstock quill taper		MK4
Quill travel	mm	90
Quill diameter	mm	50
SIZE		
Machine weight	kg	3750
Machine dimensions (approx.): L x B x H	mm	3316 x 1622 x 1911
CNC CONTROL		Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D)****
ACCURACY OF THE MACHINE		DIN8605-8607

(*) option

(**) technical data for Fanuc equipment

(***) with 12 station turret

(****) on customer request

RAIS SYSTEM T250

The super precision T250 RAIS CNC lathe is designed to perform a wide range of turning operations on medium-sized parts and components on a serial production basis.



STANDARD ACCESSORIES

- 3-jaw through-hole power chuck
- Tailstock
- 10 station turret VDI 30
- Chip conveyor and cart
- Coolant system
- Working lamp
- Automatic lubrication system for axis ways and ball screws
- Foot switch for chuck operation



All structural parts are manufactured from high quality Meehanite cast iron and stress relieved for deformation.

The 45° slant bed construction assures high accuracy and high rigidity for heavy duty cutting.

High strength hardness guide and low resistance design provide prefer cutting surface.

The spindle is mounted with high precision class P4 NN type roller bearings and trust bearings, providing outstanding radial and trust loads.

Transmission with low thermal, preload ball screws, provided higher rigidity control.

Hydraulic tailstock. Programmable positioning is available.

OPTIONAL ACCESSORIES

- 12 tools turret (VDI 30) and C-axis of the spindle
- Part catcher
- Bar feeder 1.5 m
- Bar feeder interface
- Non through-hole power chuck
- Auto tools presetter
- Coolant system (high pressure: 20 Bar)
- Heat exchanger for electrical cabinet



TECHNICAL PARAMETERS	UNIT	T250
CAPACITY		
Max swing over bed	mm	510
Swing over carriage cover	mm	310
Max turning diameter	mm	310 / 250***
X axis travel	mm	155 + 30
Z axis travel	mm	600
X / Z axis rapid traverse	m/mm	12 / 20
Ball screw (X / Z): diameter x pitch	mm	32x10 / 40x10
Guideways		Prismatic
Carriage inclination	deg	45
Spindle center height (from floor)	mm	1120
SPINDLE		
Spindle nose		A2-6 / A2-8*
Spindle bore	mm	61 / 87*
Power chuck diameter	mm	205 / 250*
Spindle motor 100% ED / 30 min.**	kW	9 / 11
Main motor torque 100% ED / 30 min.**	Nm	85.9 / 140
Max spindle speed	rpm	4200 / 3500*
Bar capacity	mm	51 / 74*
Power chucking system		Hydraulic
TURRET		
Number of tool posts		10 / 12*
Number of rotating tools		12*
Tool holder		VDI 30 / VDI 40* / BMT*
Torque of rotating tools 100% / 40% / max.**	Nm	12
Y axis on turret 1		Option
TAILSTOCK		
Tailstock quill taper		MK4
Quill travel	mm	120
Quill diameter	mm	80
SIZE		
Machine weight	kg	5200 / 5350*
Machine dimensions (approx.): L x B x H	mm	3910 x 1700 x 1950
CNC CONTROL		Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D)****
ACCURACY OF THE MACHINE		DIN8605-8607

(*) option

(**) technical data for Fanuc equipment

(***) with 12 station turret

(****) on customer request

RAIS SYSTEM T350 T400

The super precision T350 and T400 RAIS CNC lathes are designed to perform a wide range of turning operations on medium-sized parts and components on a serial production basis.



STANDARD ACCESSORIES

- 3-jaw through-hole power chuck
- Tailstock
- 12 station turret
- Chip conveyor and cart
- Coolant system
- Working lamp
- Automatic lubrication system for axis ways and ball screws
- Foot switch for chuck operation

All structural parts are manufactured from high quality Meehanite cast iron and stress relieved for deformation.

The 45° slant bed construction assures high accuracy and high rigidity for heavy duty cutting.

High strength hardness guide and low resistance design provide prefer cutting surface.

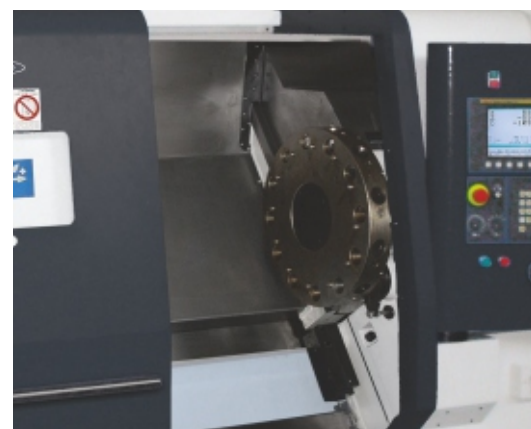
The spindle is mounted with high precision class P4 NN type roller bearings and trust bearings, providing outstanding radial and trust loads.

Transmission with low thermal, preload ball screws, provided higher rigidity control.

Hydraulic tailstock. Programmable positioning is available.

OPTIONAL ACCESSORIES

- 12 station tools turret (VDI 40) with 12 rotating tools
- C-axis of the spindle
- Non through-hole power chuck
- Part catcher
- Bar feeder 1.5 m
- Bar feeder interface
- Auto tools presetter
- Coolant system (high pressure: 20 Bar)
- Heat exchanger for electrical cabinet



Fully enclosed protection of the operational area.



TECHNICAL PARAMETERS	UNIT	T350	T400
CAPACITY			
Max swing over bed	mm	600	700
Swing over carriage cover	mm	400	450
Max turning diameter	mm	400	450
X axis travel	mm	210 + 40	235 + 30
Z axis travel	mm	600	600 / 1200*
X / Z axis rapid traverse	m/mm	20	20
Ball screw (X / Z): diameter x pitch	mm	32x10 / 40x10	40x10 / 50x10
Guideways		Prismatic	Prismatic
Carriage inclination	deg	45	45
SPINDLE			
Spindle nose		A2-8	A2-11 / A2-8*
Spindle bore	mm	92	95
Power chuck diameter	mm	250 / 315*	380 / 315*
Spindle motor 100% ED / 30 min.**	kW	18.5 / 22	18.5 / 22
Main motor torque 100% ED / 30 min.**	Nm	52.5 / 95.5	52.5 / 95.5
Max spindle speed	rpm	3000	2500 / 3000*
Bar capacity	mm	76	76
Power chucking system		Hydraulic	Hydraulic
TURRET			
Number of tool posts		12	12
Number of rotating tools		12*	12*
Tool holder		VDI 40 / BMT*	VDI 40 / BMT*
Torque of rotating tools 100% / 40% / max.**	Nm	12*	12*
TAILSTOCK			
Tailstock quill taper		MK5	MK5
Quill travel	mm	100	100
Quill diameter	mm	80	80
SIZE			
Machine weight	kg	5600	6200 / 5800*
Machine dimensions (approx.): L x B x H	mm	3200 x 2200 x 2000	4400 / 3200* x 2200 x 2000
CNC CONTROL		Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D)***	
ACCURACY OF THE MACHINE		DIN8605-8607	DIN8605-8607

(*) option

(**) technical data for Fanuc equipment

(***) on customer request

RAIS SYSTEM
T500
T600

The T500, T600 and T700 RAIS CNC lathes are designed for the machining of large-size rotational component parts with high power of cutting and feeding. Optimum design; lack of vibration during operation; high and stable geometric precision.



A spindle seated in precise double-row roller bearings. Stable cutting operation even by large chip thicknesses.

Three-step spindle gear box. Smooth switching between gears with high torque. All gear wheels are made of alloy steel, hardened and precisely ground to size. Low noise and excellent smoothness of cut.

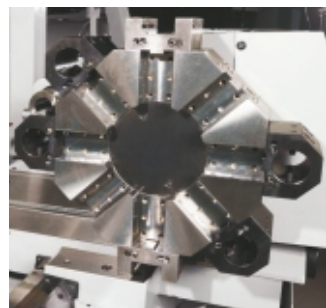
Precise ball-screws (class P5) with a double-tightened nut and minimum backlash. Impressive precision of part positioning.

Hardened and fine-ground longitudinal and transverse guides. Guaranteed stable cut under heavy-duty conditions.

Super high grade fitted slides with "Turcite-B". Minimum friction when moving. High precision and smoothness of operation.

RAIS SYSTEM
T700

These outstanding features enable stable heavy duty in continuous operation for a highly productive serial details.



OPTIONAL ACCESSORIES

- 3-jaw through-hole power chuck Ø315 mm
- Follow and steady rest
- 12 station VDI turret with C-axes for rotating tools
- Hydraulic clamped tail stock
- Milling tool holder



TECHNICAL PARAMETERS	UNIT	T500	T600	T700
CAPACITY				
Max swing over bed	mm	610	710	760
Max swing over cross slide	mm	390	490	540
Max swing over gap	mm	790	890	940
X axis travel	mm	405	405	405
Distance between centers (DBC)	mm	930 / 1430 / 1930 / 2930	930 / 1430 / 1930 / 2930	930 / 1430 / 1930 / 2930 / 3930
Z axis travel (maximal turned length)	mm	970 / 1430 / 1970 / 2970	970 / 1470 / 1970 / 2970	970 / 1470 / 1970 / 2970 / 3970
Width of bed	mm	450	450	450
Spindle center height (from the guides)	mm	305	355	380
X / Z axis rapid traverse	m/mm	6 / 10	6 / 10	6 / 10
Ball screw (X / Z): diameter x pitch	mm	32x5 / 50x10	32x5 / 50x10	32x5 / 50x10
Guideways		Prismatic, HB>450	Prismatic, HB>450	Prismatic, HB>450

SPINDLE				
Spindle nose		D1-11 / A2-11 (D1-15 / A2-15)*	D1-11 / A2-11 (D1-15 / A2-15)*	D1-11 / A2-11 (D1-15 / A2-15)*
Spindle bore	mm	105 / 155*	105 / 155*	105 / 155*
Chuck: manual, 3-jaw	mm	315 / 400*	315 / 400*	315 / 400*
Max spindle speed	rpm	2200	1500	1500
Spindle motor	kW	7.5 / 15*	7.5 / 15	7.5 / 15*

TURRET				
Type		Vertical, 4 station (8 / 12 VDI 40)*	Vertical, 4 station (8 / 12 VDI 40)*	Vertical, 4 station (8 / 12 VDI 40)*
Number of tool posts		4 (8 / 10 / 12)*	4 (8 / 12)*	4 (8 / 12)*
Turning tool shank dimensions	mm	25 x 25	25 x 25	25 x 25
Max boring bar diameter	mm	40	40	40
Tool travel behind center line	mm	20	20	30

TAILSTOCK				
Tailstock quill taper		MK5	MK5	MK5 / MK6*
Quill travel	mm	225	225	225
Quill diameter	mm	105	105	105

SIZE				
Machine weight	kg	4100 / 4300 / 4900 / 5700	4000 / 4400 / 5000 / 5800	4200 / 4400 / 5000 / 5800 / 6600
Machine dimensions (approx.): L x B x H	mm	2700 / 3200 / 3700 / 4700 x 1750 x 1620	3000 / 3500 / 4000 / 5000 x 1750 x 1620	2700 / 3200 / 3700 / 4700 / 5700 x 5415 x 1980

CNC CONTROL		Fanuc Oi (Fanuc 32i / Siemens 828D / Siemens 840D)***		
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ACCURACY OF THE MACHINE	DIN8605-8607	DIN8605-8607	DIN8605-8607
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(*) option

(**) technical data for Fanuc equipment

(***) on customer request

RAIS SYSTEM T202-2S

The double spindle T202-2S RAIS CNC lathe is designed to perform a wide range of complex turning operations on medium-sized parts and components on a serial production basis.



High production capacity, stability and speed of all turning operations on various types of material.

STANDARD ACCESSORIES

- 3-jaw through-hole power chucks
- 12 tools turret VDI 30
- Chip conveyor and cart
- Coolant system
- Working lamp
- Automatic lubrication system for axis ways and ball screws
- Foot switches for chuck operation

Precise spindle assembly mounted in a temperature-stabilized and ribbed casing by means of class P4 spindle bearings featuring minimum radial runout and minimum axial clearance. Guaranteed high cutting speed with no vibration.

Precise ballscrews (class P3) with a pre-loaded double nut and minimum backlash. High precision of part positioning and long life.

Linear guideways along the two axes - zero clearance. Minimum friction when in motion. High precision and high speed with no need for adjustment during operational life. Minimized temperature and vibration deviations.

Fully enclosed protection of the operational area. Telescopic guards for the guides.



TECHNICAL PARAMETERS	UNIT	T202-2S
CAPACITY		
Max swing over bed	mm	550
Swing over carriage cover	mm	330
Max turning diameter	mm	200
X axis travel	mm	165 + 10
Z axis travel (Z1 / Z2)	mm	380 / 370
X / Z axis rapid traverse	m/mm	12 / 20
Ball screw (X / Z): diameter x pitch	mm	32x5 / 40x10
Guideways		Integrated, size 30(X); 35(Z)
Carriage inclination	deg	45
Spindle center height (from floor)	mm	1020
SPINDLE		
		MAIN SPINDLE SUB SPINDLE
Spindle nose		A2-6 / A2-5* A2-4
Spindle bore	mm	62 / 52* 36
Power chuck diameter	mm	205 / 170* 135
Spindle motor 100% ED / 30 min.**	kW	11 / 15 3.7 / 5.5
Main motor torque	Nm	52.5 / 95 35.3 / 70
Max spindle speed	rpm	4200 / 6000* 4500
Bar capacity	mm	51 / 41* 26
Power chucking system		Hydraulic Hydraulic
TURRET		
Number of tool posts		12
Number of rotating tools		12*
Tool holder		VDI 30 / BMT*
Torque tools	Nm	12*
Y axis on turret 1		Option
SIZE		
Machine weight	kg	3750
Machine dimensions (approx.): L x B x H	mm	3316 x 1622 x 1911
CNC CONTROL		
		Fanuc Oi (Fanuc 32i / Siemens 828D / Siemens 840D)***
ACCURACY OF THE MACHINE		
		DIN8605-8607

(*) option

(**) technical data for Fanuc equipment

(***) on customer request

OPTIONAL ACCESSORIES

- 12 station BMT turret and C-axes of the spindles
- Auto tools presetter
- Bar feeder 1.2 / 3.2 m
- Bar feeder interface
- Y axis
- Part catcher
- Collet chuck
- Heat exchanger for electrical cabinet

RAIS SYSTEM T252-2S

The double spindle T252-2S RAIS CNC lathe is designed to perform a wide range of complex turning operations with simultaneous operation of both spindles and two turrets into series production.



An exclusively stable and rigid construction for maximum lathe productivity.

STANDARD ACCESSORIES

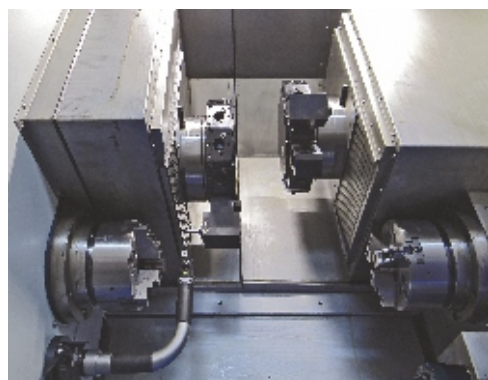
- 3-jaw through-hole power chuck
- 12 station turrets
- Chip conveyor and cart
- Coolant system
- Working lamp
- Automatic lubrication system for axis ways and ball screws
- Foot switches for chuck operation

All structural parts are manufactured from high quality Meehanite cast iron and stress relieved for deformation.

The 45° slant bed construction assures high accuracy and high rigidity for heavy duty cutting.

Linear guideways: precise SP / P-class along X / Z1, Z2 axes - zero clearance.

Dynamically balanced spindles - cassette type. An exclusive resistance in radial and axial loads.



OPTIONAL ACCESSORIES

- 12 tools turret head (VDI 40)
- C-axis of the spindle
- Part catcher
- Bar feeder 1.5 m / 3.2 m
- Bar feeder interface
- Non through-hole power chuck
- Auto tools presetter
- Coolant system (high pressure: 20 Bar)
- Heat exchanger for electrical cabinet



TECHNICAL PARAMETERS		UNIT	T252-2S
CAPACITY			
Max swing over bed	mm	210	
Swing over carriage cover	mm	210	
Max turning diameter	mm	200	
X axis travel	mm	170 + 15	
Z axis travel (Z1 / Z2)	mm	270 / 700	
Y axis travel	mm	±30	
X / Y / Z axis rapid traverse	m/mm	12 / 20 / 10	
Ball screw (X / Z): diameter x pitch	mm	32x5 / 40x10	
Guideways	Integrated, size 30 (X1); 30 (X2); 32 (Z1); 40 (Z2); box way (Y)		
Carriage inclination	deg	45	
Spindle center height (from floor)	mm	965	
SPINDLE		MAIN SPINDLE	SUB SPINDLE
Spindle nose		A2-5 / A2-6*	A2-5 / A2-6*
Spindle bore	mm	51 / 65*	51 / 65*
Power chuck diameter	mm	170 / 210*	170 / 210*
Spindle motor 100% ED / 30 min.**	kW	11 / 15	11 / 15
Main motor torque	Nm	85.9 / 140	85.9 / 140
Max spindle speed	rpm	6000 / 4500*	6000 / 4500*
Bar capacity	mm	42 / 51*	42 / 51*
Power chucking system		Hydraulic	Hydraulic
TURRET		TURRET 1	TURRET 2
Number of tool posts		12	12
Number of rotating tools		12*	12*
Tool holder		VDI 30 / BMT*	VDI 30 / BMT*
Torque tools	Nm	11	11
Y axis on turret 1		Option	
SIZE			
Machine weight	kg	5700	
Machine dimensions (approx.): L x B x H	mm	4230 x 1750 x 2050	
CNC CONTROL		Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D)***	
ACCURACY OF THE MACHINE		DIN8605-8607	

(*) option

(**) technical data for Fanuc equipment

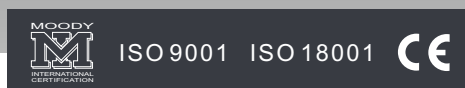
(***) on customer request

RAIS SYSTEM T250-2S			
TECHNICAL PARAMETERS		UNIT	T250-2S
CAPACITY			
Max swing over bed		mm	510
Swing over carriage cover		mm	310
Max turning diameter		mm	310 / 250***
X axis travel		mm	155 + 30
Z axis travel		mm	600
X / Z axis rapid traverse		m/mm	12 / 20
Ball screw (X / Z): diameter x pitch		mm	32x10 / 40x10
Guideways			Prismatic
Carriage inclination		deg	45
Spindle center height (from floor)		mm	1120
SPINDLE		MAIN SPINDLE	SUB SPINDLE
Spindle nose		A2-6 / A2-8*	A2-5
Spindle bore		mm	61 / 87*
Power chuck diameter		mm	205 / 250*
Spindle motor 100% ED / 30 min.**		kW	9 / 11
Main motor torque 100% ED / 30 min.**		Nm	85.9 / 140
Max spindle speed		rpm	4200 / 3500*
Bar capacity		mm	51 / 74*
Power chucking system			Hydraulic
TURRET			
Number of tool posts			10 / 12*
Number of rotating tools			12*
Tool holder			VDI 30 / VDI 40* / BMT*
Torque of rotating tools 100% / 40% / max.**		Nm	12
Y axis on turret 1			Option
TAILSTOCK			
Tailstock quill taper			MK4
Quill travel		mm	120
Quill diameter		mm	80
SIZE			
Machine weight		kg	5200 / 5350*
Machine dimensions (approx.): L x B x H		mm	3910 x 1700 x 1950
CNC CONTROL			Fanuc Oi (Fanuc 32i / Siemens 828D / Siemens 840D)****
ACCURACY OF THE MACHINE			DIN8605-8607
(*) option (**) technical data for Fanuc equipment (***) whith 12 station turret (****) on customer request			
OPTIONAL ACCESSORIES			
■ 12 tools turret head (VDI 40)			
■ C-axis of the spindle			
■ Part catcher			
■ Bar feeder 1.5 / 3.2 m			
■ Bar feeder interface			
■ Heat exchanger for electrical cabinet			
■ Non through-hole power chuck			
■ Auto tools presetter			
■ Coolant system (high pressure: 20 Bar)			

RAIS SYSTEM					
T350-2S/T400-2S					
TECHNICAL PARAMETERS		UNIT	T350-2S	T400-2S	
CAPACITY					
Max swing over bed	mm		600	700	
Swing over carriage cover	mm		400	450	
Max turning diameter	mm		400	450	
X axis travel	mm		210 + 40	235 + 30	
Z axis travel	mm		600	600 / 1200*	
X / Z axis rapid traverse	m/mm		20	20	
Ball screw (X / Z): diameter x pitch	mm		32x10 / 40x10	40x10 / 50x10	
Guideways			Prismatic	Prismatic	
Carriage inclination	deg		45	45	
SPINDLE					
		MAIN SPINDLE	SUB SPINDLE	MAIN SPINDLE	SUB SPINDLE
Spindle nose		A2-8	A2-5	A2-6 / A2-8*	A2-5
Spindle bore	mm	92	52	61 / 87*	52
Power chuck diameter	mm	250 / 315*	169	205 / 250*	169
Spindle motor 100% ED / 30 min.**	kW	18.5 / 22	11 / 15	18.5 / 22	11 / 15
Main motor torque 100% ED / 30 min.**	Nm	52.5 / 95.5	52.5 / 95.5	85.9 / 140	52.5 / 95.5
Max spindle speed	rpm	3000	6000	4200 / 3500*	6000
Bar capacity	mm	76	41	51 / 74*	41
Power chucking system		Hydraulic	Hydraulic	Hydraulic	Hydraulic
TURRET					
Number of tool posts			12		12
Number of rotating tools			12*		12*
Tool holder			VDI 40 / BMT*		VDI 40 / BMT*
Torque of rotating tools 100% / 40% / max.**	Nm		12*		12*
TAILSTOCK					
Tailstock quill taper			MK5		MK5
Quill travel	mm		100		100
Quill diameter	mm		80		80
SIZE					
Machine weight	kg		5600		5800 / 6200*
Machine dimensions (approx.): L x B x H	mm		4100 x 2200 x 2000		4400 x 2200 x 2000
CNC CONTROL					
Fanuc 0i (Fanuc 32i / Siemens 828D / Siemens 840D)***					
ACCURACY OF THE MACHINE			DIN8605-8607		DIN8605-8607
(*) option					
(**) technical data for Fanuc equipment					
(***) on customer request					
OPTIONAL ACCESSORIES					
■ 12 station tools turret (VDI 40) with 12 rotating tools					
■ C-axis of the spindle					
■ Non through-hole power chuck					
■ Part catcher					
■ Bar feeder 1.5 m					
■ Bar feeder interface					
■ Auto tools presetter					
■ Coolant system (high pressure: 20 Bar)					
■ Heat exchanger for electrical cabinet					



In Quality we trust



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Manufacturer's specifications are accurate as of the date of publication and may be changed without prior notice to incorporate improvements resulting from ongoing research and development programs.