KFM KEEPWAY

TURNING CENTER

KEEP IT GOING

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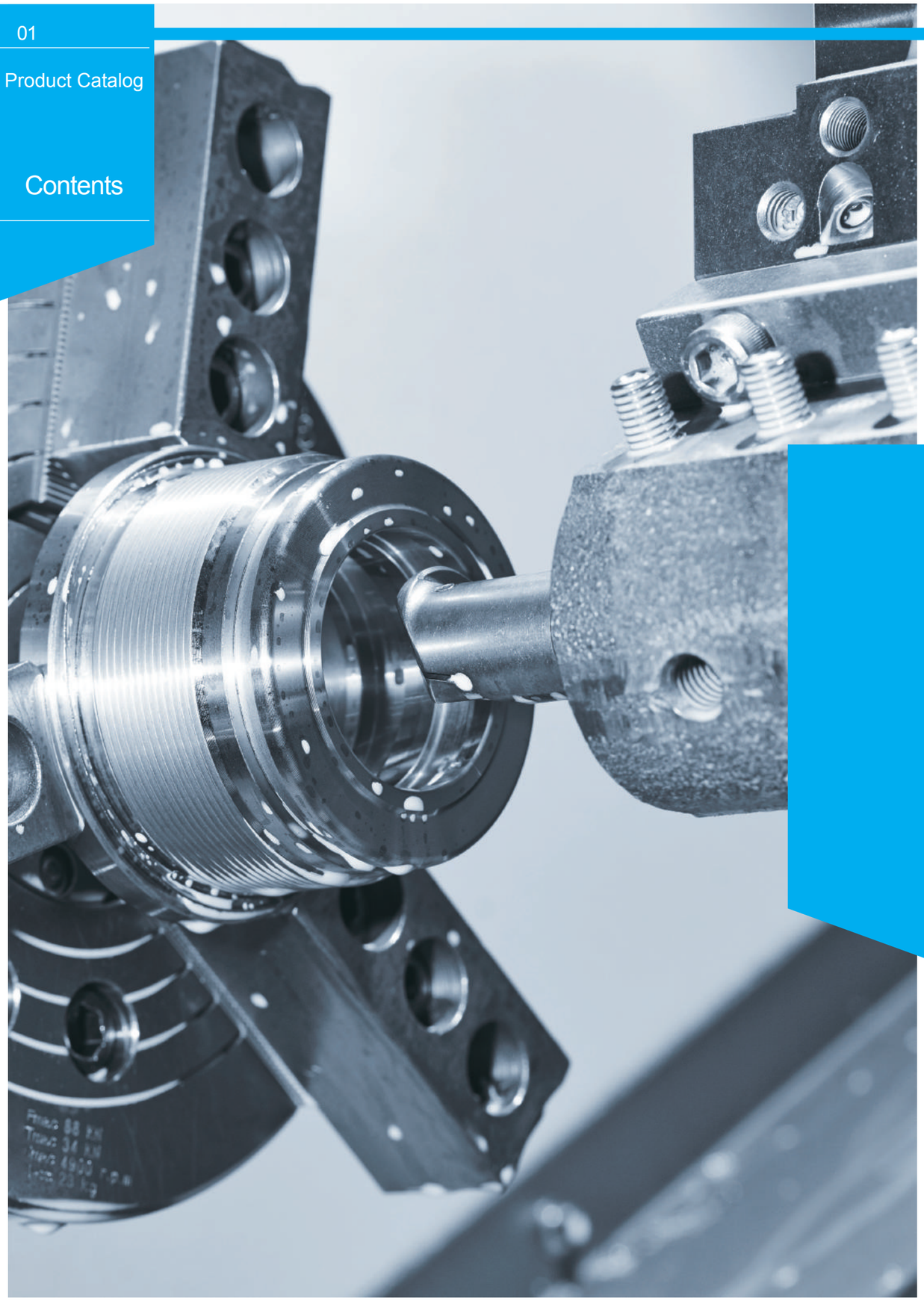

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KEEP IT GOING

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KEEP IT GOING

" KEEP IT GOING"

About Us

KAIFENG MACHINERY CO., LTD. (KFM | KEEPWAY) is considered as one of the leading manufactures for machine tools in Taichung, Taiwan with four offices across the whole Asia region, including the head office in Taichung Industrial Park, Taiwan.

The current business scope covers Greater China, South East Asia, Middle East, Europe, North America and South America. All the products are qualified with CE safety certification and numerous patents. With our persistent search of new technology and continuous innovation, KFM | KEEPWAY is your best partner with the most potential to work with.

Background and Development

Founded in 2002 and headquarter in Taiwan, KAIFENG MACHINERY CO., LTD. (KFM | KEEPWAY) is one of the biggest manufacturers for machine tools in the area. The company offers products and service of both CNC lathe (linear/box guideway) and vertical machining center (linear guideway). With the trend of going unmanned manufacturing and management due to the raising labor cost, we also offer automation options to better serve the needs of our clients.

Certificate / Patent

(KFM | KEEPWAY) has been trying to ensure the quality of our products to meet up with all the necessary international standards/qualifications. All the machine products are qualified with CE safety certification and numerous patents.

Certificate of Compliance

Connect us

Facebook : @keepwaycnc
GooglePlus : keepway
YouTube : Kaifeng Machinery
Instagram : keepwaycnc

2002 Kaifeng Machinery

Kaifeng Machinery Co., Ltd was founded by Mr. Chiu in 2002 in Taichung, Taiwan. Mr. Chiu was at one point one of the biggest distributors of machine tools in Taiwan. He has a strong passion towards machine tools ever since he entered into this industry since 1980s and even to this day he still works persistently to provide more to our customers.

2003 Machining Center Development

Machining Center Development – KFM | KEEPWAY started the production line with the development of machining center while planning the development of lathe machine series on the side.

2005 CNC Turning Center Development

CNC Turning Centre Development – KFM | KEEPWAY started the production line with the focus on machining center product line while developing the lathe machine series on the side.

2012 Kaifeng Machinery 10th Year Anniversary

Kaifeng Machinery 10th Year Anniversary – Since 2002, KFM | KEEPWAY has developed over 20 different products. It has been quite a journey and yet we are still expanding our product line to meet the needs of our clients to this day.

2014 New Compact CNC Turning Centre Launched

Newly Launched Compact CNC Turning Centre Development – KT-16 is a machine with a compact floor space design to fulfill the needs of minimizing the floor space taken to as much as possible but not compromise the machine performance.

Global Market Coverage

Ho Chi Minh, Vietnam
Sunmax Service Trading Company Limited
T: +84-8-37195337
F: +84-8-37195358
A: No 168A, Quoc Lo 1A street, An Phu Dong Ward, Dist. 12, Ho Chi Minh City, Vietnam

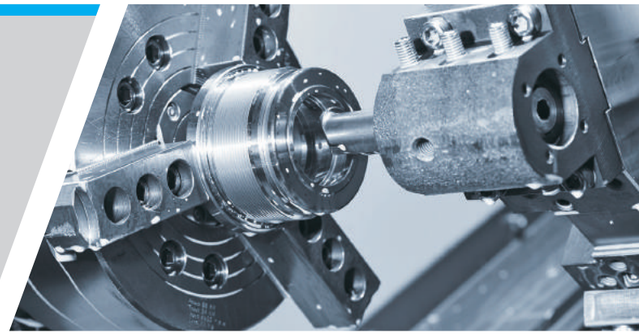
Fujian, China
Zhangzhou Kaifeng Machinery Co., Ltd.
T: +86-596-8323212
F: +86-596-8323212
A: No. 25, Shunhe Rd., Silver Pond Industrial Area, Changtai County, Zhangzhou City, Fujian Province, China 363900

Taichung City, Taiwan
Kaifeng Machinery Co., Ltd.
T : +886-4-2359-8133
F : +886-4-2359-8733
A : No.19, 31St Street, Xitun Dist, Taichung Industrial Park, Taichung City, Taiwan

Our Vision

We believe in treating our customers with respect and faith. We grow through creativity, invention and innovation. We integrate honesty, integrity and business ethics into all aspects of our business management.

Our mission is to expand regionally in the field of CNC machine supplier and develop a strong base of key customers to be able to build good reputation in the field and become a key player in the industry globally.

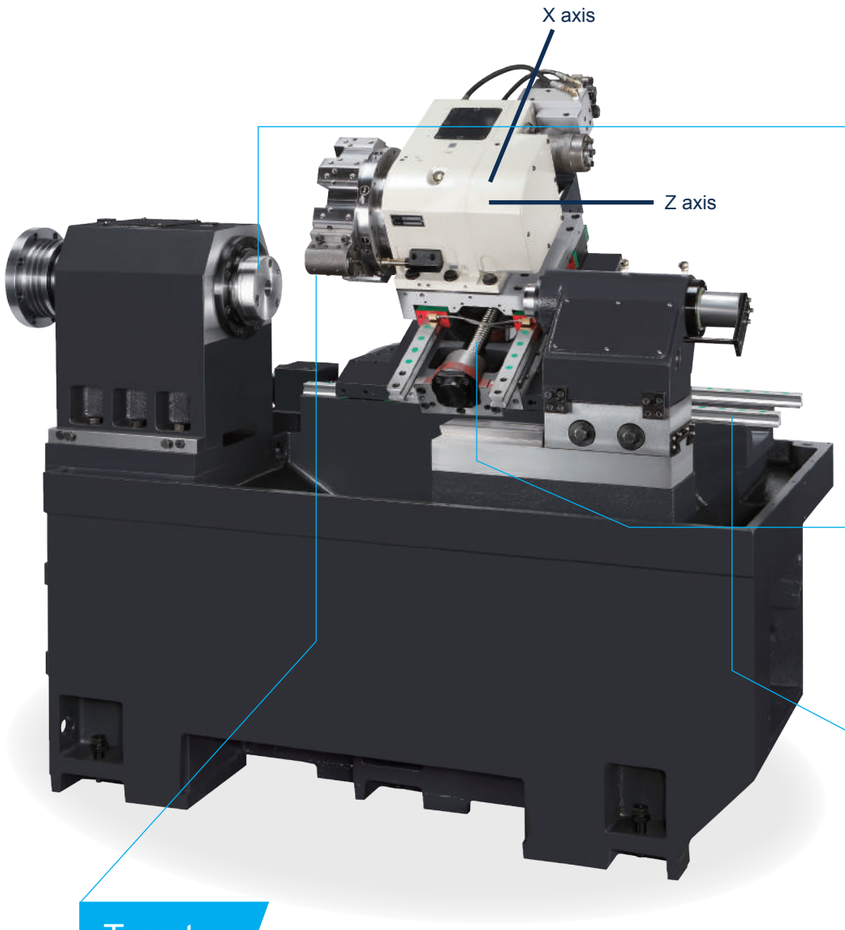


Slant Bed Lathe

Slant bed lathe has always been our strength. For different applications and to optimize the efficiency of production, each machine manufactured by KFM | KEEPWAY are engineered and built to the best standard in the industry. This machine will satisfy your needs and provide you with the best using experience.

Interior Structure

30˚ slant wedge saddle design and heavy-duty structure foundation, an optimization of the rigidity of the overall machine structure is applied to the headstock, turret, and tailstock. KFM insists to use MIT (Made In Taiwan) casting only to offer our users the best quality assurance. Lasting metal cutting precision accuracy and cutting tool life extension are guaranteed.



Spindle

The headstocks for all the products in this series are equipped with one-piece casting. High precision bearings from NSK are installed to provide high capacity of the bearing load, and effectively deliver a high precision and durability performance.

Ball Screw

All products are equipped with C3 class ball screws to ensure high positioning accuracy. The ball screw pretension design is applied to all axes to effectively minimize the backlash compensation of the machine body needed. The repeatability and positioning accuracy is highly secured.

Slideway

Linear slideway lowers the friction and provides high positioning accuracy. In the aspect of after-sales maintenance, linear guideway is relatively maintenance-friendly by just changing the sliding blocks and sideways will be able to regain the performance accuracy.

Turret

The interior mechanism employs flat parallel cam, featuring high indexing accuracy and fast tool changing time. Turret disk rotation is driven by oil pressure motor to provide strong cutting torque and enhance the performance stability. It suits both heavy and light cutting.

KT Series

KT 16

Turning Center 2850x1450x1650

Specification

Item	KT 16
Max turning diameter	260 mm
Max turning length	300 mm
Bar capacity	42 mm
Chuck size	6”
Spindle motor	5.5/7.5 kw
Spindle speed	5000 rpm
Spindle nose	A2-5
X-axis travel	125+20 mm
Z-axis travel	300 mm
X-axis rapid feed rate	24 m/min
Z-axis rapid feed rate	30 m/min
Rail type	Linear
Tool capacity	8 T
Tailstock travel	200 mm
Machine (LxWxH)	2850x1450x1650 mm
Machine weight	3300 kg

KT 18

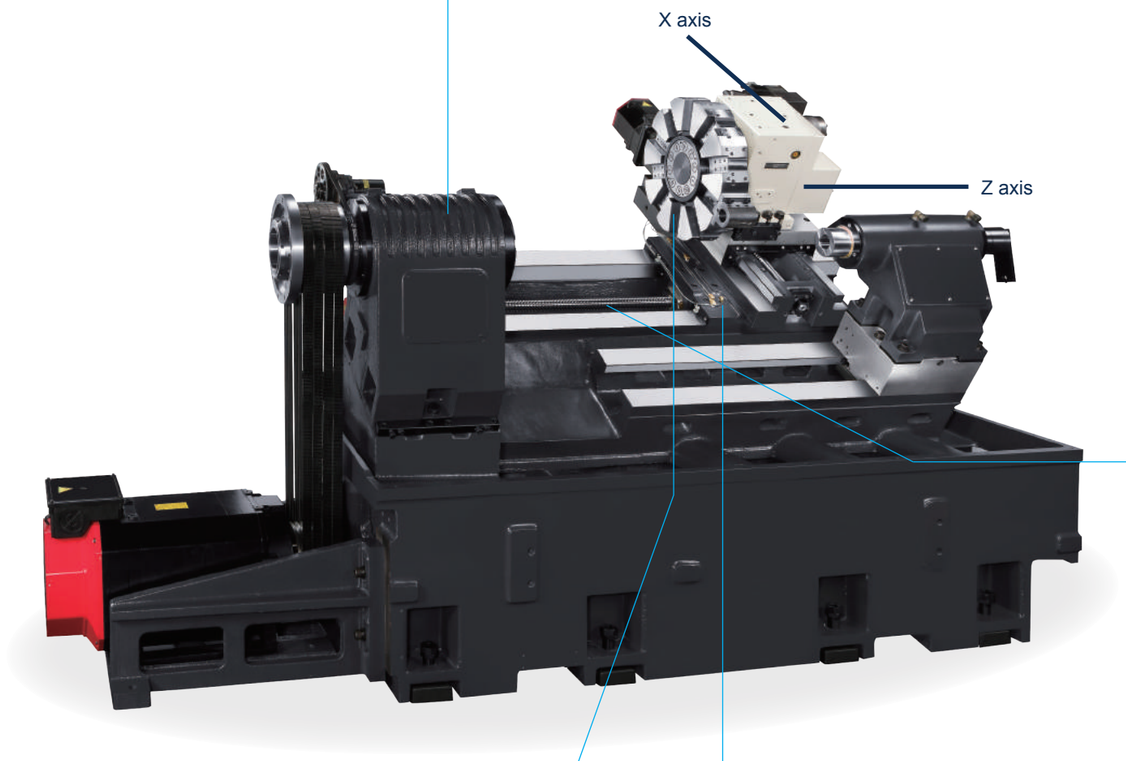
Turning Center 2850x1450x1650

Specification

Item	KT 18
Max turning diameter	260 mm
Max turning length	300 mm
Bar capacity	52 mm
Chuck size	8”
Spindle motor	7.5/11 kw
Spindle speed	4500 rpm
Spindle nose	A2-6
X-axis travel	125+20 mm
Z-axis travel	300 mm
X-axis rapid feed rate	24 m/min
Z-axis rapid feed rate	30 m/min
Rail type	Linear
Tool capacity	8 T
Tailstock travel	200 mm
Machine (LxWxH)	2850x1450x1650 mm
Machine weight	3300 kg

Interior Structure

One piece casting slant bed design provides better structure rigidity. With the 30° slantbed design and heavy-duty structure foundation, an optimization of the rigidity of the overall machine structure is applied to the headstock, turret, and tailstock. KFM | KEEPWAY insists to use MIT (Made In Taiwan) casting only to offer our users the best quality ensurance. Lasting metal cutting precision accuracy and cutting tool life extension are guaranteed.



Turret

The interior mechanism employs flat parallel cam, featuring high indexing accuracy and fast tool changing time. Turret disk rotation is driven by oil pressure motor to provide strong cutting torque and enhance the performance stability. It suits both heavy and light cutting.

Spindle

The headstocks for all the products are equipped with one-piece casting. High precision bearings from NSK are installed to provide high capacity of the bearing load, and effectively deliver a high precision and durability performance.

Hand-Scraped Technique

Hand-scraped procedure is applied to contacting surfaces through all the guide way slides, headstock, turret and tailstock. The ultimate assembling precision, structural rigidity, and balanced loading distribution are secured.

Ball Screw

All products are equipped with high class ball screws to ensure high positioning accuracy. The ball screw pretension design is applied to all axes to effectively minimize the backlash compensation of the machine body needed. The repeatability and positioning accuracy is highly secured.

Slideway

TURCITE-B is applied and firmly adhered to both X and Z slideways, to prevent the counter-flow of lubricator and provide smooth transmission. A sustaining production accuracy request is fulfilled.

KT Series

KT 200

Turning Center 3320x1610x1710

Specification

Item	KT 200
Max turning diameter	360 mm
Max turning length	400 mm
Bar capacity	52 mm
Chuck size	8”
Spindle motor	11/15 kw
Spindle speed	4500 rpm
Spindle nose	A2-6
X-axis travel	180+20 mm
Z-axis travel	400 mm
X-axis rapid feed rate	24 m/min
Z-axis rapid feed rate	24 m/min
Rail type	Box
Tool capacity	8 T
Tailstock travel	325 mm
Machine (LxWxH)	3320x1610x1710 mm
Machine weight	4000 kg

KT 20 / 20L

Turning Center 3350x1700x1830
3750x1700x1830

Specification

Item	KT 20	KT 20L
Max turning diameter	360 mm	360 mm
Max turning length	500 mm	750 mm
Bar capacity	52 mm	52 mm
Chuck size	8”	8”
Spindle motor	11/15 kw	11/15 kw
Spindle speed	4500 rpm	4500 rpm
Spindle nose	A2-6	A2-6
X-axis travel	180+20 mm	180+20 mm
Z-axis travel	500 mm	750 mm
X-axis rapid feed rate	24 m/min	24 m/min
Z-axis rapid feed rate	24 m/min	24 m/min
Rail type	Box	Box
Tool capacity	8 T	8 T
Tailstock travel	425 mm	675 mm
Machine (LxWxH)	3350x1700x1830 mm	3750x1700x1830 mm
Machine weight	4300 kg	5300 kg

KT Series

KT 25 / 25L

Turning Center 3350x1700x1830
3850x1700x1830

Specification

Item	KT 25	KT 25L
Max turning diameter	360 mm	360 mm
Max turning length	500 mm	750 mm
Bar capacity	75 mm	75 mm
Chuck size	10”	10”
Spindle motor	15/18.5 kw	15/18.5 kw
Spindle speed	3500 rpm	3500 rpm
Spindle nose	A2-8	A2-8
X-axis travel	180+30 mm	180+30 mm
Z-axis travel	500 mm	750 mm
X-axis rapid feed rate	20 m/min	20 m/min
Z-axis rapid feed rate	20 m/min	20 m/min
Rail type	Box	Box
Tool capacity	8/10 T	8/10 T
Tailstock travel	425 mm	675 mm
Machine (LxWxH)	3350x1700x1830 mm	3850x1700x1830 mm
Machine weight	4500 kg	5500 kg

KT 30

Turning Center 3950x1800x1930

Specification

Item	KT 30
Max turning diameter	500 mm
Max turning length	750 mm
Bar capacity	85 mm
Chuck size	12”
Spindle motor	15/18.5 kw
Spindle speed	3000 rpm
Spindle nose	A2-8
X-axis travel	250+25 mm
Z-axis travel	750 mm
X-axis rapid feed rate	20 m/min
Z-axis rapid feed rate	20 m/min
Rail type	Box
Tool capacity	12 T
Tailstock travel	675 mm
Machine (LxWxH)	3950x1800x1930 mm
Machine weight	5700 kg

Product Catalog

KT
Automatic Series

Suitable for light to heavy / hanging loads

Simple design and straightforward operation with better postioning accuracy and efficiency

Gantry type automatic parts feeding system (pick and place robot)

Less limited by floor space constraints

Easier to program

Specification

Item	Unit	KAR-800	KAR-1000	KAR-1200
X-axis travel	mm	1,500	1,800	2,000
Z-axis travel	mm	800	800	800
X-axis rapid feed rate	m/min	90	90	90
Z-axis rapid feed rate	m/min	75	75	75
C-axis rapid feed rate	°/sec	450	450	450
Positioning accuracy	mm	+/-0.05	+/-0.05	+/-0.05
Servo system	-	Syntec	Syntec	Syntec
Load capacity	kg	3	3	3
Pallet number	pcs	6	6	6
Pallet size	mm	360x300	360x300	360x300
Pallet load capacity	kg	30	30	30
Robot weight	kg	300	300	300

Turret

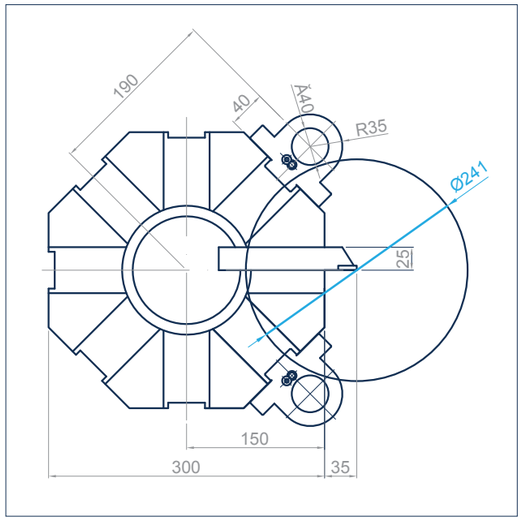
The interior mechanism employs flat parallel cam, featuring high indexing accuracy and fast tool changing time. Turret disk rotation is driven by oil pressure motor to provide strong cutting torque and enhance the performance stability. It suits both heavy and light cutting.

KT 16

Max turning diameter	260 mm
Max turning length	300 mm
Chuck size	6”
Tool capacity	8T
OD tool shank size	25 mm

KT 18

Max turning diameter	260 mm
Max turning length	300 mm
Chuck size	8”
Tool capacity	8T
OD tool shank size	25 mm

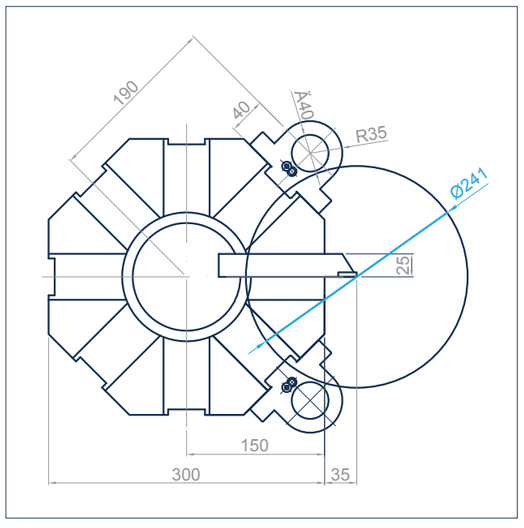


KT 200

Max turning diameter	360 mm
Max turning length	400 mm
Chuck size	8”
Tool capacity	8T
OD tool shank size	25 mm

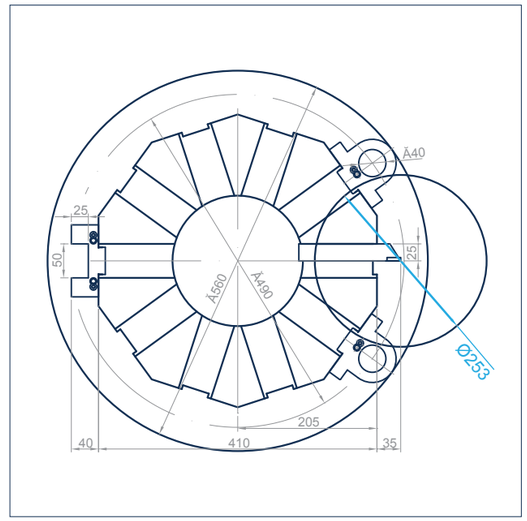
KT 20 / 20L

Max turning diameter	360 mm	360 mm
Max turning length	500 mm	750 mm
Chuck size	8”	8”
Tool capacity	8T	8T
OD tool shank size	25 mm	25 mm



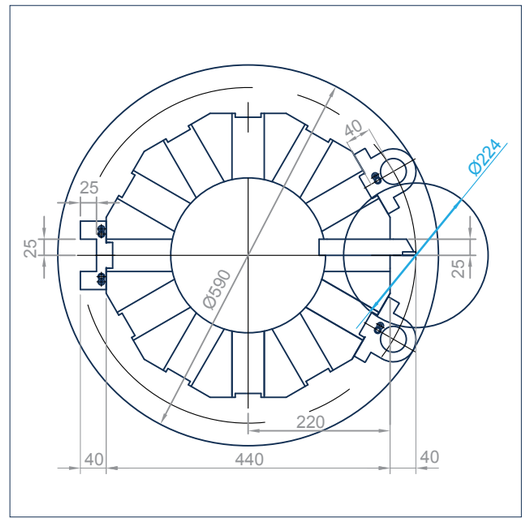
KT 25 / 25L

Max turning diameter	360 mm	360 mm
Max turning length	500 mm	750 mm
Chuck size	10”	10”
Tool capacity	10T	10T
OD tool shank size	25 mm	25 mm



KT 30

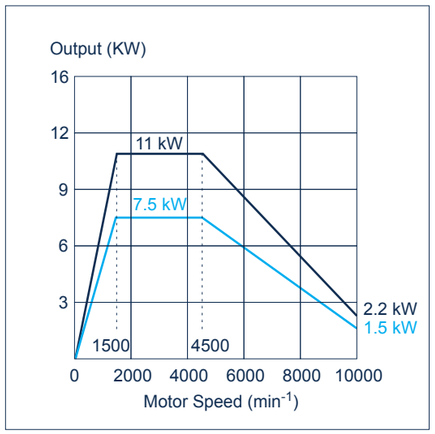
Max turning diameter	500 mm
Max turning length	750 mm
Chuck size	12”
Tool capacity	12T
OD tool shank size	25 mm

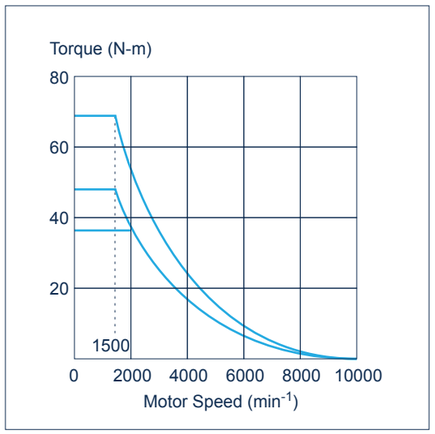


Spindle Motor

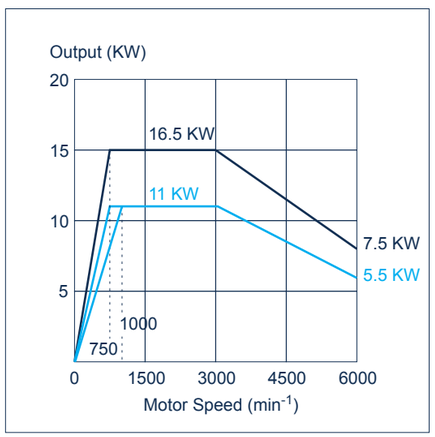
The headstocks for all the products are equipped with one-piece casting. High precision bearings from NSK are installed to provide high capacity of the bearing load, and effectively deliver a high precision and durability performance.

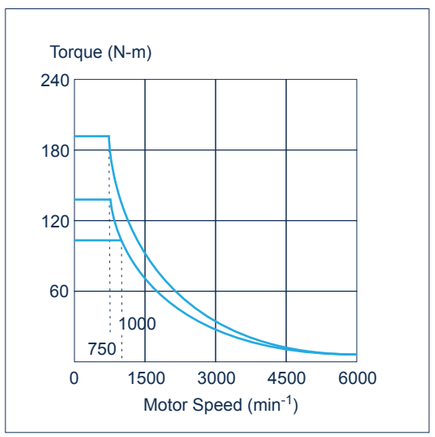
KT 16 / KT 18 — β8



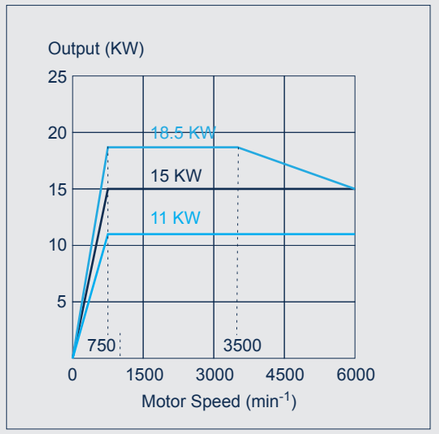


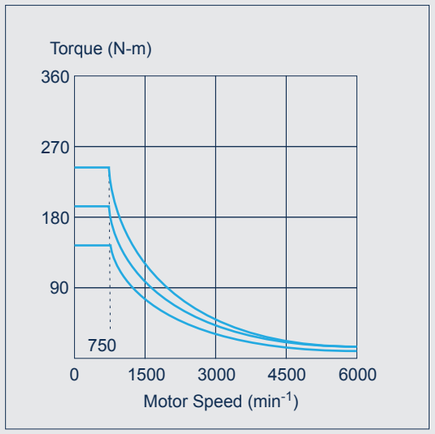
KT 200 / KT 20/20L — β22



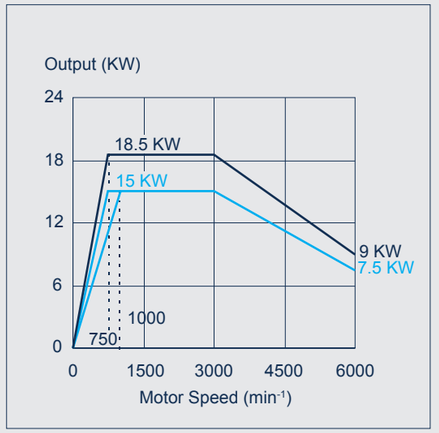


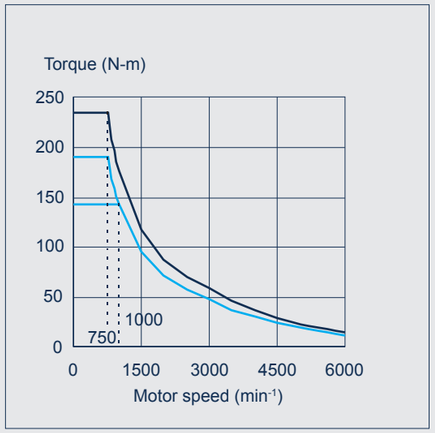
KT 200 / KT 20/20L — α22



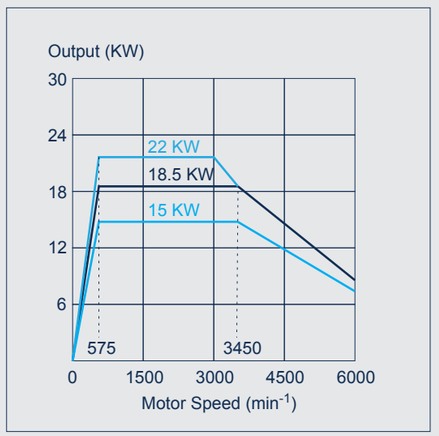


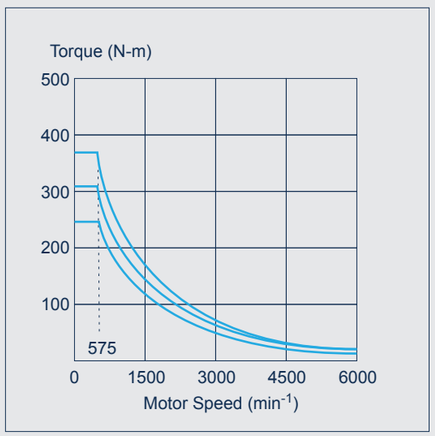
KT 25/25L — β30





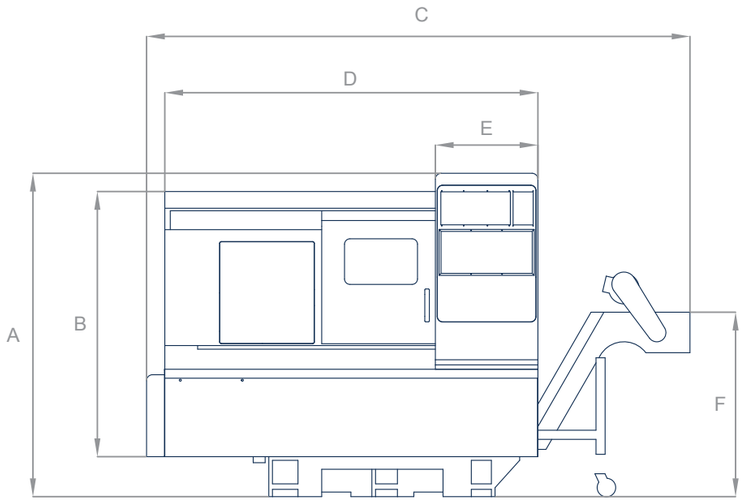
KT 30 — α30



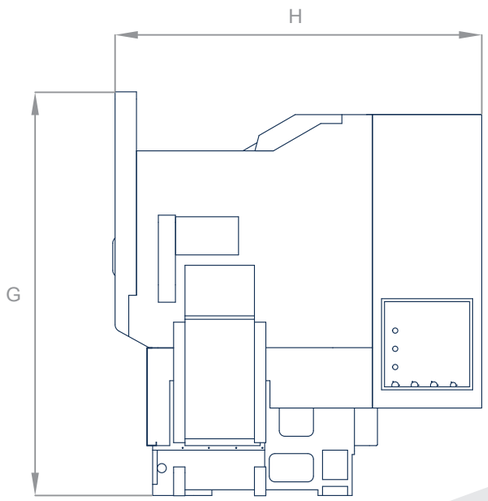


Floor Space

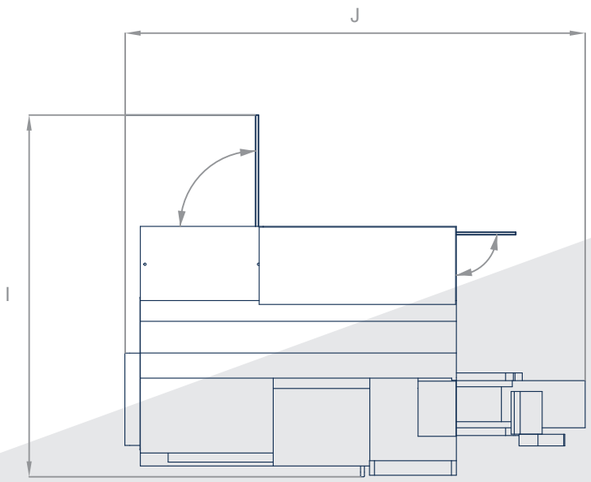
New Generation KFM turning centres were designed to be extremely rigid with high accuracy. The castings were optimized by using finite element analysis (FEA) to bring out the best cutting performance. The 30-degree wedge design greatly maximize the life of cutting tools, and improves coolant and chip flow. This is a series of turning centre machines with the most potential to offer you the best user experience.



Front



Side



Top

Specification

Item	KT 16	KT 18	KT 200	KT 20
A	1772 mm	1772 mm	1702 mm	1854 mm
B	1453 mm	1453 mm	1008 mm	1717 mm
C	2978 mm	2978 mm	3318 mm	3838 mm
D	2045 mm	2045 mm	2145 mm	2977 mm
E	562 mm	562 mm	562 mm	620 mm
F	1011 mm	1011 mm	987 mm	1012 mm
G	1770 mm	1770 mm	1702 mm	1854 mm
H	1610 mm	1610 mm	1554 mm	1660 mm
I	2340 mm	2340 mm	2268 mm	2392 mm
J	2976 mm	2976 mm	3318 mm	3838 mm

Specification

Item	KT 20L	KT 25	KT 25L	KT 30
A	1854 mm	1854 mm	1854 mm	1962 mm
B	1717 mm	1817 mm	1717 mm	1853 mm
C	3838 mm	3508 mm	3838 mm	3838 mm
D	2977 mm	2500 mm	2977 mm	2894 mm
E	620 mm	620 mm	620 mm	560 mm
F	1012 mm	1012 mm	1012 mm	1012 mm
G	1854 mm	1854 mm	1854 mm	1962 mm
H	1660 mm	1658 mm	1660 mm	1743 mm
I	2392 mm	2370 mm	2392 mm	2475 mm
J	3838 mm	3167 mm	3838 mm	3839 mm

Standard Specification

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ITEM	UNIT	KT 16	KT 18	KT 200	KT 20	KT 20 L	KT 25	KT 25 L	KT 25 XL	KT 25XXL	KT 30	KT 30L	KT 30XL
Controller	-	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF
Bed swing diameter	mm	450	450	530	530	530	530	530	530	530	600	600	600
Saddle swing diameter	mm	280	280	380	380	380	380	380	380	380	400	400	400
Maximum turning diamteter	mm	260	260	360	360	360	360	360	360	360	500	500	500
Maximun turning length	mm	300	300	400/500	500	750	500	750	1200	1600	750	1200	1600
Power chuck diameter	inch	6	8	8	8	8	10	10	10	10	12	12	12
Bar capacity	mm	42	52	52	52	52	75	75	75	75	85	85	85
Spindle motor power	kw	5.5/7.5	7.5/11	11/15	11/15	11/15	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5	15/18.5
Spindle speed	rpm	5000	4500	4500	4500	4500	3500	3500	3500	3500	3000	3000	3000
Spindle nose taper	inch	A2-5	A2-6	A2-6	A2-6	A2-6	A2-8	A2-8	A2-8	A2-8	A2-8	A2-8	A2-8
Spindle bearing diameter	mm	90	100	100	100	100	120	120	120	120	140	140	140
Spindle taper	-	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20
X/Z-axes servo motor	kw	1.2/1.2	1.2/1.2	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3	3/3
X-axis travel	mm	125+20	125+20	180+20	180+20	180+20	180+30	180+30	180+30	180+30	250+25	250+25	250+25
Z-axis travel	mm	300	300	400	500	750	500	750	1200	1600	750	1200	1600
X-axis rapid feed rate	m/min	24	24	24	24	24	20	20	20	20	20	20	20
Z-axis rapid feed rate	m/min	30	30	24	24	24	20	20	20	20	20	20	20
X/Z-axes ballscrew/pitch	sideway	32/32 (P8/P10)	32/32 (P8/P10)	32/36 (P8/P10)	32/36 (P8/P10)	32/36 (P8/P10)	32/36 (P8/P10)	32/36 (P8/P10)	32/36 (P8/P10)	32/36 (P8/P10)	32/36 (P10/P10)	32/36 (P8/P10)	32/36 (P8/P10)
X/Z-axes slideway width	mm	35/35	35/35	50/50/70/80	50/70	50/50/70/80	50/50/70/80	50/50/70/80	50/50/70/80	50/50/70/80	58/58/70/80	50/50/70/80	50/50/70/80
Slide way type	mm	Linear	Box	Box	Box	Box	Box	Box	Box	Box	Box	Box	Box
Turret driven type	-	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Tool capacity	station	8	8	8	8	8	10	10	10	10	12	12	12
OD tool shank size	mm	25	25	25	25	25	25	25	25	25	25	25	25
ID tool shank size	mm	32	32	32	32	32	40	40	40	40	40	40	40
Tailstock travel positioning	-	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Tailstock quill travel	mm	70	70	70	70	70	85	85	85	85	85	85	85
Tailstock base travel	mm	80	80	110	110	110	150	150	150	150	150	150	150
Quill taper size	mm	200	200	325	425	675	425	675	TBC	TBC	675	TBC	TBC
Quill taper diameter	MT	MT#4	MT#4	MT#4	MT#4	MT#4	MT#5	MT#5	MT#5	MT#5	MT#5	MT#5	MT#5
Hydraulic tank capacity	litre	30	30	30	50	50	60	60	60	60	60	60	60
Coolant tank capacity	litre	145	145	150	150	150	150	150	150	150	150	150	150
Floor space (LxWxH)	mm	2850x1450x1650	2850x1450x1650	3320x1610x1710	3350x1700x1830	3750x1700x1830	3350x1700x1830	3850x1700x1830	TBC	TBC	3950x1800x1930	TBC	TBC
Machine weight	kg	3300	3300	4000	4300	5300	4500	5500	6500	8000	5700	6700	8500

Standard Accessories

ITEM	
FANUC 0i-TF controller 8.4" color LCD display	Coolant pump (3kg/cm2)
Graphic function (Standard)	Roll out coolant tank
Part program storage size (512K bytes)	LED work light
Registered program (400)	Three color warning work light
Automatic data backup	Heat exchanger for electric cabinet
Hydraulic hollow cylinder for chuck	Advanced auto lubrication system
Hydraulic 3-jaws chuck	Belt type chip conveyor and chip cart (right discharge)
Standard soft jaws	Foot switch for chuck operation
Hydraulic power supply unit	Fully enclosed guarding
Turret (tool holder and sleeve package)	Foundation leveling pads
Facing tool holder Φ25 mm: 1 sets	Maintenance tool kit
Boring bar holder Φ32(40)mm: 5 sets	Operation & maintenance manuals
Boring bar socket Φ32(40)mm (8/25mm): 1 set	2-years warranty on controller
Boring bar socket Φ32(40)mm (10/12/16/20mm): 2 sets	1-year warranty on machine parts
Hydraulic tailstock	

Optional Accessories

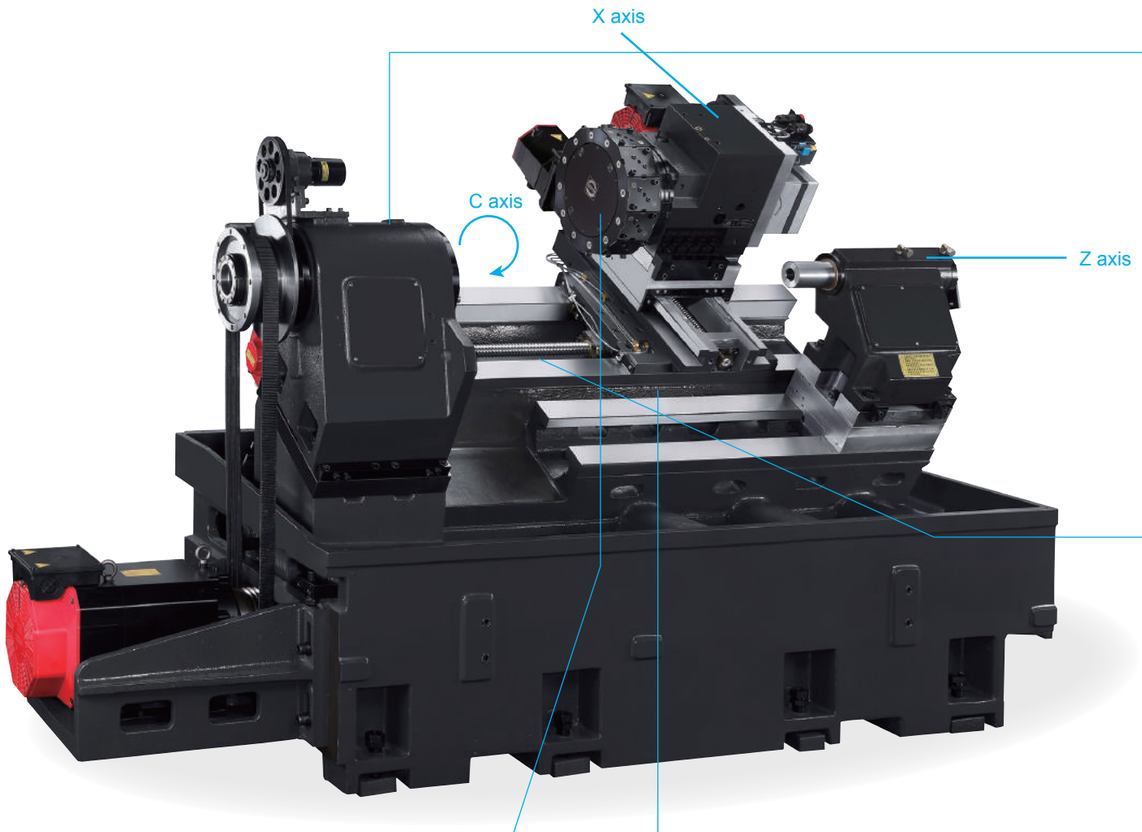
ITEM	
Fanuc 0i-TF controller update to Alpha (α22IP) motors	Tool presetter (Marposs)
Fanuc 0i-TF controller update to Alpha (α30IP) motors	Chuck air blow
Mitsubishi M80 controller	Oil mist collector
Siemens 828D (Basic T) controller	Oil and water seperator
Syntec controller	Coolant pump (20bar)
Main spindle disk brake	Auto door
Cs-axis & disk break for main spindle	Auto parts catcher
Collet chuck	Work-piece transport conveyor
Special work holding chuck	Bar feeder (Φ5~Φ65*1200mm)
Programmable quil hydraulic tailstock	Bar feeder (Φ5~Φ65*1500mm)
Live center (MT#4)	Automatic parts loader/unloader (gantry style)
Live center (MT#5)	A/C cooling system for electrical cabinet
Forming coil (8"/10"/12")	Exterior control box
Keep-off rod (8"/10"/12")	Regulator transfromer 25KVA
Tool presetter (Renishaw HPMA)	Regulator transfromer 30KVA

Turn-Mill Machines

KT lathe machine series with spindle CS-axis control and power turret provides the cutting, machining and drilling function in one step. The production time is not only greatly saved but also any production errors to spead the process onto different machines are avoided.

Interior Structure

One piece casting slant bed design provides better structure rigidity. With the 30° slantbed design and heavy-duty structure foundation, an optimization of the rigidity of the overall machine structure is applied to the headstock, turret, and tailstock. KFM | KEEPWAY insists to use MIT (Made In Taiwan) casting only to offer our users the best quality ensurance. Lasting metal cutting precision accuracy and cutting tool life extension are guaranteed.



Spindle

The headstocks for all the products are equipped with one-piece casting. High precision bearings from NSK are installed to provide high capacity of the bearing load, and effectively deliver a high precision and durability performance.

KT lathe machine series with spindle CS-axis control and power turret combine the cutting, machining and drilling into one process. It not only greatly reduces the production time but eliminates the production errors created by having seperate processes.

Hand-Scraped Technique

Hand-scraped procedure is applied to contacting surfaces through all the guide way slides, headstock, turret and tailstock. The ultimate assembling precision, structural rigidity, and balanced loading distribution are secured.

Ball Screw

All products are equipped with high class ball screws to ensure high positioning accuracy. The ball screw pretension design is applied to all axes to effectively minimize the backlash compensation of the machine body needed. The repeatability and positioning accuracy is highly secured.

Slideway

TURCITE-B is applied and firmly adhered to both X and Z slideways, to prevent the counter-flow of lubricator and provide smooth transmission. A sustaining production accuracy request is fulfilled.

Power Turret

The turret is suitable for use on high-capacity turning machines for forward as well as equipollent reverse machining. They are equipped with all of the features and functions of modern high-performance and high-capacity tool turrets. Their robust de- sign and short switching times mean they are also very well suited for heavy-duty use in series manufacture

KT Series

KT 20M / YM

Turning Center 3350x1700x1830

Specification

Item	KT 20M
Max turning diameter	360 mm
Max turning length	400 mm
Bar capacity	52 mm
Chuck size	8”
Spindle motor	11/15 kw
Spindle speed	4500 rpm
Spindle nose	A2-6
X-axis travel	180+30 mm
Z-axis travel	400 mm
Y-axis travel	+/-50mm
X-axis rapid feed rate	24 m/min
Z-axis rapid feed rate	30 m/min
Y-axis rapid feed rate	20 m/min
Rail type	Box
Tool capacity	VDI-40/BMT-55 12 T
Tailstock travel	400 mm
Machine (LxWxH)	3350x1700x1830 mm
Machine weight	4500 kg

KT 20LM / YLM

Turning Center 3350x1700x1830

Specification

Item	KT 20LM
Max turning diameter	360 mm
Max turning length	650 mm
Bar capacity	52 mm
Chuck size	8”
Spindle motor	11/15 kw
Spindle speed	4500 rpm
Spindle nose	A2-6
X-axis travel	180+30 mm
Z-axis travel	650 mm
Y-axis travel	+/-50 mm
X-axis rapid feed rate	24 m/min
Z-axis rapid feed rate	30 m/min
Y-axis rapid feed rate	20 m/min
Rail type	Box
Tool capacity	VDI-40/BMT-55 12 T
Tailstock travel	400 mm
Machine (LxWxH)	3350x1700x1830 mm
Machine weight	5500 kg

KT Series

KT 25M / YM

Turning Center 3350x1700x1830

Specification

Item	KT 25M
Max turning diameter	360 mm
Max turning length	400 mm
Bar capacity	75 mm
Chuck size	10”
Spindle motor	15/18.5 kw
Spindle speed	3500 rpm
Spindle nose	A2-8
X-axis travel	180+30 mm
Z-axis travel	400 mm
Y-axis travel	+/-50 mm
X-axis rapid feed rate	20 m/min
Z-axis rapid feed rate	20 m/min
Y-axis rapid feed rate	20 m/min
Rail type	Box
Tool capacity	VDI-40/BMT-55 12 T
Tailstock travel	400 mm
Machine (LxWxH)	3350x1700x1830 mm
Machine weight	4700 kg

KT 25LM / YLM

Turning Center 3350x1700x1830

Specification

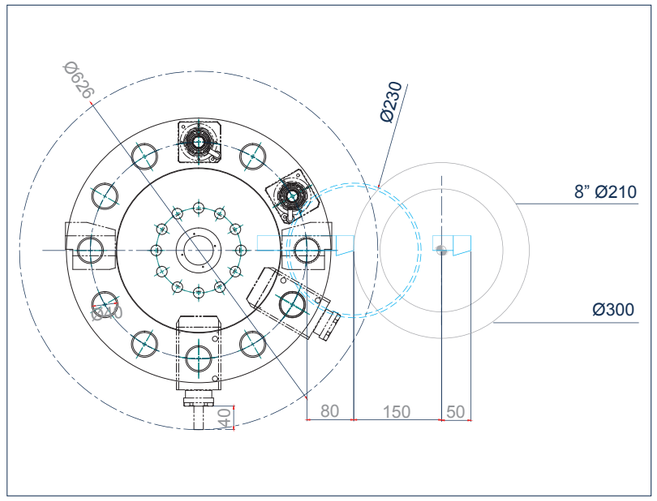
Item	KT 25LM
Max turning diameter	360 mm
Max turning length	650 mm
Bar capacity	75 mm
Chuck size	10”
Spindle motor	15/18.5 kw
Spindle speed	3500 rpm
Spindle nose	A2-8
X-axis travel	180+30 mm
Z-axis travel	650 mm
Y-axis travel	+/-50 mm
X-axis rapid feed rate	20 m/min
Z-axis rapid feed rate	20 m/min
Y-axis rapid feed rate	20 m/min
Rail type	Box
Tool capacity	VDI-40/BMT-55 12 T
Tailstock travel	650 mm
Machine (LxWxH)	3350x1700x1830 mm
Machine weight	5700 kg

Power Turret

The turret is suitable for use on high-capacity turning machines for forward as well as equipollent reverse machining. They are equipped with all of the features and functions of modern high-performance and high-capacity tool turrets. Their robust de- sign and short switching times mean they are also very well suited for heavy-duty use in series manufacture

KT 20M

Max turning diameter	360 mm
Max turning length	400 mm
Chuck size	8”
Tool capacity	12T

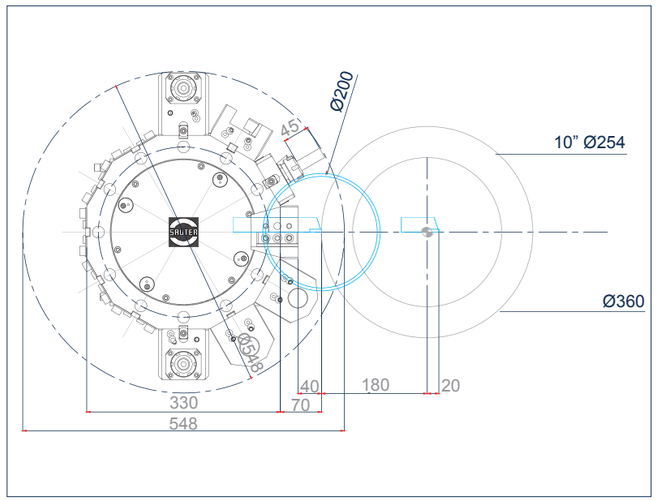


KT 20LM

Max turning diameter	360 mm
Max turning length	650 mm
Chuck size	8”
Tool capacity	12T

KT 25M

Max turning diameter	360 mm
Max turning length	400 mm
Chuck size	10”
Tool capacity	12T



KT 25LM

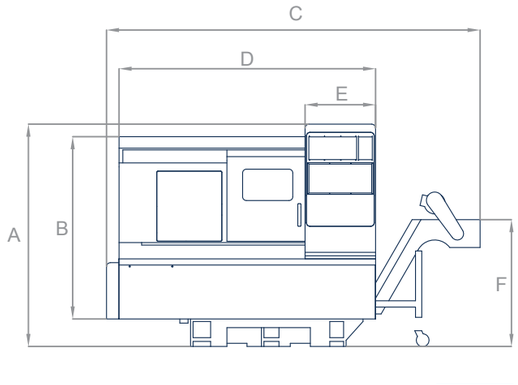
Max turning diameter	360 mm
Max turning length	650 mm
Chuck size	10”
Tool capacity	12T

Spindle Motor

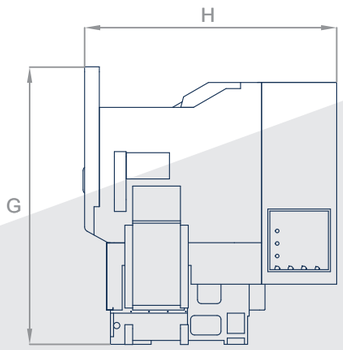
KT lathe machine series with spindle CS-axis control and power turret combine the cutting, machining and drilling into one process. It not only greatly reduces the production time but eliminates the production errors created by having seperate processes.

Floor Space

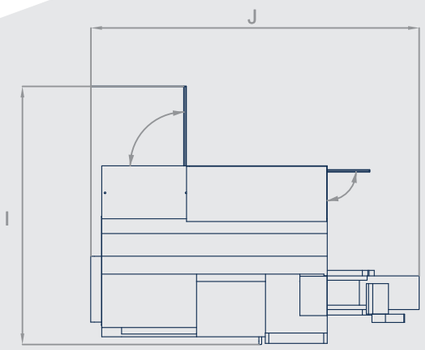
New Generation KFM | KEEPWAY turning centres were designed to be extremely rigid with high accuracy. The castings were optimized by using finite element analysis (FEA) to bring out the best cutting performance. The 30-degree wedge design greatly maximize the life of cutting tools, and improves coolant and chip flow. This is a series of turning centre machines with the most potential to offer you the best user experience.



Front



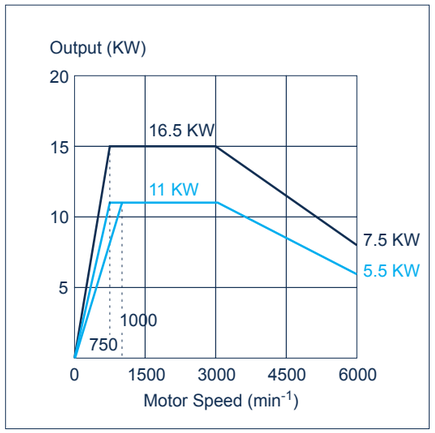
Side

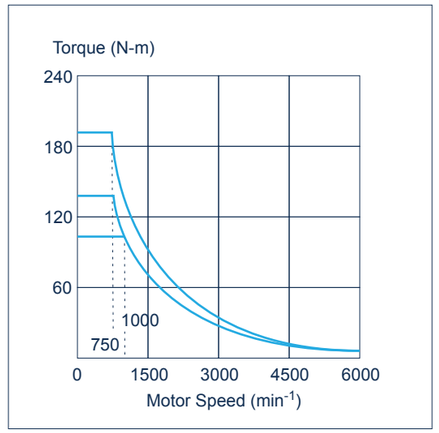


Top

KT 20M / KT 20LM

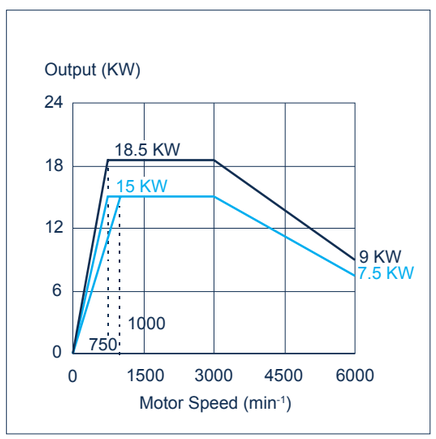
β22

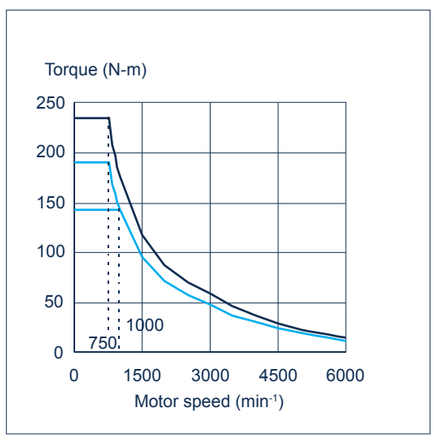




KT 25M / KT 25LM

β30





Specification

Item	KT 20M	KT 20LM	KT 25M	KT 25LM
A	1842 mm	1854 mm	1854 mm	1854 mm
B	1759 mm	1717 mm	1817 mm	1717 mm
C	3338 mm	3838 mm	3508 mm	3838 mm
D	2500 mm	2977 mm	2500 mm	2977 mm
E	620 mm	620 mm	620 mm	620 mm
F	1012 mm	1012 mm	1012 mm	1012 mm
G	1842 mm	1854 mm	1854 mm	1854 mm
H	1658 mm	1660 mm	1658 mm	1660 mm
I	2370 mm	2392 mm	2370 mm	2392 mm
J	3167 mm	3838 mm	3167 mm	3838 mm

Standard Specification

ITEM	UNIT	KT 20M / YM	KT 20LM / YLM	KT 25M / YM	KT 25LM / YLM
Controller	-	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF	FANUC 0i-TF
Bed swing diameter	mm	530	530	530	530
Saddle swing diameter	mm	380	380	380	380
Maximum turning diamteter	mm	360	360	360	360
Maximun turning length	mm	400	650	500	650
Bar capacity	mm	52	52	75	75
Power chuck diameter	inch	8	8	10	10
Spindle motor power	kw	11/15	11/15	15/18.5	15/18.5
Spindle speed	rpm	4500	4500	3500	3500
Spindle nose taper	ASA	A2-6	A2-6	A2-8	A2-8
Spindle bearing diameter	mm	100	100	120	120
Spindle taper	-	1/20	1/20	1/20	1/20
X/Z-axes servo motor	kw	3/3	3/3	3/3	3/3
X-axis travel	mm	180+20	180+20	180+30	180+30
Z-axis travel	mm	400	650	500	650
Y-axis travel	mm	+/-50	+/-50	+/-50	+/-50
X-axis rapid feed rate	m/min	24	24	20	20
Z-axis rapid feed rate	m/min	24	24	20	20
Y-axis rapid feed rate	m/min	20	20	20	20
X/Z-axes ballscrew/pitch	mm	32/36 (P8/P10)	32/36 (P8/P10)	32/36 (P8/P10)	32/36 (P8/P10)
X/Z-axes slideway width	mm	50/70	50/70	50/50/70/80	50/50/70/80
Slide way type	-	Box	Box	Box	Box
Turret driven type	-	VDI-40/BMT-55	VDI-40/BMT-55	VDI-40/BMT-55	VDI-40/BMT-55
Tool capacity	station	12	12	12	12
Tailstock travel positioning	-	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Tailstock quill travel	mm	110	110	150	150
Tailstock base travel	mm	400	650	400	650
Quill taper size	MT	MT#4	MT#4	MT#5	MT#5
Quill taper diameter	mm	70	70	85 (3.4)	85 (3.4)
Hydraulic tank capacity	litre	50	50	60	60
Coolant tank capacity	litre	150	150	150	150
Floor space (LxWxH)	mm	3350x1700x1830	3350x1700x1830	3350x1700x1830	3350x1700x1830
Machine weight	kg	4400	5500	4700	5700

Standard Accessories

ITEM	
FANUC 0i-TF controller 8.4" color LCD display	LED work light
Graphic function (Standard)	Three color warning work light
Part program storage size (512K bytes)	Heat exchanger for electric cabinet
Registered program (400)	Advanced auto lubrication system
Automatic data backup	Belt type chip conveyor and chip cart (right discharge)
Cs-axis and disk break	Foot switch for chuck operation
Hydraulic hollow cylinder for chuck	Fully enclosed guarding
Hydraulic 3-jaws chuck	Foundation leveling pads
Standard soft jaws	Maintenance tool kit
Hydraulic power supply unit	Operation & maintenance manuals
Hydraulic tailstock	2-years warranty on FANUC controller
Coolant pump (3kg/cm2)	1-year warranty on KAIFENG machine parts
Roll out coolant tank	

Optional Accessories

ITEM	
Fanuc 0i-TF controller update to Alpha (α22IP) motors	Chuck air blow
Fanuc 0i-TF controller update to Alpha (α30IP) motors	Oil mist collector
Mitsubishi M80 controller	Oil and water seperator
Siemens 828D (Basic T) controller	Coolant pump (20bar)
Syntec controller	Auto door
Collet chuck	Auto parts catcher
Special work holding chuck	Work-piece transport conveyor
Programmable quil hydraulic tailstock	Bar feeder (Φ5~Φ65*1200mm)
Live center (MT#4)	Bar feeder (Φ5~Φ65*1500mm)
Live center (MT#5)	Automatic parts loader/unloader (gantry style)
Forming coil (8"/10"/12")	A/C cooling system for electrical cabinet
Keep-off rod (8"/10"/12")	Exterior control box
Tool presetter (Renishaw HPMA)	Regulator transfromer 25KVA
Tool presetter (Marposs)	Regulator transfromer 30KVA

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