WE STRIVE FOR THE BETTER

PRODUCT PROFILE

KFM
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KFM
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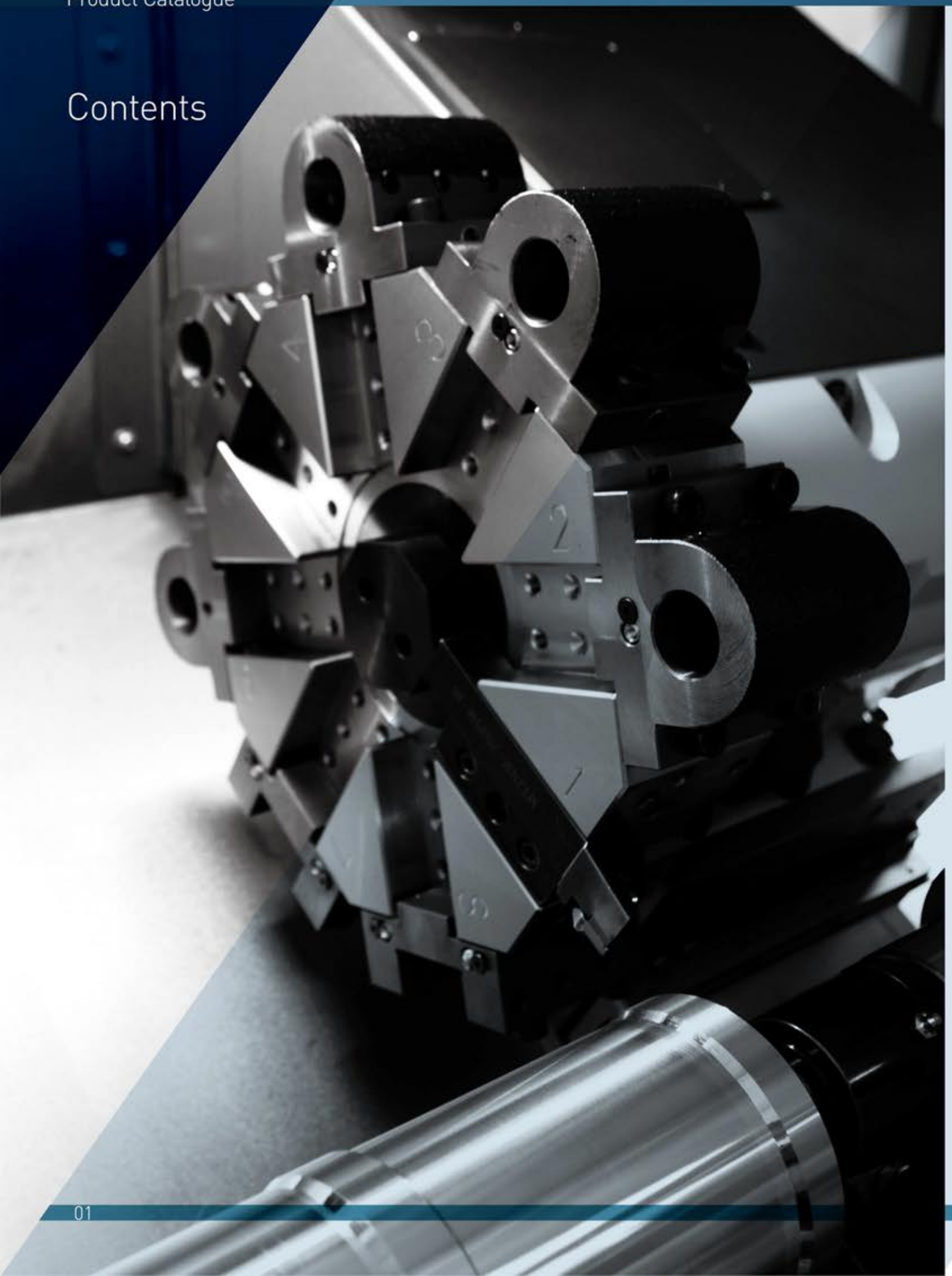
凱豐機械股份有限公司

Contents



Company Profile

About KFM 04
History 05
Our Vision 06

Models

KT Series Production 07
KT Features (Linear) 09
KT 16 11
KT 18 12
KT Features (Boxway) 12
KT 200 15
KT 20 / 20L 16
KT 25 / 25L 17
KT 30 18
KT 16A 19
KT 200A 20
Cutter Interference 21
Output / Torque 23
Floor Space 25
Specification 27

TL / TM Series Production 29
TL 500 31
TL 700 32
TL Features (Linear) 33
TL 750 35
TL 1060 / 1260 36
Floor Space 37
Specification 39

TM Features (Boxway) 41
TM 900 / 1100 / 1100L 43
TM 1200 / 1300 / 1300G 44
TM 1500 / 1500G 46
TM 1600 / 1600G 46
TM 1800 / 1800G 48
TM 2000 / 2000G 48
Floor Space 49
Specification 53

Company Culture

" We strive for the better"

About KFM

KAIFENG MACHINERY CO., LTD. (KFM) is considered as one of the leading manufactures for machine tools in Taichung, Taiwan with four offices across the SEA region, including the head office in Taichung Industrial Park, Taiwan. Based on the decision of the company to diversify our business scope, we have just established a whole new office in Jakarta, Indonesia in March 2016.

The current business scope covers Greater China, South East Asia, Middle East, 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 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) is one of the biggest manufacturers for machine tools in the area. The company offers products and service ranging from CNC lathe (linear/box guideway), tapping center to vertical machining center (linear/-box 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 / Patents

KFM 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.

Connect KFM

Facebook : KFM
YouTube : KFM Machinery
GooglePlus : KFM Machinery
Instagram : KAIFENG_MACHINERY

History / Vision

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 Centre Development

Machining Centre Development – KFM started the production line with the developed of machining centre while planning the development of lathe machine series on the side.

2005 CNC Turning Centre Development

CNC Turning Centre Development – KFM 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 has developed over 15 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 – KKT-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

Shanghai, China
Kunshan Kaichi Machinery Limited
T : +86-769-85323487
F : +86-769-85323480
A : No. 503, Lide Park, HuqiaoTown, Kunshan City, Jiangsu Province, China

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A : No.19, 31St Street, Xitun Dist, Taichung Industrial Park, Taichung City, Taiwan

Our Vision

With the constant desire to improve to be a better partner to work with, KFM has strived to be the manufacture that best understands and satisfies our customers through communication and understanding between the both sides.

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.

KT
Series

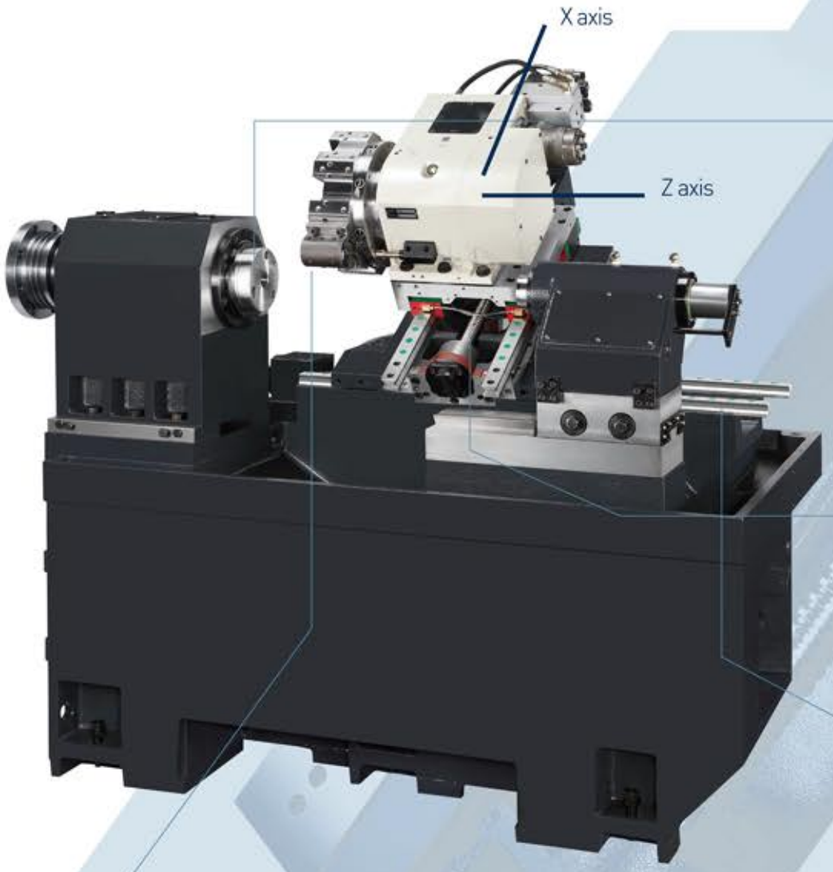
Slant Bed Lathe

Slant bed lathe has always been KFM strength. For different applications and to optimize the efficiency of production, each machine manufactured by KAIFENG 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.

KT
Series

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.



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 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.

KT
Series

KT 16

Turning Centre
2978x1610x1772

Specification

Item	KT 16
Max turning diameter	260 (240) mm | 10.24 (9.45) inch
Max turning length	300 mm | 11.81 inch
Bar capacity	42 mm | 1.65 inch
Chuck size	6"
Spindle motor	5.5/7.5 kw
Spindle speed	5000/4500 rpm
Spindle nose	A2-5
X travel	125+20 mm | 4.92+0.78 inch
Z travel	300 mm | 11.81 inch
X rapid feed rate	24 m/min
Z rapid feed rate	30 m/min
Rail type	LINEAR
Tool capacity	8/10 T
Tailstock travel	200 mm | 7.87 inch
Machine (LxWxH)	2978x1610x1772 mm | 117.24x63.39x69.76 inch
Machine weight	3300 kg

KT 18

Turning Centre
2978x1610x1772

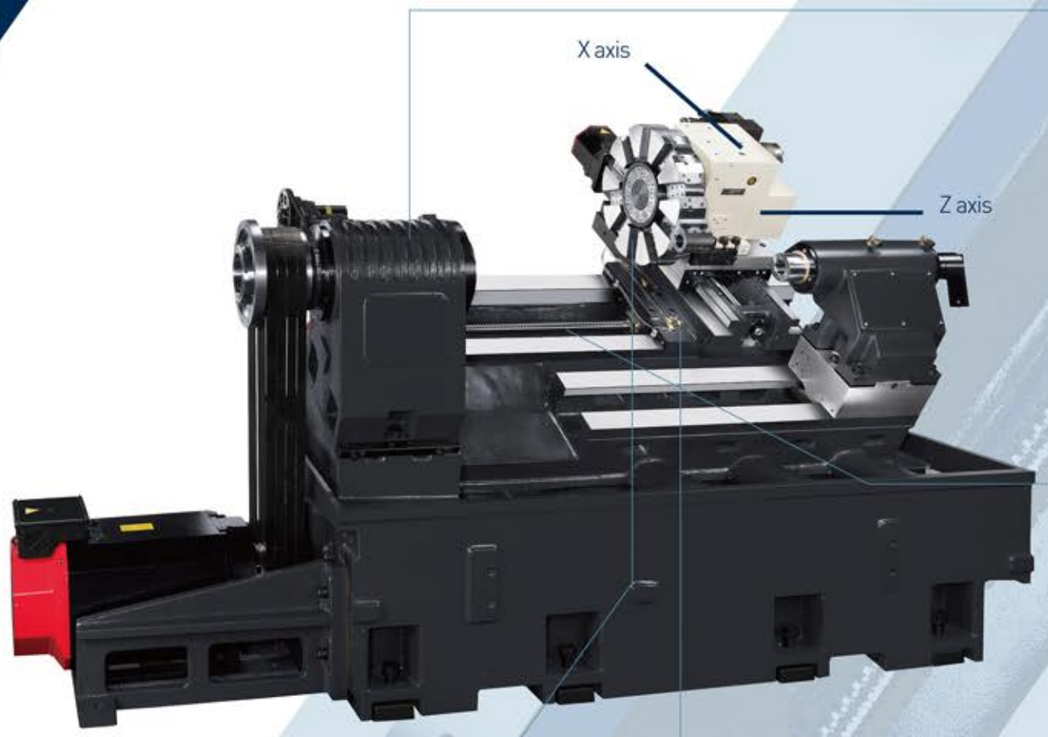
Specification

Item	KT 18
Max turning diameter	260 (240) mm | 10.24 (9.45) inch
Max turning length	300 mm | 11.81 inch
Bar capacity	52 mm | 2.05 inch
Chuck size	8"
Spindle motor	7.5/11 kw
Spindle speed	5000/4500 rpm
Spindle nose	A2-6
X travel	125+20 mm | 4.92+0.78 inch
Z travel	300 mm | 11.81 inch
X rapid feed rate	24 m/min
Z rapid feed rate	30 m/min
Rail type	LINEAR
Tool capacity	8/10 T
Tailstock travel	200 mm | 7.87 inch
Machine (LxWxH)	2978x1610x1772 mm | 117.24x63.39x69.76 inch
Machine weight	3300 kg

KT
Series

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 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 Centre
3318x1554x1702

Specification

Item	KT 200
Max turning diameter	360 mm | 14.17 inch
Max turning length	400 mm | 15.75 inch
Bar capacity	52 mm | 2.05 inch
Chuck size	8"
Spindle motor	11/15 kw
Spindle speed	4500 rpm
Spindle nose	A2-6
X travel	180+20 mm | 7.08+0.78 inch
Z travel	400 mm | 15.75 inch
X rapid feed rate	24 m/min
Z rapid feed rate	24 m/min
Rail type	BOX
Tool capacity	8/10 T
Tailstock travel	325 mm | 12.80 inch
Machine (LxWxH)	3318x1554x1702 mm | 130.63x61.18x67.01inch
Machine weight	4000 kg

KT 20/20L

Turning Centre
3338x1658x1842 / 3838x1660x1854

Specification

Item	KT 20	KT 20L
Max turning diameter	360 mm | 14.17 inch	360 mm | 14.17 inch
Max turning length	500 mm | 19.69 inch	750 mm | 29.53 inch
Bar capacity	52 mm | 2.05 inch	52 mm | 2.05 inch
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 travel	180+20 mm | 7.08+0.78 inch	180+20 mm | 7.08+0.78 inch
Z travel	500 mm | 19.69 inch	750 mm | 29.52 inch
X rapid feed rate	24 m/min	24 m/min
Z rapid feed rate	24 m/min	24 m/min
Rail type	BOX	BOX
Tool capacity	8/10 T	8/10 T
Tailstock travel	425 mm | 16.73 inch	675 mm | 26.57 inch
Machine (LxWxH)	3338x1658x1842 mm | 131.42x65.28x72.52 inch	3838x1660x1854 mm | 151.10x65.35x72.99 inch
Machine weight	4500 kg	5300 kg

KT
Series

KT 25/25L

Turning Centre

3508x1658x1854 / 3838x1660x1854

Specification

Item	KT 25	KT 25L
Max turning diameter	360 mm | 14.17 inch	360 mm | 14.17 inch
Max turning length	500 mm | 19.69 inch	750 mm | 29.53 inch
Bar capacity	75 mm | 2.95 inch	75 mm | 2.95 inch
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 travel	180+30 mm | 7.08+1.18 inch	180+30 mm | 7.08+1.18 inch
Z travel	500 mm | 19.68 inch	750 mm | 29.52 inch
X rapid feed rate	20 m/min	20 m/min
Z 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 | 16.73 inch	675 mm | 26.57 inch
Machine (LxWxH)	3508x1658x1854 mm | 138.11x65.28x72.99 inch	3838x1660x1854 mm | 151.10x65.35x72.99 inch
Machine weight	5000 kg	5800 kg

KT 30

Turning Centre

3838x1743x1964

Specification

Item	KT 30
Max turning diameter	520 mm | 20.47 inch
Max turning length	750 mm | 29.53 inch
Bar capacity	85 mm | 3.35 inch
Chuck size	12"
Spindle motor	15/18.5 kw
Spindle speed	3000 rpm
Spindle nose	A2-8
X travel	260+25 mm | 10.24+0.98 inch
Z travel	750 mm | 29.52 inch
X rapid feed rate	20 m/min
Z rapid feed rate	20 m/min
Rail type	BOX
Tool capacity	10/12 T
Tailstock travel	675 mm | 26.57 inch
Machine (LxWxH)	3838x1743x1964mm | 151.10x68.62x77.32 inch
Machine weight	6500 kg

KT
Automatic Series

Suitable for light to heavy / hanging loads

KT 16A

Specification

Item	Unit	Specs
X axis travel	mm	1,400
Y axis travel	mm	1,000
X axis speed	m/min	120
Y axis speed	m/min	120
Positioning accuracy	mm	+/-0.05
Servo system	-	DELTA
Load capacity	kg	2
Gripper stroke	mm	6
Pallet load capacity	kg	12

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

KT 200A

Specification

Item	Unit	Specs
X axis travel	mm	2000
Y axis travel	mm	800
X axis speed	m/min	120
Y axis speed	m/min	120
Positioning accuracy	mm	+/-0.05
Servo system	-	MITSUBISHI
Load capacity	kg	5
Gripper stroke	mm	6
Pallet load capacity	kg	20

Cutter Interference

Turret

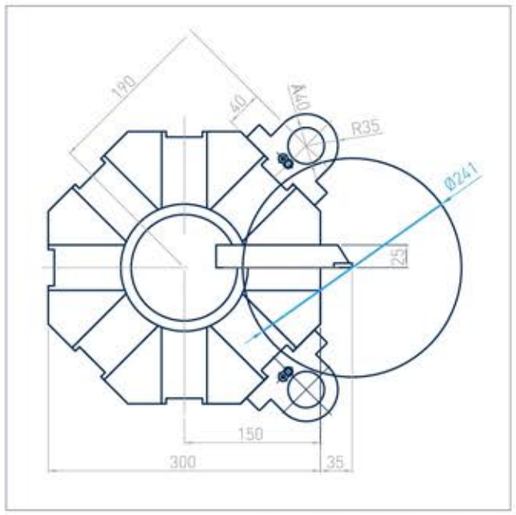
The interior mechanism employs flat parallel cam, featuring high indexing accuracy and fast tool changing time. Turret disk rotation is driven by oil pressure motor to provide strong cutting torque and enhance the performance stability. It suits both heavy and light cutting.

KT 16

Max turning diameter	260 (240) mm | 10.24 (9.45) inch
Max turning length	300 mm | 11.81 inch
Bar capacity	42 mm | 1.65 inch
Chuck size	6"

KT 18

Max turning diameter	260 (240) mm | 10.24 (9.45) inch
Max turning length	300 mm | 11.81 inch
Bar capacity	52 mm | 2.05 inch
Chuck size	8"

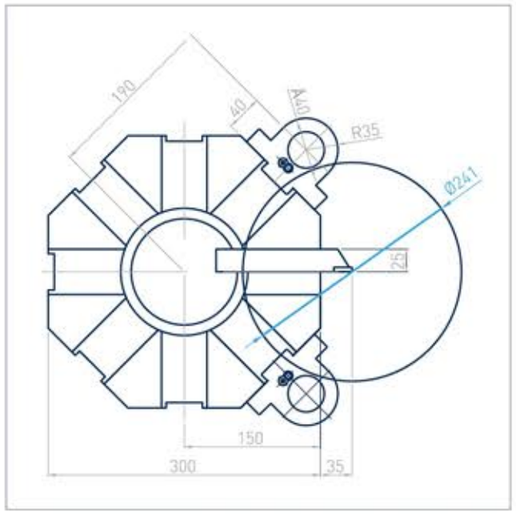


KT 20/20L

Max turning diameter	360 mm | 14.17 inch	360 mm | 14.17 inch
Max turning length	500 mm | 19.69 inch	750 mm | 29.53 inch
Bar capacity	52 mm | 2.05 inch	52 mm | 2.05 inch
Chuck size	8"	8"

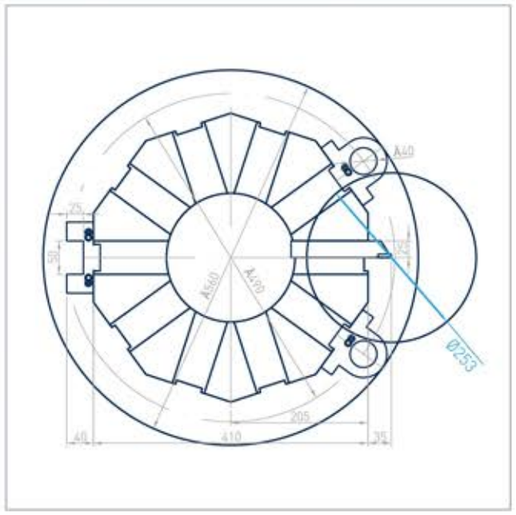
KT 200

Max turning diameter	360 mm | 14.17 inch
Max turning length	400 mm | 15.75 inch
Bar capacity	52 mm | 2.05 inch
Chuck size	8"



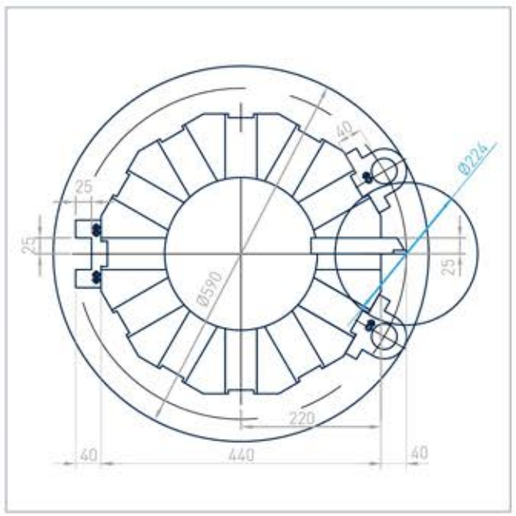
KT 25/25L

Max turning diameter	360 mm | 14.17 inch	360 mm | 14.17 inch
Max turning length	500 mm | 19.69 inch	750 mm | 29.53 inch
Bar capacity	75 mm | 2.95 inch	75 mm | 2.95 inch
Chuck size	10"	10"



KT 30

Max turning diameter	520 mm | 20.47 inch
Max turning length	750 mm | 29.53 inch
Bar capacity	85 mm | 3.35 inch
Chuck size	12"

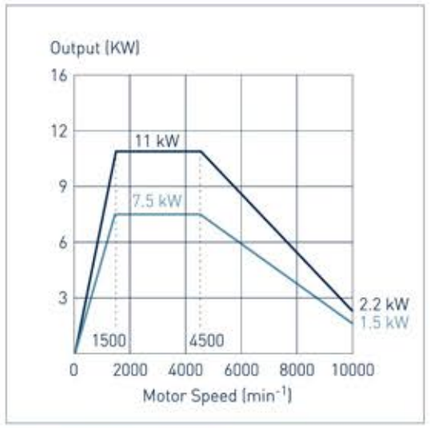


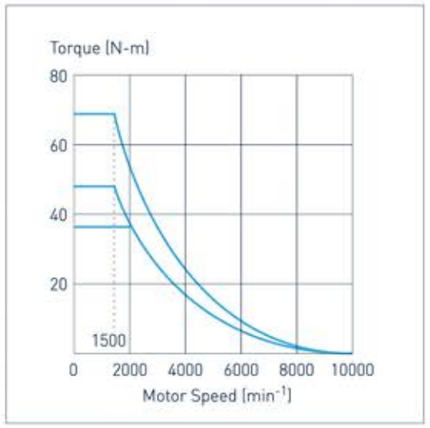
Output / Torque

Spindle Motor

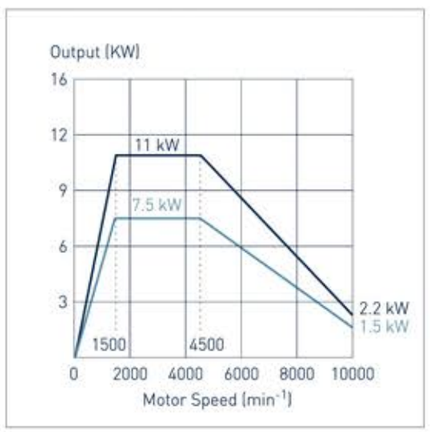
The headstocks for all the products are equipped with one-piece casting. High precision bearings from NSK are installed to provide high capacity of the bearing load, and effectively deliver a high precision and durability performance.

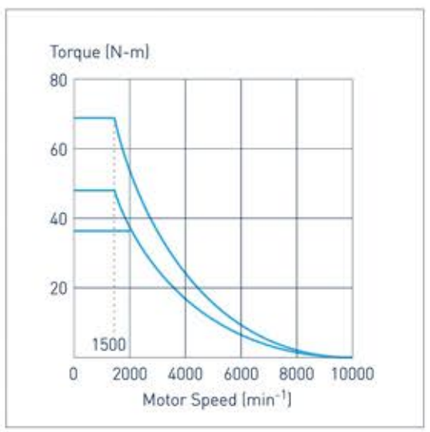
KT 16 — Beta 8



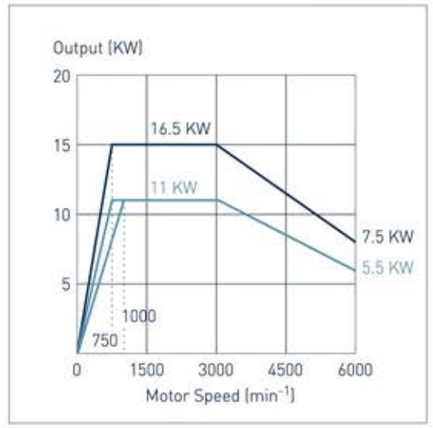


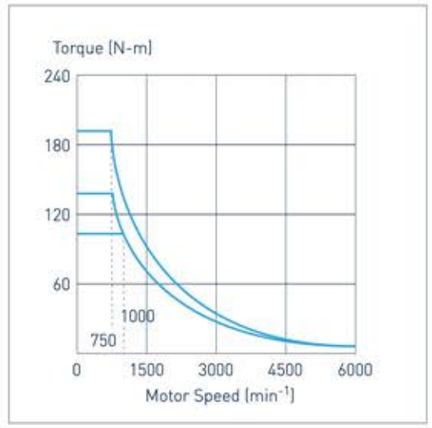
KT 18 — Beta 8



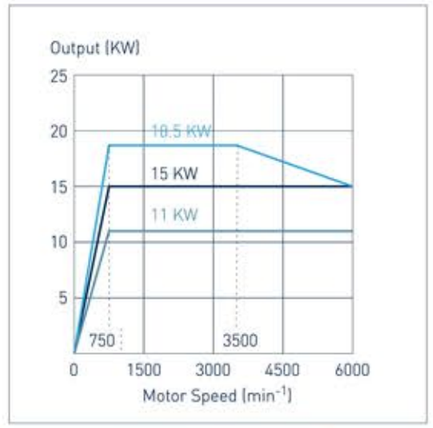


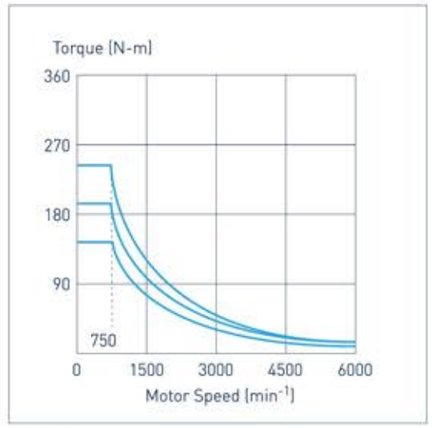
KT 20/20L KT 200 — Beta 22



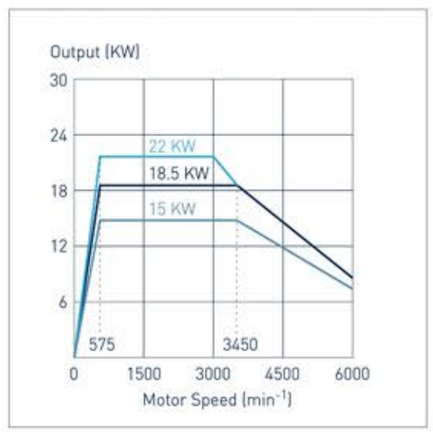


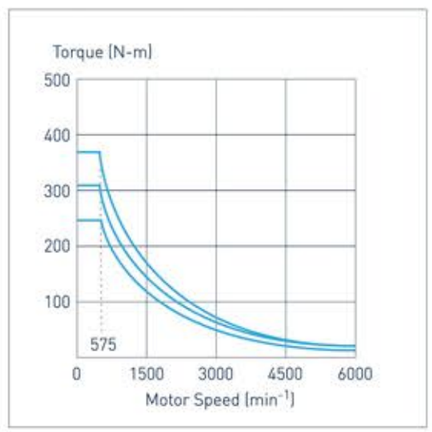
KT 20/20L KT 200 — Alpha 22





KT 25/25L KT 30 — Alpha 30

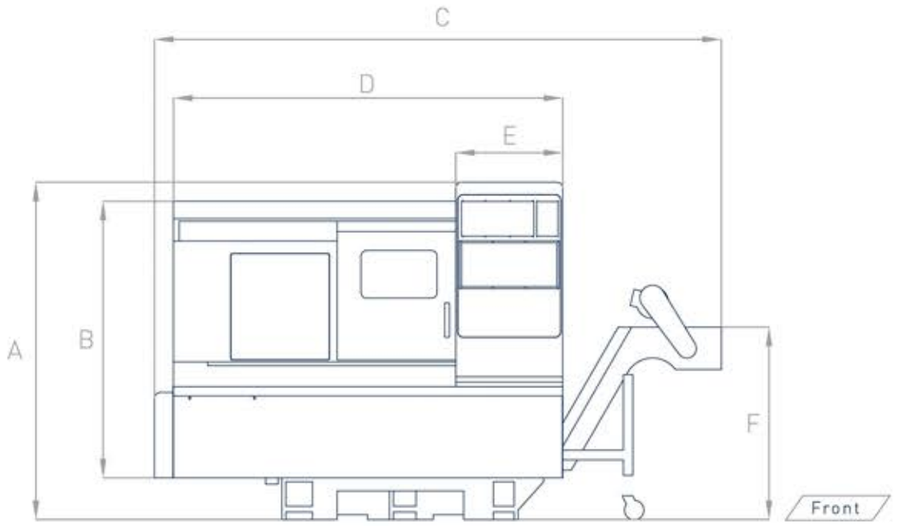


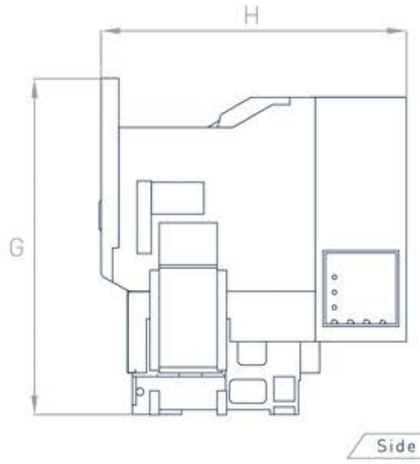


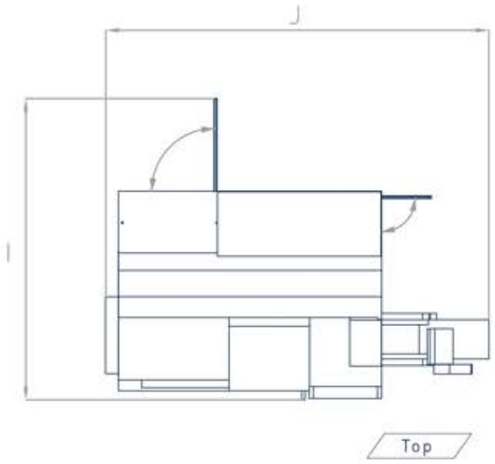
Floor Space

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.







Specification

Item	KT 16	KT 18	KT 20	KT 20L
A	1772 mm | 69.76 inch	1772 mm | 69.76 inch	1842 mm | 72.52 inch	1854 mm | 72.99 inch
B	1453 mm | 57.20 inch	1453 mm | 57.20 inch	1759 mm | 69.25 inch	1717 mm | 67.60 inch
C	2978 mm | 117.24 inch	2978 mm | 117.24 inch	3338 mm | 131.42 inch	3838 mm | 151.10 inch
D	2045 mm | 80.51 inch	2045 mm | 80.51 inch	2500 mm | 98.43 inch	2977 mm | 117.20 inch
E	562 mm | 22.13 inch	562 mm | 22.13 inch	620 mm | 24.41 inch	620 mm | 24.41 inch
F	1011 mm | 39.80 inch	1011 mm | 39.80 inch	1012mm | 39.84 inch	1012 mm | 39.84 inch
G	1770 mm | 69.69 inch	1770 mm | 69.69 inch	1842 mm | 72.52 inch	1854 mm | 72.99 inch
H	1610 mm | 63.39 inch	1610 mm | 63.39 inch	1658 mm | 65.28 inch	1660 mm | 65.35 inch
I	2340 mm | 92.13 inch	2340 mm | 92.13 inch	2370 mm | 93.31 inch	2392 mm | 94.17 inch
J	2976 mm | 117.17 inch	2976 mm | 117.17 inch	3167 mm | 124.69 inch	3838 mm | 151.10 inch

Specification

Item	KT 25	KT 25L	KT 30	KT 200
A	1854 mm | 72.99 inch	1854 mm | 72.99 inch	1962 mm | 77.24 inch	1702 mm | 67.01 inch
B	1817 mm | 71.54 inch	1717 mm | 67.60 inch	1853 mm | 72.95 inch	1008 mm | 39.69 inch
C	3508 mm | 138.11 inch	3838 mm | 151.10 inch	3838 mm | 151.10 inch	3318 mm | 130.63 inch
D	2500 mm | 98.43 inch	2977 mm | 117.20 inch	2894 mm | 113.94 inch	2145 mm | 84.45 inch
E	620 mm | 24.41 inch	620 mm | 24.41 inch	560 mm | 22.05inch	562 mm | 22.13 inch
F	1012 mm | 39.84 inch	1012 mm | 39.84 inch	1012 mm | 39.84 inch	987 mm | 38.86 inch
G	1854 mm | 72.99 inch	1854 mm | 72.99 inch	1962 mm | 77.24 inch	1702 mm | 67.01 inch
H	1658 mm | 65.28 inch	1660 mm | 65.35 inch	1743 mm | 68.62 inch	1554 mm | 61.18 inch
I	2370 mm | 93.31inch	2392 mm | 94.17 inch	2475 mm | 97.44 inch	2268 mm | 89.29 inch
J	3167 mm | 124.69 inch	3838 mm | 151.10 inch	3839 mm | 151.14 inch	3318 mm | 130.63 inch

Standard Specification

ITEM	UNIT	KT 16	KT 18	KT 20	KT 20L	KT 25	KT 25L	KT 30	KT 200
Controller	-	FANUC 0i-TF β8 SYNTEC	FANUC 0i-TF β12 SYNTEC	FANUC 0i-TF α22 FANUC 0i-TF β22	FANUC 0i-TF α22 FANUC 0i-TF β22	FANUC 0i-TF α30 (8T) FANUC 0i-TF α30 (10T)	FANUC 0i-TF α30 (8T) FANUC 0i-TF α30 (10T)	FANUC 0i-TF a30 (75) FANUC 0i-TF a30 (90)	FANUC 0i-TF β22
Bed swing diameter	mm (inch)	450 (17.72)	450 (17.72)	530 (20.87)	530 (20.87)	530 (20.87)	530 (20.87)	600 (23.62)	530 (20.87)
Saddle swing diameter	mm (inch)	280 (11.02)	280 (11.02)	380 (14.96)	380 (14.96)	380 (14.96)	380 (14.96)	400 (15.74)	380 (14.96)
Maximum turning diamteter	mm (inch)	260 (10.24) /240 (9.45)	260 (10.24) /240 (9.45)	360 (14.17)	360 (14.17)	360 (14.17)	360 (14.17)	520 (20.47)	360 (14.17)
Maximun turning length	mm (inch)	300 (11.81)	300 (11.81)	500 (19.69)	750 (29.53)	500 (19.69)	750 (29.53)	750 (29.53)	400 (15.75)
Bar capacity	mm (inch)	42 (1.65)	52 (2.05)	52 (2.05)	52 (2.05)	75 (2.95)	75 (2.95)	85 (3.35)	52 (2.05)
Power chuck diameter	inch	6	8	8	8	10	10	12	8
Spindle motor power	kw	5.5/7.5	7.5/11	11/15	11/15	15/18.5	15/18.5	15/18.5	11/15
Spindle speed	rpm	5000	4500	4500	4500	3500	3500	3000	4500
Spindle nose taper	ASA	A2-5	A2-6	A2-6	A2-6	A2-8	A2-8	A2-8	A2-6
Spindle bearing diameter	mm (inch)	90 (3.54)	100 (3.94)	100 (3.94)	100 (3.94)	120 (4.72)	120 (4.72)	140 (5.51)	100 (3.94)
Spindle taper	-	1/20	1/20	1/20	1/20	1/20	1/20	1/20	1/20
X-axis travel	mm (inch)	125+20 (4.92+0.78)	125+20 (4.92+0.78)	180+20 (7.09+0.79)	180+20 (7.09+0.79)	180+30 (7.09+1.18)	180+30 (7.09+1.18)	260+25 (10.24+0.98)	180+20 (7.09+0.79)
Z-axis travel	mm (inch)	300 (11.81)	300 (11.81)	500 (19.69)	750 (29.52)	500 (19.69)	750 (29.52)	750 (29.52)	400 (15.75)
X-axis rapid feed rate	m/min	24	24	24	24	20	20	20	24
Z-axis rapid feed rate	m/min	30	30	24	24	20	20	20	24
Guide way type	sideway	LINEAR	LINEAR	BOX	BOX	BOX	BOX	BOX	BOX
Turret driven type	-	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC	HYDRAULIC
Tool capacity	station	8/10	8/10	8/10	8/10	8/10	8/10	10/12	8/10
OD tool shank size	mm (inch)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)	25 (0.98)
ID tool shank size	mm (inch)	32 (1.26)	32 (1.26)	32 (1.26)	32 (1.26)	40 (1.57)	40 (1.57)	40 (1.57)	32 (1.26)
Tailstock travel positioning	-	Manual	Manual	Manual	Manual	Manual	Manual	Manual	Manual
Tailstock quill travel	mm (inch)	80 (3.15)	80 (3.15)	110 (4.33)	110 (4.33)	150 (5.91)	150 (5.91)	150 (5.91)	110 (4.33)
Tailstock travel	mm (inch)	200 (7.87)	200 (7.87)	425 (16.73)	675 (26.57)	425 (16.73)	675 (26.57)	425 (16.73)	325 (12.80)
Quill taper size	MT	MT#4	MT#4	MT#4	MT#4	MT#5	MT#5	MT#5	MT#4
Quill taper diameter	mm (inch)	70 (2.76)	70 (2.76)	70 (2.76)	70 (2.76)	85 (3.35)	85 (3.35)	85 (3.35)	70 (2.76)
Floor space (LxWxH)	mm (inch)	2978x1610x1772 (117.24x63.39x69.76)	2978x1610x1772 (117.24x63.39x69.76)	3338x1658x1842 (131.42x65.28x72.52)	3838x1660x1854 (151.10x65.35x72.99)	3508x1658x1854 (138.11x65.28x72.99)	3838x1660x1854 (151.10x65.35x72.99)	3838x1743x1964 (151.10x68.62x77.32)	3318x1554x1702 (130.63x61.18x67.01)
Machine weight	kg	3300	3300	4500	5300	5000	5800	6500	4000

Standard Accessories

ITEM	
FANUC 0i-TF contoller 8.4" color monitor	Boring bar holder - Φ32 / Φ40 mm : 4 sets
Hollow 3-jaw hydraulic cylinder and chuck	U-Drill holder - Φ32 / Φ40 mm : 2 sets
Hydraulic power supply unit	Boring bar socket Φ32 / Φ40 mm (8/25 mm) : 1 set
Three color wokring warning light	Boring bar socket Φ32 / Φ40 mm (10/12/16/20 mm) : 2 sets
Heat exchanger for electric cabinet	Foot switch
Lubircation system	Leveling pads
Belt type chip conveyor and chip cart	Tool kit
Stanadrd soft jaws	2-years warranty on FANUC controller
Facing tool holder - Φ25 mm : 2 sets	1-year warranty on KAIFENG machine parts

Optional Accessories

ITEM	
Programmable tailstock	Forming coil 8"
Probe system	Forming coil 10"
Oil skimmer	Keep-off rod 8"
Tranfromer 25KVA	Keep-off rod 10"
Tranfromer 30KVA	Live center (SC-61-M-4)
Auto door	Live center (SC-61-M-4)
Auto catcher	Exterior control box
Auto loader	
AC for the electrical box	

TL / TM

Series

Machining Centre

High efficiency with perfect accuracy. Kaifeng Machinery have held true to the traditional production method, and the materials that are chosen have been known as the best in the industry. This machine will satisfy your needs and provide you with the best user experience.

TL
Series

TL 500

Tapping Centre
1686x2540x2435

Specification

Item	TL 500
Spindle driven type	DIRECT
Spindle speed	10,000 rpm
Spindle taper	BT-30
Spindle drive motor	3.7/5.5 kw
Spindle to worktable	180-530 mm | 7.09-20.87 inch
X-axis travel	510 mm | 20.08 inch
Y-axis travel	420 mm | 16.54 inch
Z-axis travel	350 mm | 13.78 inch
Cutting feed rate	10 m/min
Rapid feed rate	48 m/min
3-axis guide width (X/Y/Z)	25/25/30 mm | 0.98/0.98/1.18 inch
Surface (LxW)	650x420 mm | 25.59x16.54 inch
Maximum workpiece load	250 kg
Tool changer	UMBRELLA
Tool magazine capacity	BT-30/16T
Net weight	2800 kg

TL 700

Tapping Centre
2136x2540x2435

Specification

Item	TL 700
Spindle driven type	DIRECT
Spindle speed	10,000 rpm
Spindle taper	BT-30
Spindle drive motor	3.7/5.5 kw
Spindle to worktable	180-530 mm | 7.09-20.87 inch
X-axis travel	710 mm | 27.95 inch
Y-axis travel	420 mm | 16.54 inch
Z-axis travel	350 mm | 13.78 inch
Cutting feed rate	10 m/min
Rapid feed rate	48 m/min
3-axis guide width (X/Y/Z)	25/25/30 mm | 0.98/0.98/1.18 inch
Surface (LxW)	850x420 mm | 33.46x16.54 inch
Maximum workpiece load	250 kg
Tool changer	UMBRELLA
Tool magazine capacity	BT-30/16T
Net weight	2900 kg

TL
Series

Structure

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. Y-shaped interior design deliver a solid foundation and support to the accurate dynamism.

Turret

The use of arm type tool changer increase the productive time by shorting the tool changing time in both directions. All the machining centre products are equipped with 20T/24T arm-type tool magazine as standard.

Spindle

All the TL series products are equipped with direct driven spindle with the advantage of rapid wind up and down time. Efficient production with easier maintenance.

VMC (Linear)

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. Y-shaped interior design deliver a solid foundation and support to the accurate dynamism.

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.

Guideway

Roller type linear guideways are implemented for all the TL series products. With the equipment of rolling guideways, faster run times and the ability to hold tighter tolerance is secured. Less vibration damping is better conquered as roller-type guideways deflect less under repeated and varying loads. Less vibration improves cutting capacity and part surface finish, and results in longer tool life.

TL
Series

TL 750

Machining Centre
2621x2630x2496

Specification

Item	TL 750
Spindle driven type	DIRECT
Spindle speed	12,000/10,000 rpm
Spindle taper	BT-40
Spindle drive motor	5.5/7.5 kw
Spindle to worktable	100-600 mm | 3.94-23.62 inch
X-axis travel	750 mm | 29.53 inch
Y-axis travel	500 mm | 19.69 inch
Z-axis travel	500 mm | 19.69 inch
Cutting feed rate	10 m/min
Rapid feed rate	36 m/min
3-axis guide width (X/Y/Z)	30/30/35 mm | 1.18x1.18x1.38 inch
Surface (LxW)	850x500 mm | 33.46x19.69 inch
Maximum workpiece load	500 kg
Tool changer	ARM
Tool magazine capacity	BT-40/20T
Net weight	4000 kg

TL 1060/1260

Machining Centre
2660x2380x2883 / 3030x2597x2878

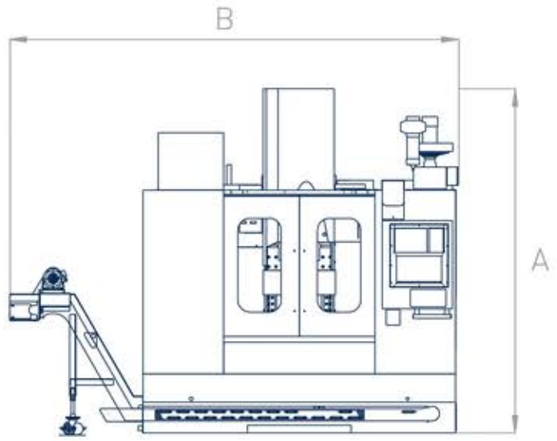
Specification

Item	TL 1060	TL 1260
Spindle driven type	DIRECT	DIRECT
Spindle speed	10,000 rpm	10,000 rpm
Spindle taper	BT-40	BT-40
Spindle drive motor	7.5/11 kw	11/15 kw
Spindle to worktable	120-720 mm | 4.72-28.35 inch	120-720 mm | 4.72-28.35 inch
X-axis travel	1000 mm | 39.37 inch	1200 mm | 47.24 inch
Y-axis travel	600 mm | 23.62 inch	600 mm | 23.62 inch
Z-axis travel	600 mm | 23.62 inch	600 mm | 23.62 inch
Cutting feed rate	10 m/min	10 m/min
Rapid feed rate	24/36 m/min	24/36 m/min
3-axis guide width (X/Y/Z)	45/45/45 mm | 1.77/1.77/1.77 inch	45/45/45 mm | 1.77/1.77/1.77 inch
Surface (LxW)	1100x600 mm | 43.31x23.62 inch	1300x600 mm | 51.18x23.62 inch
Maximum workpiece load	700 kg	700 kg
Tool changer	ARM	ARM
Tool magazine capacity	BT-40/24T	BT-40/24T
Net weight	6800 kg	7000 kg

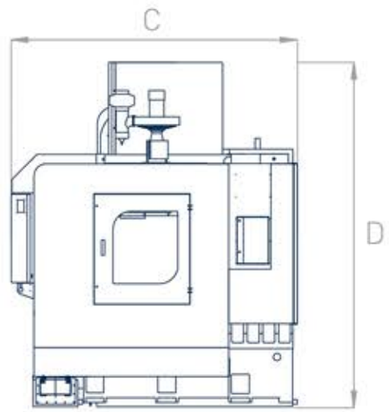
Floor Space

Floor Space

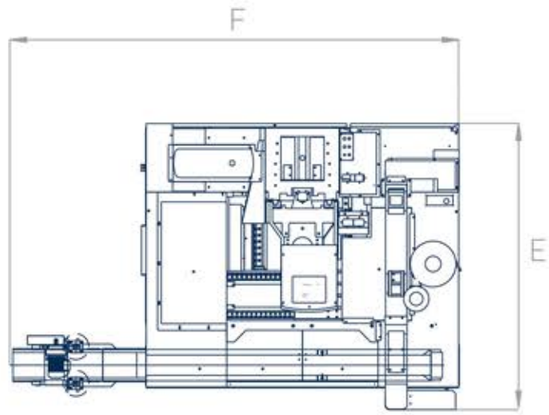
New Generation KFM machining centres were designed to be extremely rigid with high accuracy. The castings were more by using finite element analysis (FEA) to bring out the best cutting performance. We strive for the better for our customers, through constant research and product refinement, KFM is your best partner with the most potential to work with.



Front



Side



Top

Specification

Item	TL 500	TL 700
A	2010 mm | 79.13 inch	2114 mm | 83.23 inch
B	1686 mm | 66.38 inch	2136 mm | 84.09 inch
C	2010 mm | 79.13 inch	2114 mm | 83.23 inch
D	2481 mm | 97.68 inch	2573 mm | 101.30 inch
E	2632 mm | 103.62 inch	3596 mm | 141.57 inch
F	1600 mm | 62.99 inch	2050 mm | 80.71 inch

Specification

Item	TL 750	TL 1060	TL 1260
A	2496 mm | 98.27 inch	2883 mm | 113.5 inch	2878 mm | 113.31 inch
B	2621 mm | 103.19 inch	2660 mm | 104.72 inch	3030 mm | 119.29 inch
C	2496 mm | 98.27 inch	2883 mm | 113.5 inch	2878 mm | 113.31 inch
D	2630 mm | 103.54 inch	2380 mm | 93.701 inch	2597 mm | 102.24 inch
E	2665 mm | 104.92 inch	3255 mm | 128.15 inch	3428 mm | 134.96 inch
F	2589 mm | 101.93 inch	2600 mm | 102.36 inch	3030 mm | 119.29 inch

Standard Specification

ITEM	UNIT	TL 500	TL 700	TL 750	TL 1060	TL 1260
Controller	-	Fanuc 0i-MF - MITSUBISHI M70V	Fanuc 0i-MF - MITSUBISHI M70V	FANUC 0i-MF α 6 FANUC 0i-MF β 8 MITSUBISHI M70	FANUC 0i-MF α 12 FANUC 0i-MF β 12 MITSUBISHI M70	FANUC 0i-MF α 12 - MITSUBISHI M70
Spindle driven type	-	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
Spindle speed	rpm	10,000	10,000	12,000/10,000	10,000	10,000
Spindle taper	-	BT-30	BT-30	BT-40	BT-40	BT-40
Spindle drive motor	kw	3.7/5.5	3.7/5.5	5.5/7.5	7.5/11	11/15
Spindle to worktable	mm (inch)	180-530 (7.09-20.87)	180-530 (7.09-20.87)	100-600 (3.94-23.62)	120-720 (4.72-28.35)	120-720 (4.72-28.35)
X-axis travel	mm (inch)	510 (20.08)	710 (27.95)	750 (29.53)	1000 (39.37)	1200 (47.24)
Y-axis travel	mm (inch)	420 (16.54)	420 (16.54)	500 (19.69)	600 (23.62)	600 (23.62)
Z-axis travel	mm (inch)	350 (13.78)	350 (13.78)	500 (19.69)	600 (23.62)	600 (23.62)
Cutting feed rate	m/min	10	10	10	10	10
Rapid feed rate	m/min	48	48	36	24/36	24/36
3-axis guide width (X/Y/Z)	mm (inch)	25/25/30 (0.98/0.98/1.18)	25/25/30 (0.98/0.98/1.18)	30/30/35 (1.18x1.18x1.38)	45/45/45 (1.77/1.77/1.77)	45/45/45 (1.77/1.77/1.77)
Screw diameter/thread	mm (inch)	25/25/36 (0.98/0.98/1.42)	25/25/36 (0.98/0.98/1.42)	Φ40/P16	X:Φ40/P12 Y:Φ45/P12	Φ45/P12
Surface (LxW)	mm (inch)	650x420 (25.59x16.54)	850x420 (33.46x16.54)	850x500 (33.46x19.69)	1100x600 (43.31x23.62)	1300x600 (51.18x23.62)
T-slot (QTYxWxD)	mm (inch)	3x14x100 (0.12x0.55x3.94)	3x14x100 (0.12x0.55x3.94)	5x14x100 (0.20x0.55x3.94)	5x18x100 (0.20x0.71x3.94)	5x18x100 (0.20x0.71x3.94)
Maximum workpiece load	kg	250	250	500	700	700
Tool changer	type	UMBRELLA	UMBRELLA	ARM	ARM	ARM
Tool magazine capacity	pcs	BT-30/16T	BT-30/16T	BT-40/20T	BT-40/24T	BT-40/24T
Tool selection	-	TWO-WAY	TWO-WAY	TWO-WAY	TWO-WAY	TWO-WAY
Maximum tool length	mm (inch)	200 (7.87)	200 (7.87)	300 (11.81)	250 (9.84)	250 (9.84)
Tool diameter	mm	Φ90	Φ90	Φ80 (Φ150 HEAVY TOOL)	Φ80 (Φ150 HEAVY TOOL)	Φ80 (Φ150 HEAVY TOOL)
Maximum tool load	kg	3	3	7	7	7
Pull stud	degree	45 (90)	45 (90)	45 (90)	45 (90)	45 (90)
Chip conveyor	-	OPT	OPT	DUAL SCREW	BELT	BELT
Electricity power	voltage	220V	220V	220V	220V	220V
Floor space (LxWxH)	mm (inch)	1686x2540x2435 (66.38x100x95.87)	2136x2540x2435 (84.09x100x95.87)	2621x2630x2496 (103.19x103.54x98.27)	2660x2380x2883 (104.72x93.70x113.50)	3030x2597x2878 (119.29x102.24x113.31)
Net weight	kg	2800	2900	4000	6800	7000

Optional Accessories

ITEM
Gear head spindle BT40 8,000 rpm
BT40/CAT40 10,000 rpm (Belt Drive)
BT40/CAT40 10,000 rpm (Direct Drive)
BT40/CAT40 12,000 rpm (Direct Drive)
BT40/CAT40 15,000 rpm (Direct Drive)
BT50/CAT50 8,000 rpm (Gear Type)
Coolant through spindle (20 bar)
Coolant through spindle (30 bar)
BT40/CAT24 24 tools arm type ATC
BT40/CAT24 30 tools arm type ATC
BT50/CAT50 32 tools arm type ATC
Probe system BT20 (Taiwan)
Probe system T24E (Japan)
Probe system OMP60 (Renishaw)
Chip conveyor (Belt Type)
Oil skimmer
High pressure coolant pump
Coolant mist collector
Tranfromer 25KVA
Tranfromer 30KVA
CE standard package
FANUC - DATA SERVER
FANUC - AICC
FANUC - AICC2
Rotary talbe Φ250 (Taiwan)
Manul / Auto tailstock
Hydraulic power unit
Electric box with AC system

Standard Accessories

ITEM	TL 500	TL 700	TL 750	TL 1060	TL 1260
Water gun	v	v	v	v	v
Air gun	v	v	-	v	v
Tool kit	v	v	v	v	v
Leveling pads	9	9	9	9	9
Operation manual	v	v	v	v	v
FANUC/MITSUBISHI controller 2-year warranty	v	v	v	v	v
KAIFENG machine parts 1-year warranty	v	v	v	v	v

TM Series

Structure

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. Y-shaped interior design deliver a solid foundation and support to the accurate dyna-

Turret

The use of arm type tool changer increase the productive time by shorting the tool changing time in both direction. All the machining centre products are equipped with 24T arm-type tool magazine as standard.

Spindle

Belt type spindle, as the spindle itself is comprised of a few basic parts, the cost is relatively low, when compared to direct spindles. High power and torque is still offered to suit a variety of production needs.

VMC (Boxway)

With over ten years' experience in vertical machining center production, we have managed to provide our clients with a high rigidity machine tool for efficient heavy cutting. Broad worktable surface not only offers diversity in processing your work piece, but also saves the time taken in uploading and unloading the product.

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.

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.

TM
Series

TM 900 / TM 1100/1100L

Machining Centre

3390x2900x2585 / 3490x2900x2585 / 3490x3030x2585

Specification

Item	TM 900	TM 1100	TM 1100L
Spindle driven type	BELT	BELT	BELT
Spindle speed	8,000 rpm	8,000 rpm	8,000 rpm
Spindle taper	BT-40	BT-40	BT-40
Spindle drive motor	7.5/11 kw	7.5/11 kw	7.5/11 kw
Spindle to worktable	150-760 mm | 5.91-29.92 inch	150-760 mm | 5.91-29.92 inch	150-760 mm | 5.91-29.92 inch
X-axis travel	900 mm | 35.43 inch	1100 mm | 43.31 inch	1100 mm | 43.31 inch
Y-axis travel	610 mm | 24.02 inch	610 mm | 24.02 inch	720 mm | 28.34 inch
Z-axis travel	610 mm | 24.02 inch	610 mm | 24.02 inch	610 mm | 24.02 inch
Cutting feed rate	12 (0.47) m/min	12 (0.47) m/min	12 (0.47) m/min
Rapid feed rate	18x18x15 m/min	18x18x15 m/min	18x18x15 m/min
3-axis guide width (X/Y/Z)	120/100/100 mm | 4.72/3.94/43.94inch	120/100/100 mm | 4.72/3.94/3.94 inch	120/100/120 mm | 4.72/3.94/4.72 inch
Surface (LxW)	950x610 mm | 37.4x24.02 inch	1150x610 mm | 45.28x24.02 inch	1300x700 mm | 51.18x27.56 inch
Maximum workpiece load	900 kg	1000 kg	1200 kg
Tool changer	ARM	ARM	ARM
Tool magazine capacity	24T	24T	24T
Net weight	7500 kg	8000 kg	9500 kg

TM 1200 / TM 1300/1300G

Machining Centre

3490x3030x2585 / 3590x3030x2585 / 3590x3030x2685

Specification

Item	TM 1200	TM 1300	TM 1300G
Spindle driven type	BELT	BELT	GEAR
Spindle speed	8,000 rpm	8,000 rpm	6,000 rpm
Spindle taper	BT-40	BT-40	BT-50
Spindle drive motor	7.5/11 kw	11/15 kw	11/15 kw
Spindle to worktable	150-760 mm | 5.91-29.92 inch	150-760 mm | 5.91-29.92 inch	150-830 mm | 5.91-32.68 inch
X-axis travel	1200 mm | 47.25 inch	1300 mm | 51.18 inch	1300 mm | 51.18 inch
Y-axis travel	720 mm | 28.34 inch	720 mm | 28.34 inch	720 mm | 28.34 inch
Z-axis travel	610 mm | 24.02 inch	610 mm | 24.02 inch	680 mm | 26.77 inch
Cutting feed rate	10 (0.39) m/min	10 (0.39) m/min	10 (0.39) m/min
Rapid feed rate	15x15x12 m/min	15x15x12 m/min	15x15x12 m/min
3-axis guide width (X/Y/Z)	120/100/120 mm | 4.72/3.94/4.72 inch	120/100/120 mm | 4.72/3.94/4.72 inch	120/100/120 mm | 4.72/3.94/4.72 inch
Surface (LxW)	1350x700 mm | 53.15x27.56 inch	1550x700 mm | 61.02x27.56 inch	1550x700 mm | 61.02x27.56 inch
Maximum workpiece load	1300 kg	1400 kg	1400 kg
Tool changer	ARM	ARM	ARM
Tool magazine capacity	24T	24T	24T
Net weight	9700 kg	9900 kg	10400 kg

TM
Series

TM 1500/1500G

Machining Centre

3800x3030x2585 / 3800x3030x2685

Specification

Item	TM 1500	TM 1500G
Spindle driven type	BELT	GEAR
Spindle speed	8,000 rpm	6,000 rpm
Spindle taper	BT-40	BT-50
Spindle drive motor	15/18.5 kw	15/18.5 kw
Spindle to worktable	150-760 mm | 5.91-29.92 inch	150-830 mm | 5.91-32.68 inch
X-axis travel	1500 mm | 59.05 inch	1500 mm | 59.05 inch
Y-axis travel	720 mm | 28.34 inch	720 mm | 28.34 inch
Z-axis travel	610 mm | 24.02 inch	680 mm | 26.77 inch
Cutting feed rate	10 (0.39) m/min	10 (0.39) m/min
Rapid feed rate	15x15x12 m/min	15x15x12 m/min
3-axis guide width (X/Y/Z)	120/100/120 mm | 4.72/3.94/4.72 inch	120/100/120 mm | 4.72/3.94/4.72 inch
Surface (LxW)	1550x700 mm | 61.02x27.56 inch	1550x700 mm | 61.02x27.56 inch
Maximum workpiece load	1500 kg	1500 kg
Tool changer	ARM	ARM
Tool magazine capacity	24T	24T
Net weight	10100 kg	10600 kg

TM 1600/1600G

Machining Centre

4450x3030x3200 / 4450x3030x3200

Specification

Item	TM 1600	TM 1600G
Spindle driven type	BELT	GEAR
Spindle speed	8,000 rpm	6,000 rpm
Spindle taper	BT-40	BT-50
Spindle drive motor	15/22 kw	15/22 kw
Spindle to worktable	150-900 mm | 5.91-35.43 inch	150-900 mm | 5.91-35.43 inch
X-axis travel	1600 mm | 62.99 inch	1600 mm | 62.99 inch
Y-axis travel	850 mm | 33.46 inch	850 mm | 33.46 inch
Z-axis travel	750 mm | 29.53 inch	750 mm | 29.53 inch
Cutting feed rate	10 (0.39) m/min	10 (0.39) m/min
Rapid feed rate	12x12x10 m/min	12x12x10 m/min
3-axis guide width (X/Y/Z)	120/150/125 mm | 4.72/5.91/4.92 inch	120/150/125 mm | 4.72/5.91/4.92 inch
Surface (LxW)	1700x700 mm | 66.93x27.56 inch	1700x700 mm | 66.93x27.56 inch
Maximum workpiece load	1800 kg	1800 kg
Tool changer	ARM	ARM
Tool magazine capacity	24T	24T
Net weight	13500 kg	13700 kg

TM
Series

TM 1800/1800G

Machining Centre

4550x3030x3200 / 4550x3030x3200

Specification

Item	TM 1800	TM 1800G
Max turning diameter	BELT	GEAR
Max turning length	8,000 rpm	6,000 rpm
Bar capacity	BT-40	BT-50
Chuck size	15/22 kw	15/22 kw
Spindle motor	150-900 mm | 5.91-35.43 inch	150-900 mm | 5.91-35.43 inch
Spindle speed	1800 mm | 70.87 inch	1800 mm | 70.87 inch
Spindle nose	850 mm | 33.46 inch	850 mm | 33.46 inch
X travel	750 mm | 29.53 inch	750 mm | 29.53 inch
Z travel	10 (0.39) m/min	10 (0.39) m/min
X rapid rate	12x12x10 m/min	12x12x10 m/min
Z rapid rate	120/150/125 mm | 4.72/5.91/4.92 inch	120/150/125 mm | 4.72/5.91/4.92 inch
Rail type	1900x800 mm | 74.80x31.50 inch	1900x800 mm | 74.80x31.50 inch
Tool capacity	2200 kg	2200 kg
Tailstock travel	ARM	ARM
Machine(LxWxH)	24T	24T
Machine weight	14050 kg	14250 kg

TM 2000/2000G

Machining Centre

4550x3030x3200 / 4550x3030x3200

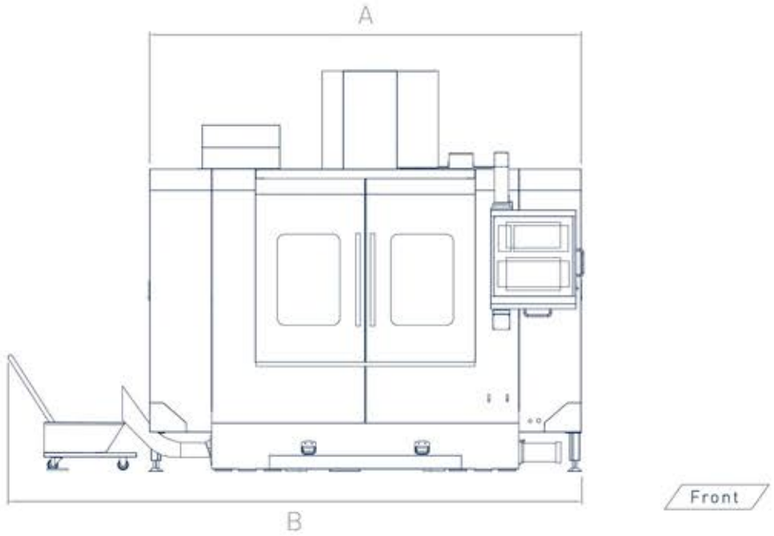
Specification

Item	TM 2000	TM 2000G
Max turning diameter	BELT	GEAR
Max turning length	8,000 rpm	6,000 rpm
Bar capacity	BT-40	BT-50
Chuck size	15/22 kw	15/22 kw
Spindle motor	150-900 mm | 5.91-35.43 inch	150-900 mm | 5.91-35.43 inch
Spindle speed	2000 mm | 78.74 inch	1800 mm | 70.87 inch
Spindle nose	850 mm | 33.46 inch	850 mm | 33.46 inch
X travel	750 mm | 29.53 inch	750 mm | 29.53 inch
Z travel	10 (0.39) m/min	10 (0.39) m/min
X rapid rate	12x12x10 m/min	12x12x10 m/min
Z rapid rate	120/150/125 mm | 4.72/5.91/4.92 inch	120/150/125 mm | 4.72/5.91/4.92 inch
Rail type	2100x800 mm | 82.68x31.50 inch	1900x800 mm | 74.80x31.50 inch
Tool capacity	2400kg	2400 kg
Tailstock travel	ARM	ARM
Machine(LxWxH)	24T	24T
Machine weight	14300 kg	14500 kg

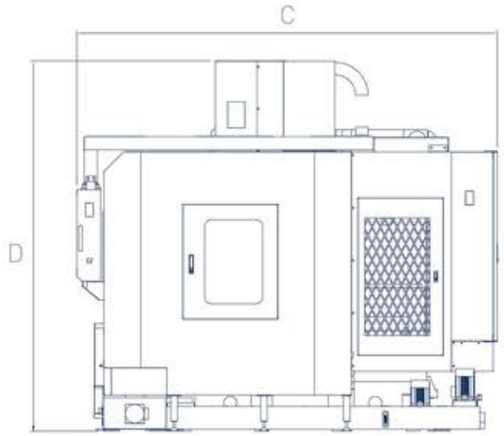
Floor Space

Floor Space

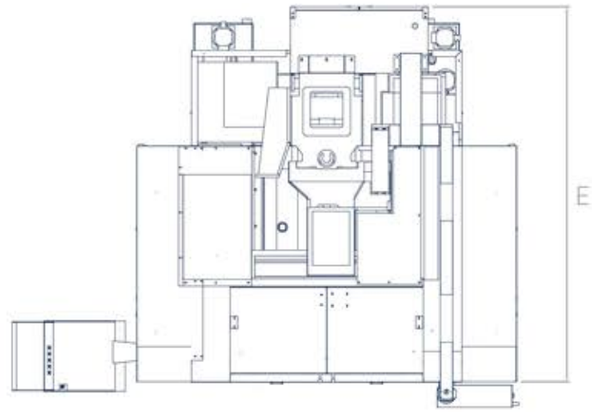
New Generation KFM machining centres were designed to be extremely rigid with high accuracy. The castings were optimised more by using finite element analysis (FEA) to bring out the best cutting performance. We strive for the better for our customers, through constant research and product refinement, KFM is your best partner with the most potential to work with. This is a series of machining centre machines with compact design and the best user experience.



Front



Side



Top

Specification

Item	TM 900	TM 1100	TM 1100L
A	2935 mm | 115.55 inch	3035 mm | 119.49 inch	3035 mm | 119.49 inch
B	3935 mm | 154.92 inch	4035 mm | 158.86 inch	4035 mm | 158.86 inch
C	3200 mm | 125.98 inch	3200 mm | 125.98 inch	3200 mm | 125.98 inch
D	2850 mm | 112.20 inch	2850 mm | 112.20 inch	2850 mm | 112.20 inch
E	3000 mm | 118.11 inch	3000 mm | 118.11 inch	3000 mm | 118.11 inch

Item	TM 1500	TM 1500G	TM 1600	TM 1600G
A	4695 mm | 184.84 inch	4695 mm | 184.84 inch	4915 mm | 193.50 inch	4915 mm | 193.50 inch
B	5340 mm | 210.24 inch	5340 mm | 210.24 inch	5560 mm | 218.90 inch	5560 mm | 218.90 inch
C	3810 mm | 150.00 inch	3810 mm | 150.00 inch	3810 mm | 150.00 inch	3810 mm | 150.00 inch
D	2880 mm | 113.39 inch	2950 mm | 116.14 inch	3500 mm | 137.80 inch	3500 mm | 137.80 inch
E	3220 mm | 126.77 inch	3220 mm | 126.77 inch	3260 mm | 128.35 inch	3260 mm | 128.35 inch

Specification

Item	TM 1200	TM 1300	TM 1300G
A	4395 mm | 173.03 inch	4495 mm | 176.97 inch	4495 mm | 176.97 inch
B	5040 mm | 198.43 inch	5140 mm | 202.36 inch	5140 mm | 202.36 inch
C	3810 mm | 150.00 inch	3810 mm | 150.00 inch	3810 mm | 150.00 inch
D	2880 mm | 113.39 inch	2880 mm | 113.39 inch	2880 mm | 113.39 inch
E	3220 mm | 126.77 inch	3220 mm | 126.77 inch	3220 mm | 126.77 inch

Item	TM 1800	TM 1800G	TM 2000	TM 2000G
A	5115 mm | 201.38 inch	5115 mm | 201.38 inch	5315 mm | 209.25 inch	5315 mm | 209.25 inch
B	5760 mm | 226.77 inch	5760 mm | 226.77 inch	5760 mm | 226.77 inch	5960 mm | 234.65 inch
C	3810 mm | 150.00 inch	3810 mm | 150.00 inch	3810 mm | 150.00 inch	3810 mm | 150.00 inch
D	3500 mm | 137.80 inch	3500 mm | 137.80 inch	3500 mm | 137.80 inch	3500 mm | 137.80 inch
E	3260 mm | 128.35 inch	3260 mm | 128.35 inch	3260 mm | 128.35 inch	3260 mm | 128.35 inch

Standard Specification

ITEM	UNIT	TM 900	TM 1100	TM 1100L	TM 1200	TM 1300	TM 1300G	TM 1500
Controller	-	FANUC 0i-MF MITSUBISHI M70A	FANUC 0i-MF MITSUBISHI M70A	FANUC 0i-MF MITSUBISHI M70A	FANUC 0i-MF MITSUBISHI M70A	FANUC 0i-MF MITSUBISHI M70A	FANUC 0i-MF MITSUBISHI M70A	FANUC 0i-MF MITSUBISHI M70A
Spindle driven type	-	BELT	BELT	BELT	BELT	BELT	GEAR	BELT
Spindle speed	rpm	8,000	8,000	8,000	8,000	8,000	6,000	8,000
Spindle taper	-	BT-40	BT-40	BT-40	BT-40	BT-40	BT-50	BT-40
Spindle drive motor	kw	7.5/11	7.5/11	7.5/11	7.5/11	11/15	11/15	15/18.5
Spindle to worktable	mm [inch]	150-760 [5.91-29.92]	150-760 [5.91-29.92]	150-760 [5.91-29.92]	150-760 [5.91-29.92]	150-760 [5.91-29.92]	150-830 [5.91-32.68]	150-760 [5.91-29.92]
X-axis travel	mm [inch]	900 [35.43]	1100 [43.31]	1100 [43.31]	1200 [47.25]	1300 [51.18]	1300 [51.18]	1500 [59.06]
Y-axis travel	mm [inch]	610 [24.02]	610 [24.02]	720 [28.35]	720 [28.35]	720 [28.35]	720 [28.35]	720 [28.35]
Z-axis travel	mm [inch]	610 [24.02]	610 [24.02]	610 [24.02]	610 [24.02]	610 [24.02]	680 [26.77]	610 [24.02]
Cutting feed rate	m/min	12 [0.47]	12 [0.47]	12 [0.47]	10 [0.39]	10 [0.39]	10 [0.39]	10 [0.39]
Rapid feed rate	m/min	18x18x15	18x18x15	18x18x15	15x15x12	15x15x12	15x15x12	15x15x12
3-axis guide width (X/Y/Z)	mm [inch]	120/100/100 [4.72/3.94/3.94]	120/100/100 [4.72/3.94/3.94]	120/100/120 [4.72/3.94/4.72]	120/100/120 [4.72/3.94/4.72]	120/100/120 [4.72/3.94/4.72]	120/100/120 [4.72/3.94/4.72]	120/100/120 [4.72/3.94/4.72]
Screw diameter/thread	mm [inch]	X:Φ40/Y:Φ40/Z:Φ40 P:10	X:Φ40/Y:Φ40/Z:Φ40 P:10	X:Φ40/Y:Φ50/Z:Φ4 P:10	X:Φ40/Y:Φ50/Z:Φ40 P:10	X:Φ50/Y:Φ50/Z:Φ40 P:10	X:Φ50/Y:Φ50/Z:Φ50 P:10	X:Φ50/Y:Φ50/Z:Φ40 P:10
Surface (LxW)	mm [inch]	950x610 [37.4x24.02]	1150x610 [45.28x24.02]	1300x700 [51.18x27.56]	1350x700 [53.15x27.56]	1550x700 [61.02x27.56]	1550x700 [61.02x27.56]	1550x700 [61.02x27.56]
T-slot (QTYxWxD)	mm [inch]	5x18x130 [0.20x0.71x5.12]	5x18x130 [0.20x0.71x5.12]	5x18x130 [0.20x0.71x5.12]	5x18x130 [0.20x0.71x5.12]	5x18x130 [0.20x0.71x5.12]	5x18x130 [0.20x0.71x5.12]	5x18x130 [0.20x0.71x5.12]
Maximum workpiece load	kg	900	1000	1200	1300	1400	1400	1500
Tool changer	type	ARM	ARM	ARM	ARM	ARM	ARM	ARM
Tool magazine capacity	pcs	24T	24T	24T	24T	24T	24T	24T
Tool selection	-	TWO WAY	TWO WAY	TWO WAY	TWO WAY	TWO WAY	TWO WAY	TWO WAY
Maximum tool length	mm [inch]	300 [11.81]	300 [11.81]	300 [11.81]	300 [11.81]	300 [11.81]	400 [15.75]	300 [11.81]
Tool diameter	mm	Φ80 (Φ160 HEAVY TOOL)	Φ80 (Φ160 HEAVY TOOL)	Φ80 (Φ160 HEAVY TOOL)	Φ80 (Φ160 HEAVY TOOL)	Φ80 (Φ160 HEAVY TOOL)	Φ127 (Φ200 HEAVY TOOL)	Φ80 (Φ160 HEAVY TOOL)
Maximum tool load	kg	8	8	8	8	8	8	8
Pull stud	degree	45	45	45	45	45	45	45
Chip conveyor	-	SCREW	SCREW	SCREW	SCREW	SCREW	SCREW	OPT
Electricity power	voltage	220V/380V	220V/380V	220V/380V	220V/380V	220V/380V	220V/380V	220V/380V
Floor space (LxWxH)	mm [inch]	3390x2900x2585 [133.46x114.17x101.77]	3490x2900x2585 [137.40x114.17x101.77]	3490x3030x2585 [137.40x119.29x101.77]	3490x3030x2585 [137.40x119.29x101.77]	3590x3030x2585 [141.34x119.29x101.77]	3590x3030x2685 [141.34x119.29x105.71]	3800x3030x2585 [149.61x119.29x101.77]
Net weight	kg	7500	8000	9500	9700	9900	10400	10100

Standard Accessories

ITEM	TM 900	TM 1100	TM 1100L	TM 1200	TM 1300	TM 1300G	TM 1500
Water gun	v	v	v	v	v	v	v
Air gun	v	v	v	v	v	v	v
Tool kit	v	v	v	v	v	v	v
Leveling pads	v	v	v	v	v	v	v
Operation manual	v	v	v	v	v	v	v
FANUC controller 2-year warranty	v	v	v	v	v	v	v
KAIFENG machine parts 1-year warranty	v	v	v	v	v	v	v

Standard Specification

ITEM	UNIT	TM 1500G	TM 1600	TM 1600G	TM 1800	TM 1800G	TM 2000	TM 2000G
Controller	-	FANUC 0i-MF MITSUBISHI M70A	FANUC 0i-MF MITSUBISHI M70A	FANUC 0i-MF MITSUBISHI M70A	FANUC 0i-MF MITSUBISHI M70A	FANUC 0i-MF MITSUBISHI M70A	FANUC 0i-MF MITSUBISHI M70A	FANUC 0i-MF MITSUBISHI M70A
Spindle driven type	-	GEAR	BELT	GEAR	BELT	GEAR	BELT	GEAR
Spindle speed	rpm	6,000	8,000	6,000	8,000	6,000	8,000	6,000
Spindle taper	-	BT-50	BT-40	BT-50	BT-40	BT-50	BT-40	BT-50
Spindle drive motor	kw	15/18.5	15/22	15/22	15/22	15/22	15/22	15/22
Spindle to worktable	mm [inch]	150-830 [5.91-32.68]	150-900 [5.91-35.43]	150-900 [5.91-35.43]	150-900 [5.91-35.43]	150-900 [5.91-35.43]	150-900 [5.91-35.43]	150-900 [5.91-35.43]
X-axis travel	mm [inch]	1500 [59.06]	1600 [62.99]	1600 [62.99]	1800 [70.87]	1800 [70.87]	2000 [78.74]	2000 [78.74]
Y-axis travel	mm [inch]	720 [28.35]	850 [33.46]	850 [33.46]	850 [33.46]	850 [33.46]	850 [33.46]	850 [33.46]
Z-axis travel	mm [inch]	680 [26.77]	750 [29.53]	750 [29.53]	750 [29.53]	750 [29.53]	750 [29.53]	750 [29.53]
Cutting feed rate	m/min	10 [0.39]	10 [0.39]	10 [0.39]	10 [0.39]	10 [0.39]	10 [0.39]	10 [0.39]
Rapid feed rate	m/min	15x15x12	12x12x10	12x12x10	12x12x10	12x12x10	12x12x10	12x12x10
3-axis guide width (X/Y/Z)	mm [inch]	120/100/120 [4.72/3.94/4.72]	120/150/125 [4.72/5.91/4.92]	120/150/125 [4.72/5.91/4.92]	120/150/125 [4.72/5.91/4.92]	120/150/125 [4.72/5.91/4.92]	120/150/125 [4.72/5.91/4.92]	120/150/125 [4.72/5.91/4.92]
Screw diameter/thread	mm [inch]	X:Φ50/Y:Φ50/Z:Φ50 P:10	X:Φ50/Y:Φ50/Z:Φ50 P:10	X:Φ50/Y:Φ50/Z:Φ50 P:10	X:Φ50/Y:Φ50/Z:Φ50 P:10	X:Φ50/Y:Φ50/Z:Φ50 P:10	X:Ø50/Y:Ø50/Z:Ø50 P:10	X:Φ50/Y:Φ50/Z:Φ50 P:10
Surface (LxW)	mm [inch]	1550x700 [61.02x27.56]	1700x700 [66.93x27.56]	1700x700 [66.93x27.56]	1900x800 [74.80x31.50]	1900x800 [74.80x31.50]	2100x800 [82.68x31.50]	2100x800 [82.68x31.50]
T-slot (QTYxWxD)	mm [inch]	5x18x130 [0.20x0.71x5.12]	6x18x125 [0.24x0.71x4.92]	6x18x125 [0.24x0.71x4.92]	6x18x125 [0.24x0.71x4.92]	6x18x125 [0.24x0.71x4.92]	6x18x125 [0.24x0.71x4.92]	6x18x125 [0.24x0.71x4.92]
Maximum workpiece load	kg	1500	1800	1800	2200	2200	2400	2400
Tool changer	type	ARM	ARM	ARM	ARM	ARM	ARM	ARM
Tool magazine capacity	pcs	24T	24T	24T	24T	24T	24T	24T
Tool selection	-	TWO WAY	TWO WAY	TWO WAY	TWO WAY	TWO WAY	TWO WAY	TWO WAY
Maximum tool length	mm [inch]	400 [15.75]	300 [11.81]	400 [15.75]	300 [11.81]	400 [15.75]	300 [11.81]	400 [15.75]
Tool diameter	mm	Φ127 (Φ200 heavy tool)	Φ80 (Φ160 heavy tool)	Φ127 (Φ200 heavy tool)	Φ127 (Φ200 heavy tool)	Φ127 (Φ200 heavy tool)	Φ127 (Φ200 heavy tool)	Φ127 (Φ200 heavy tool)
Maximum tool load	kg	15	8	15	8	15	15	15
Pull stud	degree	45	45	45	45	45	45	45
Chip conveyor	-	SCREW	BELT + SCREW	BELT + SCREW	BELT + SCREW	BELT + SCREW	BELT + SCREW	BELT + SCREW
Electricity power	voltage	220V/380V	220V/380V	220V/380V	220V/380V	220V/380V	220V/380V	220V/380V
Floor space (LxWxH)	mm [inch]	3800x3030x2685 [149.61x119.29x105.71]	4450x3030x3200 [175.20x119.29x125.98]	4450x3030x3200 [175.20x119.29x125.98]	4550x3030x3200 [179.13x119.30x125.98]	4550x3030x3200 [179.13x119.30x125.98]	4550x3030x3200 [179.13x119.30x125.98]	4550x3030x3200 [179.13x119.30x125.98]
Net weight	kg	10600	13500	13700	14050	14250	14300	14500

Standard Accessories

ITEM	TM 1500G	TM 1600	TM 1600G	TM 1800	TM 1800G	TM 2000	TM 2000G
Water gun	v	v	v	v	v	v	v
Air gun	v	v	v	v	v	v	v
Tool kit	v	v	v	v	v	v	v
Leveling pads	v	v	v	v	v	v	v
Operation manual	v	v	v	v	v	v	v
FANUC controller 2-year warranty	v	v	v	v	v	v	v
KAIFENG machine parts 1-year warranty	v	v	v	v	v	v	v