

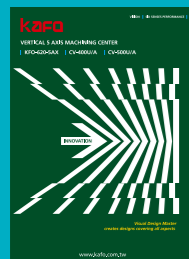
KAFO

VERTICAL MACHINING CENTER

| SV/VMM SERIES

| VMC/VMM SERIES

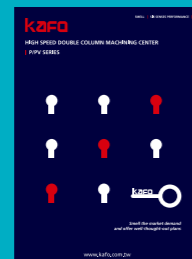
| CV/CVM DV/DVM SERIES



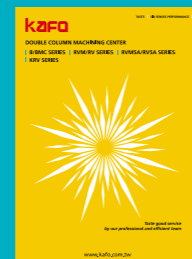
Vision



Hearing



Smell



Taste



Heart

The design idea of KAFO new catalogues is providing comprehensive six senses performance, including Vision, Hearing, Smell, Touch, Taste, and Heart.

Vision: Visual Design Master creates designs covering all aspects

We create innovative designs covering every aspect to develop perfect machines.

Hearing: Hear your needs from every corner of the world

We hear and comprehend customers' needs actively from every corner of the world, and we practice thoroughly to exceed customers' expectations.

Smell: Smell the market demand and offer well-thought-out plans

We have superior market insights and perfect strategic ability to be the strong support of customers.

Touch: Pursue excellent quality to achieve high performance

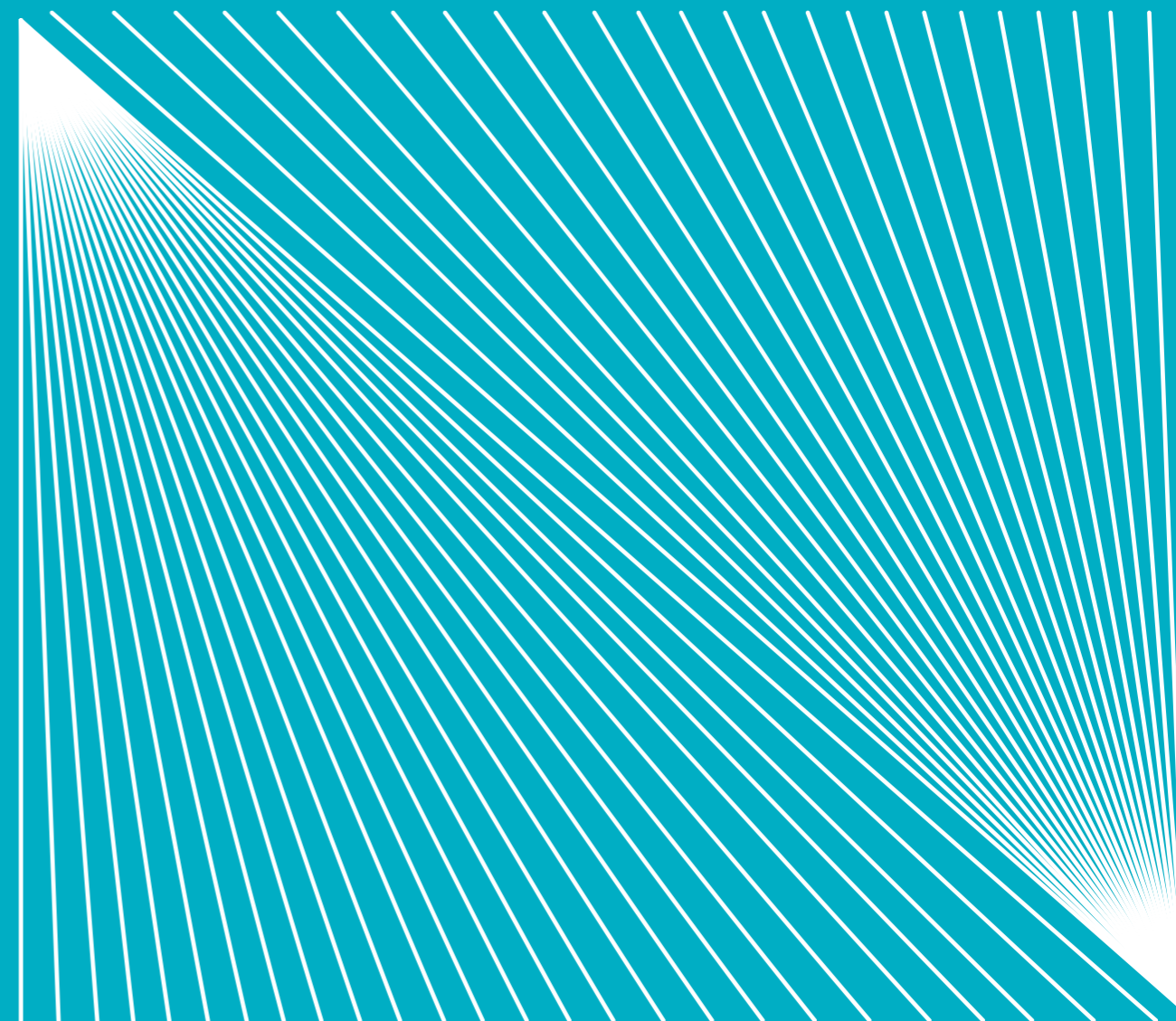
We focus on the enhancement of top core technologies and capabilities, and develop solidly to achieve excellent quality.

Taste: Taste good service by our professional and efficient team

We provide efficient, professional, and comprehensive services, and establish permanent and deep relationships with customers.

Heart: Feel our Heart that always sticks to perfection

We manage business with all our heart, and stick to perfection, to create maximum benefits for customers.



KAFO



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Version: April, 2021

***Pursue excellent quality
to achieve high performance***

www.kafo.com.tw



Over fifty years, KAFO has become the leading brand in Die & Molds field and Machining field based on its solid foundation of superior technology. "Steady Research & Development, Quality Control, Accumulate Experience" exceed customers' expectations and think globally, act locally.

We provide you comprehensive six senses performance, including Vision, Hearing, Smell, Touch, Taste, and Heart. As a visual design master, we create innovative designs covering all aspects. We understand and meet customers' needs from every corner of the world. Additionally, we smell the market demand and offer well-thought-out plans. Through strict quality control, we pursue excellent quality to achieve high and steady performance. Moreover, our professional team offer efficient 24/7 service which is worth experiencing. Operating with our Heart, we always stick to perfection. By means of accumulating experience, intensifying the know-how, focusing on the upgrading core competency of technology, and continuously improving the manufacturing process, KAFO realizes the commitment to customers for best quality products and also being rated as the benchmark of the industry.

David Shen

KAO FONG MACHINERY CO., LTD.
President & CEO
SHEN, KUO-JUNG (DAVID SHEN)



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Kao Fong Machinery Co. Ltd.



Vertical Machining Center Production Line



Horizontal & Double Column Machining Center Production Line

SPINDLE

POWERFUL / HIGH SPEED AND PRECISION



/ #40

- GEAR HEAD SPINDLE 6,000 rpm
- BELT HEAD SPINDLE 10,000 rpm
- DIRECT-DRIVEN SPINDLE 15,000 rpm



/ #50

- GEAR HEAD SPINDLE 6,000 rpm
- DIRECT-DRIVEN SPINDLE 10,000 rpm

TOOL MAGAZINE

FAST AND RELIABLE ATC UNIT

/ TOOL 24



/ TOOL 30



/ TOOL 32



/ TOOL 60



/ AUTO TOOL CHANGER

TOOL CHANGE TIME:
BT-40 2.0 SEC. / BT-50 2.8 SEC. (T to T)
/ TOOL CAPACITY
STANDARD: 24 / OPTION: 20, 30, 32, 40, 60

ASSEMBLY



• Spindle assembly and adjustment in clean room with constant temperature and humidity.



• Assembly KAFO gear box and head unit in clean room.



• Spindle, gear box, and spindle motor balance test.



• World class spindle bearings.



• Scraping-The difference from other brand, with the KAFO line of Machining Centers, every component surface is finished by hand-scraping for a proper fit, ensuring that the machine itself is geometrically correct and long lasting.

The hand-scraping process is labor intensive and must be performed by skilled craftsman who are trained in the technique. Machine components must be placed then removed up to 5 times to confirm that the machine base in both level and square.

CUTTING PERFORMANCE



/ FACE MILLING	/ DRILLING	/ TAPPING	/ TAPPING
Workpiece Material S45C(SAE 1045)	S45C(SAE 1045)	S45C(SAE 1045)	S45C(SAE 1045)
Tool Used Ø80mm face mill	Ø50mm insert drill	M42x4.5P tap	M2x0.4P tap
Spindle Speed 700rpm	1,500rpm	200rpm	2,400rpm
Cutting Speed 2,000mm / min	180mm/min	900mm/min	960mm/min
Depth/Width of Cut 4mm / 70mm	-	-	-
Metal Removal Rate 560cm ³ / min	353cm ³ / min	-	-

Spindle spec: #50 Gear Head 6000rpm, Motor Fanuc a15/8000i(15/18.5kW)

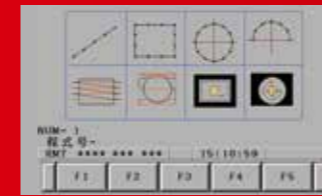
CUSTOMIZED CALCULATOR SOFTWARE FEATURES (OPTION)



MULTI-FUNCTION STATE DISPLAY

- Spindle/Axis Load
- Tools State Display
- Controller Running Timer
- Feed Rate State
- Spindle Speed State
- Coordinate State
- Work Pieces Counter
- Date/Time State
- Machining Time State
- Soft-Key Function

G-MENU



- The G-menu function, easy-processing module for customer.

CALCULATING FUNCTION



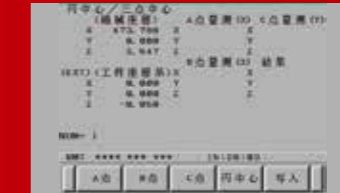
- Calculating function provided customers with fast calculation and completion of the workpiece coordinate corrections and setting.

CENTER OF RECTANGLE FUNCTION



- Measured rectangular workpiece four-point and calculate the rectangular center of the workpiece coordinates and tilt angle.

CENTER OF CIRCLE FUNCTION



- Provide customers with three points to find the center of the circle, user-friendly setting mold.

TOOL LENGTH MEASUREMENT AND SETTING



- Manually setting tool length and compensating numbers. After finishing the measurement, it could change to next tool.

TOOL LENGTH MEASUREMENT AND SETTING



- Manually setting tool length and compensating numbers. After finishing the measurement, it could change to next tool.

INTELLIGENT ATC SYSTEM MANAGEMENT



- Displaying of the tool number, tool pot number and preparation tool number can be pre-set the tool type in the form.

INTELLIGENT ATC SYSTEM MANAGEMENT



- Check and set of user-friendly tool storage, and display the program number, feed rate and spindle speed, allowing users to catch processing states.

RIGOROUS TESTS AND INSPECTION, GUARANTEED QUALITY CONTROL UPON KEY COMPONENTS



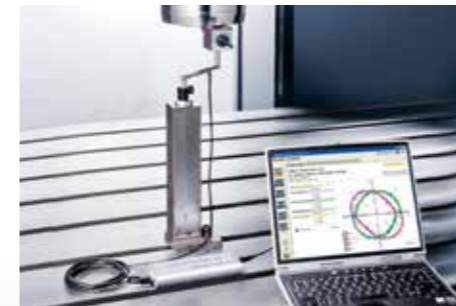
/ 3D PROBE SYSTEM QUALITY ASSURANCE (CMM)



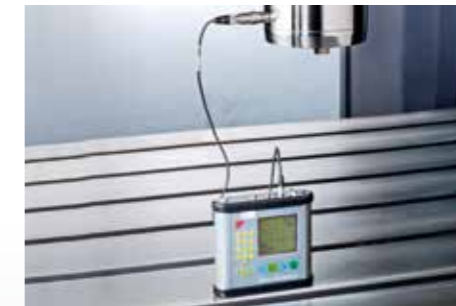
/ LASER INSPECTION



/ 3D CIRCULAR BALL MILLING



/ BALL BAR INSPECTION

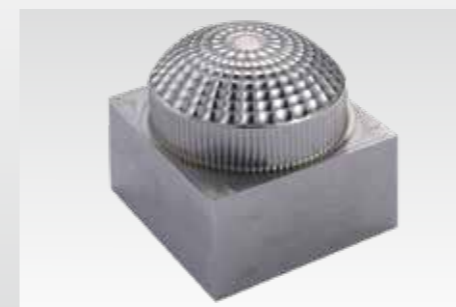
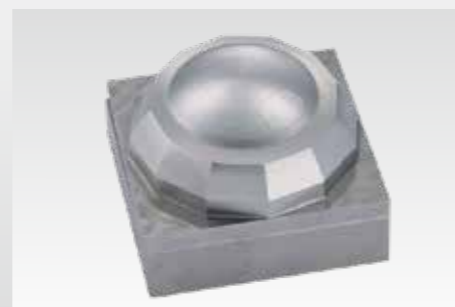


/ VIBRATION TEST



/ RIGIDITY TEST

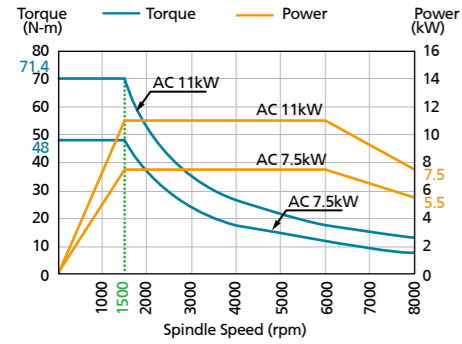
MACHINING PRODUCTS



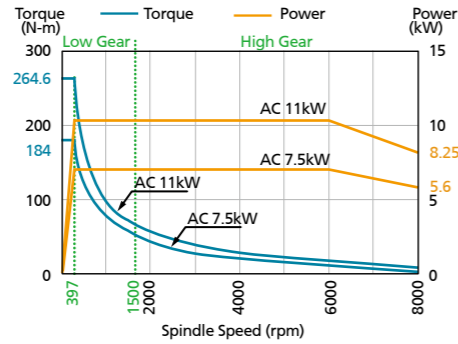
VERTICAL MACHINING CENTER

SPINDLE POWER-TORQUE DIAGRAM

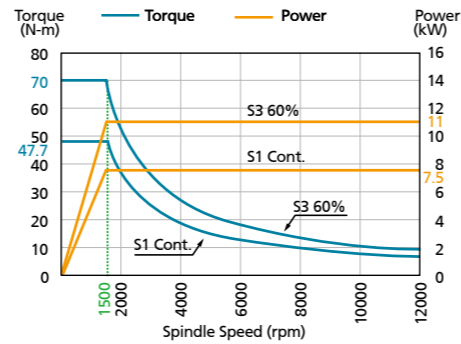
/ FANUC a8/8000i
(BELT HEAD)



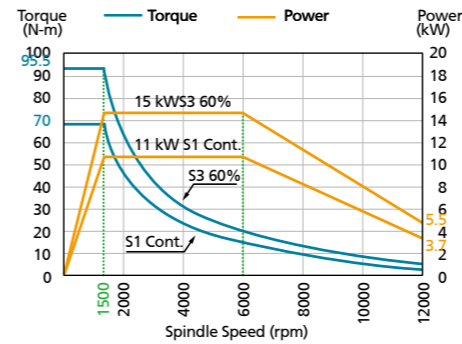
/ FANUC a8/8000i
(GEAR HEAD, #40)



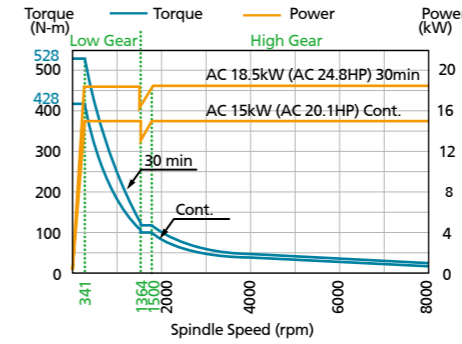
/ FANUC a8/12000i
(DIRECT-DRIVEN)



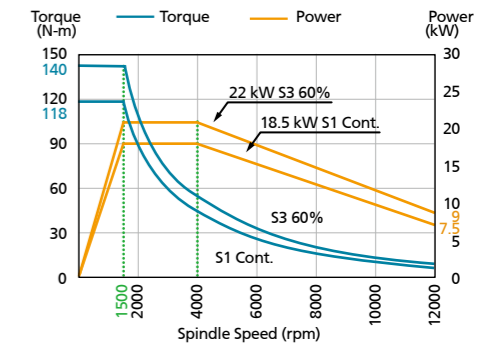
/ FANUC a12/12000i
(DIRECT-DRIVEN)



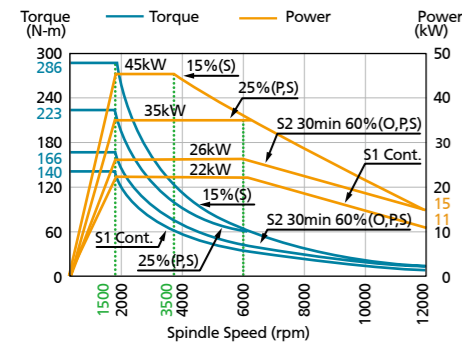
/ FANUC a15/8000i
(GEAR HEAD, #50)



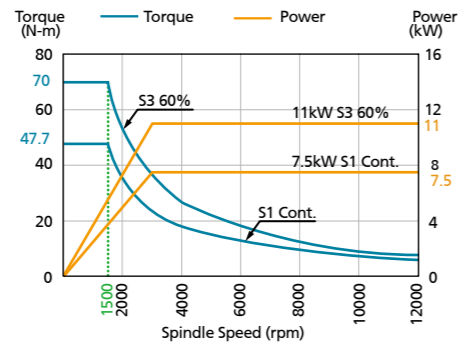
/ FANUC a18/12000i
(DIRECT-DRIVEN)



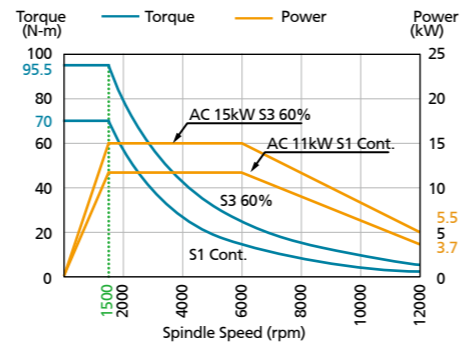
/ FANUC a22/12000i
(DIRECT-DRIVEN)



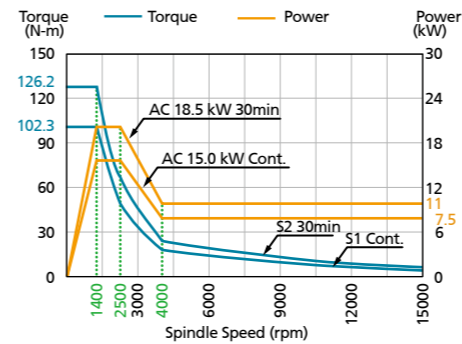
/ FANUC aT8/12000i
(DIRECT-DRIVEN)



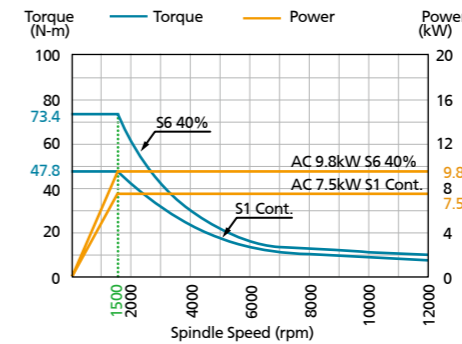
/ FANUC aT12/12000i
(DIRECT-DRIVEN)



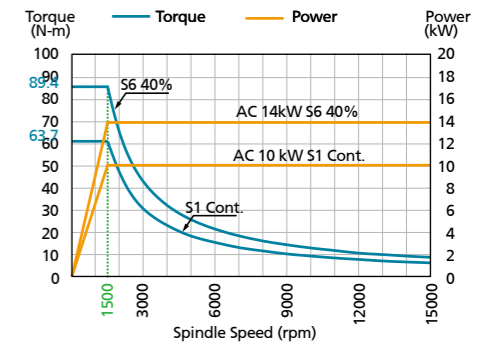
/ FANUC aT15/15000i
(DIRECT-DRIVEN)



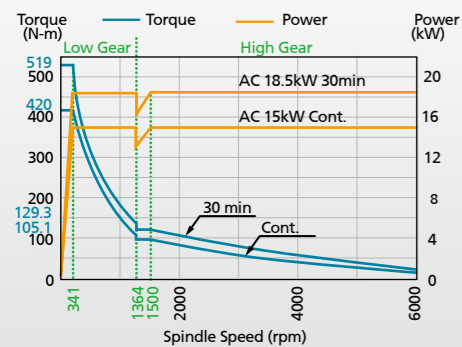
/ HEIDENHAIN
QAN200L 12000rpm
(DIRECT-DRIVEN)



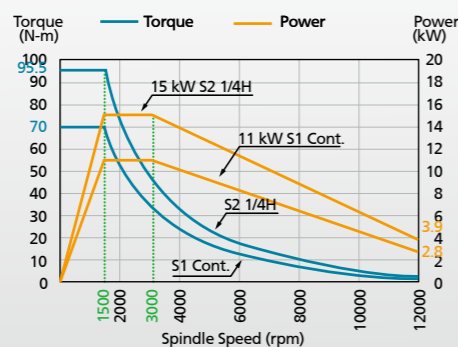
/ HEIDENHAIN
QAN200UH 15000rpm
(DIRECT-DRIVEN)



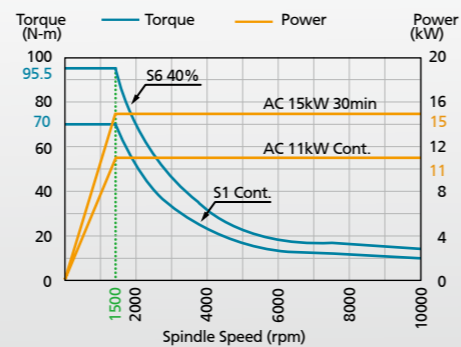
/ MITSUBISHI
SJ-D18.5/80-01-C 6000rpm
(GEAR HEAD)



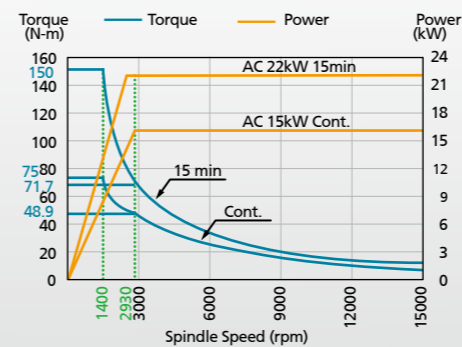
/ MITSUBISHI
SJ-DG11/120-14T 12000rpm
(RSD00154)



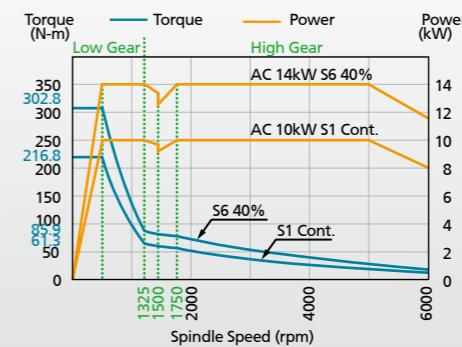
/ MITSUBISHI
SJ-V22-06ZT 10000rpm
(DIRECT-DRIVEN)



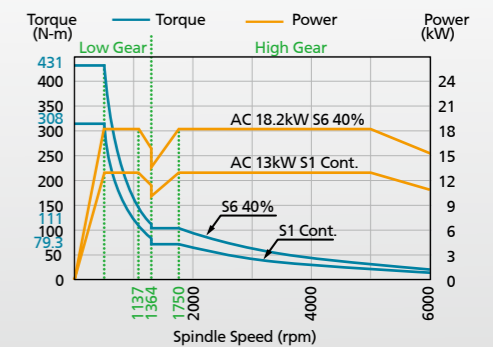
/ MITSUBISHI
SJ-VKS30-16FZT-S05 15000rpm
(DIRECT-DRIVEN)



/ SIEMENS
1PH8107 6000rpm
(GEAR HEAD, #40)



/ SIEMENS
1PH8131 6000rpm
(GEAR HEAD, #50)



SV/SVM CV/CVM DV/DVM SERIES

VERTICAL MACHINING CENTER

CV/DV SERIES FEATURES

- CV/DV series was designed for the high-efficiency processing demand industrial of models from KAO FONG machinery, most suitable for mass components production of Vehicle parts, 3C and IT industry processing, also applicable to all kinds of precision molds production and processing.



/ ROLLER-TYPE LINEAR GUIDEWAY



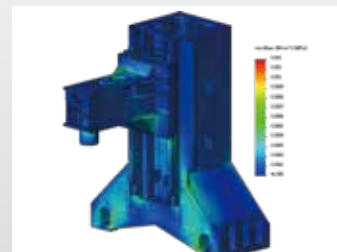
/ BALLSCREW COOLANT SYSTEM



/ DIRECT DRIVEN WITH AXES SERVER MOTOR



/ Z-AXIS WITHOUT COUNTER WEIGHT BLOCKS



/ STRESS ANALYZE OF CASTING

/ CV-7A



/ CV-9A



FEATUERS

- CV-9A is a C-type machining center with #40 taper and Auto Pallet Changer system (APC) as standard.
- It is high precision and high efficiency for machining parts, mainly used for mass production of Automotive Industry, Electronics Industry and Aerospace Industry.

/ SV-1000



/ CV-14



CV-14/CV-16 FEATUERS

- Y axis with 1400mm distance between guideways.
- 3 axes adopt 45mm type precise roller linear guides, provides superior rigidity, heavy-loading capacity, low friction and excellent performance.
- The machine bed, column, spindle head, cross slides and table are all analyzed and optimized by FEM tests. This design assures high stability and cutting rigid performance, and choosing of center cooling system through ballscrews can reduce the thermal compensation and enhance the accuracy.

/ CV-12A



/ CV-16



OPTION: #50

- CV-14AH
- CV-16AH

CV/CVM DV/DVM SERIES VERTICAL MACHINING CENTER

/ DV-9A



/ DV-11A



/ DVM-12CH



CV/DV-168 FEATUERS



• CV-168



• DV-168



• CV/DV-168

• Linear guide way of X-axis is 45mm, Y-axis/Z-axis are 55mm, or Z-axis with box way. This type can adopt the #50 Direct-Driven or Built-in type 10,000rpm spindle.

• Y-axis with 4 large spans linear guide way design, and all of them are 55mm roller linear guides. The travel enlarge to 850mm, which can satisfy the processing demand of mold & die industry and also provide the excellent cutting performance.

/ DV-1370



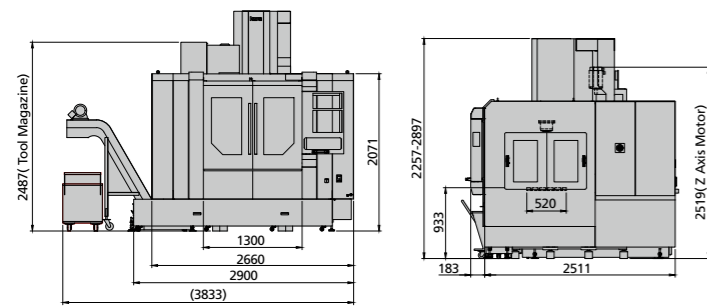
/ DVM-168



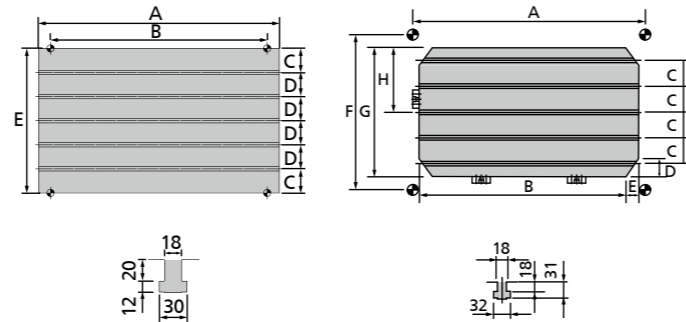
SV/SVM CV/CVM DV/DVM SERIES VERTICAL MACHINING CENTER

TABLE SIZE AND MACHINE LAYOUT

/ SV-1000



/ SV CV/DV

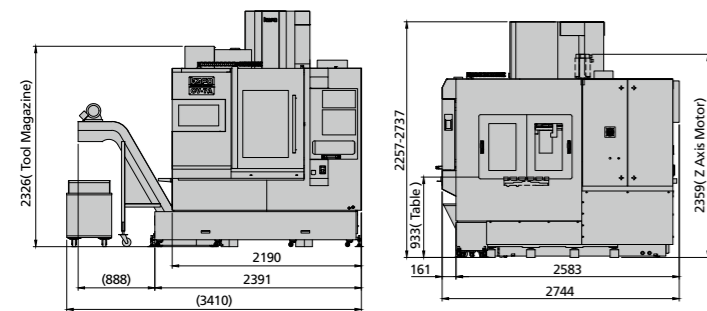


unit : mm

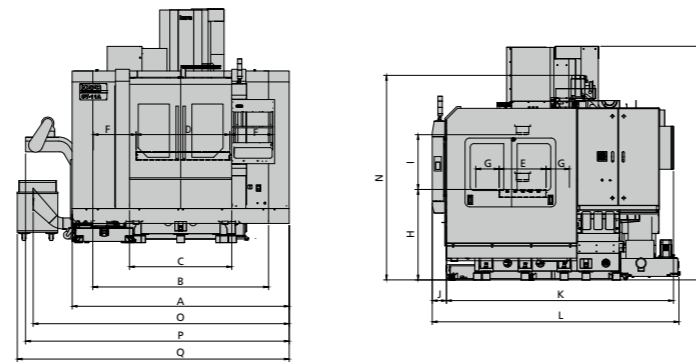
TABLE SIZE					
	A	B	C	D	E
SV-1000	1150	1020	60		520
CV-7	860	760			
CV/DV-9	1000	900		100	
CV/DV-11	1200	1100	100		600
CV/DV-12	1350	1270	125		650
CV-14	1550	1400			700
CV-16	1750	1600	50	150	
CV/DV-168	1700				850

TABLE SIZE								
	A	B	C	D	E	F	G	H
CV-9 APC	900	850	100	70	50	600	500	250

/ CV-7



/ CV/DV-9/11

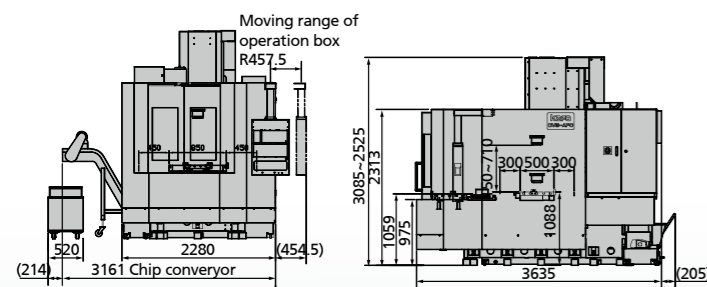


/ CV/DV-9/11

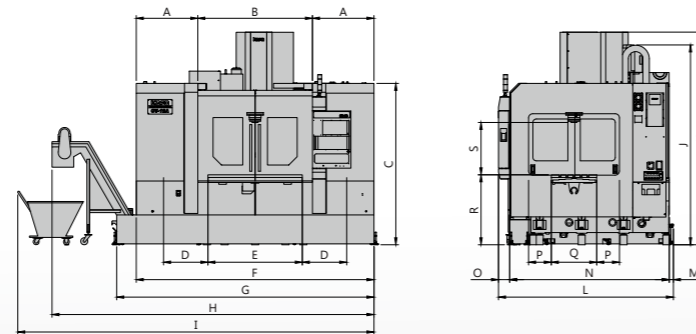
MACHINE LAYOUT																	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
CV-9A/B																	
DV-9A/B	-	2280	1150	1000		450								2615	2904	3668	3731
DV-9C					600		300	980	100-700	182	2745	3121	2390-2990				
CV-11A/B																	
DV-11A/B	2780	2250	1310	1200		550								2615	3165	3906	3961
DV-11C/CH																	

unit : mm

/ CV-9 APC



/ CV/DV-12

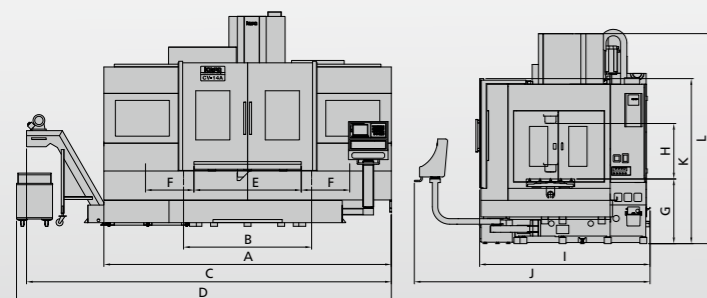


/ CV/DV-12

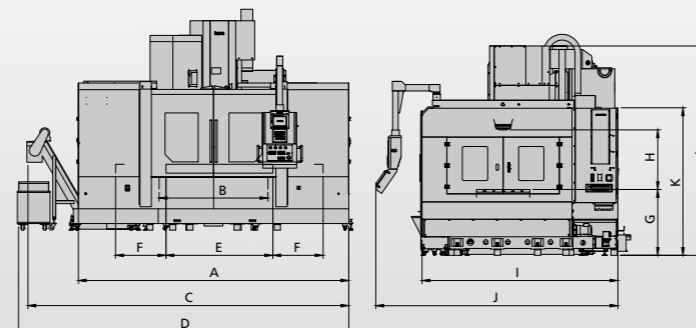
MACHINE LAYOUT																			
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
CV-12A/B											2400-3050								
CV-12AH											2445-3095								
DV-12A/B	880	1640	2315	635	1350	3400	3680	4605	5095	2865	2400-3050	2502	60	2282	160	325	650	988	750
DV-12C											2200-2850								
DV-12AH											2445-3095								
DV-12CH											2200-2850								

unit : mm

/ CV-14/16



/ CV/DV-168



/ CV-14/16, CV/DV-168

MACHINE LAYOUT												
	A	B	C	D	E	F	G	H	I	J	K	L
CV-14A/B	3686	1652	4820	4930	1550	700						2584-3030
CV-14AH							933	100-800	2460	3405	2380	2833-3072
CV-16A/B	4152	1850	5270	5380	1750							2584-3030
CV-16AH						800						2833-3072
CV/DV-168	4300	1730	5105	5225	1700		1047	950	3115	3850	2340	2530-3330

unit : mm

SV/SVM CV/CVM SERIES VERTICAL MACHINING CENTER

SPECIFICATION

Max. Tool Diameter (without adjacent tool) #40 (Cam Type) = Ø125

CV (CVM)-12AH is with #50 spindle taper

MODEL		SV-1000 SVM-1000	CV-7A CVM-7A	CV-7B CVM-7B	CV-9A CVM-9A	CV-9B CVM-9B	CV-11A CVM-11A	CV-11B CVM-11B	CV-12A(*CV-12AH) CVM-12A(*CVM-12AH)	CV-12B CVM-12B	
Travel											
X-axis	mm	1020	760		900		1100		1270		
Y-axis	mm	520				600				650	
Z-axis	mm	640	480	480			600		650		
Guide Way(X/Y/Z)	type	35mm Ball-Type Linear Guide Way(Roller-Type)					45mm Roller-Type Linear Guide Way				
Distance From Spindle Nose To Table Surface	mm	100~740		100~580				100~700		100~750	
Distance From Spindle Center To The Track Surface Of Z-axis	mm	580(550)				669(610)				740(675)	
Table											
Table Dimension	mm	1150x520		860x520		1000x600		1200x600		1350x650	
Max. Loading Capacity	kg	600		300		650		800		1000	
T-Slots(number x width x pitch)	no x mm	5x18mmx100mm					5x18mmx100mm				
Spindle											
Spindle Speed(ST)	rpm	Belt Head 8000		Direct-Driven 10000	Belt Head 8000	Direct-Driven 10000	Belt Head 8000	Direct-Driven 10000	Belt Head 8000	Direct-Driven 10000	
Spindle Speed(OP)	rpm	Belt Head 10000 / Direct-Driven 10000/12000/15000		12000/15000	10000	12000/15000	10000	12000/15000	10000	12000/15000(*N/A)	
Spindle Taper	type	#40				#40		#40		#40(*#50)	
Spindle Bearing Bore Diameter	mm	Ø70				Ø70		Ø70		Ø70(*Ø90)	
Feed											
Rapid Travel Rate(X/Y/Z)	m/min	36/36/36(*48/48/48)		48/48/48	36/36/36	48/48/48	36/36/36	48/48/48	36/36/36	48/48/48(*ST: 48/48/24, OP: 36/36/24)	
Cutting Rate	m/min	10				10				10	
Manual JOG Feed Rate	m/min	4(20 steps)				4(20 steps)				4(20 steps)	
ATC											
Tool Shank Type	type	MAS BT-40 (*CAT-40/*DIN-40)				MAS BT-40 (*CAT-40/*DIN-40)		MAS BT-40(*CAT-40/*DIN-40) MAS BT-50(*CAT-50/*DIN-50)		MAS BT-40 (*CAT-40/*DIN-40)	
Pull Stud	type	MAS BT-40/P40-T-1 (*CAT-40/*DIN-40)				MAS BT-40/P40-T-1 (*CAT-40/*DIN-40)		MAS BT-40/P40-T-1(*CAT-40/*DIN-40) MAS BT-50/P50-T-1(*CAT-50/*DIN-50)		MAS BT-40/P40-T-1 (*CAT-40/*DIN-40)	
Auto Tool Change System		SVM Series do not support ATC		CVM Series do not support ATC				CVM Series do not support ATC			
Magazine Capacity(ST)	tools	24(Cam Type)						24(Cam Type)			
Magazine Capacity(OP)	tools	30(Cam Type)		N/A		30/32/40(Cam Type)		30/32/40(Cam Type)(*30 Cam Type)		30/32/40(Cam Type)	
Max. Tool Diameter(with adjacent tool)	mm	Ø75				Ø75		Ø75(*Ø108)		Ø75	
Max. Tool Diameter(without adjacent tool)	mm	Ø150				Ø150(*Ø125)		Ø150(*Ø216)		Ø150	
Max. Tool Length	mm	300						300			
Max. Tool Weight	kg	7				7		7(*15)		7	
Tool Change Time(tool to tool)	sec	2				2		2(*2.8)		2	
Tool Change Time(time to time)	sec	4.4				4.5		4.5(*6)		4.5	
Motor (FANUC)											
Spindle Motor(cont./30min) (ST)	kW	7.5/11				7.5/11		7.5/11 (*15/18.5)		7.5/11	
Spindle Motor(cont./30min) (OP)	kW	11/15, 15/18.5				11/15, 15/18.5		11/15, 15/18.5 (*22/26)			
Feed Motor(X/Y/Z)	kW	3/3/4						3/4/7			
Coolant Motor	kW	0.75						0.75			
Power Supply											
Power Supply	kVA	20						20			
Compressed Air Supply	MPa, l/min	0.6, 500						0.6, 500			
Coolant Tank Capacity	L	365		350		420		520			
Controller		FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN					FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN				
External Dimension											
Width	mm	3833		3410		3731		3961		5095	
Length	mm	3002		2744				3121		2505	
Height	mm	2897		2737				2990			
Net Weight	kg	5500		5100/4800		6750/6400		6950/6600		8450/8100(*8700/8350)	
Accuracy (following values were tested in the temperature-controlled room)											
ISO 10791 Accuracy	Positioning	mm	0.012		0.010				0.012		
	Repeatability	mm	0.009		0.008		0.009		0.010		
JIS 6338 Accuracy	Positioning (within 300mm)	mm	±0.004						±0.004		
	Repeatability (within 300mm)	mm	±0.002						±0.002		
Packing For Export		40' HQ						40' HQ			

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3. The temperature of machine installing environment must be 5~40 degrees, the surrounding temperature difference should be within 4 degrees, 0.67 degrees per hour, under 4 degrees within 6 hours.

4. As for more details, please refer to operating manual or contact with KAFO sales.

CV/CVM SERIES VERTICAL MACHINING CENTER

SPECIFICATION

Max. Tool Diameter (without adjacent tool) #40 (Cam Type) = Ø125 | CV (CVM)-14/16AH is with #50 spindle taper

MODEL		CV-14A(*CV-14AH) CVM-14A(*CVM-14AH)	CV-14B CVM-14B	CV-16A(*CV-16AH) CVM-16A(*CVM-16AH)	CV-16B CVM-16B	CV-168 CVM-168	CV-9A APC	CV-9B APC
Travel								
X-axis	mm	1400		1600		1600		900
Y-axis	mm	700		700		850		600
Z-axis	mm	700		700		800		600
Guide Way(X/Y/Z)	type	45mm Roller-Type Linear Guide Way		45mm Roller-Type Linear Guide Way		X: 45mm, Y/Z: 55mm Roller-Type Linear Guide Way		45mm Roller-Type Linear Guide Way
Distance From Spindle Nose To Table Surface	mm	100~800		100~800		150~950		110~710
Distance From Spindle Center To The Track Surface Of Z-axis	mm	809(740)		809(740)		940(875.5)		669(610)
Table								
Table Dimension	mm	1550x700		1750x700		1750x850		850x500(*2)
Max. Loading Capacity	kg	1000		1000		1500		300(*2)
T-Slots(number x width x pitch)	no x mm	5x18mmx150mm		5x18mmx150mm		5x18mmx150mm		5x18mmx100mm
Spindle								
Spindle Speed(ST)	rpm	Direct-Driven 10000		Belt Head 8000		Direct-Driven 10000		Belt Head 8000
Spindle Speed(OP)	rpm	12000/15000(*N/A)		10000		12000/15000(*N/A)		10000
Spindle Taper	type	#40(*#50)		#40		#40		#50
Spindle Bearing Bore Diameter	mm	Ø70(*Ø90)		Ø70		Ø70		Ø90
Feed								
Rapid Travel Rate(X/Y/Z)	m/min	40/40/36 (*ST: 40/40/24, OP: 36/36/24)		36/36/30		40/40/36 (*ST: 40/40/24, OP: 36/36/24)		36/36/30
Cutting Rate	m/min	10		10		10		10
Manual JOG Feed Rate	m/min	4(20 steps)		4(20 steps)		4(20 steps)		4(20 steps)
ATC								
Tool Shank Type	type	MAS BT-40(*CAT-40/*DIN-40) MAS BT-50(*CAT-50/*DIN-50)		MAS BT-40(*CAT-40/*DIN-40) MAS BT-50(*CAT-50/*DIN-50)		MAS BT-40(*CAT-40/*DIN-40) MAS BT-50(*CAT-50/*DIN-50)		MAS BT-50(*CAT-50/*DIN-50)
Pull Stud	type	MAS BT-40/P40-T-1(*CAT-40/*DIN-40) MAS BT-50/P50-T-1(*CAT-50/*DIN-50)		MAS BT-40/P40-T-1(*CAT-40/*DIN-40) MAS BT-50/P50-T-1(*CAT-50/*DIN-50)		MAS BT-40/P40-T-1(*CAT-40/*DIN-40) MAS BT-50/P50-T-1(*CAT-50/*DIN-50)		MAS BT-50/P50-T-1(*CAT-50/*DIN-50)
Auto Tool Change System		CVM Series do not support ATC			CVM Series do not support ATC			
Magazine Capacity(ST)	tools	24(Cam Type)		24(Cam Type)		24(Cam Type)		24(Cam Type)
Magazine Capacity(OP)	tools	30/32/40(Cam Type)(*30 Cam Type)		30/32/40(Cam Type)		30/32/40(Cam Type)(*30 Cam Type)		30/32/40(Cam Type)
Max. Tool Diameter(with adjacent tool)	mm	Ø75(*Ø108)		Ø75		Ø75(*Ø108)		Ø75
Max. Tool Diameter(without adjacent tool)	mm	Ø150(*Ø216)		Ø150(*Ø125)		Ø150(*Ø216)		Ø150(*Ø125)
Max. Tool Length	mm	300		300		300		300
Max. Tool Weight	kg	7(*15)		7		7(*15)		7
Tool Change Time(tool to tool)	sec	2(*2.8)		2		2(*2.8)		2
Tool Change Time(time to time)	sec	5(*6)		5		5(*6)		5
Motor (FANUC)								
Spindle Motor(cont./30min)(ST)	kW	7.5/11(*15/18.5)		7.5/11		7.5/11(*15/18.5)		7.5/11
Spindle Motor(cont./30min)(OP)	kW	11/15, 15/18.5(*22/26)		11/15, 15/18.5		11/15, 15/18.5(*22/26)		11/15, 15/18.5
Feed Motor(X/Y/Z)	kW	4/4/7		4/4/7		4/4/7		4/4/7
Coolant Motor	kW	0.75		0.75		0.75		0.75
Power Supply								
Power Supply	kVA	35		35		35		20
Compressed Air Supply	MPa, l/min	0.6, 500		0.6, 500		0.6, 500		0.6, 500
Coolant Tank Capacity	L	496.5		496.5		496.5		420
Controller		FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN			FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN			
External Dimension								
Width	mm	4930		5380		5380		5255
Length	mm	3405		3405		3405		3850
Height	mm	3030(*3072)		3030		3030(*3072)		3840
Net Weight	kg	9540/9190(*9740/9040)		9540/9190		10540/10190(*10740/10040)		3085
Accuracy (following values were tested in the temperature-controlled room)								
ISO 10791 Accuracy	Positioning	mm	0.012		0.014		0.014	
	Repeatability	mm	0.010		0.012		0.012	
JIS 6338 Accuracy	Positioning (within 300mm)	mm	±0.004		±0.004		±0.004	
	Repeatability (within 300mm)	mm	±0.002		±0.002		±0.002	
Packing For Export		40' HQ		40' HQ		20' FR		40' HQ

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4. As for more details, please refer to operating manual or contact with KAFO sales.

DV/DVM SERIES VERTICAL MACHINING CENTER

SPECIFICATION

Max. Tool Diameter (without adjacent tool) #40 (Cam Type) = Ø125

DV (DVM)-11CH/ DV(DVM)-12AH/CH is with #50 spindle taper

MODEL	DV-9A DVM-9A	DV-9B DVM-9B	DV-9C DVM-9C	DV-11A DVM-11A	DV-11B DVM-11B	DV-11C(*DV-11CH) DVM-11C(*DVM-11CH)	DV-12A(*DV-12AH) DVM-12A(*DVM-12AH)	DV-12B DVM-12B	DV-12C(*DV-12CH) DVM-12C(*DVM-12CH)	DV-1370 DVM-1370	DV-168 DVM-168				
Travel															
X-axis	mm	900		1100		1100	1270		1400	1600					
Y-axis	mm			600		600	650		700	850					
Z-axis	mm			600		600	650		700	800					
Guide Way(X/Y/Z)	type	X/Y: 45mm Roller-Type Linear Guide Way, Z: Box Way					X/Y: 45mm Roller-Type Linear Guide Way, Z: Box Way			X: 45mm Roller-Type, Y: 55mm Roller-Type, Z: Box Way					
Distance From Spindle Nose To Table Surface	mm			100~700		100~700	100~750		200~900	150~950					
Distance From Spindle Center To The Track Surface Of Z-axis	mm			650(620)		650(620)	725(695)		750(705)	905(875.5)					
Table															
Table Dimension	mm	1000x600		1200x600		1200x600	1350x650		1550x700	1700x850					
Max. Loading Capacity	kg	650		800		800	1000		1500						
T-Slots(number x width x pitch)	no x mm	5x18mmx100mm					5x18mmx100mm			5x18mmx150mm					
Spindle															
Spindle Speed(ST)	rpm	Direct-Driven 10000	Belt Head 8000	Gear Head 6000	Direct-Driven 10000	Belt Head 8000	Gear Head 6000	Direct-Driven 10000	Belt Head 8000	Gear Head 6000					
Spindle Speed(OP)	rpm	12000/15000	10000	7000/8000	12000/15000	10000	7000(8000#40)	12000/15000(*N/A)	10000	7000(8000#40)	Gear Head 7000/8000, Direct-Driven10000	Gear Head 7000 Direct-Driven/Built-in 10000			
Spindle Taper	type	#40					#40(*#50)		#40	#40(*#50)		#50			
Spindle Bearing Bore Diameter	mm	Ø70		Ø75	Ø70		Ø75(*Ø85)	Ø75(*Ø90)		Ø70	Ø75(*Ø85)				
Feed															
Rapid Travel Rate(X/Y/Z)	m/min	48/48/24	36/36/24		48/48/24	36/36/24	36/36/24	48/48/24(*ST: 48/48/24, OP: 36/36/24)		36/36/24		30/30/20	30/30/15		
Cutting Rate	m/min	10					10								
Manual JOG Feed Rate	m/min	4(20 steps)					4(20 steps)								
ATC															
Tool Shank Type	type	MAS BT-40(*CAT-40/*DIN-40)					MAS BT-40(*CAT-40/*DIN-40) MAS BT-50(*CAT-50/*DIN-50)		MAS BT-40(*CAT-40/*DIN-40)	MAS BT-40(*CAT-40/*DIN-40) MAS BT-50(*CAT-50/*DIN-50)		MAS BT-50(*CAT-50/*DIN-50)			
Pull Stud	type	MAS BT-40/P40-T-1(*CAT-40/*DIN-40)					MAS BT-40/P40-T-1(*CAT-40/*DIN-40) MAS BT-50/P50-T-1(*CAT-50/*DIN-50)		MAS BT-40/P40-T-1(*CAT-40/*DIN-40)	MAS BT-40/P40-T-1(*CAT-40/*DIN-40) MAS BT-50/P50-T-1(*CAT-50/*DIN-50)		MAS BT-50/P50-T-1(*CAT-50/*DIN-50)	MAS BT-40/P40-T-1(*CAT-50/*DIN-50)		
Auto Tool Change System		DVM Series do not support ATC					DVM Series do not support ATC								
Magazine Capacity(ST)	tools	24 (Cam Type)					24(Cam Type)								
Magazine Capacity(OP)	tools	30/32/40(Cam Type)					30/32/40(Cam Type)(*N/A)		30/32/40(Cam Type)(*30 Cam Type)		30/40(Cam Type)				
Max. Tool Diameter(with adjacent tool)	mm	Ø75					Ø75(*Ø108)		Ø75	Ø75(*Ø108)		Ø108(*Ø125)			
Max. Tool Diameter(without adjacent tool)	mm	Ø150(*Ø125)					Ø150(*Ø216)		Ø150	Ø150(*Ø216)		Ø216(*Ø250)			
Max. Tool Length	mm	300					300								
Max. Tool Weight	kg	7					7 (*15)		7	7 (*15)		15			
Tool Change Time(tool to tool)	sec	2					2(2.8)		2	2(2.8)		2.8			
Tool Change Time(time to time)	sec	4.5					4.5 (*6)		4.5	4.5 (*6)		6			
Motor (FANUC)															
Spindle Motor(cont./30min)(ST)	kW	7.5/11					7.5/11(*15/18.5)					15/18.5			
Spindle Motor(cont./30min)(OP)	kW	11/15	11/15	15/18.5	11/15	11/15,15/18.5 (*22/26)		11/15,15/18.5	11/15,15/18.5(*22/26)		22/26				
Feed Motor(X/Y/Z)	kW	3/4/3					3/4/3		3/4/7		4/4/7				
Coolant Motor	kW	0.75					0.75								
Power Supply															
Power Supply	kVA	20					20					35			
Compressed Air Supply	MPa, l/min	0.6, 500					0.6, 500								
Coolant Tank Capacity	L	420					420		520		620	700			
Controller		FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN					FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN								
External Dimension															
Width	mm	3731		3961		3961	5090		4926	5255					
Length	mm	3121					2505								
Height	mm	2990					2990		3050 (*3095)		3050	2850	3334	3330	
Net Weight	kg	7750/7400		7850/7500		7950/7600		8050/7700(*8350/7650)	8600/8250(*8850/8500)		8600/8250	8600/8250(*8850/8500)		12000	16000/15200
Accuracy (following values were tested in the temperature-controlled room)															
ISO 10791 Accuracy	Positioning	mm					0.012					0.014			
	Repeatability	mm					0.009					0.010		0.012	
JIS 6338 Accuracy	Positioning(within 300mm)	mm					±0.004					±0.004			
	Repeatability(within 300mm)	mm					±0.002					±0.002			
Packing For Export		40' HQ					40' HQ					20' FR			

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VMC/VMM SERIES

VERTICAL MACHINING CENTER

SUPERIOR STRUCTURE DESIGN

- Ultra-wide A-shaped Column Design
- Full support Base Design
- Ultra-wide Y-axis Design
- Best Supporting BESSEL Point Design
- One-Piece Coolant Collect Frame Design
- 3 axis Direct Coupled Servo Motors
- 3 axis Pretensioned Ball Screws
- Large Size Heavy Duty Working Table
- Robust Cast Iron Headstock
- Built-in Screw Type Chip Conveyor

/ VMM-116A



/ VMC-1688



/ VMC-126



/ VMC-21100+



/ VMM-1370



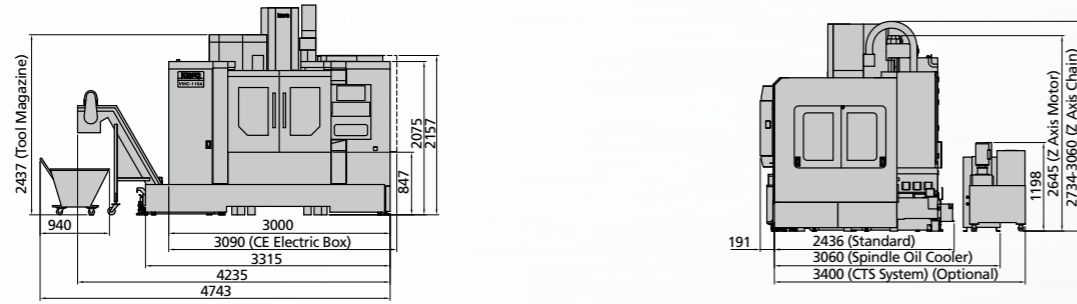
/ VMC-3100



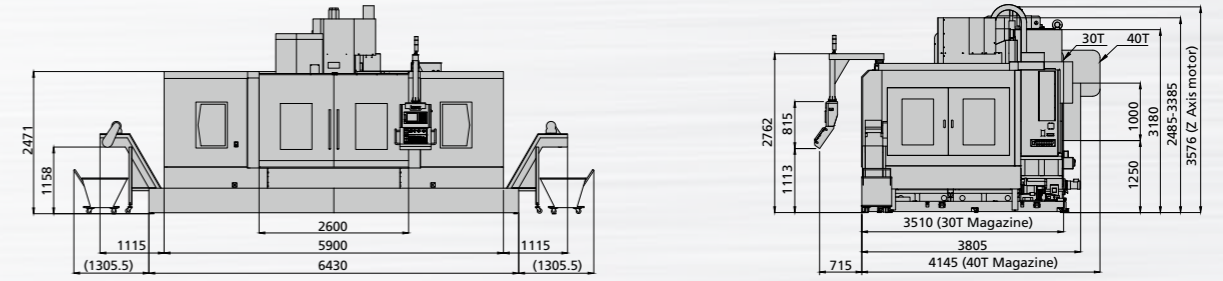
VMC/VMM SERIES VERTICAL MACHINING CENTER

TABLE SIZE AND MACHINE LAYOUT

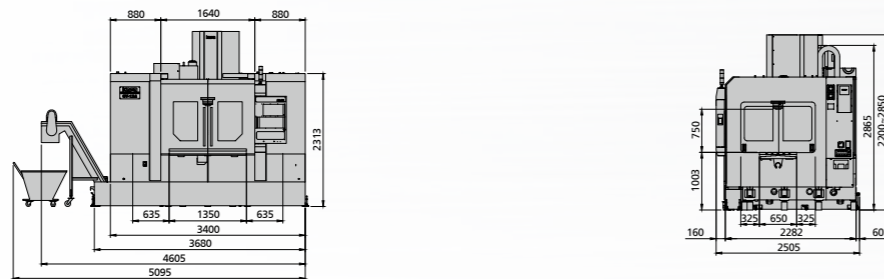
/ VMC-116A/B



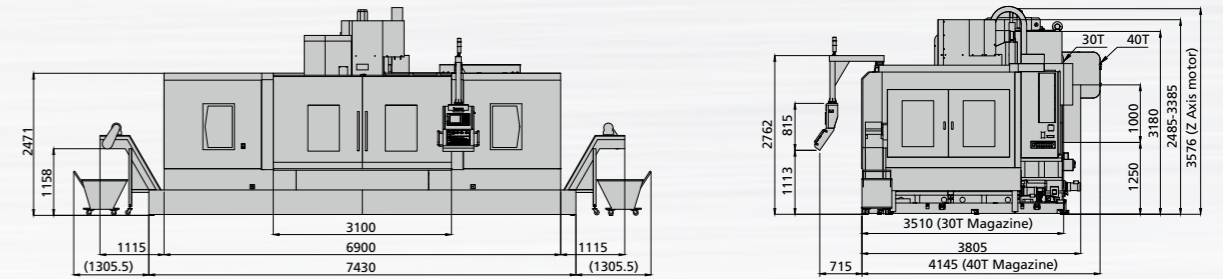
/ VMC-2100



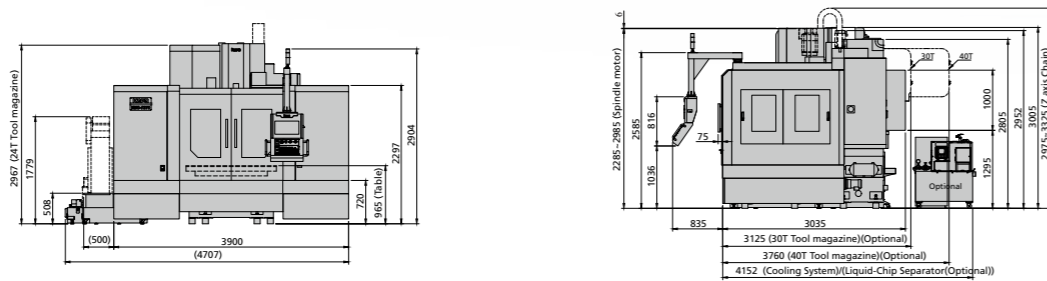
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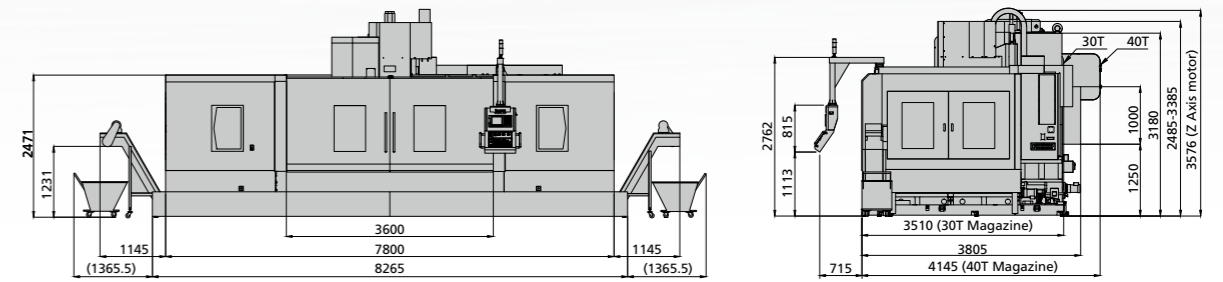
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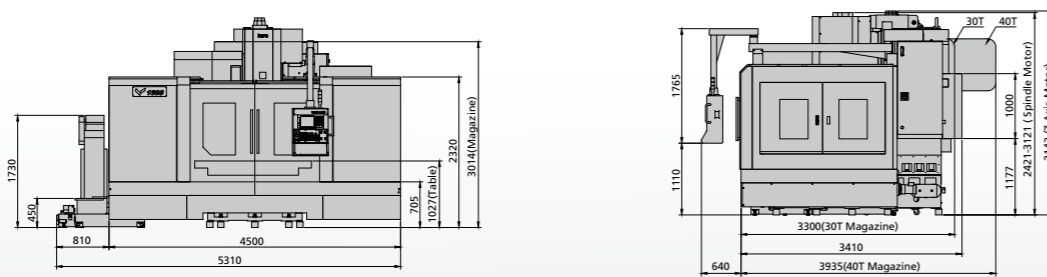
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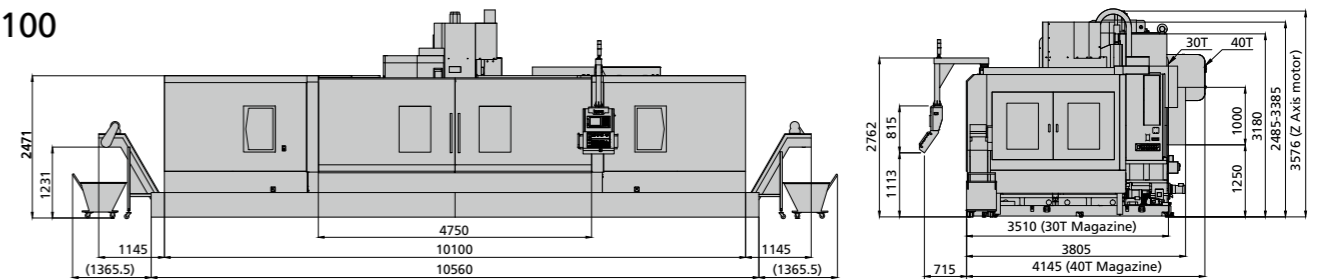
/ VMC-3100



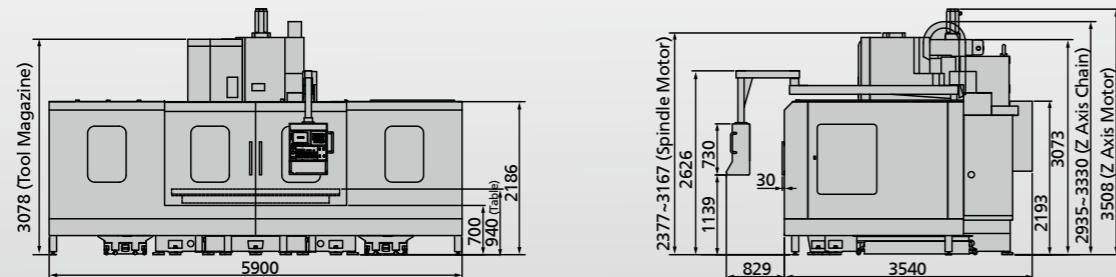
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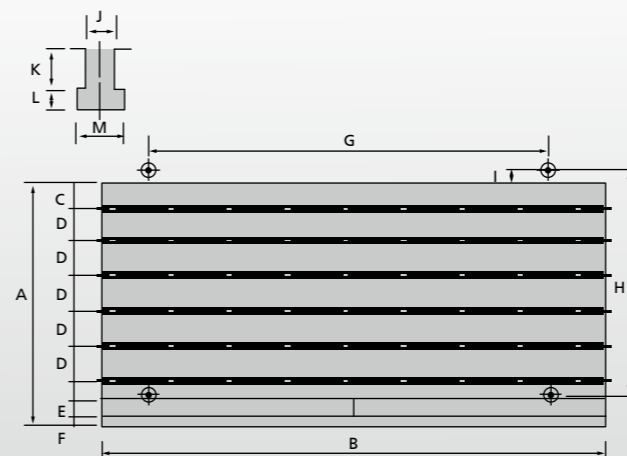
/ VMC-4100



/ VMC-21100+



VMC TABLE VIEW



VMC TABLE SIZE

unit : mm

Model \ Item	A	B	C	D	E	F	G	H	I	J	K	L	M
VMM/VMC-116A/B	600	1250	50				1100	600	-				
VMM/VMC-126A/B	650	1350	75				1150	650	-	18	24	12	30
VMM/VMC-1370	700	1500	100	125			1300	700	-				
VMM/VMC-1688	950	1800	65		45	25	1600	880	-				
VMM/VMC-21100+		2400					2200			8			
VMM/VMC-2100		2100					1900						
VMM/VMC-2600	1000	2600	50	150	-	-	2400	1000			22	29	16
VMM/VMC-3100		3100					2900						
VMM/VMC-4100		4100					3900						

VMC/VMM SERIES VERTICAL MACHINING CENTER

SPECIFICATION

MODEL		VMC-116A VMM-116A	VMC-116B VMM-116B	VMC-126A VMM-126A	VMC-126B VMM-126B	VMC-1370 VMM-1370	VMC-1688 VMM-1688	VMC-21100+ VMM-21100+	VMC-2100 VMM-2100	VMC-2600 VMM-2600	VMC-3100 VMM-3100	VMC-4100 VMM-4100	
Travel													
X-axis	mm	1100		1270		1400	1600	2150	2100	2600	3100	4100	
Y-axis	mm	600		650		700	880	1000		1020			
Z-axis	mm	635		650		700		790		900/1070			
Guide Way(X/Y/Z)	type		Box Way						Box Way				
Distance From Spindle Nose To Table Surface	mm	100-735		100-750		200-900		250-1040		100-1000/100-1170			
Distance From Spindle Center To The Track Surface Of Z-axis	mm	650(620)		725(695)		750(705)	935(897)	1042		1070(1010)			
Table													
Table Dimension	mm	1250 x 600		1350 x 650		1500 x 700	1800 x 950	2400x1000	2100 x 1000	2600 x 1000	3100 x 1000	4100 x 1000	
Max. Loading Capacity	kg		1200			1500	2500		3000		4000	5500	
T-Slots(number x width x pitch)	no x mm		5x18mmx125mm			5x18mmx125mm	7x22mmx125mm			7x22mmx150mm			
Spindle													
Spindle Speed(ST)	rpm	Gear Head 6000						Gear Head 6000					
Spindle Speed(OP)	rpm	Gear Head 7000/8000 Direct-Driven 10000/12000 Belt Head 8000/10000	Gear Head 7000/8000	Gear Head 7000/8000 Direct-Driven 10000/12000 Belt Head 8000/10000	Gear Head 7000/8000 Direct-Driven 10000	Gear Head 4000/7000/8000 Direct-Driven 10000			Gear Head 7000/8000 Direct-Driven 10000				
Spindle Taper	type	#40	#50	#40	#50				#50				
Spindle Bearing Bore Diameter	mm	Ø70(Belt Head/Direct-Driven)Ø75(Gear Head)	Ø85	Ø70(Belt Head/Direct-Driven)Ø75(Gear Head)	Ø85(Gear Head) Ø90(Direct-Driven)				Ø90				
Feed													
Rapid Travel Rate(X/Y/Z)	m/min	24/24/20				24/24/20	20/20/15	12/12/10	10/10/10			8/8/8	
Cutting Rate	m/min	10				10			7			5	
Manual JOG Feed Rate	m/min	4(20steps)							4(20steps)				
ATC													
Tool Shank Type	type	MAS BT-40 (*CAT-40/*DIN-40)	MAS BT-50 (*CAT-50/*DIN-50)	MAS BT-40 (*CAT-40/*DIN-40)	MAS BT-50 (*CAT-50/*DIN-50)	MAS BT-50(*CAT-50/*DIN-50)							
Pull Stud	type	MAS BT-40/P40-T-1 (*CAT-40/*DIN-40)	MAS BT-50/P50-T-1 (*CAT-50/*DIN-50)	MAS BT-40/P40-T-1 (*CAT-40/*DIN-40)	MAS BT-50/P50-T-1 (*CAT-50/*DIN-50)	MAS BT-50/P50-T-1(*CAT-50/*DIN-50)							
Auto Tool Change System		VMM Series do not support ATC						VMM Series do not support ATC					
Magazine Capacity(ST)	tools	24(Cam Type)						24(Cam Type)					
Magazine Capacity(OP)	tools	*32/*40(Cam Type)	-	*30/*32(Cam Type)		*30/*40(Cam Type)				*30/*40/*60(Cam Type)			
Max. Tool Diameter(with adjacent tool)	mm	Ø75	Ø108	Ø75	Ø108				Ø105				
Max. Tool Diameter(without adjacent tool)	mm	Ø150	Ø216	Ø150	Ø216				Ø210				
Max. Tool Length	mm	300							300				
Max. Tool Weight	kg	7	15	7	15				15				
Tool Change Time(tool to tool)	sec	2	2.8	2	2.8				2.8				
Tool Change Time(time to time)	sec	5.8	6	4.5	6				6				
Motor (FANUC)													
Spindle Motor(cont./30min)(ST)	kW	7.5/11	15/18.5	7.5/11	15/18.5				15/18.5				
Feed Motor(X/Y/Z)	kW	3.0/3.0/3.0		3.0/4.0/7.0		4.0/4.0/7.0		7.0/7.0/7.0		7.0/(7.0/7.0)/7.0		6.0/(7.0/7.0)/7.0	
Coolant Motor	kW	0.75		0.75*2					0.75				
Power Supply													
Power Supply	kVA	20				35			55				
Compressed Air Supply	MPa, l/min	0.6, 500							0.6, 500				
Coolant Tank Capacity	L	443		520		420	420	320	770				
Controller		FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN						FANUC / MITSUBISHI / SIEMENS / HEIDENHAIN					
External Dimension													
Width	mm	4743		5095		4707	5310	5900	9041	10041	10996	13291	
Length	mm	2627		2505		3870	4050	4369	4520				
Height	mm	3060		2850	3095	3325	3143	3508	3576/3746				
Net Weight	kg	8250/8600		8500/8850		12700/13500	16200/17000	17650/18500	20500/21000	22000/22500	23000/23500	27500/28000	
Accuracy (following values were tested in the temperature-controlled room)													
ISO 10791 Accuracy	Positioning	mm		0.012		0.012	0.014	0.022			0.025	0.030	
	Repeatability	mm		0.009		0.010	0.012	0.017			0.020	0.025	
JIS 6338 Accuracy	Positioning(within 300mm)	mm		±0.005					±0.005			±0.01	
	Repeatability(within 300mm)	mm		±0.002					±0.003			±0.008	
Packing For Export		40' HQ				20' F/R			20' F/R+40' H/Q			20' F/R+40' H/Q	

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2. The positioning accuracy inspection is only allowed to execute in KAFO's factory, may not provide inspection at other time after leaving.

3. The temperature of machine installing environment must be 5~40 degrees, the surrounding temperature difference should be within 4 degrees, 0.67 degrees per hour, under 4 degrees within 6 hours.

4. As for more details, please refer to operating manual or contact with KAFO sales.

ACCESSORIES

● : Standard Specification ○ : Optional Specification ★ : Consulting Required - : Inadaptable

SPECIFICATION / MODEL	VMC-116A VMM-116A	VMC-116B VMM-116B	VMC-126A VMM-126A	VMC-126B VMM-126B	VMC-1370 VMM-1370	VMC-1688 VMM-1688	VMC-21100+ VMM-21100+	VMC-2100 VMM-2100	VMC-2600 VMM-2600	VMC-3100 VMM-3100	VMC-4100 VMM-4100
Spindle											
BT-40 Belt Head 8000/10000 rpm (7.5/11kW)	○		○								
BT-40 Direct-Driven 10000/12000 rpm (11/15kW, 15/18.5kW)											
BT-40 Gear Head 6000 rpm (7.5/11kW)	●		●								
BT-40 Gear Head 7000/8000 rpm (7.5/11kW)	○		○								
BT-40 Gear Head 6000/7000/8000 rpm (15/18.5kW)		●		●	●	●	●	●	●	●	●
BT-50 Gear Head 6000 rpm (15/18.5kW)		○		○	○	○	○	○	○	○	○
BT-50 Gear Head 7000 rpm (15/18.5kW)											
BT-50 Gear Head 6000/7000 rpm (22/26kW)					○	○	○	○	○	○	○
BT-50 Direct-Driven 10000 rpm (15/18.5kW)											
BT-50 Direct-Driven 10000 rpm (22/26kW)											
Tool Magazine											
Magazine Capacity											
24 Tools (Cam Type)	●	●	●	●	●	●	●	●	●	●	●
30 Tools (Cam Type)	-		○	○	○	○	○	○	○	○	○
32 Tools (Cam Type)	○										
40 Tools (Cam Type)					○	○	○	○	○	○	○
60 Tools (Cam Type)											
Tool											
Tool Shank											
MAS BT-40	●		●								
CAT-40	○		○								
DIN-40											
MAS BT-50		●		●	●	●	●	●	●	●	●
CAT-50		○		○	○	○	○	○	○	○	○
DIN-50											
Pull Stud											
MAS BT-40/P40-T-1	●		●								
MAS BT-50/P50-T-1		●		●	●	●	●	●	●	●	●
Coolant											
Coolant System	●	●	●	●	●	●	●	●	●	●	●
Coolant Through Spindle	○	○	○	○	○	○	○	○	○	○	○
Coolant Through Tool And Tool Holder							○				
Oil Skimmer	●	●	●	●	●	●		○	○	○	○
Oil-Mist Coolant System	○	○	○	○	○	○					
Chip Flush Coolant System			●	●							
Coolant Gun	●	●		●	●	●	●	●	●	●	●
Chip Disposal System											
Lift-up Chip Conveyor (Chain Type)	○	○	○	○	○	○	○	○	○	○	○
Lift-up Chip Conveyor (Scrape Type)											
Screw Type Chip Conveyor (front of base)	●	●			●						
Screw Type Chip Conveyor (behind of table)							●				
Screw Type Chip Conveyor (on either sides and center of base)						●		●	●	●	●
Air Blast Function For Workpiece (M07)	●	●	●	●	●		●	●	●	●	●
Spindle Air Blast											
Oil-Mist Collection System	○	○	○	○	○	○	○	○	○	○	○
Measurement System											
Tool Length Measurement	○	○	○	○	○	○	○	○	○	○	○
Workpiece Measurement											
Operation Support											
Auto Power Off (M30)	●	●	●	●	●	●	●	●	●	●	●
Automatic Door	★	★	★	★	★	★	★	★	★	★	★
Manual Pulse Generator (MPG)	●	●	●	●	●	●	●	●	●	●	●
High Accuracy Control											
Liner Scales (axis X/Y/Z)	○	○	○	○	○	○	○	○	○	○	○
Safety System											
Full Enclosure	●	●	●	●	●	●	○	●	●	●	●
L Type Splash Guard					○	○	●				
Splash Guard For Table							○				
Air Pressure Detection System	●	●	●	●	●	●	●	●	●	●	●
Others											
Interior Lighting Lamp (Fluorescent Lamp*1)							○				
Work Light & Tri-Color Status Light	●	●	●	●	●	●	●	●	●	●	●
Leveling Bolts & Pads											
Tool Box											
4th Axis Interface											
Rotary Table 4th Axis	○	○	○	○	○	○	○	○	○	○	○
Air Conditioner Unit For Electric Cabinet											
KAFO Customized Calculator Software Function											
Z-axis Riser	★	★	★	★	★	★	★	○	○	○	○
Z-axis Travel Extend		○ (Z-axis 785mm)		○ (Z-axis 850mm)			○ (Z-axis 900mm)			○ (Z-axis 1070mm)	

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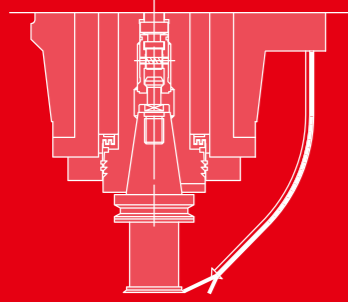
2. The positioning accuracy inspection is only allowed to execute in KAFO's factory, may not provide inspection at other time after leaving.

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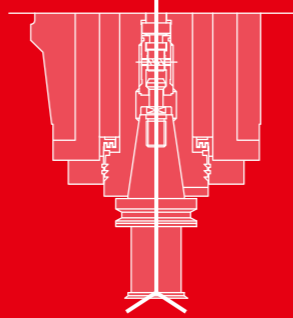
4. As for more details, please refer to operating manual or contact with KAFO sales.

TOOL SHANK & PULL STUD SPEC

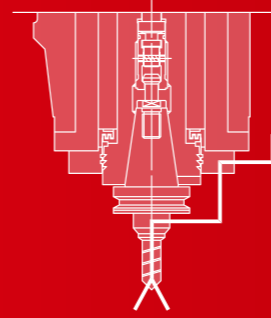
/ STANDARD COOLANT NUZZLE



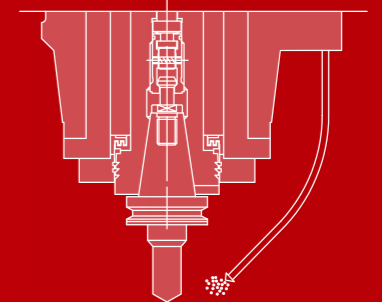
/ SPECIAL TYPE COOLANT THROUGH SPINDLE



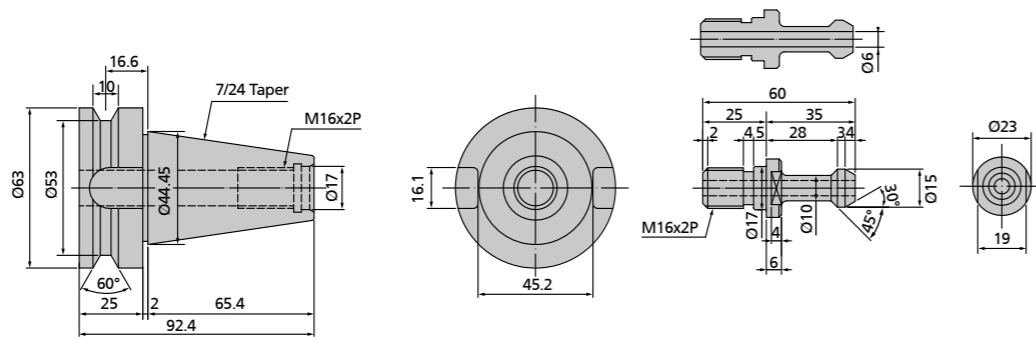
/ SPECIAL TYPE COOLANT THROUGH TOOL AND TOOL HOLDER



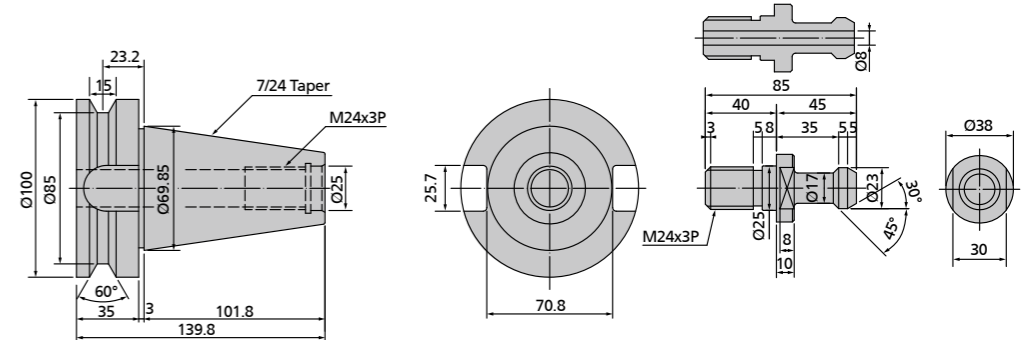
/ SPECIAL TYPE OIL-MIST COOLANT SYSTEM



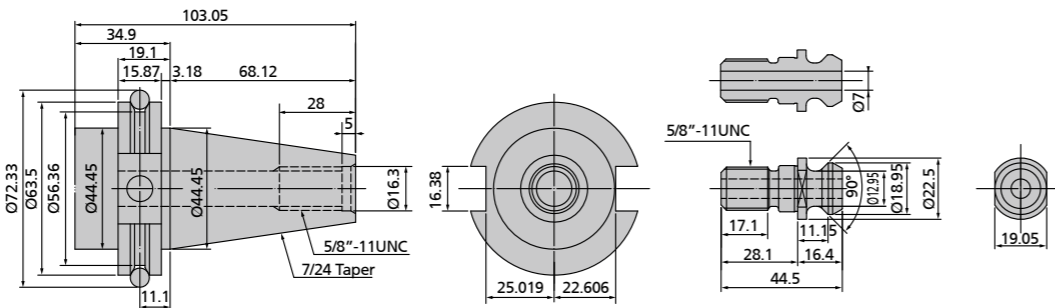
/ MAS BT-40+ MAS P40T Tooling Dim. (CTS)



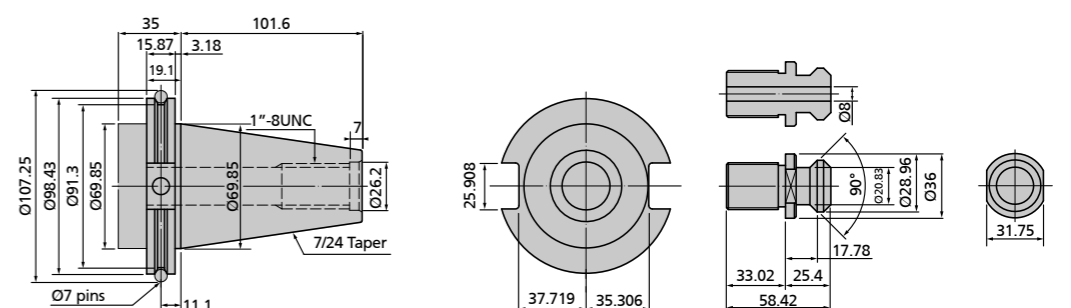
/ MAS BT-50+ MAS P50T Tooling Dim. (CTS)



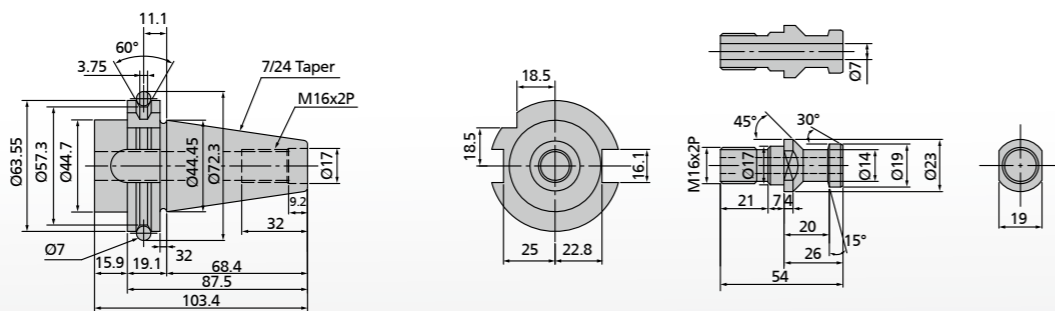
/ V-Flange CAT-40+ V-Flange CAT-40 Tooling Dim. (CTS)



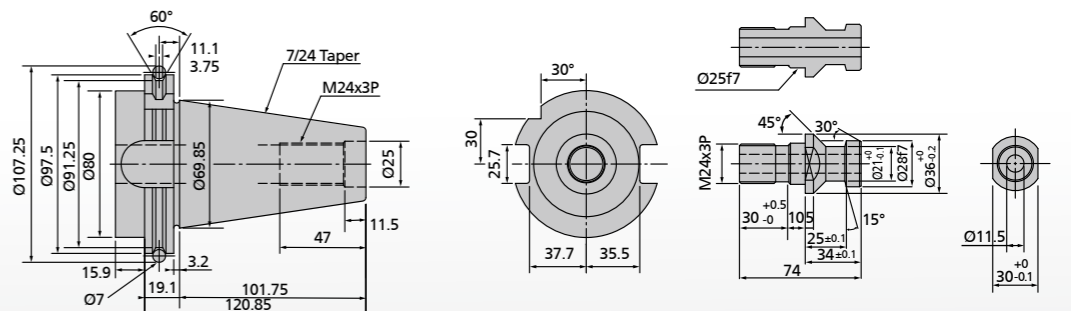
/ V-Flange CAT-50+ V-Flange CAT-50 Tooling Dim. (CTS)



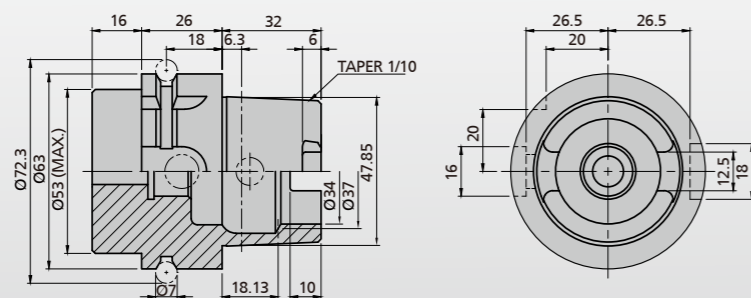
/ DIN69871(#40) + DIN69872-B(#40) Tooling Dim. (CTS)



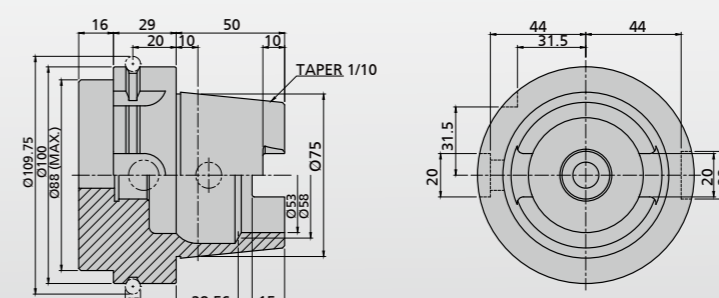
/ DIN69871A(#50)+ DIN69872-A(#50) Tooling Dim. (CTS)



/ HSK 63A (ISO-12164-1) (CTS)



/ HSK 100A (ISO-12164-1)(CTS)



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