Smell Heart Vision Hearing Touch Taste

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 offers 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.



Kao Fong Machinery Co., Ltd. No.16, Keya Rd., Daya Dist., Taichung City 42881, Taiwan TEL : +886-4-25662116 FAX:+886-4-25671001 E-Mail : kafo@kafo.com.tw www.kafo.com.tw Version: February, 2019

KZFO

DOUBLE COLUMN MACHINING CENTER

B/BMC SERIES

RV SERIES

KRV SERIES



RV5A SERIES

Taste good service by our professional and efficient team



5

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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.

Danio Sberg

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



ASSEMBLY



 Assembly KAFO gear box and head unit in clean room.



• World class spindle bearings.



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



 Spindle, gear box, and spindle motor balance test.



level and square.

QUALITY ASSURANCE

RIGOROUS TESTS AND INSPECTION, GUARANTEED QUALITY CONTROL UPON KEY COMPONENTS



/ 3D PROBE SYSTEM QUALITY ASSURANCE (CMM)



ILASER INSPECTION



/ 3D CIRCULAR BALL MILLING



/ BALL BAR INSPECTION



/ VIBRATION TEST

• Scrapping-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

/ RIGIDITY TEST

DOUBLE COLUMN MACHINING CENTER

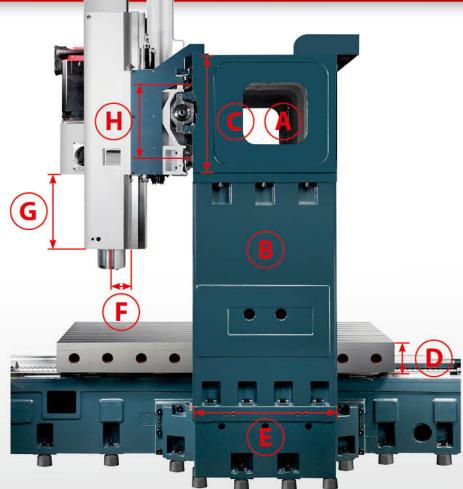
NEW GENERATION DESIGNED, PROVIDING BEST RIGIDITY STRUCTURE

- Extended beam cross-section A
- Widest column available in the market B
- Largest spindle head support C
- Thickest working table D

- Biggest contact area for column support E
- Minimum distance from spindle center to boxway F
- Short transmission shaft
- Long distance between guideways H

- Hydraulic counter balance system for Z-axis
- Roller linear guideways from NSK/THK (Japan) or INA (Germany)
- Highest quality Meehanite casting





Hermo-symmetric box design base with high static and dynamic stiffness

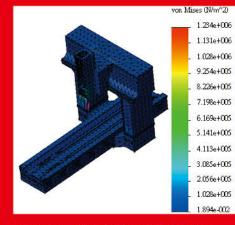
• Minimum floor space layout due to rigid bed design





- A: Extended beam cross-section
- B: Widest column
- C: Largest spindle head support
- D: Thickest working table
- E: Biggest contact area for column support
- F: Minimum distance from spindle center to boxway
- G: Short transmission shaft
- H: Long distance between guideways

HIGH RIGIDITY STRUCTURE, HIGH POSITIONING ACCURACY



SUPERIOR BODY STRUCTURE

 The machine bed, column, spindle head, cross slides and table are all analyzed and optimizes by FEM tests. This design assures high stability and rigidity of the machine, thus making it suitable for heavy-duty machining of all kinds of material.



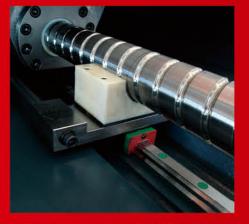
GEAR BOX OF THE THREE AXES

 Three axes feed mechanism employs gear transmission and precise ballscrew with precision class P4 angular contact ball bearings. Gears, ground in accordance with Din level 5, provides good transmission efficiency and also gives the advantages of great transmission torque at low speed and excellent dynamic response at high speed.



MINIMUM SPINDLE DISTANCE

 The distance between spindle centers to Z-axis slideway surface is 150mm. Spindle center is located at the center of headstock which eases the thermal expansion caused by increased temperature of spindle; therefore raises the resistance of the body structure when cutting providing higher machining accuracy and stability.



BALL SCREW COOLING SYSTEM

 Each axis is driven by a large diameter, high precision ground, pre-loaded and double anchored ballscrew providing high accuracy, fast rapid federates and maximum feed thrust. Models with travel over 3m are equipped with cooling system through ballscrew on X-axis to alleviate thermal expansion, resulting in higher positioning accuracy. Models with travel over 4 m possess supporting way for X-axis to solve the problems of overhanging and vibration.



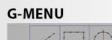
 Modularized tool magazine offering protection and conveniences. Standard capacity is 30 tools. Optionally also offer customers 40, 60, 90 and 120 tools to choose from.

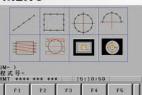


CUSTOMIZED CALCULATOR SOFTWARE FEATURES (OPTION)

MULTI-FUNCTION STATE DISPLAY

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





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

CENTER OF RECTANGLE FUNCTION



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

TOOL LENGTH MEASUREMENT AND SETTING



77M2 ±##

 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.

SAFE AND STABLE TOOL MAGAZINE



PRECISE ROLLER TYPE LINEAR **GUIDE WAYS**

• Feeding systems of X and Y axes adopt the roller type linear guide which feature the heavy load resistance, rapid dynamic response and low friction coefficient (0.003 ~ 0.005). With independent loop hydraulic balanced system, it could react and save at least 50% energy consumption.

CALCULATING FUNCTION

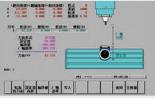


CENTER OF CIRCLE FUNCTION



- Calculating function provided customers with fast calculation and completion of the workpiece coordinate corrections and setting.
- Provide customers with three points to find the center of the circle, userfriendly setting mold.

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



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

HIGH SPEED AND PRECISION SPINDLE DESIGN

• Using new generation 8000rpm direct driven spindle with high speed, high precision, high performance spindle motor, available high-quality rigid tapping. Without noise, backlash and vibration problems, standard accessories with spindle oil coolant system to control thermal displacement then getting best accuracy.

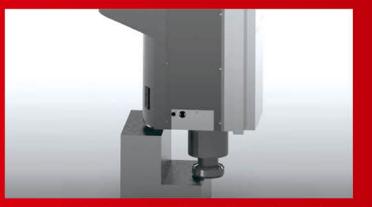
Using Ø100mm ceramic bearing with the spindle, after long time machining the vibration and thermal displacement could be controlled very well for keeping good tolerance of the dimension and accuracy of the shape.

HIGH TORQUE & LOW NOISE GEAR BOX DESIGN

• Gear spindle with 6000rpm: superior power, high speed and accurate precision. Ceramic ball bearing of ID Ø100 is able to achieve high torque of 728N-m while the spindle speed is 341rpm, which is good for heavy duty cutting.

Two-speed gear box consist of DIN level 5 gears, well-performing bearings and oil cooling systems to minimize thermal expansion. Every set of gear box is inspected by the vibration and run-in tests to ensure each gear shifting smoothly and stably, meanwhile achieving G1 level of vibration testing.





 KAFO adopting long nose spindle, suitable for die & mold and specific parts cavities avoids interference during processing. it is able to mount all kind of angular milling head (option)

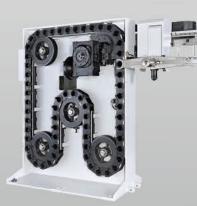
DOUBLE COLUMN TOOL MAGAZINE

/ BMC TOOL MAGAZINE : STANDARD 30 TOOLS. OPTION 40 TOOLS AND 60 TOOLS



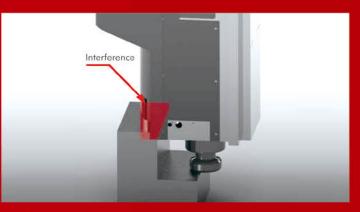
/ RV TOOL MAGAZINE : STANDARD 60 TOOLS. OPTION 40, 90, 120 TOOLS





| | BMC | |
|--|--|---|
| | Gear 4,000RPM | (|
| Spindle | Gear 6,000RPM | C |
| | Direct-Driven 10,000RPM | Built-i |
| ATC | Vertical Magazine 30/40/60T | Vertical M 30/40/60T (Vertical A 90° Millin Automati Manually |
| Magazine | (Vertical Automatically Tool Change) | Vertical & 40/60/90/1 (Vertical & Tool Chan Automatic Aut |
| Travel | Y-Axis Travel Extend o | Z-Axis Travel Ex |
| Attached Head | • Manual 90° Milling Head / Universal / Extension Head-Manually Head Change Manually Tool Change | • Universal • 90° Millin |
| Head storage Exchanging System (OP) | X | • Milling he (90° / Univ Speed-Up |





Other Manufacturer

RV

Gear 4,000RPM Gear 6,000RPM -in 8,000RPM (180LL)

Magazine T Automatically Tool Change / ng Head) tically Head Change y Tool Change

& horizontal Magazine /120T & Horizontal Automatically inge/ 90° Milling Head-) tically Head Change tically Tool Change xtend

l Head (Automatic) ng Head (Automatic)

nead storage iversal / Extension / p Type Extension Head)

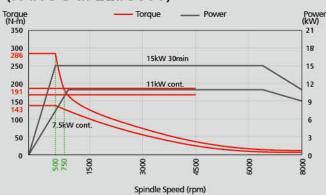


NEW GENERATION SPINDLE DESIGNED WITH **POWERFUL MACHINING ABILITY**

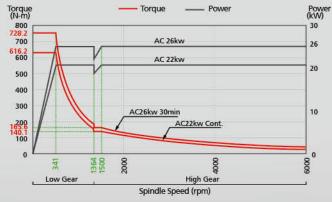
/ HIGH RIGIDITY, HIGH TORQUE, HIGH SPEED, LOW VIBRATION LOW NOISE, LOW THERMAL DISPLACEMENT

- Upgrading the output torque of gear head spindle (which is 10% bigger than other manufacturer)
- Upgrading the main bearing diameter of gear head spindle to 100mm (which is 10mm above than other manufacturer)
- Strong motor 22/26kW (35HP) is driven by two step gear box, spindle speed 6000rpm and powerful torque to 728N-m, which is most suitable for heavy cutting.
- Also available with roller type bearing spindle 4000rpm could be used in much heavier cutting.

/ BT50 DIRECT-DRIVEN 8000 RPM (FANUC αP22I/8000)



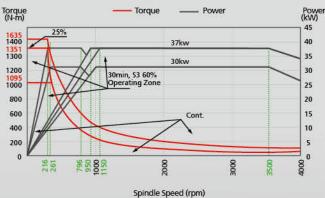
/ BT50 GEAR HEAD 6000 RPM (FANUC α221/8000)



(FANUC α221/10000) - Torque - Power Torque (N-m) Power (kW) 180 166 26kW 30min 25 22kW cont 140 120 20 100 62.1 60 52.5 40 5000 5000 80000 90000 80 Spindle Speed (rpm)

/ BT50 DIRECT-DRIVEN 10000 RPM

/ BT50 GEAR HEAD 4000 RPM (FANUC a30/7000)

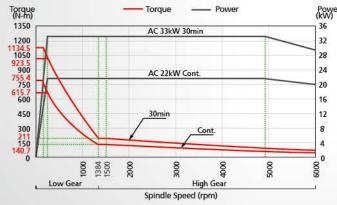


/ BT50 GEAR HEAD 6000 RPM (MITSUBISHI SJ-D26-80-01-C) ---- Torque ----- Power Torque (N-m) Power (kW) 1000 981.5 900 AC35 kW 25% 36 32 800 730 700 AC26 kW 30min 28 615.7 600 24 AC22 kW Cont 500 20 400 16 300 12 200 100 Cont 000 000 5000 200 4500 0000 High Gear Low Gear Spindle Speed (rpm)

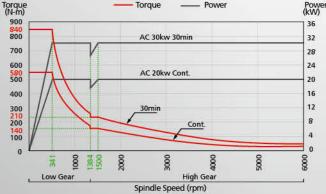
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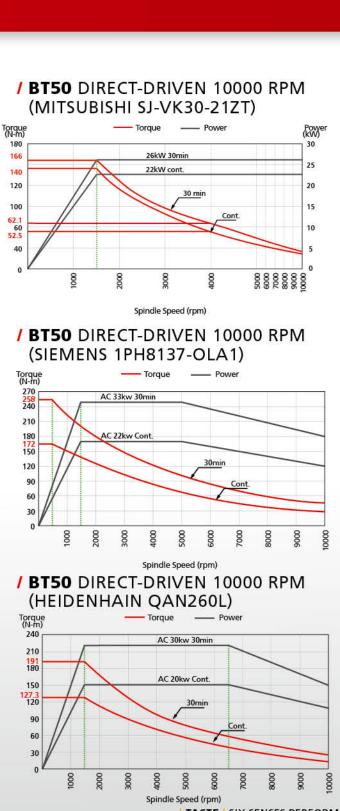
14

/ BT50 GEAR HEAD 6000 RPM (SIEMENS 1PH8137-1CA1)



/ BT50 GEAR HEAD 6000 RPM (HEIDENHAIN OAN260L) - Torque - Powe





TASTE SIX SENSES PERFORMANCE 12

ATTACHED MILLING HEAD DESIGN

/ MANUAL 30° ANGLE **MILLING HEAD**







/ MANUAL UNIVERSAL **HEAD (C50)**



/ MANUAL UNIVERSAL **HEAD (H50)**

/ MANUAL **EXTENSION HEAD**





/ CHANGE AND INDEXING MECHANISM OF MILLING HEAD

| TYPE | HEAD CHANGE | MILLING HEAD INDEXING | CLAMPING | ANGLE |
|------------|-------------|--------------------------|----------------|-------|
| All Manual | Manual | Manual | Manual / Bolts | 1° |

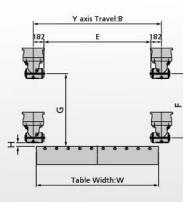
/ MANUAL ANGLE MILLING HEAD CHANGING UNIT (OPT.)

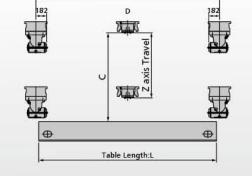
- Manual head change.
- Manual angle milling head can change tool by foot pedal.
- Angle milling head has unclamped hydraulic cylinder, tool can be changed at any position.
- Unique and simple head changing unit doesn't occupy working space.
- Head changing unit has enclosure guards to protect against dirt and chips.
- The structure is firm, compact, safe, reliable, and durable.





/ MANUAL 90° ANGLE HEAD MACHINING RANGE

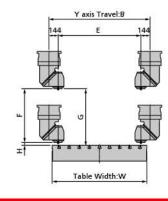




X axis Travel:A

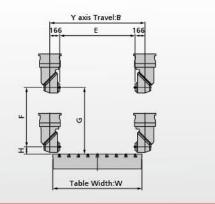
| Z AXIS TRAVEL | HEIGHT OF COLUMN | Α | В | С | D | E | F | G | H |
|------------------|---------------------|---------------|---------------|------|-------------------|-------------------|------|------|----|
| 900 | 1710 | X axis travel | Y axis travel | 1100 | X axis travel-364 | Y axis travel-364 | 700 | 847 | 63 |
| 1100 | 1910 | X axis travel | Y axis travel | 1300 | X axis travel-364 | Y axis travel-364 | 900 | 1047 | 63 |
| 1300 | 2110 | X axis travel | Y axis travel | 1500 | X axis travel-364 | Y axis travel-364 | 1100 | 1247 | 63 |

/ MANUAL UNIVERSAL HEAD 0° MACHINING RANGE

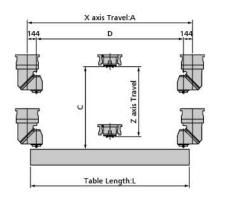


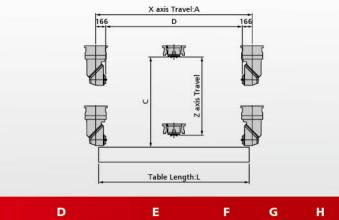
| Z AXIS TRAVEL | HEIGHT OF COLUMN | Α | В | с | D | E | F | G | Н |
|------------------|---------------------|---------------|---------------|------|-------------------|-------------------|--------|--------|----|
| 900 | 1710 | X axis travel | Y axis travel | 1100 | X axis travel-288 | Y axis travel-288 | 650.5 | 700.5 | 50 |
| 1100 | 1910 | X axis travel | Y axis travel | 1300 | X axis travel-288 | Y axis travel-288 | 850.5 | 900.5 | 50 |
| 1300 | 2110 | X axis travel | Y axis travel | 1500 | X axis travel-288 | Y axis travel-288 | 1050.5 | 1100.5 | 50 |

/ MANUAL UNIVERSAL HEAD 90° MACHINING RANGE



| Z AXIS TRAVEL | HEIGHT OF COLUMN | Α | В | с | D | E | F | G | E |
|------------------|---------------------|---------------|---------------|------|-------------------|-------------------|------|------|-----|
| 900 | 1710 | X axis travel | Y axis travel | 1100 | X axis travel-332 | Y axis travel-332 | 600 | 721 | 121 |
| 1100 | 1910 | X axis travel | Y axis travel | 1300 | X axis travel-332 | Y axis travel-332 | 800 | 921 | 121 |
| 1300 | 2110 | X axis travel | Y axis travel | 1500 | X axis travel-332 | Y axis travel-332 | 1000 | 1121 | 121 |





BMC-2012 / B-2616 / BMC-4122 / B-3116 / BMC-6122 / BMC-4127 / BMC-5131

B/BMC SERIES DOUBLE COLUMN MACHINING CENTER

<image>







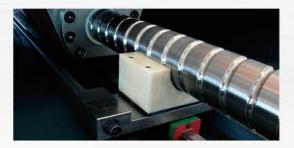




/ BMC-5131



TASTE | SIX SENSES PERFORMANCE











SPECIFICATION

| Three310031003100310031003100Y-aksmm(199-96)(190-96) <th< th=""><th>MODEL</th><th></th><th>B-2012A/ BMC-2012</th><th>B-2012/ BMC-2012</th><th>B-3012A/ BMC-3012</th><th>B-3012/ BMC-3012</th><th>B-2015/ BMC-2015/</th><th>B-3015/ BMC-3015/</th><th>B-2616/ BMC-2616/</th><th>B-3116/ BMC-3116/</th><th>B-4116/ BMC-4116/</th><th>B-5116/ BMC-5116/</th><th>B-6 BMC-</th></th<> | MODEL | | B-2012A/ BMC-2012 | B-2012/ BMC-2012 | B-3012A/ BMC-3012 | B-3012/ BMC-3012 | B-2015/ BMC-2015/ | B-3015/ BMC-3015/ | B-2616/ BMC-2616/ | B-3116/ BMC-3116/ | B-4116/ BMC-4116/ | B-5116/ BMC-5116/ | B-6 BMC- | |
|---|--|---------------|----------------------|---|--------------------------------------|-------------------------|------------------------------------|---|----------------------|----------------------|---|---|--------------|------------|
| y-ads m ^m i 1000 i 1 | Travel | | (WAV DIREC PDRIVER) | (PSO GEAN DIREC PDRIVEN) | (HO DIRECHDRIVEN) | (#30 GEAUDIRECI-DRIVER) | | | | | | | | |
| ZacksmmISO-800 (0P120-102) (0P120-102) (0P120-120)ISO-950 (0P120-120) (0P120-120)Z200-1000 (0P120-120)Z200-1000 (2P20-120)Z200-1000 (2P20-120)Z000-1000 | | mm | 21 | 100 | 3 | 100 | 2100 | 3100 | 2600 | 3100 | 4100 | 5100 | 61 | |
| pictance pron spindle Noa (p01950 n) (p01950 n) (p01950 n) (p01950 n)200-00 (p01950 n) (p01950 n) (p01950 n)200-00 (p01950 n) (p01950 n)200-10 (p01950 n) (p01950 n)200-10 (p01950 n)200-10 (p01 | Y-axis | mm | | 12 | 00 | | 1! | 500 | | | 1600 | | | |
| | Z-axis | mm | | | 800 (0 | OP1000) | l | | | | | ST 900 | (OP 1100) | |
| Table Dimension (v)mSamo de la colspan="4">Samo de la colspan="4"Table Dimension (v)mTable Dimension (v)mTable Dimension (v)mTable Dimension (v)mTable Dimension (v)mTable Dimension (v)Table Dimension (v)Spindle Taple Dimension (v)Table Dimension (v) <th cols<="" td=""><td></td><td>mm</td><td></td><td></td><td></td><td></td><td>200~1000 (</td><td>OP200-1200)</td><td></td><td></td><td></td><td>200~1100</td><td>(OP 200-13</td></th> | <td></td> <td>mm</td> <td></td> <td></td> <td></td> <td></td> <td>200~1000 (</td> <td>OP200-1200)</td> <td></td> <td></td> <td></td> <td>200~1100</td> <td>(OP 200-13</td> | | mm | | | | | 200~1000 (| OP200-1200) | | | | 200~1100 | (OP 200-13 |
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| Table Dimension (?)Max. Loading Capacitykg 200 × 7 ±00 × 22 × 9 ±0 × 22 × 9 ±0 × 22 × 9 ±0 × 22 × 9 ±0 × 22 × 9 ±0 × 22 × 9 ±0 × 1000 × 100000 × 100000 × 10000 × 100000 × 1000 | | mm | 20 | 000 | 3 | 000 | 2000 | 3000 | 2500 | 3000 | 4000 | 5000 | 60 | |
| Lading Size x Number X PMMax Lading Scapaty Spindle Spindle Speed (Gary)TS 000/OP 4000Spindle Speed (Gary)TS 000/OP 4000Colspands OP 10000/ OP 10000/ | | ************* | | | | | ********************************** | | | | | | | |
| Max. Loading Capacity spindleMay14000110001400017000Spindle Motor Output Spindle Speed (Gear)rpm-ST 6000 / OP 40000-515000 / OP 4000052227Spindle Speed (Gear)rpm-ST 6000 / OP 40000ST 6000 / OP 40000ST 6000 / OP 40000 | *************************************** | | | | | | | *************************************** | | | | | | |
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| $ \begin{array}{c c c c c c } \hline \begin{tabular}{c c c c c c c c } \hline \begin{tabular}{c c c c c c c c c c c c c c c c c c c $ | Spindle Motor Output | kW | | 15/1 | 18.5 | | 15/18.5 | (OP 22/26) | | | | 22/26 | (OP 30/37) | |
| Spindle Speed (D) (CP et diven) (Optional) ST 8000/ (OP 10000) ST 8000/ (OP 1000) ST 8000/ (S 02 40/10) ST 8000/ (S 02 40/10) <t< td=""><td>Spindle Speed (Gear)</td><td>rpm</td><td></td><td>ST 6000 / OP 4000</td><td>-</td><td></td><td>ST 6000 / OP 4000</td><td></td><td></td><td></td><td></td><td>ST 6000</td><td>0 / OP 4000</td></t<> | Spindle Speed (Gear) | rpm | | ST 6000 / OP 4000 | - | | ST 6000 / OP 4000 | | | | | ST 6000 | 0 / OP 4000 | |
| pindle Bearing Bore Diameter 0mm 70 100 70 100 reed m/mi 20/20/15 20/20/15 20/20/15 20/20/15 15/20/15 Cutting Feed Rate mm' mi | Spindle Speed (Direct-driven)(Optional) | rpm | OP 10000 / | | OP 10000 / | | OP 8000 / OP 1000 | 0 | | | | OP 8000 | 0 / OP 10000 | |
| Spindle Bearing Bore Diameter 0mm 70 100 70 100 reed Spindle Bearing Bore Diameter 0mm 70 100 70 2020/15 2/2/2/15 2/2/2/15 15/20/15 Rapid Travel Rate (XY/Z) m/m/ Spindle Bearing Bore Diameter 0mm m/m Spindle Bearing Bore Diameter 0mm 70 100 2/2/2/15 15/20/15 Cutting Feed Rate mm/ Spindle Bearing Bore Diameter 0mm m/m Spindle Bearing Bore Diameter 0mm M/m Spindle Bearing Bore Diameter 0mm 70.01/15 20/2/15 Spindle Bearing Bore Diameter 0mm 70.01/15 20/2/15 Spindle Bearing Bore Diameter 0mm 70.01/15 0.020 0.025 0.020 0.025 0.020 0.025 0.020 0.020 0.025 0.020 0.020 0.020 0.025 0.030 0.040 0.040 0.040 0.040 0.020 0.015 0.022 0.020 < | Spindle Taper | | BT40 | BT50 | BT40 | | BT50 | | | | | | BT50 | |
| Rapid Travel Rate (XVY/2)m/min20/24/1520/24/1520/24/1515/20/15Cutting Feed Ratemm/min********************************* | *************************************** | Ømm | 70 | 100 | ************************************ | | 100 | | | | | CONTRACTOR OF A CONTRACT OF A | 100 | |
| mm/ mil1000Feed Matemm/ mil7.04.0/4.07.04.0/4.07.04.0/4.0Geed Mater4.0/4.0/47.04.0/4.07.04.0/4.0Accuracymm ± 0.025 0.0220.0250.0220.0250.0300.040Repeatability Accuracy (ISO 6636)mm 0.02^{-1} 0.0200.0150.0200.0170.0200.0300.040Repeatability Accuracy (ISO 6636)mm 0.0^{-1} 0.0^{-2} 0.0150.0200.0170.020.0200.0300.040Repeatability Accuracy (ISO 6636)mm 0.0^{-1} 0.0^{-2} 0.02^{-1} | Feed | | | 1000000 | | 10 | | | | | | | | |
| Number of Natemin1000Feed MotorKW4,0/4,0/aN.0/4,0/aN.0/4,0/aN.0/4,0/aFeed MotorKW4,0/4,0/aS.0/4,0/a/aN.0/4,0/aN.0/4,0/aN.0/4,0/aN.0/4,0/aAccuracy (IS 6338)mm $\pm 0,0.1$ $\pm 0,0.2$ $0,025$ $0,022$ $0,025$ $0,020$ $0,025$ $0,020$ $0,025$ $0,020$ $0,026$ $0,020$ | Rapid Travel Rate (X/Y/Z) | m/min | | | 20/ | 20/15 | | | 24/ | 24/15 | 20/24/15 | 15/20/15 | 10/2 | |
| Accuracy mm ± 0.01 Positioning Accuracy (IS 6338) mm 0.02 0.025 0.022 0.025 0.025 0.020 0.025 0.025 0.020 0.025 0.025 0.020 0.025 0.025 0.020 0.025 0.025 0.020 0.025 0.025 0.020 0.025 0.020 0.025 0.020 0.025 0.020 0.025 0.020 0.025 0.020 0.025 0.020 0.025 0.020 0.025 0.020 0.025 0.020 0.025 0.020 0.025 0.020 0.025 0.020 0.025 0.020 0.025 $0.$ | Cutting Feed Rate | | | | 10 | 0000 | | | | | | 1 | 0000 | |
| Positioning Accuracy (IS 6339) mm ± 0.01 0.020 0.022 0.025 0.030 0.040 Repeatability Accuracy (IS 6339) mm \cdot $\pm 0.02^{-1}$ 0.020 0.022 0.025 0.030 0.040 Repeatability Accuracy (IS 6339) mm \cdot $\pm 0.02^{-1}$ 0.020 0.017 0.02 0.025 0. | Feed Motor | kW | | | 4.0/4 | 4.0/4.0 | | *************************************** | 4.0/4 | 1.0/4.0 | 7.0/4.0/4.0 | 6.0/ | /4.0/4.0 | |
| (JIS 6338) mm | Accuracy | | | | | | | | | | | | | |
| (SO 8636) Imm 0.020 0.023 0.033 Repeatability Accuracy (IS 6338) mm 0.015 0.02 0.017 0.02 0.02 0.025 0.033 ATC System $30(40/60)$ 32(40) 32(40) 32(40) 32(40) 32(40/60) $32(40/60)$ $50(25)$ 5 | | mm | | | ±(| 0.01 | | | | | | ± | ±0.01 | |
| (Jiš 6338) mm 0.015 0.003 0.02 0.017 0.02 0.025 0.03 | | mm | 0.0 | 020 | 0. | 025 | 0.020 | 0.025 | 0.022 | 0.025 | 0.030 | 0.040 | 0.0 | |
| (ISO 8636) Inim 0.013 0.02 0.017 0.02 0.023 0.033 < | | mm | | | ±0 | .003 | | | | *** | *************************************** | Ŧ | 0.003 | |
| Tool Magazine Capacity32(*40)30(*40/60)32(*40)30(*40/60) | | mm | 0.0 | 015 | 0 | .02 | 0.015 | 0.02 | 0.017 | 0.02 | 0.025 | 0.03 | 0.0 | |
| Tool Diameter (with adjacent tools)ØmmØ75Ø125Ø75Ø125Max. Tool Diameter (without adjacent tools)ØmmØ127Ø127Ø127Ø215Max. Tool Lengthmm300400300400Max. Tool Weightkg720720Tool Shank TypeBT40/CAT40BT50/CAT50BT40/CAT40BT50/CAT50BT40/CAT40Pull StudP40T-1P50T-1P40T-1P50T-1 | ATC System | | | | | | | | | | - (h. | | | |
| With adjacent tools)With 0/15Wit25Wit5Wit5Max. Tool Diameter (without adjacent tools)ØnmØ127Ø127Ø215Max. Tool Lengthmm300400300400Max. Tool Weightkg720720Max. Tool Shank TypeBT40/CAT40BT50/CAT50BT40/CAT40BT50/CAT50BT40/CAT40Pull StudP40T-1P50T-1P40T-1P50T-1P50T-1 | fool Magazine Capacity | | 32(*40) | 30(*40/60) | 32(*40) | | 30(*40/60) | | | | | 30(| *40/60) | |
| Without adjacent tools)Without adjacent tools)Without adjacent tools)Without adjacent tools)Without adjacent tools)Max. Tool Lengthmm300400300400Max. Tool Weightkg720720Tool Shank TypeBT40/CAT40BT50/CAT50BT40/CAT40BT50/CAT50BPull StudP40T-1P50T-1P40T-1P50T-1 | | Ømm | Ø75 | Ø125 | Ø75 | | Ø125 | | | | | Ģ | Ø125 | |
| Max. Tool Weight kg 7 20 7 20 Tool Shank Type BT40/CAT40 BT50/CAT50 BT40/CAT40 BT50/CAT50 BT50/CAT50 B Pull Stud P40T-1 P50T-1 P40T-1 P50T-1 P50T-1 | | Ømm | Ø127 | Ø215 | Ø127 | | Ø215 | | | | | ¢ | Ø215 | |
| BT40/CAT40 BT50/CAT50 BT40/CAT40 BT50/CAT50 B Pull Stud P40T-1 P50T-1 P40T-1 P50T-1 P50T-1 <t< td=""><td>Max. Tool Length</td><td>mm</td><td>300</td><td>400</td><td>300</td><td></td><td>400</td><td>*******************************</td><td></td><td></td><td>***********</td><td></td><td>400</td></t<> | Max. Tool Length | mm | 300 | 400 | 300 | | 400 | ******************************* | | | *********** | | 400 | |
| Fool Shank Type BT40/CAT40 BT50/CAT50 BT50/CAT50 B Pull Stud P40T-1 P40T-1 P40T-1 P50T-1 | Max. Tool Weight | kg | 7 | 20 | 7 | | 20 | | | | | | 20 | |
| | ool Shank Type | | BT40/CAT40 | BT50/CAT50 | BT40/CAT40 | | BT50/CAT50 | | | | | BT5 | 0/CAT50 | |
| Others | | | P40T-1 | P50T-1 | P40T-1 | | P50T-1 | | | | | P | 50T-1 | |
| Jules | Others | | | | | | | | | | | | | |
| X,Y-axis: Roller Linear Guideway Roller Linear Guideway Guideway of X/Y/Z Axis Z-axis: Box Way Z-axis: Box Way Z-axis: Dox Way Z-axis: Dox Way Z-axis: Box Way Poller Linear Yeller Linear Variationar Veller Linear | Guideway of X/Y/Z Axis | | 7 auiu | | | 7 avier Day Mar | Roller Linea | r Guideway / | | | Roller Lin | ear Guideway / Ro | oller Linear | |

Roller Linear Guideway Box Way Roller Linear Guideway (Roller Linear Guideway) (Roller Linear Guideway) kVA 35 45 Net Weight (B/BMC) 18000/20500 22500/25000 19000/21500 24000/26500 29000/31500 31000/33500 35000/37500 39000/41500 430 kg Gross Weight (B/BMC) 32000/34500 34000/36500 42000/44500 470 21000/23500 25500/28000 22000/24500 27000/29500 38500/41000 kg 145 7790x3590/ 8840x3590/ 10750x3590 12660x3590/ Length x Width x Height 6040×4230×4340 8040×4230×4340 6040x4530x4260 8040x4530x4260 mm 4100x4570 4100x4570 4100x4570 4100x4570 41

P.S.: 1. The positioning accuracy inspection is only allowed to execute in KAFO's factory, may not provide inspection at other time after leaving. 2. The temperature of machine installing environment must be around 5~40°C, the surrounding temperature difference should be within 4°C, 0.67°C per hour, under 4°C within 6 hours.

3. As for more details, please refer to operating manual or contact with KAFO sales.
 4. The specification is for reference only. KAFO remains the right to modify machine specification, design or property and without prior notice.

| -6116/ C-6116/ | B-2622/ BMC-2622/ | B-3122/ BMC-3122/ | B-4122/ BMC-4122/ |
|--------------------|----------------------|----------------------|---|
| 6100 | 2600 | 3100 | 4100 |
| | 2000 | 2200 | |
| 0) | I | | ••••••••••••••••••••••••••••••••••••••• |
| 1300) | | | |
| | | 2300 | |
| 6000 | 2500 | 3000 | 4000 |
| | | 2100 | |
| | | 28 x 10 x 200 | |
| | | | |
| 20000 7) | 11000 | 14000 | 17000 |
| | 11000 | 14000 | 17000 |
| 7) 00 | 11000 | 14000 | 17000 |
| 7) 00 | 20/20/15 | 14000 | 17000 |
| 7) 00 00 | | | |

| ****** | 0.022 | 0.025 | 0.030 |
|--------|-------|-------|-------|
| 0.035 | 0.017 | 0.02 | 0.025 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

ar Guideway / Box Way

| 000/45500 | 31500/34000 | 33500/36000 | 37500/40000 |
|-----------|-------------|-------------|-------------|
| 000/49500 | 35000/37500 | 37000/39500 | 41500/44000 |
| 570x3590/ | 7540x5100/ | 8540x5100/ | 10750x5100/ |
| 100X4570 | 5400x4570 | 5400x4570 | 5400x4570 |

SPECIFICATION

| MODEL | | B-5122/ BMC-5122 | B-6122/ BMC-6122 | B-8122 /BMC-8122 | B-10122/ BMC-10122 | B-3127/ BMC-3127 | B-4127/ BMC-4127 | B-5127/ BMC-5127 | B-6127/ BMC-6127 | B-8127/ BMC-8127 | B-10127/ BMC-10127 |
|--|------------|---------------------------------|---|---|---|-------------------------|--------------------------|--------------------------|--------------------------|---|---------------------------------------|
| Travel | | | | | | | | | | | |
| X-axis | mm | 5100 | 6100 | 8100 | 10100 | 3100 | 4100 | 5100 | 6100 | 8100 | 10100 |
| Y-axis | mm | | 22 | 00 | | 27 | 00 | | 27 | 00 | |
| Z-axis | mm | | *************************************** | ST 900 (| OP 1100) | | | | | *************************************** | ST 900 (OP 1100) |
| Distance From Spindle Nose To Table Surface | mm | | | 200~1100 (C | P 200~1300) | | | | | 2 | 00~1100 (OP 200~13 |
| Distance between two columns | mm | ******************************* | 23 | 00 | | 28 | 00 | | 28 | 800 | |
| Table | | | | | | | | , | | | |
| Table Dimension (X) | mm | 5000 | 6000 | 8000 | 10000 | 3000 | 4000 | 5000 | 6000 | 8000 | 10000 |
| Table Dimension (Y) | mm | ****** | 21 | 00 | ************************************ | 26 | 00 | ***************** | 26 | 500 | ************************************* |
| T-slots (Size x Number x Pitch) | mm | | 28×10 | 0×200 | | 28×1 | 3×200 | | 28×1 | 3×200 | |
| Max. Loading Capacity | kg | 20000 | 23000 | 26000 | 29000 | 15000 | 18000 | 20000 | 23000 | 26000 | 29000 |
| Spindle | - | | 4 | ht. | h." | ui- | | 4 | da i | | |
| Spindle Motor Output (Continuous/30mins) | kW | | | 22/26 (C | P 30/37) | | | | | | 22/26 (OP 30/37) |
| Spindle Speed (Gear) | rpm | | •••••••••••••••••••••••••••••••••• | ST 6000 / | OP 4000 | | | | | ••••••••••••••••••••••••••••••••••••••• | ST 6000 / OP 4000 |
| Spindle Speed (Direct-driven)(Optional) | rpm | | | OP 8000 / | OP 10000 | | | | | | OP 8000 / OP 1000 |
| Spindle Taper | •••••• | ********** | | BT | 50 | | | ***** | | ****** | BT50 |
| Spindle Bearing Bore Diameter | Ømm | | | | 00 | | L | | | ************************************ | 100 |
| Feed | onin | | | | | | | | | | |
| Rapid Travel Rate (X/Y/Z) | m/min | 15/20/15 | 10/20/15 | 10/15/15 | 8/15/15 | 20/20/15 | 15/20/15 | 12/20/15 | 10/20/15 | 8/2 | 0/15 |
| Cutting Feed Rate | mm/ min | | | | 000 | | h | | | | 10000 |
| Feed Motor | kW | | 6 0/4 | .0/4.0 | | 7.0/4.0/4.0 | 6.0/4.0/4.0 | | | ••••••• | 6.0/4.0/4.0 |
| Accuracy | | | 0.071 | | | 71071107110 | 01071107110 | | | | 010/110/110 |
| Positioning Accuracy (JIS 6338) | mm | | | ±0. | 015 | | | | | | ±0.015 |
| Positioning Accuracy (ISO 8636) | mm | 0.040 | 0.050 | 0.055 | 0.065 | 0.025 | 0.030 | 0.040 | 0.050 | 0.055 | 0.065 |
| Repeatability Accuracy (JIS 6338) | mm | | 1 | ±0. | 003 | | 1 | | | | ±0.003 |
| Repeatability Accuracy (ISO 8636) | mm | 0.030 | 0.0 |)35 | 0.040 | 0.020 | 0.025 | 0.030 | 0.0 |)35 | 0.040 |
| ATC System | | | L | | | | | | | | 1. |
| Tool Magazine Capacity | | | | 30(4 | 0/60) | | | | | | 30(40/60) |
| Tool Diameter (with adjacent tools) | Ømm | | | Ø1 | 25 | | | | | | Ø125 |
| Max. Tool Diameter (without adjacent tools) | Ømm | | | Øź | :15 | | | | | *********************************** | Ø215 |
| Max. Tool Length | mm | | | 44 | 00 | | | | | | 400 |
| Max. Tool Weight | kg | | | | 0 | | | | | | 20 |
| Tool Shank Type | | | | *************************************** | CAT50 | | | | | ****** | BT50/CAT50 |
| Pull Stud | | | | P50 | *************************************** | | | | | | P50T-1 |
| Others | | | | 0 | - 460 C | | | | | | |
| Guideway of X/Y/Z Axis | | | Roller line | ar quideway / Roll | er linear guideway | / Box Wav | | | | Roller linear guide | eway / Roller linear |
| Power Supply | kVA | | | ********************************* | 5 | | | | | | 45 |
| Net Weight (B/BMC) | kg | 41500/44000 | 45500/49000 | 53500/57000 | 61500/65000 | 36500/39000 | 43000/45500 | 48200/50700 | 55500/58000 | 67500/70000 | 79500/82000 |
| Gross Weight (B/BMC) | kg | 45500/48000 | 49500/52000 | 57500/60000 | 65500/68000 | 40500/43000 | 47000/49500 | 52200/54700 | 59500/62000 | 71500/74000 | 83500/86000 |
| Length x Width x Height | mm | 12750×5100/ 5400×4570 | 14800×5100/ 5400×4570 | 18740×5100/ 5400×4570 | 22740×5100/ 5400×4570 | 8540×5600/ 5900×4570 | 10800×5600/ 5900×4570 | 12900×5600/ 5900×4570 | 14800×5600/ 5900×4570 | 18900×5600/ 5900×4570 | 22900×5600/ 5900×4570 |

in KAFO's factory, may not provide inspection at other time after leaving.

5~40°C, the surrounding temperature difference should be within 4°C, 0.67°C per hour, under 4°C within 6 hours.

KAFO sales.

| | B-4131/ BMC-4131 | B-5131/ BMC-5131 | B-6131/ BMC-6131 |
|-------|---------------------|---------------------|---------------------|
| | 4100 | 5100 | 6100 |
| | | 3100 | |
| | | | |
| 300) | | | |
| | | 3200 | |
| | 4000 | 5000 | 6000 |
| | | 2900 | |
| | 19000 | 28×14×200 | 22000 |
| _1 | 18000 | 20000 | 23000 |
| | | | |
|) | | | |
| 0 | | | |
| | | | |
| | | | |
| 1 | 15/20/15 | 12/20/15 | 10/20/15 |
| adan. | | h | |
| | | | |
| | | | |
| | | | |
| | 0.030 | 0.040 | 0.050 |
| aha | | | |
| | 0.025 | 0.030 | 0.035 |
| | 0.025 | 0.030 | 0.035 |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| uide | eway / Box Way | | |
| | 51000/53500 | 57000/59500 | 63000/65500 |
| | 83500/86000 | 61000/63500 | 67000/69500 |
| | 10800×6100/ | 12900×6100/ | 14900×6100/ |

SPECIFICATION

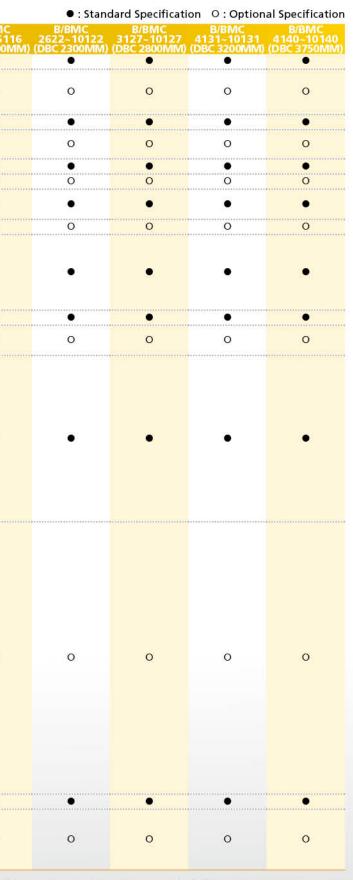
| MODEL | | B-8131/ BMC-8131 | B-10131/ BMC-10131 | B-4140/ BMC-4140 | B-5140/ BMC-5140 | B-6140/ BMC-6140 | B-8140/ BMC-8140 | B-10140/ BMC-1014(|
|--|------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------------|-------------------------|
| Fravel | | | | | | | | |
| K-axis | mm | 8100 | 10100 | 4100 | 5100 | 6100 | 8100 | 10100 |
| /-axis | mm | 31 | 00 | | | 4000 | | |
| 2-axis | mm | ST 900 (| OP 1100) | | | 1100 | •••••• | ••••••• |
| Distance From Spindle Nose To Table Surface | mm | | 1100 0~1300) | | | 200~1300 | | |
| Distance between two columns Fa ble | mm | 32 | 00 | | | 3750 | ****************************** | |
| able Dimension (X) | mm | 8000 | 10000 | 4000 | 5000 | 6000 | 8000 | 10000 |
| able Dimension (Y) | mm | | 00 | | | 3200/3500 | | daaaaadiidaaaaa |
| -slots (Size x Number x Pitch) | mm | | 4×200 | | 28 x | 15×200/28×17× | 200 | |
| Max. Loading Capacity | kg | 26000 | 29000 | 18000 | 20000 | 23000 | 26000 | 29000 |
| Spindle | ĸġ | 20000 | 29000 | 18000 | 20000 | 23000 | 20000 | 23000 |
| pindle pindle Motor Output Continuous/30mins) | kW | | | : | 22/26 (OP 30/37 |) | | |
| pindle Speed (Gear) | rpm | | ****** | S | T 6000 / OP 400 | 10 | ***** | |
| pindle Speed Direct-driven)(Optional) | rpm | | | OI | P 8000 / OP 100 | 00 | | |
| pindle Taper | ********* | | | ••••••• | BT50 | | | |
| pindle Bearing Bore Diameter | Ømm | | | ***** | 100 | | •••••• | |
| eed | Unin | | | | 100 | | | |
| Rapid Travel Rate (X/Y/Z) | m/min | 8/15/15 | 8/15/15 | 15/15/15 | 12/15/15 | 10/15/15 | 8/1 | 5/15 |
| Cutting Feed Rate | mm/ min | | | | 10000 | | | |
| | ******* | | | •••••• | 6 0/4 0/4 0 | | •••••• | ····· |
| eed Motor | kW | | | | 6.0/4.0/4.0 | | | |
| Accuracy | | | | | | | | |
| Positioning Accuracy JIS 6338) | mm | | | | ±0.015 | | | |
| Positioning Accuracy ISO 8636) | mm | 0.055 | 0.065 | 0.03 | 0.04 | 0.050 | 0.055 | 0.065 |
| Repeatability Accuracy JIS 6338) | mm | | | | ±0.003 | | | |
| Repeatability Accuracy ISO 8636) | mm | 0.035 | 0.040 | 0.025 | 0.030 | 0.0 |)35 | 0.040 |
| ATC System | | | | L, | | | | 1 |
| ool Magazine Capacity | | | | | 30(40/60) | | | |
| ool Diameter with adjacent tools) | Ømm | | | | Ø125 | | | |
| Max. Tool Diameter without adjacent tools) | Ømm | | | | Ø215 | | ****** | |
| Max. Tool Length | mm | | | •••••••• | 400 | | ••••••• | |
| Max. Tool Weight | kg | | | | 20 | | •••••• | |
| ool Shank Type | Ng | | | | BT50/CAT50 | | ••••••• | |
| Pull Stud | ••••• | | | •••••• | P50T-1 | | | |
| Others | | | | | F301-1 | | | |
| Guideway of X/Y/Z Axis | | | Pollar | linear quideux | y / Roller linea | r quidoway / Po | Way | |
| | LA /A | | Kollei | iniear guidewa | | guideway / BC | x way | |
| Power Supply | kVA | 75000/77500 | 97000000000 | 62000/65000 | 45 | 75000/70000 | 88000/01000 | 101000/10/00 |
| Net Weight (B/BMC) | kg | 75000/77500 | 87000/89500 | 62000/65000 | 68500/71500 | 75000/78000 | 88000/91000 | 101000/10400 |
| Gross Weight (B/BMC) | kg | 79000/81500 | 91000/93500 | 68000/71000 | 74500/77500 | 81000/84000 | 94000/97000 | 107000/11000 |
| | mm | 18900×6100/ 6400×4570 | 22900×6100/ 6400×4570 | 10800×7000/ 7500×5050 | 12900×7000/ 7500×5050 | 14900×7000/ 7500×5050 | 18900×7000/ 7500×5050 | 22900×7000 7500×5050 |

S.: 1. The positioning accuracy inspection is only allowed to execute in KAFO's factory, may not provide inspection at other time after leaving. 2. The temperature of machine installing environment must be around 5~40°C, the surrounding temperature difference should be within 4°C, 0.67°C per hour, under 4°C within 6 hours.

STANDARD & OPTIONAL LIST

| SPECIFICATION/MODEL | B/BMC 2012-3012 | B/BMC 2015~3015 | B/BM 2616~6 |
|--|--------------------|--------------------|----------------|
| BT-50 Spindle Taper+MAS Pull Stud | DBC 1350MM | (DBC 1650MM) | (DBC 1700 |
| DIN50 Spindle Taper | | | |
| CAT50 Spindle Taper+ANSI Pull Stud | 0 | 0 | 0 |
| Gear Head 4000rpm(30/37kW) | U | U. | Ŭ |
| Gear Head 6000rpm(22/26kW) | • | • | • |
| Gear Head 8000rpm(22/26kW) | | ****** | |
| Z-Axis Rise 200mm/400mm | 0 | 0 | 0 |
| Centralized Lubrication System | • | • | • |
| Four Pieces Splash Guard | 0 | 0 | 0 |
| Semi Enclosure (without Top Cover) | ۲ | ۲ | ٠ |
| Full Enclosure (with Top Cover) | 0 | 0 | 0 |
| Folding Operation Gate | | ********* | •••••• |
| Coolant System | | | |
| (with Pump and Tank) | • | • | • |
| Dual Spiral and Lift-up Chip Conveyor with Bucket | | | |
| ATC30 Tools Magazine | • | • | • |
| ATC40 Tools Magazine | | | |
| ATC60 Tools Magazine | 0 | 0 | 0 |
| Rigid Tapping Function | | | |
| Foot Pedal For Manual Tool Release | | | |
| Movable MPG Handwheel | | | |
| Working Light | | | |
| Tri-Color Status Light | • | • | • |
| RS232 Interface | | | |
| Spray Gun For Cleaning | | | |
| Leveling Bolts and Pads | | | |
| Maintenance and Operating Manuals | | | |
| Linear Scales (X/Y/Z Axis) | | | |
| Coolant Through Tool and Tool Holder | | | |
| Coolant Through Spindle (with 20 Bar Pump) | | | |
| 90° Milling Head | 0 | 0 | |
| (Manual Changing/Indexing) | U | | |
| Universal Milling Head (Manual Changing/Indexing) | | | 0 |
| 90° Indexing | | | U |
| Extension Milling Head | | | |
| Head Storing Swivel Shelf | | | |
| Counterweight Arm-type Operating Control Box | - | - | |
| Foot Rest | | | |
| Automatic Tool Length Measurement | 0 | 0 | |
| Automatic Workpiece Measurement | | | |
| FANUC 0i-MF Controller (8.4LCD) | • | • | • |
| FANUC 31i Controller (10.4LCD) | | . | |
| MITSUBISHI Controller | | | 2.22 |
| Heidenhain Controller | 0 | 0 | 0 |
| CNC Rotary Table | | | |
| | | | |

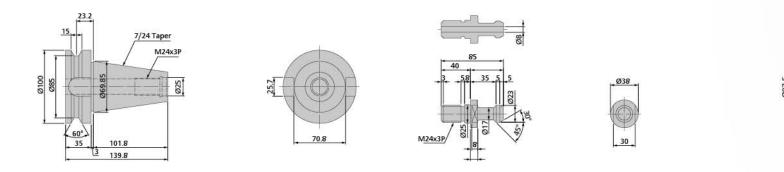
 As for more details, please refer to operating manual or contact with KAFO sales.



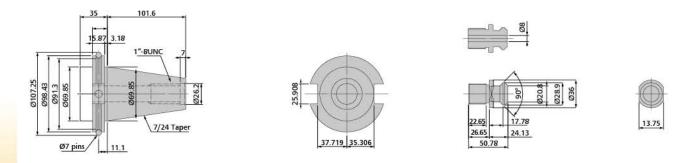
4. The specification is for reference only. KAFO remains the right to modify machine specification, design or property and without prior notice.

TOOL HOLDER & PULL STUD

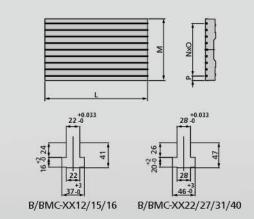
/ MAS BT50 + MAS P50T TOOLING DIM. (CTS)

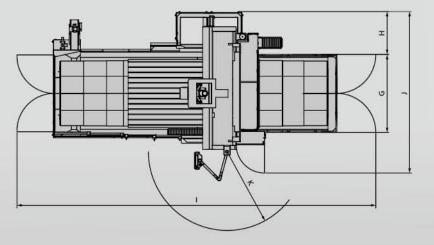


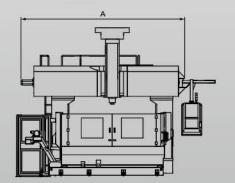
/ V-FLANGE CAT-50 + V-FLANGE CAT-50 TOOLING DIM. (CTS)

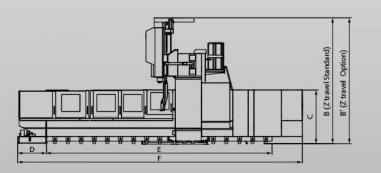


MACHINE LAYOUT & SPACE REQUEST

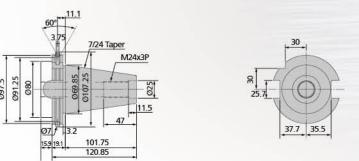




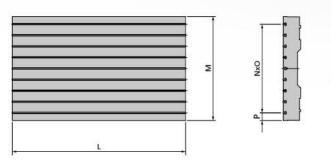




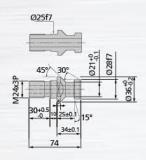
/ DIN69871A(#50) + DIN69872-A(#50) TOOLING DIM. (CTS)



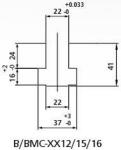
/ TABLE DRAWING

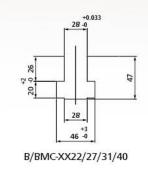


| Model \ Item | Α | В | B' | С | D | E | F | G | н | 1 | J | ĸ | L | М | N | 0 | Р |
|--------------------------|------|------|------|------|------|----------------|----------------|------|-------|----------------|------|-------|--------------|-----------|-----|-------|---------|
| B/BMC-2012 | 3080 | | | | 815 | 4245 | 6040 | 1410 | | 6900 | | | 2000 | 1100 | | 6 | 70 |
| B/BMC-3012 | 5000 | 4340 | 4940 | 1960 | 015 | 6245 | 8040 | 1410 | 1560 | 8900 | 4000 | 1890 | 3000 | 1100 | | v | /0 |
| B/BMC-2015 | 3380 | 4340 | 4940 | 1900 | 830 | 4245 | 6040 | 1710 | 1500 | 7300 | 4000 | 1050 | 2000 | 1400 | | | 60 |
| 3/BMC-3015 | 3300 | | | | 0.50 | 6245 | 8040 | 1710 | | 9300 | | | 3000 | 1400 | | | |
| 8/BMC-2616 | | | | | | 5700 | 7790 | | | 8370 | | | 2500 | | 160 | | |
| /BMC-3116 | | | | | | 6700 | 8840 | | | 9420 | | | 3000 | | | 8 | |
| /BMC-4116 | 3960 | | | 2046 | 1200 | 8700 | 10750 | 1915 | 1595 | 11330 | 5055 | | 4000 | 1500 | | | 110 |
| /BMC-5116 | | | | | | 10700 | 12660 | | | 11280 |] | | 5000 | | | | |
| /BMC-6116 | | | | | | 12700 | 14570 | | | 13280 | | | 6000 | | | | |
| /BMC-2622 | | | | | | 5620 | 7540 | | | 9350 | | 1 | 2500 | | | | |
| /BMC-3122 | | | | | | 6620 | 8540 | | | 10350 | | - | 3000 | | | | |
| /BMC-4122 | | | | | | 8620 | 10750 | | - | 12560 | | | 4000 | | | | |
| /BMC-5122 | 4760 | | | 2050 | | 10620 | 12750 | 2470 | | 14560 | 5600 | | 5000 | 2100 | | 9 | 150 |
| /BMC-6122 | | | | | | 12620 | 14800 | | | 16610 | | | | | | | |
| /BMC-8122 | | 4570 | | | 4020 | 16620 | 18740 | | 4.000 | 20550 | | | 6000 | | | | |
| /BMC-10122 | | 4570 | | | 1030 | *********** | 22740 | | 1600 | 24550 | | | 20.00 | | | | |
| /BMC-3127 | | | | | | 6620 | 8540 | | | 10400 | | | 3000 | - | | | |
| /BMC-4127 | | | 5050 | | | 8620 | 10750 | | | 12580 | | 3300 | 4000 | | | | |
| B/BMC-5127 B/BMC-6127 | 5300 | | | 2060 | | 10620 | 12800 14860 | 2970 | | 14630 | 6110 | 0.000 | 5000 | 2600 | | 12 | 100 |
| BMC-8127 | | | | | | 12620 16620 | 14860 | | | 17100 21600 | | | 6000 8000 | | 200 | | |
| /BMC-10127 | | | | | | 20620 | 22950 | | | 26100 | | | 10000 | | 200 | | |
| /BMC-4131 | | | | | | 8620 | 10800 | | | 13425 | | | 4000 | | | | |
| /BMC-5131 | | | | | | 10620 | 12900 | | | 15425 | | | 5000 | | | | |
| /BMC-6131 | 5710 | | | 2045 | 1045 | 12620 | 14900 | 3420 | 1710 | 17425 | 6800 | | 6000 | 2900 | | 13 | 150 |
| /BMC-8131 | 5710 | | | 2045 | 1045 | 16620 | 18900 | 3420 | 17 10 | 21425 | 0000 | | 8000 | 2500 | | 1.5 | 150 |
| /BMC-10131 | | | | | | 20620 | 22900 | | | 25425 | - | | 10000 | | | 0 | |
| /BMC-4140 | | | | | | 8620 | 12250 | | | 13350 | | - | 4000 | | | | |
| /BMC-5140 | | | | | | 10620 | 14250 | | | 15350 | | | 5000 | | | | |
| /BMC-6140 | 6750 | 5050 | | 2090 | 1030 | 12620 | 16250 | 3960 | 1790 | 17350 | 6490 | | | 3200/3500 | | 14/16 | 200/150 |
| /BMC-8140 | | | | | | ********** | | | | 19350 | | | 8000 | | | | |
| B/BMC-10140 | | | | | | 20620 | | | | 21350 | 1 | | 10000 | | | | |









Unit : mm

B/BMC SERIES DOUBLE COLUMN MACHINING CENTEF

GREATER 5-FACE MACHINING PERFORMANCE COULD BE SATISFIED CUSTOMER'S MULTI-PROCESSING REQUIREMENTS

 This series with special designed, with strongest structure, greater rigidity body, using the vertical and horizontal head and tools, automatic exchange, take high rigidity gear box vertical and horizontal spindle, heavy cutting, processing high efficiency, precision machining parts with good quality and accuracy.

After setting the workpiece, 5-face could be automatic completion of the processing. This product is especially suitable for the manufacture of large 5-face precision components, is the perfect partner of your processing.

OPTIONAL MILLING HEAD BY REQUEST

• 90° Head / Universal Head / Extension Head / Speed-up type Extension Head







kZFO





RV SERIES : SIMPLE AND CONVENIENT HEAD CHANGING UNIT

- Optional automatic head change.
- Optional auto tool changer (max.Ø215mm, length 400mm).
- Angle milling head has unclamped hydraulic cylinder, tool can be changed at any position.
- Unique and simple head changing unit doesn't occupy working space.
- Head changing unit has enclosure guards to protect against dirt and chips.

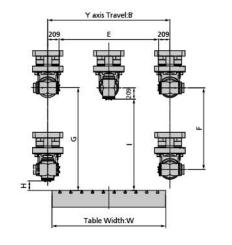


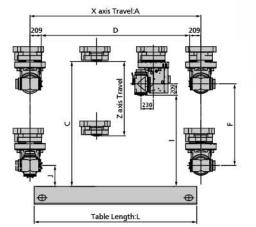




/ KAFO AUTOMATIC UNIVERSAL HEAD







Y axis Travel:B ELAPE TAF Ŧ 5.7

/ SPEED-UP TYPE EXTENSION HEAD

| ITEM / SPEC | KAFO SPEED-UP TYPE EXTENSION HEAD | ITEM / SPEC | KAFO SPEED-UP TYPE EXTENSION HEAD |
|------------------------|-------------------------------------|----------------------|-----------------------------------|
| Indexing | Curvic Coupling | Spindle Speed (Max.) | STD10000rpm / OP12000rpm |
| Lock Way | Hydrualic Auto Lock | Clamping Force | 1350~1650kgs |
| Spindle HP | 18.5kW | Lubrication | Oil-mist |
| Transfer Torque (Max.) | Low 29Nm /10min / High 60Nm /1.5min | L x W x H | 475 x 475 x 818mm |
| Spindle Taper | BBT-50 | Total Weight | 460kgs |

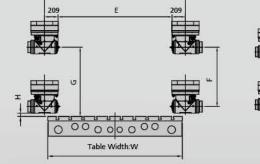
| Z AXIS TRAVEL | HEIGHT OF COLUMN | Α | В | с | D | E | F |
|---------------|---------------------|---------------|---------------|------|-----|-----|-----|
| 1100 | 1910 | X Axis Travel | Y Axis Travel | 1300 | 200 | 670 | 470 |
| 1300 | 2110 | X Axis Travel | Y Axis Travel | 1500 | 200 | 870 | 670 |

| ITEM / SPEC | KAFO AUTOMATIC UNIVERSAL HEAD | ITEM / SPEC | KAFO AUTOMATIC UNIVERSAL HEAD |
|------------------------|---|---------------|-------------------------------|
| Indexing | C/A Axis Curvic Coupling (5° X 72 indexing) | Spindle Speed | 3500 rpm |
| Rotating | Auto | Put-in Force | 1300~1500kgs |
| Spindle HP | 25 kW | Lubrication | Oil-Mist |
| Transfer Torque (Max.) | 750 Nm | L x W x H | 740 x 566 x 806 |
| Spindle Taper | BBT50 | Total Weight | 686kgs |
| | | | Unit : mn |

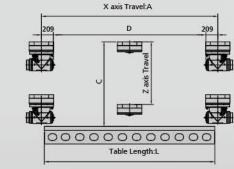
| | | | | | | | | | | Unit | |
|---------------|---------------------|---------------|---------------|------|-------------------|-------------------|-----|------|-----|------|-----|
| Z AXIS TRAVEL | HEIGHT OF COLUMN | A | В | с | D | E | | G | н | | |
| 1100 | 1910 | X Axis Travel | Y Axis Travel | 1300 | X Axis Travel-418 | Y Axis Travel-418 | 491 | 900 | 200 | 691 | 409 |
| 1300 | 2110 | X Axis Travel | Y Axis Travel | 1500 | X Axis Travel-418 | Y Axis Travel-418 | 691 | 1100 | 200 | 891 | 409 |

/ KAFO AUTOMATIC 90° ANGLE HEAD





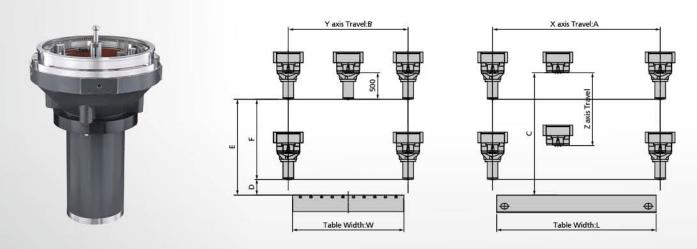
Y axis Travel:B



| ITEM / SPEC | KAFO AUTOMATIC 90° ANGLE HEAD | ITEM / SPEC | KAFO AUTOMATIC 90° ANGLE HEAD |
|------------------------|------------------------------------|---------------|-------------------------------|
| Indexing | Curvic Coupling (5° X 72 indexing) | Spindle Speed | 4500 rpm |
| Rotating | Auto | Put-in Force | 1300~1500kgs |
| Spindle HP | 25 kW | Lubrication | Oil-Mist |
| Transfer Torque (Max.) | 750 Nm | L x W x H | 485 x 430 x 506 |
| Spindle Taper | BBT50 | Total Weight | 350kgs |

| Z AXIS TRAVEL | HEIGHT OF COLUMN | Α | В | с | D | E | F | G | н |
|---------------|---------------------|---------------|---------------|------|-------------------|-------------------|------|------|----|
| 1100 | 1910 | X Axis Travel | Y Axis Travel | 1300 | X Axis Travel-418 | Y Axis Travel-418 | 927 | 1080 | 50 |
| 1300 | 2110 | X Axis Travel | Y Axis Travel | 1500 | X Axis Travel-418 | Y Axis Travel-418 | 1127 | 1280 | 50 |

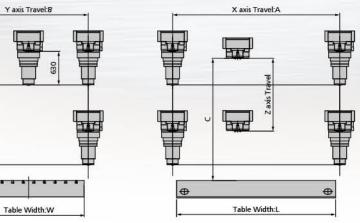
/ EXTENSION HEAD



| ITEM / SPEC | KAF | O EXTENSION H | IEAD | ITEM / SPE | с | KAFO EXTENSIO | N HEAD | | |
|----------------------|---------------------|--------------------|---------------|------------------|-------|-----------------|-----------|--|--|
| Indexing | | Curvic Coupling | | Spindle Speed (I | Max.) | 3000rpm | | | |
| Lock Way | l | Hydrualic Auto Loo | :k | Clamping For | ce | 1800~2100kgs | | | |
| Spindle HP | | 25kW | | Lubrication | 1 | Grease Lubrica | ition | | |
| Transfer Torque (Max | (.) | 728Nm | | L x W x H | | 430 x 430 x 686 | 5mm | | |
| Spindle Taper | | BBT-50 | | Total Weigh | t | 320kgs | | | |
| | | | | | | | Unit : mn | | |
| Z AXIS TRAVEL | HEIGHT OF COLUMN | А | В | с | D | | | | |
| 1100 | 1910 | X Axis Travel | Y Axis Travel | 1300 | 200 | 800 | 600 | | |

| ITEM / SPEC | K | AFO EXTENSION H | IEAD | ITEM / SPI | EC | KAFO EXTENSIO | N HEAD | |
|---------------------|-----------------------------|--------------------|---------------|---------------|--------|--------------------|-----------|--|
| Indexing | | Curvic Coupling | | Spindle Speed | (Max.) | 3000rpm | | |
| Lock Way | | Hydrualic Auto Loo | :k | Clamping Fo | orce | 1800~2100kgs | | |
| Spindle HP | | 25kW | | Lubrication | | Grease Lubrication | | |
| Transfer Torque (Ma | ransfer Torque (Max.) 728Nm | | | L x W x H | | 430 x 430 x 686mm | | |
| Spindle Taper | | BBT-50 | Total Weig | ht 🗍 | 320kgs | | | |
| | | | | | | | Unit : mr | |
| Z AXIS TRAVEL | HEIGHT OF COLUMN | А | В | c | D | | | |
| 1100 | 1910 | X Axis Travel | Y Axis Travel | 1300 | 200 | 800 | 600 | |
| 1300 | 2110 | X Axis Travel | Y Axis Travel | 1500 | 200 | 1000 | 800 | |

TASTE SIX SENSES PERFORMANCE



TASTE | SIX SENSES PERFORMANCE 30

SPECIFICATION

| MODEL | | RV-2622 | RV-3122 | RV-4122 | RV-5122 | RV-6122 | RV-2627 | RV-3127 | RV-4127 | RV-5127 |
|--|------------|--------------------|--------------------|------------------------|---------------------|---|--------------------|---|---|---------------------|
| Travel | | | | | | | | | | |
| X-axis | mm | 2600 | 3100 | 4100 | 5100 | 6100 | 2600 | 3100 | 4100 | 5100 |
| Y-axis | mm | | | 2200 | | | | | | 2700 |
| Z-axis | mm | | | 1100 /OP1300 | | | | | | 1100/ OP1300 |
| Distance From Spindle Nose To Table Surface | mm | | | 200-1300 /OP200-150 | 0 | | | | | 200-1300/ OP200- |
| Distance between two columns | mm | | | 1700 | | | | *************************************** | *************************************** | 2300 |
| Table | | | | | | | | | | |
| Table Dimension (X) | mm | 2500 | 3000 | 4000 | 5000 | 6000 | 2500 | 3000 | 4000 | 5000 |
| Table Dimension (Y) | mm | | | 1500 | | | | | | 2100 |
| T-slots (Size x Number x Pitch) | mm | | | 22x9x160 | | | | | | 28x10x200 |
| Max. Loading Capacity | kg | 9000 | 11000 | 14000 | 17000 | 20000 | 11000 | 14000 | 17000 | 20000 |
| Spindle | | | | | | | | | | |
| Spindle Motor Output (Continuous/30mins) | kW | | | 22/26 (OP 30/37) | | | | | | 22/26 (OP 30/3 |
| Spindle Speed (Gear) | rpm | | | 6000 | | | | | | 6000 |
| Spindle Speed (Gear)(Optional) | rpm | | | 4000 | | | | | | 4000 |
| Spindle Taper | | | | BT-50 | | | | | | BT-50 |
| Spindle Bearing Bore Diameter | Ømm | | | 100 | | | | | | 100 |
| Feed | | | | | | | | | | |
| Rapid Travel Rate (X/Y/Z) | m/min | 24/2 | 4/15 | 20/24/15 | 15/20/15 | 10/20/15 | 20/2 | 20 / 15 | 15/2 | 20 / 15 |
| Cutting Feed Rate | mm/ min | | | 10000 | | | | | | 10000 |
| Feed Motor | kW | | 7.0/4.0/4.0 | | 6.0/4 | .0/4.0 | 7.0/4 | .0 / 4.0 | | |
| Accuracy | | | | | | | | | | |
| Positioning Accuracy (JIS 6338) | mm | | | ±0.01 | | | ±0 | .01 | | |
| Positioning Accuracy (ISO 8636) | mm | 0.022 | 0.025 | 0.03 | 0.04 | 0.05 | 0.022 | 0.025 | 0.03 | 0.04 |
| Repeatability Accuracy (JIS 6338) | mm | | | ±0.003 | | | | | | ±0.003 |
| Repeatability Accuracy (ISO 8636) | mm | 0.017 | 0.02 | 0.025 | 0.03 | 0.035 | 0.017 | 0.02 | 0.025 | 0.03 |
| ATC System | | | | | | | | | | |
| Tool Magazine Capacity | | | | 60(40/90/120) | | | | | | 60(40/90/120) |
| Tool Diameter (with adjacent tools) | Ømm | | | Ø125 | | | | | | Ø125 |
| Max. Tool Diameter (without adjacent tools) | Ømm | | | Ø215 | | | | | | Ø215 |
| Max. Tool Length | mm | | | 400 | | *************************************** | | | *************************************** | 400 |
| Max. Tool Weight | kg | | | 20 | | | | | | 20 |
| Tool Shank Type | | | | BT50/CAT50 | | | | | | BT50/CAT50 |
| Pull Stud | | | | P50T-1 | | | | | | P50T-1 |
| Others | | | | | | | | | | |
| Guideway of X/Y/Z Axis | | | Roller linear guid | eway / Roller linear g | uideway / Box Way | | | | Roller linear guide | eway / Roller linea |
| Power Supply | kVA | | | 45 | | | | | | 45 |
| Net Weight (RV) | kg | 35000 | 37000 | 41000 | 45000 | 52500 | 39000 | 41000 | 45000 | 49000 |
| Gross Weight (RV) | kg | 38500 | 40500 | 45000 | 49000 | 57000 | 43000 | 45000 | 49000 | 53000 |
| Length x Width x Height | mm | 7790x6223x 5350 | 8660x6223x 5350 | 10750x6223x 5050 | 12850x6223x 5050 | 14950x6223x 5050 | 7680x6920x 5350 | 8680x6920x 5350 | 10680x6920x 5350 | 12680x6920x 5350 |

| RV-6127 | RV-8127 | RV-10127 |
|---|-------------|---|
| 6100 | 8100 | 10100 |
| | | |
| 0 | | |
| | | Personal Computer States and a second state of the second state |
| 6000 | 8000 | 10000 |
| 23000 | 26000 | 29000 |
| | | |
| | | |
| **** | **** | |
| | | |
| | 10/20/15 | 8/20/15 |
| 6.0 / 4.0 / 4.0 | | |
| ±0.015 | | |
| 0.05 | 0.055 | 0.065 |
| | | |
| 0.035 | 0.035 | 0.04 |
| | х. | |
| | | |
| | | |
| ••••••••••••••••••••••••••••••••••••••• | | |
| | | ••••••••••••••••••••••••••••••••••••••• |
| uideway / Box Way | | |
| 56500 | 71500 | 86500 |
| 62500 | 79500 | 96500 |
| | | 22680x6920 |
| 14680x6920x | 18680x6920x | |

SPECIFICATION

| MODEL | | RV-3135 | RV-4135 | RV-5135 | RV-6135 | RV-8135 | RV-10135 | RV-4140 | RV-5140 | RV-6140 | RV-8140 | RV-10140 | RV-4142 | RV-5142 | RV-6142 | RV-8142 | RV-10142 | |
|--|------------|--|---------------------|--------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------------|-------------------------------|---------------------|---------------------------------------|---------------------|---------------------|---|---------------------|--------------------|--|
| Travel | | | | | | | | | | | | | | | | | | |
| X-axis | mm | 3100 | 4100 | 5100 | 6100 | 8100 | 10100 | 4100 | 5100 | 6100 | 8100 | 10100 | 4100 | 5100 | 6100 | 8100 | 10100 | |
| Y-axis | mm | | | 3! | 500 | | | | ************************* | 4000 | | | | | 4200 | | | |
| Z-axis | mm | ••••••••••••••••••••••••••••••••••••••• | | 1100/ | OP1300 | | | | | | | 1100/ | OP1300 | | *************************************** | | | |
| Distance From Spindle Nose To Table Surface | mm | | | 200 | ~1300 | | | 200~1300 | | | | | 200-1300/OP200-1500 | | | | | |
| Distance between two columns | mm | ********** | | 2 | 700 | | | | *********************** | 3200 | | | | | 3750 | ******* | | |
| Table | | | | | | | | | | | | | 1 | | | | | |
| Table Dimension (X) | mm | 3000 | 4000 | 5000 | 6000 | 8000 | 10000 | 4000 | 5000 | 6000 | 8000 | 10000 | 4000 | 5000 | 6000 | 8000 | 10000 | |
| Table Dimension (Y) | mm | * *********************************** | | ******************************** | 100 | .4 | | | | 2600 | | | | 4 | 3200/OP3500 | | ********* | |
| T-slots (Size x Number x Pitch) | mm | | | | 0×200 | | | | | 28×10×200 | | | | 28x | 15x200 / 28x17 | | | |
| Max. Loading Capacity | kg | 14000 | 17000 | 20000 | 23000 | 26000 | 29000 | 18000 | 20000 | 23000 | 26000 | 29000 | 18000 | 20000 | 23000 | 26000 | 29000 | |
| Spindle | Ng | | | | LUUUU | 20000 | 1. 20000 | | 20000 | | Louis | 20000 | | 20000 | | 20000 | | |
| Spindle Motor Output (Continuous/30mins) | kW | | | 22/26 (0 | OP 30/37) | | | | | | | 22/26 (0 | OP 30/37) | | | | | |
| Spindle Speed (Gear) | rpm | | | | 000 | | | | | | ••••••••• | 6(| 000 | | | ••••••• | | |
| Spindle Speed (Gear)(Optional) | rpm | ******** | | | 000 | | | | | ***** | | | 000 | | | | | |
| Spindle Taper | | ********** | | | 50 | | | | | *********************** | | | 50 | | ****** | | | |
| Spindle Bearing Bore Diameter | Ømm | | | | 00 | | | | | | ******** | | 00 | | ****** | | | |
| Feed | onnin | | | | 00 | | | 1 | | | | Į. | 00 | | | | | |
| Rapid Travel Rate (X/Y/Z) | m/min | 20/20/15 | 15/2 | 20/15 | 10/20/15 | 10/15/15 | 8/15/15 | 15/20/15 | 12/20/15 | 10/20/15 | 8/1 | 5/15 | 15/15/15 | 12/15/15 | 10/ | 15/15 | 8/15/15 | |
| Cutting Feed Rate | mm/ min | 20/20/13 | | ****************************** | 0000 | | | 15/20/15 | | 10/20/15 | J | | 000 | | | | | |
| Feed Motor | kW | 7.0/4.0/4.0 | T | ••••••• | 6.0/4.0/4.0 | | | | •••••• | | | 6.0/4 | .0/4.0 | | | | | |
| Accuracy | K V V | | | | | | | | | | | 0.0/4 | | | | | | |
| Positioning Accuracy (JIS 6338) | mm | | | ±0 | .015 | | | | | | | ±0 | .015 | | | | | |
| Positioning Accuracy (ISO 8636) | mm | 0.025 | 0.030 | 0.04 | 0.05 | 0.055 | 0.065 | 0.030 | 0.040 | 0.050 | 0.055 | 0.065 | 0.03 | 0.04 | 0.05 | 0.055 | 0.065 | |
| Repeatability Accuracy | mm | | | ±0 | .003 | | | | | | | ±0. | .003 | | | | | |
| (JIS 6338) Repeatability Accuracy | | 0.02 | 0.025 | Γ | | 0.035 | 0.040 | 0.025 | 0.020 | 0.035 | 0.025 | 1 | 1 | 0.03 | 0.025 | 0.035 | 0.04 | |
| (ISO 8636) | mm | 0.02 | 0.025 | 0.030 | 0.035 | 0.035 | 0.040 | 0.025 | 0.030 | 0.035 | 0.035 | 0.040 | 0.025 | 0.03 | 0.035 | 0.035 | 0.04 | |
| ATC System | | | | | | | | | | | | | | | | | | |
| Tool Magazine Capacity | | | | 40/60 | /90/120 | | | | | | | 40/60/ | /90/120 | | | | | |
| Tool Diameter (with adjacent tools) | Ømm | | | Ø | 125 | | | Ø125 | | | | | | | | | | |
| Max. Tool Diameter (without adjacent tools) | Ømm | | | Ø | 215 | | | | | | | Ø | 215 | | | | | |
| Max. Tool Length | mm | ******************************** | | 4 | 00 | | | 400 | | | | | | | | | | |
| Max. Tool Weight | kg | | | | 20 | | | | | ***************************** | | 2 | 20 | | | | | |
| Tool Shank Type | | ************** | | BT50 | /CAT50 | | | | | ***************************** | | BT50/ | CAT50 | | *********************** | | | |
| Pull Stud | | | ********** | ************************************ | 0T-1 | | | | | *********************** | | *********************************** | 0T-1 | | | | | |
| Others | | | | | | | | | | | | | | | | | | |
| Guideway of X/Y/Z Axis | | | Roller linea | ar guideway / Rol | ler linear guidewa | y / Box Way | | | | | Roller linear | guideway / Roll | er linear guide | way / Box Way | | | | |
| Power Supply | kVA | •••••• | | ************************************ | 45 | | | | •••••• | ••••••• | | ************************************* | 15 | | •••••• | | | |
| Net Weight (RV) | kg | 43000 | 47500 | 52000 | 56500 | 65500 | 74500 | 49000 | 55000 | 61000 | 73000 | 85000 | 69500 | 74500 | 82500 | 92500 | 102500 | |
| Gross Weight (RV) | kg | 47000 | 51500 | 56000 | 60500 | 69500 | 78500 | 53000 | 59000 | 65000 | 77000 | 89000 | 75500 | 80500 | 88500 | 98500 | 106500 | |
| | | | | | | | | | | | | | | | | | | |
| Length x Width x Height | mm | 8650×6960× 5240 | 10650×6960× 5240 | 12650×6960× 5240 | 14650×6960× 5240 | 18650×6960× 5240 | 22650×6960× 5240 | 10650×7460× 5240 | 12670×7460× 5240 | 14670×7460× 5240 | 18670×7460× 5240 | 22670×7460× 5240 | 12250x8365x 5350 | 14250x8365x 5350 | 16250x8365x 5350 | 20250x8365x 5350 | 24250x8365 5350 | |

| TASTE | SIX SENSES | PERFORMANCE | 34 |
|-------|------------|-------------|----|

| 5000 | 20000 | 23000 | 20000 | 29000 |
|--------|----------|-------|-------|---------|
| | `` | | | |
| 7) | | | | |
| | | | | |
| | | | | |
| ***** | ***** | | | |
| | | | | |
| | | | | |
| /15/15 | 12/15/15 | 10/1 | 5/15 | 8/15/15 |

| | , | | | |
|------|-------|----------------|-------------|-------|
| | 200 | -1300/OP200-1 | | |
| | | 3750 | •••••••••• | |
| 000 | 5000 | 6000 | 8000 | 10000 |
| | | 3200/OP3500 | | |
| | 28x | 15x200 / 28x17 | (200 | |
| 3000 | 20000 | 23000 | 26000 | 29000 |

| | _ |
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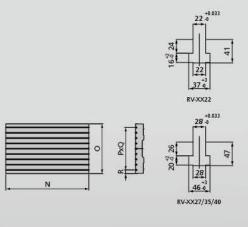
RV SERIES DOUBLE COLUMN MACHINII Ę

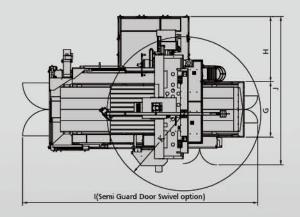
SPECIFICATION

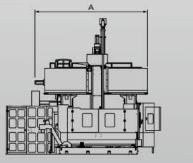
| SPECIFICATION/MODEL | RV-2622~6122 (DBC 1700 MM) | RV-2627~10127 (DBC 2300 MM) | RV-3135~10135 (DBC 3750 MM) | RV-4140~10140 (DBC 3750 MM) | RV-4142~10142 (DBC 3750 MM) |
|--|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| BT-50 Spindle Taper+MAS Pull Stud | ٠ | • | • | • | ٠ |
| DIN50 Spindle Taper | | | | | |
| CAT50 Spindle Taper+ANSI Pull Stud | 0 | 0 | 0 | 0 | 0 |
| Gear Head 4000rpm(30/37kW) | | | | | |
| Gear Head 6000rpm(22/26kW) | • | • | • | • | • |
| Gear Head 8000rpm(22/26kW) | 0 | 0 | 0 | 0 | 0 |
| Z-Axis Rise 200mm/400mm | U | v | U. | v | ~ |
| Centralized Lubrication System | | | | | |
| Four Pieces Splash Guard | | | | - | |
| Semi Enclosure (without Top Cover) | 0 | 0 | 0 | 0 | 0 |
| Full Enclosure (with Top Cover) | - | _ | - | _ | _ : |
| Folding Operation Gate | 0 | 0 | 0 | 0 | 0 |
| Coolant System (with Pump and Tank) | | | | | |
| Dual Spiral and Lift-up Chip Conveyor with Bucket | • | | • | 1000 | • |
| ATC40 Tools Magazine | 0 | 0 | 0 | 0 | 0 |
| ATC60 Tools Magazine | • | • | • | • | • |
| ATC90 Tools Magazine | 0 | 0 | 0 | 0 | 0 |
| ATC120 Tools Magazine | U | 0 | U | 0 | U |
| Rigid Tapping Function | | | | | |
| Foot Pedal For Manual Tool Release | | | | | |
| Movable MPG Handwheel | | | | | |
| Working Light | • | ۲ | • | • | • |
| Tri-Color Status Light | | | | | |
| RS232 Interface | | | | | |
| Spray Gun For Cleaning | | | | | |

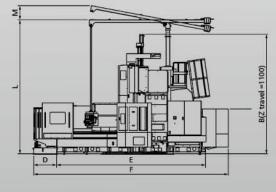
| SPECIFICATION/MODEL | RV-2622~6122 (DBC 1700 MM) | RV-2627~10127 (DBC 2300 MM) |
|--|-------------------------------|--------------------------------|
| Leveling Bolts and Pads | | |
| Manual and operate books | - | - |
| Linear Scales (X/Y/Z Axis) | | |
| Coolant Through Tool and Tool Holder | | |
| Coolant Through Spindle (20 Bar) | | |
| 90° Angle Milling Head (Auto Change/Indexing) | | |
| Universal Milling Head (Manual Changing/Indexing) | 0 | 0 |
| 30° angle milling head (Manual Changing/Indexing) | | |
| Extension Milling Head | | |
| Head Storing Swivel Shelf | | |
| Arm-type Operating Control Box | • | • |
| Foot Rest | | |
| Automatic Tool Length Measurement | 0 | о |
| Automatic Workpiece Measurement | | |
| FANUC 0i-MF Controller with 8.4"LCD Panel | ٠ | ٠ |
| FANUC 31i Controller with 10.4"LCD Panel | | |
| FANUC 32i Controller with 10.4"LCD Panel | 0 | 0 |
| CNC Rotary Table | | |

MACHINE LAYOUT & SPACE REQUEST

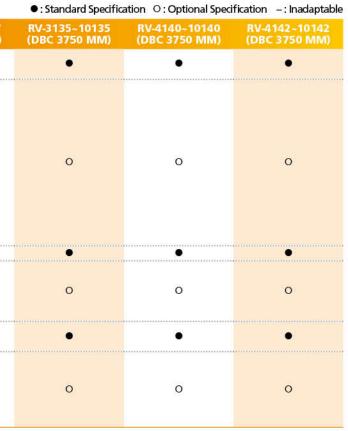








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|--------------|------|--------|------|--------|-------|-------|-------|---------|-------|-------|----------|------|------|-------|------|-----|-----|------------------|--|
| Model \ Item | Α | В | с | D | E | F | G | н | 1 | J | К | L | М | Ν | 0 | Р | Q | R | |
| RV-2622 | | | | | 5700 | 7790 | | | 9280 | | | | | 2500 | | | | | |
| RV-3122 | | | | | 6700 | 8660 | | | 10150 | | | | | 3000 | | | | | |
| RV-4122 | 4760 | | | | 8700 | 10750 | 1910 | 2782 | 12240 | 6420 | | | | 4000 | 1500 | 160 | 8 | 110 | |
| RV-5122 | | | | | 10700 | 12850 | | | 14340 | | | | | 5000 | | | | | |
| RV-6122 |] | | | | 12700 | 14950 | | | 16440 | | | | | 6000 | ** | | | No. Concerts and | |
| RV-2627 | | 1 | | | 5620 | 7680 | | | 9455 | | 1 | | | 2500 | | | | | |
| RV-3127 | 1 | | | | 6620 | 8680 | | | 10455 | | | | | 3000 | | | | | |
| RV-4127 | 1 | | | | 8620 | 10680 | | | 12455 | | | | | 4000 | | | | | |
| RV-5127 | 5050 | | | | 10620 | 12680 | 2470 | 2900 | 14455 | 7100 | | | | 5000 |] | | | | |
| RV-6127 | | | | | 12620 | 14680 | | | 16455 | | | | | 6000 | | | | | |
| RV-8127 | | | 1.0 | | 16620 | 18680 | | | 20455 | | | | | 8000 |] | | | | |
| RV-10127 | | | | | 20620 | 22680 | | | 24455 | | | | | 10000 | 2100 | | 9 | 150 | |
| RV-3135 | | 1 | | 6620 | 8650 | | | 10820 | | 1 | | | 3000 | 1 | | | | | |
| RV-4135 | | | | | | 8620 | 10860 | i i | | 12820 | | | | | 4000 | | | | |
| RV-5135 | FOFO | 5050 | 2060 | 0 1030 | 10620 | 12910 | 2920 | | 14820 | 7450 | 4000 | 5350 | 800 | 5000 | | | | | |
| RV-6135 | 5950 | | | | 12620 | 14860 | | | 16820 | 666 | 0.000000 | | | 6000 | | | - | | |
| RV-8135 | | | | | 16620 | 18770 | | | 20820 | | | | | | 8000 |] | 200 | | |
| RV-10135 | 1 | | | | 20620 | 22770 | | 2000 | 24820 | | | | | 10000 | | 200 | | | |
| RV-3140 | | 1 | | | 6620 | 8650 | | 2800 | 10820 | | | | | 3000 | | | | | |
| RV-4140 | | | | | 8620 | 10860 | | | 12820 | | | | | 4000 | 1 | | | | |
| RV-5140 | C400 | | | | 10620 | 12910 | 2420 | | 14820 | 7050 | | | | 5000 | 2000 | | 17 | 100 | |
| RV-6140 | 6480 | | | | 12620 | 14860 | 3420 | | 16820 | 7950 | | | | 6000 | 2600 | | 12 | 100 | |
| RV-8140 | | | | · | 16620 | 18770 | | | 20820 | | | | | 8000 | 1 | | | | |
| RV-10140 | | | | | 20620 | 22770 | | | 24820 | | | | | 10000 | 1 | | | - | |
| RV-4142 | | 1 | | | 8620 | 8650 | | punnuo. | 12820 | | 1 | | | 4000 | | | | | |
| RV-5142 | | | | | 10620 | 10860 | | | 14820 | | | | | 5000 | 1 | | | | |
| RV-6142 | 6702 | | | | 12620 | 12910 | 3960 | 2892 | 16820 | 8581 | | | | 6000 | 3200 | | 14 | 200 | |
| RV-8142 | | | | | 16620 | 14860 | | | 20820 | | | | | 8000 | 1 | | | | |
| RV-10142 | | | | | 20620 | 18770 | | | 24820 | | | | | 10000 | | | | | |



RV SERIES DOUBLE COLUMN MACHINING CENTER

TASTE SIX SENSES PERFORMANCE 36

FEATURES

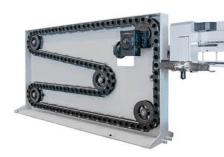
- Three axes travel (X:4200, Y:3700, Z:1100mm) is bigger than other manufacturer.
- Three axes rapid speed with cooling system through ballscrew (X:20,Y20,Z:20m/min) : FASTEST
- W axis travel standard : 1000mm, option : 1700mm
- Horizontal Spindle Speed 3500rpm : BEST

 Attached head changer and head storage swivel shelf module could be chosen for saving space. В

- Ballscrew supporting system
- X axis ballscrew nut cooling
- Adapting linear guideway in X,Y,Z and W



- A: Automatic attached head change
- C: Arm type operating control box with weight balance system could be upraise or go down for the operator convenient operation (option).



- B: Automatic vertical and horizontal ATC system
- D: X, Y and Z axes ballscrew with cooling system through ballscrew to alleviate thermal expansion, resulting in higher positioning accuracy.
- XModels with travel over 4m possess supporting way for X-axis to solve the problems of overhanging and vibration.



/ ENCLOSED TYPE AUTO SLIDING DOOR (EXCLUSIVE)





KZFO

R MAR A

/ HEAD PART

37





ARM TYPE MAGAZINE STRUCTURE



/ BALL SCREW

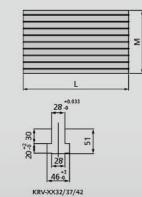
SPECIFICATION

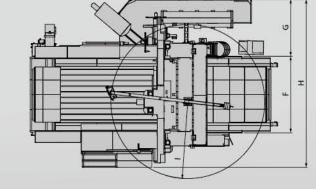
| MODEL | | KRV4232/5232/6232/ 8232/10232 | KRV4237/5237/6237/ 8237/10237 | KRV4242/5242/6242/ 8242/10242 | | | | | | |
|---|--------|----------------------------------|----------------------------------|----------------------------------|--|--|--|--|--|--|
| Travel | | | | | | | | | | |
| X-axis (Left and Right) | mm | | 4200/5200/6200/8200/10200 | | | | | | | |
| Y-axis (Back and Front) | mm | 3200 | 3700 | 4200 | | | | | | |
| Z-axis (Up and Down) | mm | | Standard 900 / Optional 1100 | | | | | | | |
| W-axis (Up and Down) Crossrail | mm | | Standard 1000 / Optional 1700 | | | | | | | |
| Distance From Spindle Nose To Table Surface | mm | | -150~1750/-150~2650 | | | | | | | |
| Distance Between Two Columns | mm | 2700 | 3200 | 3700 | | | | | | |
| Table | | | | | | | | | | |
| Table Dimension (X Direction) | mm | | 4000/5000/6000/8000/10000 | | | | | | | |
| Table Dimension (Y Direction) | mm | 2000 | 2500 | 3000 | | | | | | |
| T-slots (Size x Number x Pitch) | mm | 28×8×250 | 28×10×250 | 28×12×250 | | | | | | |
| Max. Loading Capacity | tons | | 25/30/30/30/30 | | | | | | | |
| Spindle | | | | | | | | | | |
| Spindle Motor Output (Continuous/30mins) | kW | | 37/45 | | | | | | | |
| Spindle Speed (Built-in grease) Standard | rpm | | 6000 | | | | | | | |
| Spindle Speed (Built-in Oil-Air) Option | rpm | | 8000 | | | | | | | |
| Spindle Taper | | | #50 | | | | | | | |
| Spindle Bearing Bore Diameter | Ømm | | 100 | | | | | | | |
| Feed | | | | | | | | | | |
| Rapid Travel Rate X | m/min | | 20/20/20/10/10 | | | | | | | |
| Rapid Travel Rate Y | m/min | | 20 | | | | | | | |
| Rapid Travel Rate Z | m/min | | 20 | | | | | | | |
| Rapid Travel Rate W | m/min | | 2.4 | | | | | | | |
| Cutting Feed Rate (X/Y/Z) | mm/min | | 10000 | | | | | | | |
| Cutting Feed Rate (W) | mm/min | | 2400 | | | | | | | |
| Feed Motor | kW | | X(6)/Y(7)/W(7×2)/Z(6×2) | | | | | | | |

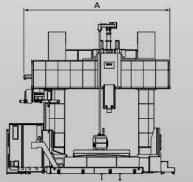
| MODEL | | KRV4232/5232/6232/ 8232/10232 | KRV4237/5237/6237/ 8237/10237 | KRV4242/5242/6242/ 8242/10242 |
|--|-----|----------------------------------|------------------------------------|----------------------------------|
| Accuracy | | | | |
| Positioning Accuracy (JIS 6338) | mm | | ±0.015 Full Travel | |
| Positioning Accuracy (ISO 8636) | mm | | 0.03/0.04/0.05/0.07/0.09 | |
| Repeatability Accuracy (JIS 6338) | mm | | ±0.003 | |
| Repeatability Accuracy (ISO 8636) | mm | | 0.025/0.03/0.035/0.055/0.07 | |
| ATC System | | | | |
| Tool Magazine Capacity | | | 40/60/90/120 | |
| Tool Diameter (with adjacent tools) | Ømm | | Ø125 | |
| Max. Tool Diameter (without adjacent tools) | Ømm | | Ø250 | |
| Max. Tool Length | mm | | 450 | |
| Max. Tool Weight | kg | | 20 | |
| Tool Shank Type | | | BT50/CAT50 | |
| Pull Stud | | | P50T-1 | |
| Others | | | | |
| Guideway of X/Y/Z/W Axis | | Roller linear guideway / Roller | linear guideway / Roller linear gu | ideway / Roller linear guideway |
| Power Supply | kVA | | 65 | |
| Net Weight | ton | 49/53/57/67/77 | 56/62/68/80/92 | 64/71/78/93/108 |
| Floor space Requirement (WxH) | mm | 6980×5850 | 7480×5850 | 7980×5850 |
| Floor space Requirement (L) | mm | 1 | 3015/15015/17015/21015/230 | |

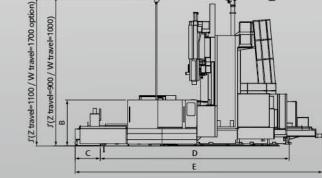
MACHINE LAYOUT & SPACE REQUEST

NXO









| Model \ Item | Α | В | с | D | E | F | G | н | 1 | J | Ľ | K | L | M | N | 0 | Р |
|--------------|------|---------------|-------|-------|-------|------|------|------|------|------|------|------|-------|------|---|-----|---|
| KRV-4232 | | | | 10330 | 13015 | | | | | | | | 4000 | 1 | | | |
| KRV-5232 | | | | 12330 | 15015 | | | | | | | | 5000 | | | | |
| KRV-6232 | 6000 | | | 14330 | 17015 | 2910 | 6980 | | | | | 6000 | 2000 | | 7 | | |
| KRV-8232 | | | | 18330 | 21015 | | | | | | | | 8000 | | | | |
| KRV-10232 | | | | 20330 | 23015 | | | | | | | | 10000 | | | | |
| KRV-4237 | | 1 | | 10330 | 13015 | | | | | | | | 4000 | | | | |
| KRV-5237 | | 12330 | 15015 | | | | | | | | 5000 | | | | | | |
| KRV-6237 | 6500 | 500 2050 1160 | 14330 | 17015 | 3410 | 2535 | 7480 | 3425 | 5850 | 6750 | 560 | 6000 | 2500 | 250 | 9 | 125 | |
| KRV-8237 | | | | 18330 | 21015 | | | | | | | | 8000 | | | | |
| KRV-10237 | | | | 20330 | 23015 | | | | | | | | 10000 | | | | |
| KRV-4242 | | | | 10330 | 13015 | | | | | | | | 4000 | | | |] |
| KRV-5242 | | | | 12330 | 15015 | | | | | | - | | 5000 | | | | |
| KRV-6242 | 7000 | | | 14330 | 17015 | 3910 | | 7980 | | | | | 6000 | 3000 | | 11 | |
| KRV-8242 | | | | 18330 | 21015 | | | | | | | | 8000 | | | | |
| KRV-10242 | | | | 20330 | 23015 | | | | | | | | 10000 | | | | |

Unit : mm

RVM5A/RV5A SERIES DOUBLE COLUMN MACHINING CENTER

RVM5A/RV5A FIXED DOUBLE-COLUMN SERIES

- The whole series with A/C axis specially for the workpiece designed with complex structure can reach high efficiency with 5-AXIS simultaneous machining.
- Symmetry design in whole machine to let cutting loading & thermal equilibrium balanced.
- RVM5A/RV5A adapts three axes with ballscrew cooling system can reduce the ballscrew thermal displacement, and raise the positioning accuracy and repeatability accuracy in each axis.Adapting Heidenhain linear scales and close loop control can enhance the accuracy efficiently.
- Z axis with dual-ballscrew design. The spindle and ballscrews mounted parallelly with shortest throat depth can raise cutting rigidity. X axis adapts single ballscrew with twin servo motors controlled by electric technology of Master-Slave technology to offer stable torque output and enhance the dynamic rigidity and positioning accuracy of the machine. This helps finishing/high acceleration and deceleration machining perform perfectly.
- This Series adapts Siemens 840DSL or Heidenhain 640 which can exert good efficiency of 5-axis simultaneity.

SPECIFICATION OF THIS MACHINE

- Travel of X/Y/Z (X:3100, Y:3500, Z:1100mm)(OP:1300mm)
 Specially for machining the structure of Aerospace industry.
- Rapid of X/Y/Z (20 m/min, acceleration:0.15G) High dynamic performance

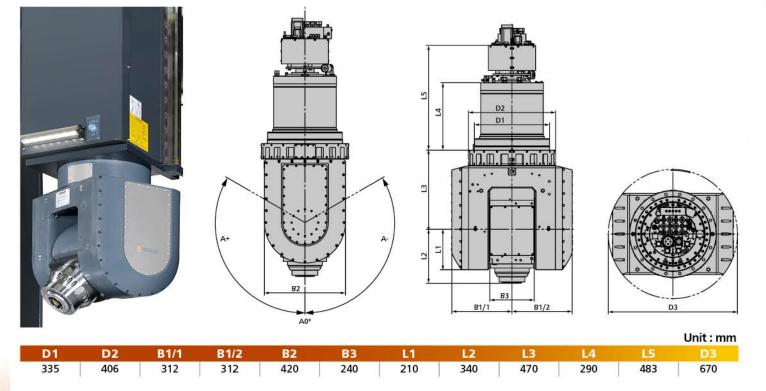




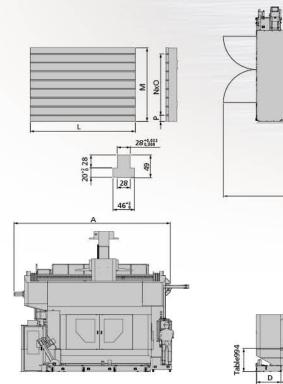
Adapting Slemens or Heidenhain controller to exert 5-axis technology and overcome the application on complex surface machining High Precision (Positioning Accuracy ±5sec) Kessler 2-axis Head

Casting with topology design has the feature of light material but high rigidity

/ KESSLER SPECIFICATION & DIMENSION



MACHINE LAYOUT & SPACE REQUEST



/ RV5A-3135 Z=1100 KESSLER HSK 100A 2-AXIS SPINDLE HEAD MACHINING RANGE

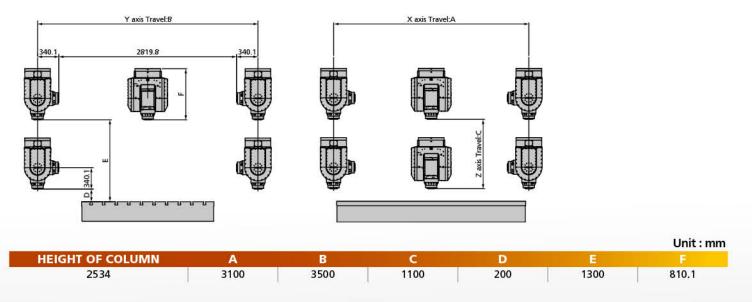
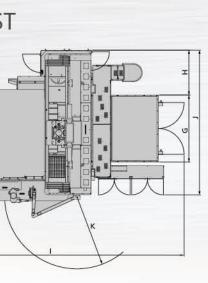
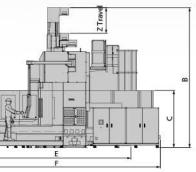


TABLE AND MACHINE LAYOUT Model \ Item Z travel A В С D E F G RVM5A/RV5A-3135 6600 9300 RVM5A/RV5A-4135 8600 11300 1100 6700 6000 287 RVM5A/RV5A-5135 10600 13300 RVM5A/RV5A-6135 12600 15300 2460 1030 RVM5A/RV5A-3135 6600 9550 RVM5A/RV5A-4135 8600 11550 1300 7040 6670 292 RVM5A/RV5A-5135 10600 13550 RVM5A/RV5A-6135 12600 15550

DUAL AXES HEAD (A/C) SPECIFICATION

| SMALL 2AK | | A AXIS SWE 678.290 | C AXIS SWE 029-678.292 | |
|----------------------|----|--------------------|------------------------|--|
| Rated Torque | Nm | 764 | 810 | |
| Max. Torque | Nm | 1200 | 1100 | |
| | | 2160 | | |
| Clamping Torque (PO) | Nm | 1200 | 16/5 | |
| Clamping System | | Pneumatic | Pneumatic | |
| Swivelling Angle | 0 | ±105 | ±200 | |
| Positioning Accuracy | η | ±5 | ±3 | |





| 5 | н | 1 | J | к | L | м | N | 0 | Р |
|---------|--------|-------|------|------|------|------|-----|---|-----|
| 70 1930 | | 11200 | | | 3000 | | | | |
| | 13200 | 6200 | 2100 | 4000 | | | | | |
| | 1930 | 15200 | 6200 | 3100 | 5000 | 2100 | 250 | 7 | 175 |
| | | 19200 | | | 6000 | | | | |
| | ****** | 11500 | 7000 | 3220 | 3000 | | | | |
| 20 214 | 2140 | 13500 | | | 4000 | | | | |
| | 2140 | 15500 | | | 5000 | | | | |
| | | 17500 | | | 6000 | | | | |

RVM5A/RV5A SERIES DOUBLE COLUMN MACHINING CENTER

Unit : mm

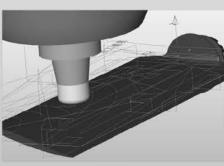
RVM5A/RV5A SERIES DOUBLE COLUMN MACHINING CENTER SPECIFICATION

| MODEL | | RVM5A-3135 RV5A-3135 | RVM5A-4135 RV5A-4135 | RVM5A-5135 RV5A-5135 | RVM5A-6135 RV5A-6135 | | |
|---|--------|---|--------------------------|-------------------------|---|--|--|
| Travel | | | | | | | |
| X-axis | mm | 3100 | 4100 | 5100 | 6100 | | |
| Y-axis | mm | | 3! | 500 | | | |
| Z-axis | mm | | 1100 | 0/1300 | ••••••••••••••••••••••••••••••••••••••• | | |
| Distance From Spindle Nose To Table Surface | mm | 200~1300, 200~1500 | | | | | |
| Distance between two columns | mm | 2700 | | | | | |
| Table | | | | | | | |
| Table Dimension (X) | mm | 3000 | 4000 | 5000 | 6000 | | |
| Table Dimension (Y) | mm | | 2 | 100 | | | |
| T-slots (Size x Number x Pitch) | mm | 28×10×200 | | | | | |
| Max. Loading Capacity | kg | 13000 | 16000 | 20000 | 22000 | | |
| Spindle | | | | | | | |
| Spindle motor output (S1/S6) | kW | (25/30-HSK-A100) | | | | | |
| Spindle torque (S1/S6) | Nw | (119/143-HSK-A100) | | | | | |
| Spindle taper | | HSK-A100 | | | | | |
| Spindle bearing bore diameter | Ømm | 100 | | | | | |
| Spindle speed | rpm | 12000 | | | | | |
| Feed | | | | | | | |
| Rapid Travel Rate (X/Y/Z) | m/min | 20/20/20 15/20/20 10/ | | | | | |
| Cutting Feed Rate | mm/min | 10000 | | | | | |
| Feed Motor | kW | Siemens:35.6/35.6/(5.24,5.24) Heidenhain:14/14(11,11) | | | | | |
| Accuracy | | | | | | | |
| Positioning Accuracy (JIS 6338) | mm | | ±0 | .015 | | | |
| Positioning Accuracy (ISO 8636) | mm | 0.025 | 0.03 | 0.04 | 0.05 | | |
| Repeatability Accuracy (JIS 6338) | mm | ±0.003 | | | | | |
| Repeatability Accuracy (ISO 8636) | mm | 0.02 | 0.025 | 0.030 | 0.035 | | |
| ATC System | | | | | | | |
| Tool Magazine Capacity | | | 30/40/60 | | | | |
| Tool Diameter (with adjacent tools) | Ømm | | 125 | | | | |
| Max. Tool Diameter (without adjacent tools) | Ømm | | 215 | | | | |
| Max. Tool Length | mm | 400 | | | | | |
| Max. Tool Weight | kg | | 20 | | | | |
| Tool Shank Type | | | HSK | -A100 | | | |
| Others | | | | | | | |
| Guideway of X/Y/Z Axis | | Rolle | r Linear Way / Roller Li | near Way / Roller Linea | r Way | | |
| Power Supply | kVA | | 3 | 00 | | | |
| Net Weight (RVM5A/RV5A) | kg | 39000 | 44000 | 49000 | 54000 | | |
| Gross Weight (RVM5A/RV5A) | kg | 44500 | 49500 | 54500 | 59500 | | |
| Length x Width x Height | mm | 9300×6960×6000 | 11300×6960×6000 | 13300×6960×6000 | 15300×6960×6000 | | |
| Controller | | | Siemens 840D (HE | IDENHAIN ITNC640) | | | |

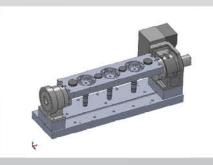
STANDARD & OPTIONAL LIST

| SPECIFICATION/MODEL | RVM5A-3135 RV5A-3135 |
|---|-------------------------|
| Kessler Small 2AK 2-axis Rotary System | |
| Centralized Lubrication System | |
| Full Enclosure (without Top Cover) and Arm Type Operating Control Box (K Type) | |
| Head Side Punching System | |
| Dual Spiral and Lift-Up Chip Conveyor With Bucket | |
| Spindle Oil Chiller | • |
| Coolant Through Ballscrew For Three Axes | |
| Rigid Tapping Function | |
| Working Light | |
| Tri-Color Status Light | |
| Spray Gun For Cleaning | |
| Leveling Bolts and Pads | |
| Manual and Operate Books | |
| Full Enclosure (with Top Cover) | |
| Arm Type Operating Control Box (RV Type) | |
| Coolant Through Spindle (20 Bar) | |
| Scraper-Type Chip Conveyor | 0 |
| Linear Scales (X/Y/Z Axes) | 0 |
| Foot Rest | |
| Automatic tool length measurement | |
| Automatic workpiece measurement | |
| CNC rotary table | |
| Z-axis riser 200mm/400mm | |

APPLICATION RESOURCE SERVICE



• Our Products are compatible with a wide variety of CAD / CAM software



FIXTURE PLANNING • We assist customer to plan fixture

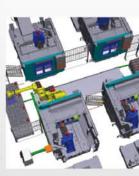
to suit your workpiece



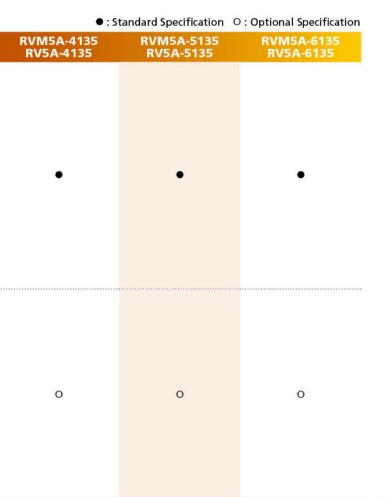
TESTING WORKPIECE Benz Mold sample

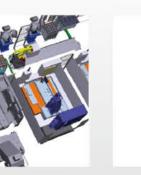


TOOLING • We offer the best tools which suit your machining demands



AUTOMATIC PRODUCTION LINE







TESTING WORKPIECE • Cover Mold sample

KAO FONG

TURN-KEY PROJECT PLANNING-EXCELLENT PROCESS

- Meet customer's processing demand
- Achieve customer's required quantity production
- Carry out automation processing
- Flexibly used in various products

PROFESSIONAL ENGINEERING TEAM

- Having the most state-of-the-art software and hardware provides customers with the proposal to increase the production efficiency.
- Improving the processing efficiency through the work analysis, construction method and application test.



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