

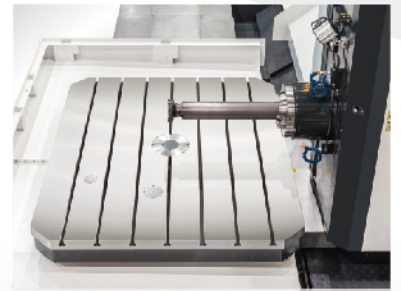
Technology for The World



AKB Series

KURAKI CNC Horizontal Boring & Milling Machine

- + This machine is the result of 70 years of experience in manufacturing and developing new technologies in horizontal boring mills.
- + Japanese based attention to detail and technology are incorporated in every machine.
- + Standard rotary table (Full B axis with 0.001° indexing and every 90° by location pin) driven by double pinion gear to eliminate backlash.
- + Standard scale feedback system (X, Y, Z & B axes).
- + Large-sized linear roller guide ways (X & Z axes) and box ways (Y axis) make heavy duty cutting a standard.
- + Boring spindle offers better access to the workpieces with high accuracy.
- + The spindle head is designed with 2-step gear transmission, providing high torque and low thermal growth for precision machining.
- + Newest Fanuc CNC control.



KURAKI TAIWAN CO., LTD.

+ Machine Specifications

[] : Optional specifications

| Model | | Unit | AKB-11 | AKB-11 (6000min ⁻¹) | AKB-13 | AKB-13 (6000min ⁻¹) |
|------------------------------|--|-------------------|---|---|---|--|
| Travel | X-axis travel (Table longitudinal movement) | mm (inch) | 2000(78.74) [2500(98.43)] | | 3000(118.11) [4000(157.48)] | |
| | Y-axis travel (Spindle vertical movement) | mm (inch) | 1500(59.06) [1800(70.87)] | | 2000(78.74) [2300(90.55)] | |
| | Z-axis travel (Column cross movement) | mm (inch) | 1500(59.06) | | 1600(62.99) | |
| | W-axis travel (Spindle axial movement) | mm (inch) | 500(19.69) | - | 700(27.56) | - |
| | Distance from table top to spindle center | mm(inch) | 0~1500(0~59.06) [* ¹ 0~1800(0~70.87)] | | 0~2000(0~78.74) [* ² 0~2300(0~90.55)] | |
| | Distance from table center to spindle nose | mm(inch) | 600~2100(23.62~82.68) | 450~1950(17.72~76.77) | 800~2400(31.50~94.49) | 650~2250(25.59~88.58) |
| Table | Table work space | mm(inch) | 1400x1600(55.12x62.99) | | 1800x2000(70.87x78.74) | |
| | Table maximum loading capacity | kg(lbs) | 6500(14300) [7500(16500)] | | 12000(26400) [15000(33000)] | |
| | Table top profile | mm(inch) | 22 mm (0.87) (7 T-slots) | | | |
| | Auto. table indexing | ° | 0.001° (every 90° index. by locator pin) | | | |
| Spindle head | Boring spindle diameter | mm(inch) | 110(4.33) | 130(5.12) (Spindle top diameter) | 130(5.12) | 130(5.12) (Spindle top diameter) |
| | Spindle speed | min ⁻¹ | 5~3000 | 10~6000 | 9~3000 | 10~6000 |
| | Spindle speed changing range | step | 2 | | | |
| | Spindle taper | | BBT 50 (* ³ BIG-PLUS dual contact spindle system) | | | |
| Feed | Rapid traverse (X, Y, Z axes) | m(inch)/min | 12(472.44) | | 10(393.70) [* ⁴ 7(275.59)] | |
| | Rapid traverse (W axis) | m(inch)/min | 6(236.22) | - | 6(236.22) | - |
| | Feedrate | mm(inch)/min | 1~6000(0.04~236.22) | | 1~4000(0.04~157.48) | |
| | Table revolution speed | min ⁻¹ | 2.0 | | 1.4 [* ⁵ 1.0] | |
| Automatic tool changer (ATC) | Tool shank type | | MAS BT 50 [CAT-50] (* ³ BBT 50 BIG-PLUS dual contact spindle system) | | | |
| | Pull stud | | MAS P50T-1 (45°) | | | |
| | Tool storage capacity | pcs | 40 [60, 90] | | | |
| | Max. Tool diameter [vacant adjacent pots] | mm(inch) | 125(4.92) [240(9.45)] | | | |
| | Max. tool length | mm(inch) | 400(15.75) [600(23.62) / 900(35.43)] | | | |
| | Max. tool weight | kg(lbs) | 25(55) | | | |
| | Tool selection | | At random | | | |
| Motor | Spindle motor | kW(HP) | AC26(35) (30 min.) / 22(30) (Cont.) | AC37(50) (S3 25%) / 22(30) (Cont.) | AC30(40)(30 min.) / 22(30) (Cont.) | AC37(50) (S3 25%) / 22(30) (Cont.) |
| | Feed motor | kW(HP) | X · Z : 6.0(8.0) / Y · W · B : 3.0(4.0) | X · Z : 6.0(8.0) / Y · B : 3.0(4.0) | X · Z : 6.0(8.0) / Y · W · B : 3.0(4.0) | X · Z : 6.0(8.0) / Y · B : 3.0(4.0) |
| Voltage | Power capacity (Not incl. optional equip.) | kVA | 52 | 51 | 50 | 49 |
| | Air source pressure | MPa | 0.5 | | | |
| | Air source flow | NL/min | 400 (Atmosphere) | | | |
| Dimension | Machine height | mm(inch) | 4120(162.20) [* ¹ 4420(174.02)] | 4300(169.29) [* ¹ 4700(185.04)] | 4800(188.98) [* ² 5150(202.76)] | |
| | Floor space (Not incl. opt) | mm (inch) | 6490x6620 (251.97x260.63) [* ⁶ 6740x6620 (265.35x260.63)] | | 7650x7125(301.18x280.51) [* ⁷ 8125x7125(319.89x280.51)] | |
| | Machine weight (Incl. NC unit) | kg(lbs) | 25000(55000) | 25000(55000) | 35000(77000) | 33000(72600) |

*¹ : When AKB-11 Y-axis stroke is 1800mm(70.87").

*² : When AKB-13 Y-axis stroke is 2300mm(90.55").

*³ : BIG-PLUS is a trademark registered by BIG DAISHOWA SEIKI CO., LTD.

*⁴ : When X-axis stroke is 4000mm(157.48"), the rapid traverse of X axis is 7m/min(275.59").

*⁵ : When table loading capacity is 15 tons, the table revolution speed is 1.0 min⁻¹.

*⁶ : When AKB-11 X-axis stroke is 2500mm(98.43").

*⁷ : When AKB-13 X-axis stroke is 4000mm(157.48").



KURAKI TAIWAN CO., LTD.

No. 32, Houke S. Rd., Houli Dist.,
Taichung, 42152 Taiwan

+886-4-2559-8666

+886-4-2559-0600

www.kuraki.com.tw

