

Main Technical Specifications

| Model | Units | TX619T | T(P)X6111B | T(P)X6111B/2 | T(P)X6111B/3 | T(P)X6111C/3 | T(P)X61113 | T(P)X61113/2 |
|--|--------------|-------------|-------------------------------------|--------------|--------------|--|--|--|
| Boring spindle diameter | mm | 90 | 110 | 110 | 110 | 110 | 130 | 130 |
| spindle taper | | MT5 | Morse No 6(optional ISO 7:24 NO 50) | | | ISO 7:24 NO 50 | Metric 80(optional ISO 7:24 NO 50) | |
| Max. spindle torque | N.m | | 1225 | 1225 | 1225 | 1250 | 3136 | 3136 |
| Max. facing head torque | N.m | | 1960 | 1960 | 1960 | 1960 | 4900 | 4900 |
| Max. spindle thrust | N | | 12250 | 12250 | 12250 | 12250 | 31360 | 31360 |
| Max. traverse of boring spindle | mm | 600 | 600 | 600 | 600 | 600 | 900 | 900 |
| Number of spindle speed | | 18 | 22 | 22 | 22 | Stepless | 24 | 24 |
| Range of spindle speed | r/min | 20-1000 | 8-1000 | 8-1000 | 8-1000 | 8-1100 | 4-800 | 4-800 |
| Travel of facing slide | mm | 170 | 180 | 180 | 180 | 180 | 250 | 250 |
| Table working surface | mm | 1000 x 800 | 1100 x 960 | 1100 x 960 | 1250 x 1100 | 1250 x 1100 | 1600 x 1400 | 1800 x 1600 |
| Max. permissible load on table | kg | 2000 | 2500 | 2500 | 3000 | 3000 | 8000 | 10000 |
| Distance between spindle axis and table surface | Max. | mm | 755 | 900 | 900 | 1200 | 1400 | 1800 |
| | Min. | mm | 0 | 0 | 0 | 0 | 0 | 0 |
| Table travel | longitudinal | mm | 1080 | 1000 | 1000 | 1400 <small>(without rear column)</small> | 1400 <small>(without rear column)</small> | 1500 <small>(without rear column)</small> |
| | Transverse | mm | 850 | 900 | 1250 | 1600 | 1600 | 2000 <small>(without rear column)</small> |
| Transverse rapid for spindle, headstock, worktable | mm/min | 2000 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Range of spindle, headstock and table feeds per spindle revolution | mm/r | 0.025-8mm/r | 0.04-6/0.01-1.88 | | | | 0.05-8/0.01-2 | |
| Feed range of spindle, headstock worktable, radial slide | mm/min | | | | | 0.32-2500 | | |
| Power of main drive motor | kw | 6.5 | 7.5 | 7.5 | 7.5 | 15 | 15 | 15 |
| Overall dimensions (L x W x H) | mm | 5075 | 4910 | 4910 | 5120 | 5120 | 6995 | 7030 |
| | | 2345 | 2454 | 2870 | 3380 | 3380 | 3647 | 4665 |
| | | 2730 | 2750 | 2750 | 3100 | 3100 | 3442 | 3800 |
| Weight of machine | kg | 10500 | 13000 | 14500 | 18000 | 18000 | 24500 | 29300 |

Main Technical Specifications

| Model | Units | T(P)X6211 | T(P)X6211x 30 | T(P)X6211x 59 | T(P)X6213 | T(P)X6213x56 |
|--|-------|-------------------------------------|--------------------|--------------------|-----------------------------------|--------------------|
| Boring spindle diameter | mm | 110 | 110 | 110 | 130 | 130 |
| spindle taper | | Morse No 6(optional ISO 7:24 NO 50) | | | Morse 80(optional ISO 7:24 NO 50) | |
| Max. spindle torque | N.m | 1225 | 1225 | 1225 | 3136 | 3136 |
| Max. spindle thrust | N | 12250 | 12250 | 12250 | 31360 | 31360 |
| Max. traverse of boring spindle | mm | 600 | 600 | 600 | 900 | 900 |
| Number of spindle speed | | 22 | 22 | 22 | 24 | 24 |
| Range of spindle speed | r/min | 8-1000 | 8-1000 | 8-1000 | 4-800 | 4-800 |
| Travel of headstock | mm | 1600 | 1600 | 1600 | 1600 | 1600 |
| Travel of facing slide | mm | 180 | 180 | 180 | 250 | 250 |
| Range of spindle, headstock and table feeds per spindle revolution | mm/r | 0.04-6/0.01-1.88 | 0.04-6/0.01-1.88 | 0.04-6/0.01-1.88 | 0.05-8/0.01-2 | 0.05-8/0.01-2 |
| Travel of main drive motor | mm | 2000 | 3100 | 5900 | 2850 | 5650 |
| Power of main drive motor | kw | 7.5 | 7.5 | 7.5 | 15 | 15 |
| Overall dimensions(L x W x H) | mm | 4922 x 2214 x 3770 | 6022 x 2214 x 3770 | 8852 x 2214 x 3770 | 6072 x 2932 x 4075 | 9970 x 2932 x 4075 |
| Weight of machine | kg | 18900 | 20000 | 25000 | 25000 | 35100 |

Note: Floor-type machines with longer travel of X-axis are available for supplying besides the standard machine series.
Accessories shown may not be part of standard accessories and some of the parts attached on the machines will only be available at optional cost.
Check your offer for detailed list of standard accessories.
All specifications in this catalogue are subject to change without prior notice.

- Standard Accessories:**
- Coolant Equipment
 - Complete Electricals
 - Lubrication System

- Optional Accessories:**
- Tool Box
 - Instruction Manuals
 - Boring Steady
 - 2 Axis DRO



SHIV MACHINE TOOLS

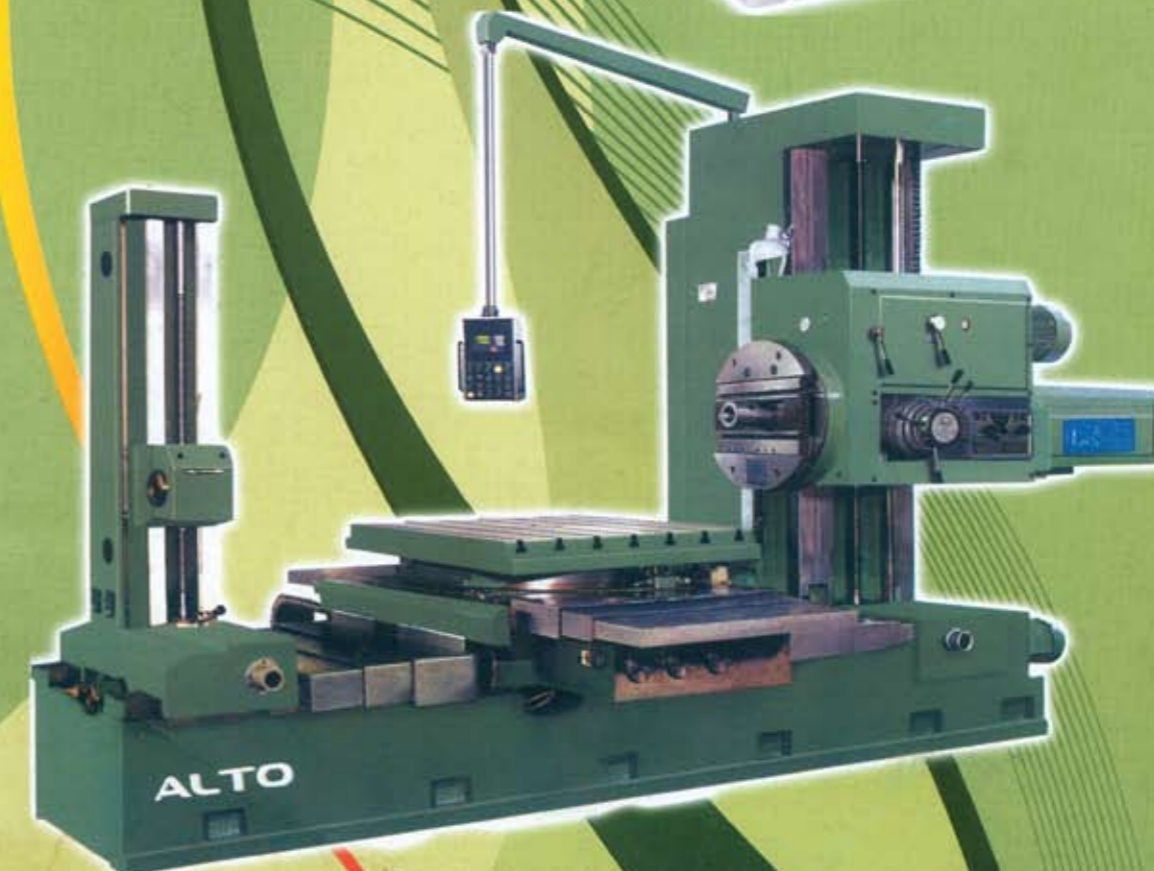
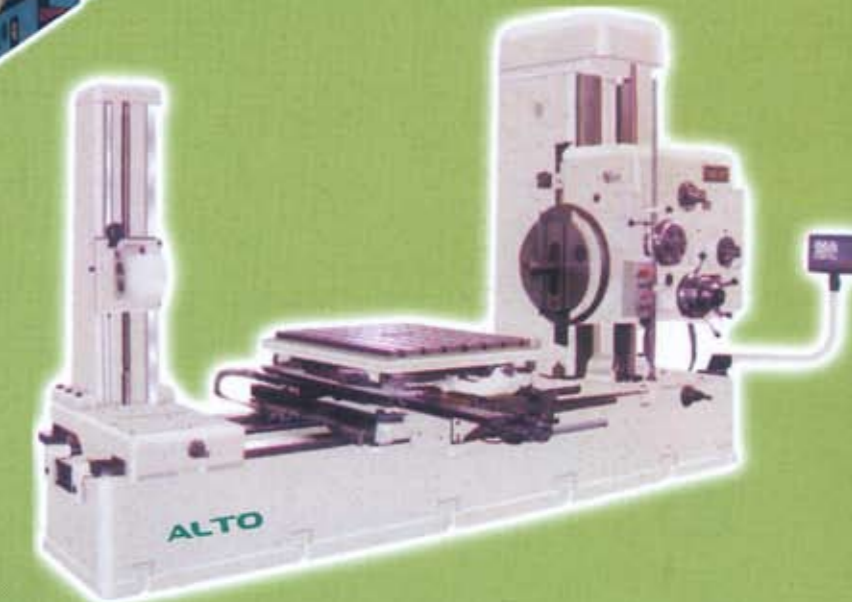
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ALTO

HORIZONTAL BORING MACHINES SERIES

WORLD CLASS





TX 619T/TPX 6111B

Horizontal milling and boring machine model TPX6111B is a newly developed product based on 50 years of experience, by utilizing the top technology from home and abroad, which result in a machine with perfect properties.

TPX 6111B/2

Horizontal milling and boring machine TPX6111B/2 features an integral auxiliary guideway. The traverse of the table on the lower slide enhances machine rigidity. The machine has great machining accuracy due to minimized distortion and excellent rigidity.



TPX 6111B/3

Horizontal milling and boring machine TPX6111C/3 adopts an inverter motor instead of a traditional AC motor feeding, and allow infinite spindle speeds in both gear ranges. The upper and lower slides are coated with anti-friction, and anti-wear Fluoro resin liners for enhanced life and accuracy. The rugged spindle is ISO 7:24 nO50. (The rear column is optional)

TPX 6111B/3

The TPX6111B/3 features extended travels on the table and vertical travel of the headstock, and increase the effective machining range. The table size is increased and can hold up to 6600lbs. The spindle, with a taper hole of ISO 7.24 NO 50 can be equipped with an automatic tool clamping/unclamping device.



Floor Type Boring Machine 62/69 Series (62 - without ram, 69 - with square ram)

| specifications | TX6213AF | TKJ6213 | TKJ6913 | TX6216 | TKJ6216 | TK6916/TH6916 | TKJ/TK/TX6220 |
|---|--|-----------------------------|-----------------------------|--|-------------------------------|-----------------------------|-------------------------------------|
| boring spindle diameter mm | 130 | 130 | 130 | 160 | 160 | 160 | 200 |
| diameter of milling arbor end mm | 221.44 | 221.44 | 221.44 | 221.44 | 221.44 | 300 | 300 |
| spindle taper | metric system80# | metric system80# (ISO50#) | metric system80# (ISO50#) | metric system80# | metric system80# (ISO50#) | ISO 50# | metric system100# (ISO60#) |
| spindle speed r/min | 3~700 | 3~700 | 3~700 | 3~700 | 3~700 | 1~1500 | 1~1000 |
| power of spindle motor Kw (frequency control) | 22 | 22 | 22 | 37 | 37 | SIEMENS motor 1PH7224-2ND20 | SIEMENS spindle motor 1PH7224-2ND20 |
| Max. torque of boring spindle N.m | 3000 | 3500 | 3500 | 4000 | 4000 | 5000 | 6000 |
| Max. axial tension of boring spindle N | 30000 | 30000 | 30000 | 40000 | 40000 | 35000 | 55000 |
| Max. torque of milling arbor N.m | 3500 | 4000 | 4000 | 5000 | 5000 | 7200 | 8000 |
| speed of facing plate r/min | 3~122 | 3~122 | 3~122 | 3~122 | 3~122 | — | 2~100 |
| ram section size (L*W) mm | — | — | 350*420 | — | — | 480*520 | — |
| transverse travel of vertical column (X) mm | 3000(can be extended) | 4000(can be extended) | 4000(can be extended) | 4000(can be extended) | 4000(can be extended) | 6000(can be extended) | 8000(can be extended) |
| longitudinal travel of spindle box (Y)mm | 2000(can be extended) | 2000(can be extended) | 2000(can be extended) | 2000(can be extended) | 2000(can be extended) | 4000(can be extended) | 4000(can be extended) |
| axial travel of spindle (Z)mm | 1000 | 1000 | 700 | 1000 | 1000 | 1100 | 1200 |
| ram travel(W)mm | — | — | 700 | — | — | 900 | — |
| travel of facing plate slide(U)mm | 140 | 140 | 140 | 200 | 200 | — | 250 |
| facing plate diameter mm | 600 | 600 | 600 | 750 | 750 | — | 900 |
| power of feed motor Kw X | 7.5 | 10 | 10 | 10 | 10 | 16 | 13.5 |
| Y | 5.5 | 6.7 | 6.7 | 6.7 | 6.7 | 13.5 | 11.5 |
| Z | 4.4 | 4 | 4 | 5 | 5 | 13.5 | 7.6 |
| W | — | — | 4 | — | — | 13.5 | — |
| torque of feed motor N.m X | 48 | 50.4 | 50.4 | 50.4 | 51.1 | 85 | 68.4 |
| Y | 35 | 33.6 | 33.6 | 33.6 | 33.6 | 75 | 59.5 |
| Z | 28.4 | 20.8 | 20.8 | 27.3 | 27.3 | 75 | 39.7 |
| W | — | — | 20.8 | — | — | 75 | — |
| feed speed mm/min X | 4~2500 | 4~3000 | 4~3000 | 4~3000 | 4~3000 | 0.5~6000 | 2~3000 |
| (high speed is the rapid speed) Y | 4~2500 | 2~3000 | 2~3000 | 2~3000 | 2~3000 | 0.5~6000 | 2~3000 |
| Z | 2~3000 | 1~2000 | 1~2000 | 1~2000 | 1~2000 | 0.5~4500 | 1~3000 |
| W | — | — | 1~2000 | — | — | 0.6~4500 | — |
| positioning accuracy mm X, Y | ±0.03/1000 | ±0.02/1000 | ±0.02/1000 | ±0.03/1000 | ±0.03/1000 | ±0.035/1000 | ±0.03/1000 |
| Z, W | ±0.45/all length | ±0.2/all length | ±0.02 | ±0.03 | ±0.03 | ±0.045/1000 | ±0.03 |
| repeatable positioning accuracy mm X, Y, Z, W | — | — | 0.035/1000 | — | — | 0.025/1000 | 0.035/1000 |
| CNC system | Japan YASKAWA servo motor and Spherosyn digital display system produced in England | FAGOR 8055 (SINUMERIK 840D) | FAGOR 8055 (SINUMERIK 840D) | Japan YASKAWA servo motor and Spherosyn digital display system produced in England | FAGOR 8055/A (SINUMERIK 840D) | FAGOR 8055 (SINUMERIK 840D) | FAGOR 8055 (SINUMERIK 840D) |
| overall dimensions mm (L) | 6580 | 7900 | 7900 | 7900 | 7900 | 10000 | 12500 |
| (W) | 2533 | 3500 | 3500 | 3500 | 3500 | 3500 | 3500 |
| (H) | 5168 | 5890 | 5890 | 5890 | 5890 | 7000 | 8000 |
| main machine weight Kg | 25000 | 34000 | 38000 | 36000 | 36000 | 115000 | 128000 |

NOTE:

TX - DRO TYPE WITH YASKAWA SERVO MOTOR, W/O SYSTEM
 TKJ- ECONOMIC CNC CONTROL, WITH FREQUENCY MAIN MOTOR
 TK- FULL CNC CONTROL FOR ALL AXIS
 TH- FULL CNC CONTROL WITH ATC