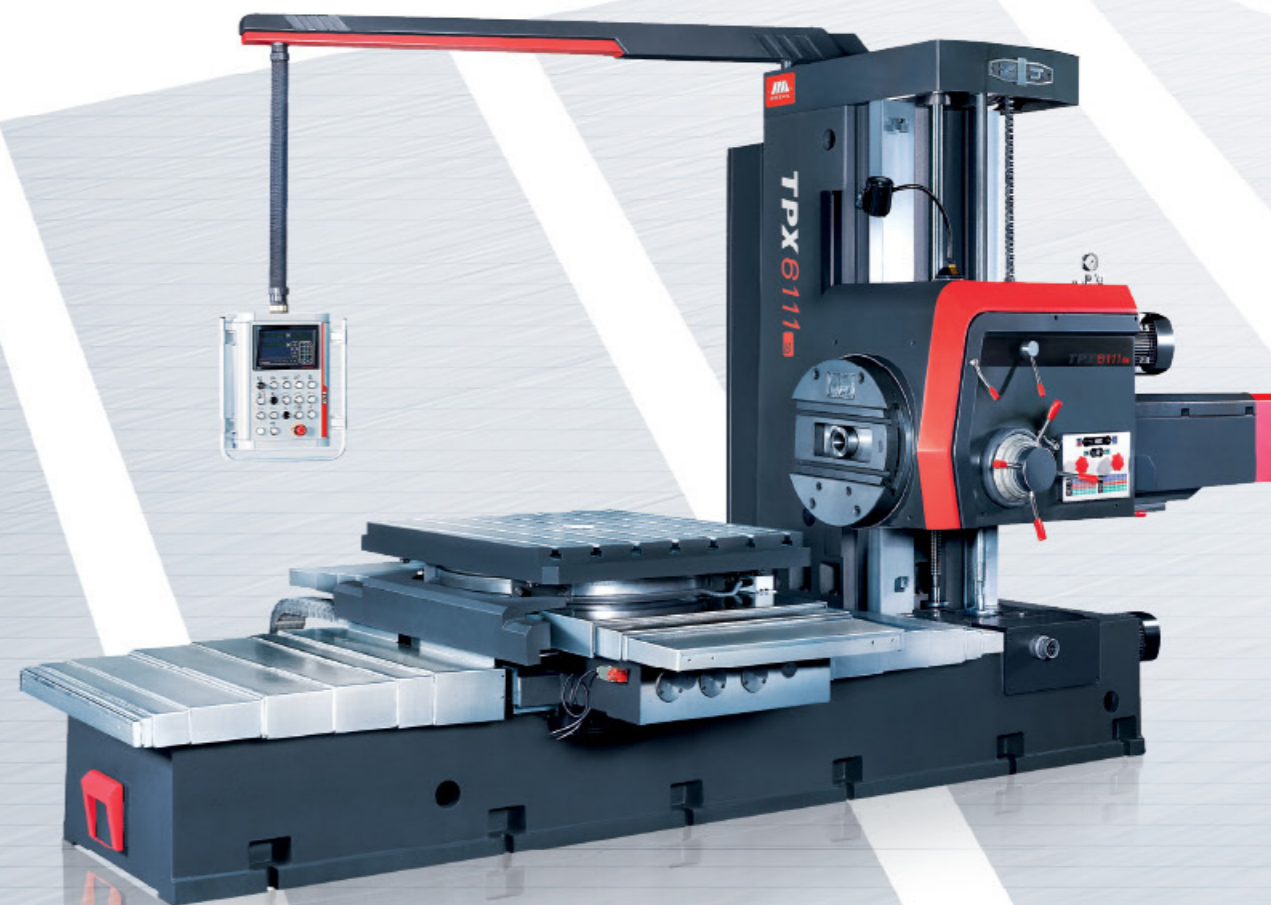




Global Service Hotline 4006159999

The explanation, diagram and technical parameter are varying with continuous technology development without further notice. (20180329-FT160058-SMTCL-I&E-Q-2016-V3.1)



TPX
TPX SERIES DRO HORIZONTAL BORING AND MILLING MACHINE

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SHENYANG MACHINE TOOL CO., LTD.

Specifications

Item	Unit	TPX 6111B	TPX 6111B/2	TPX 6111B/3	TPX 6113	TPX 6113/2	T(P)X 6211	T(P)X 6213
Spindle								
Spindle diameter	mm	∅ 110	∅ 110	∅ 110	∅ 130	∅ 130	∅ 110	∅ 130
Spindle taper	—	Morse 6 #	Morse 6 #	Morse 6 #	Metric 80	Metric 80	Morse 6 #	Metric 80
Max. Torque of spindle	Nm	1225	1225	1225	3136	3136	1225	3136
Max. Axial thrust of spindle	N	12250	12250	12250	31360	31360	12250	31360
Speed steps of spindle	—	22	22	22	24	24	22	24
Speed range of spindle	r/min	8-1000	8-1000	8-1000	4-800	4-800	8-1000	4-800
Main motor power	KW	7.5	7.5	7.5	15	15	7.5	15
Facing head								
Max. Torque of facing head	Nm	1960	1960	1960	4900	4900	1960	4900
Diameter of facing head	mm	∅ 600	∅ 600	∅ 600	∅ 750	∅ 750	∅ 600	∅ 750
Speed range of facing head	r/min	4-200	4-200	4-200	2.5-125	2.5-125	4-200	2.5-125
Speed steps of facing head	—	18	18	18	18	18	18	18
Worktable								
Worktable dimension (L×W)	mm	1100×960	1100×960	1250×1100	1600×1400	1800×1600	special offer accessory	special offer accessory
Max. Load allowed on worktable	kg	5000	5000	5000	8000	10000	—	—
Dimension of T-slots	mm	22	22	22	28	28	—	—
Number of T-slots	—	7	7	7	9	11	—	—
Working range								
X-axis travel	mm	900	1250	1600	1600	2000	2000 longer option is available	1750 longer option is available
Y-axis travel	mm	900	900	1200	1400	1800	1600	1600/2000/2500
Z-axis travel	mm	1400	1400	1400	2000	2000	—	—
W-axis travel (spindle travel)	mm	600	600	600	900	900	600	900
U-axis travel (facing head slide travel)	mm	180	180	180	250	250	180	250
B-axis worktable rotary	°	360	360	360	360	360	—	—
Minimum Distance from spindle centerline to worktable surface	mm	0	0	0	0	0	—	—
Feed speed								
Rapid travel	mm/min	X,Y,Z/W:2500	X,Y,Z/W:2500	X,Y,Z/W:2500	X,Y,Z/W:2500	X,Y,Z/W:2500	X,Y/U/W:2500	X,Y/U/W:2500
Feed range of axes per spindle revolution	mm/rev	0.04-6/0.01-1.88 (X/Y/Z/W)	0.04-6/0.01-1.88 (X/Y/Z/W)	0.04-6/0.01-1.88 (X/Y/Z/W)	0.05-8/0.01-2 (X/Y/Z/W)	0.05-8/0.01-2 (X/Y/Z/W)	0.04-6/0.01-1.88 (X/Y/W/U)	0.05-8/0.01-2 (X/Y/W/U)
Feed range (X)	mm/min	—	—	—	—	—	—	—
Precision								
Reading precision of linear measurement system (X,Y,Z) (optional for Z-axis measurement system)	mm	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Reading precision of angular measurement system for B-axis (optional for B-axis measurement system)	°	0.001	0.001	0.001	0.001	0.001	—	—
General parameters								
Overall dimension of machine (L×W×H)	mm	4910×2454×2750	4930×2670×2750	5028×3359×3079	6995×3647×3442	7030×4665×3800	refer to specifications	refer to specifications
Weight of machine	kg	11500	13000	14000	24000	28000	refer to specifications	refer to specifications

Machine configuration

Item	TPX 6111B	TPX 6111B/2	TPX 6111B/3	TPX 6113	TPX 6113/2	T(P)X 6211	T(P)X 6213
Rear column	○	○	○	○	○		
Facing head 480mm	●	●	●	●	●		
Dismountable facing head						○	○
Right-angle milling head						○	○
Universal milling head							○
DRO for X/Y-axis	●	●	●	●	●	●	●
DRO for Z-axis	○	○	○	○	○		
DRO for B-axis	○	○	○	○	○		

● Standard configuration ○ Optional accessories

Rotary worktable

Models	Standard configuration	Optional accessories
HT140	1400×1600/8t/hydraulic, Z600mm	DRO for B-axis
HT160	1600×2500/8t/hydraulic, Z600mm	
HT200A	2000×2500/20t/mechanical, Z1500mm	Z-axis travel of 2000mm
HT200A	2500×2500/20t/mechanical, Z1500mm	DRO for Z-axis
HT200A	2500×3000/20t/mechanical, Z1500mm	DRO for B-axis
HT200A	2000×3000/20t/mechanical, Z1500mm	
HT200B	2000×2500/20t/hydraulic, Z1500mm	DRO for Z-axis
		DRO for B-axis

Main features of the machine

- ◆ General layout: single column, side arranged box, fixed facing head
- ◆ Ball screw: low-noise, high precision

This type is broadly applied for machining of various generic parts such as pump bodies, valve bodies and housings.