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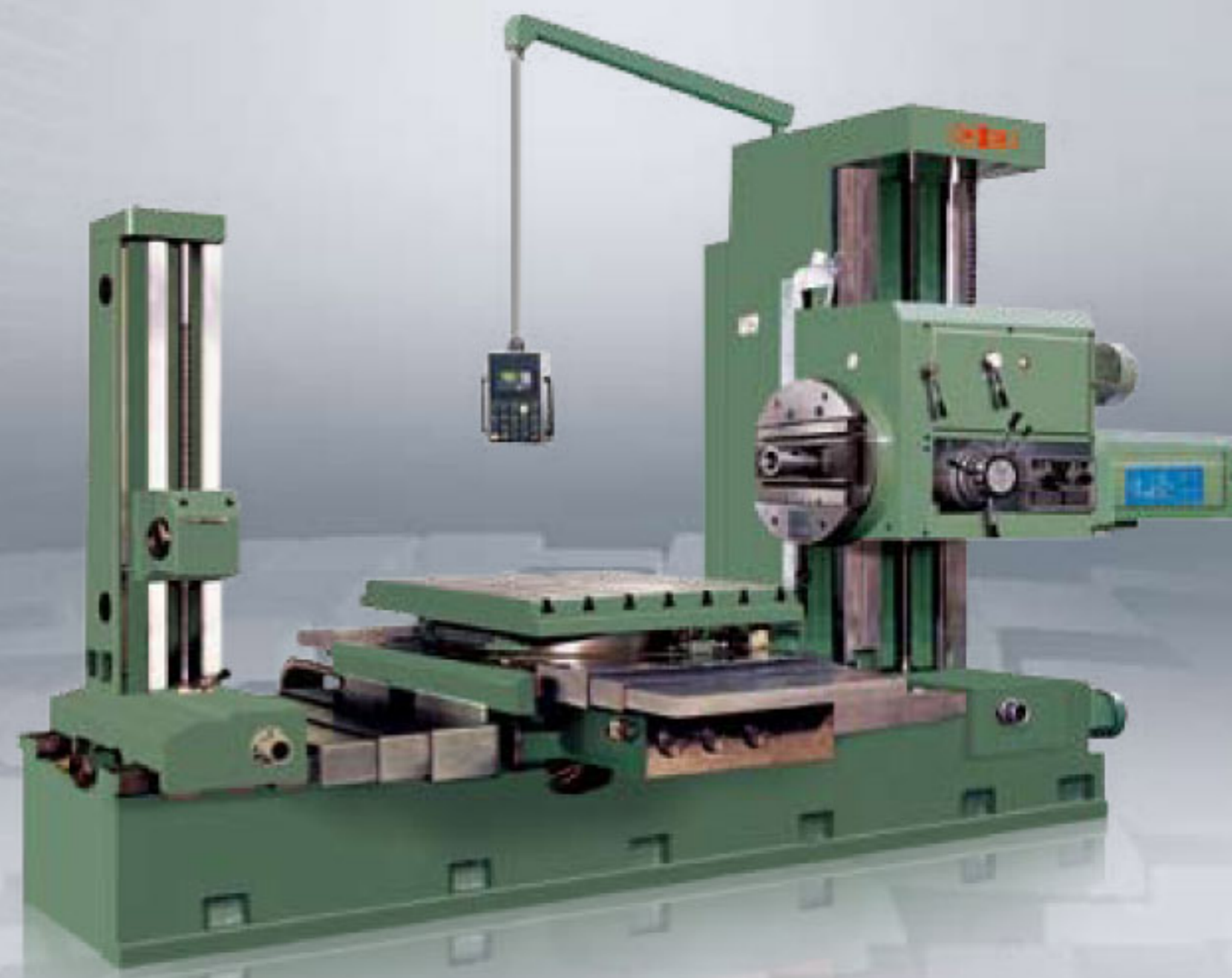
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SHENYANG MACHINE TOOL CO., LTD.

DRO HORIZONTAL BORING & MILLING MACHINE

TPX61 Series

TPX61 series digital readout horizontal boring and milling machines are universal machine tools which can be adapted to machine casting, steel, and non-ferrous work-pieces. Operations include drilling, hole enlarging, boring, reaming, plane milling, spot facing, threading, and other machining processes. The faceplate slide can be fed radially, which enables the machine to bore large size holes, turning outside diameters, and grooving. This series of machine can be used in the industries of energy, metallurgy, mining, machinery, military, etc. It is a reliable choice for machining box-type parts.

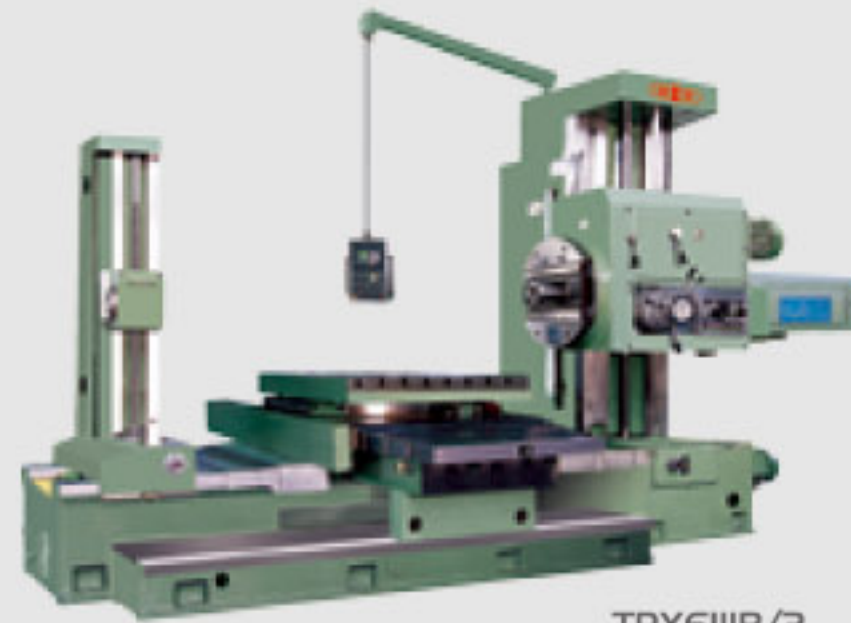
The spindle has 3 supporting points and good rigidity. Nitrogen treatment is employed on the main surface, which enables the spindle to have high hardness and long service life.

The spindle and feed speed change adopt manual rotary valve in the headstock and hydraulic preselection, which is convenient for operation.

The motion distribution and clamping of headstock vertical travel, worktable longitudinal and transverse travel and rotary motion all adopt automatic control and centralized operation, which result in the saving of time and effort, also making the machine convenient and reliable to use.

The worktable is equipped with 4x90° optical positioning device, which assures high accuracy.

The bed and lower saddle guideways adopt full enclosure telescopic covers, which extends the service life of the guideways.



TPX6111B/2



TPX6111B



TPX6111B/2

TPX SERIES DRO HORIZONTAL BORING & MILLING MACHINE

TPX

MAIN TECHNICAL SPECIFICATIONS

Model	Units	TPX6111B	TPX6111B/2	TPX6111B/3	TPX61113	TPX61113/2	
Spindle	Spindle diameter	mm	110	110	110	130	130
	Spindle Taper	—	Morse No6 (ISO7:24No50)	Morse No6 (ISO7:24No50)	Morse No6 (ISO7:24No50)	Metric 80 (Optional ISO7:24No50)	Metric 80 (Optional ISO7:24No50)
	Max. spindle Torque	N.m	1225	1225	1225	3136	3136
	Max. spindle thrust	N	12250	12250	12250	31360	31360
	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
	Power of main motor	kW	7.5	7.5	7.5	15	15
Facing head	Max. facing head torque	N.m	1960	1960	1960	4900	4900
	Facing head diameter	mm	600	600	600	750	750
	Range of facing head speed	r/min	4-200	4-200	4-200	2.5-125	2.5-125
Table	Table working surface (LxW)	mm	1100x960	1100x960	1250x1100	1600x1400	1800x1600
	Max. permissible load on table	kg	2500	2500	3000	8000	10000
	T-slot	mm	22	22	22	28	28
Working range	Number of T-slot	—	7	7	7	9	11
	X-axis travel	mm	900	1250	1600	1600	2000
	Y-axis travel	mm	900	900	1200	1400	1800
	Z-axis travel	mm	1400	1400	1400	2000	2000
	W-axis travel (Spindle travel)	mm	600	600	600	900	900
	U-axis travel (Facing slide travel)	mm	180	180	180	250	250
	B-axis worktable rotary	°	360	360	360	360	360
Feed range of revolution	Distance between spindle axis and table surface	mm	0	0	0	0	0
	Rapid travel (X/Y/Z/W)	mm/min	2500	2500	2500	2500	2500
	Range of axes speed per spindle revolution (X/Y/Z/W)	mm/rev	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
Precision	Feed range (X/Y/Z/W)	mm/min	—	—	—	—	—
	Measurement system reading precision (X/Y/Z) (Z-axis measurement optional)	mm	0.005	0.005	0.005	0.005	0.005
General parameter items	B-axis measurement system reading precision (B-axis measurement optional)	°	0.001	0.001	0.001	0.001	0.001
	Overall dimensions (LxWxH)	mm	4910x2454x2750	4910x2870x2750	5120x3380x3100	6995x3647x3442	7030x4665x3800
	Weight of machine	kg	13000	14500	18000	24500	29300

• Standard: DRO for X & Y axes.

★ Optional: DRO for Z axis, DRO for B axis, DRO for W axis, rear column, ISO7:24 NO.50 spindle taper.

DRO HORIZONTAL BORING & MILLING MACHINE

TPX611C/3

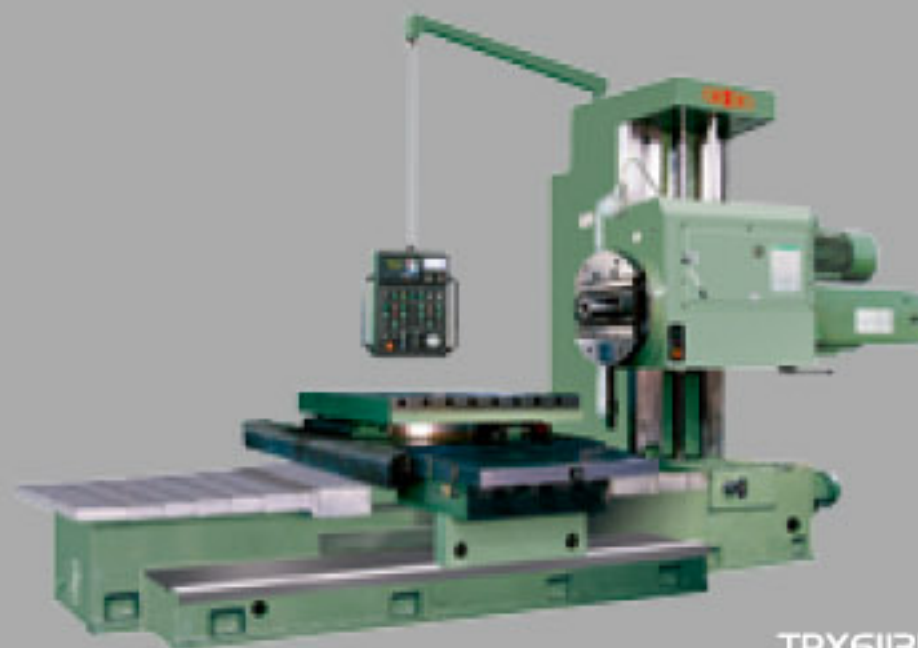
DRO Horizontal boring and milling machine TPX611C/3 model adopts inverter motor instead of traditional AC motor feeding, and realizing infinite transmission by taking use of servo feeding motor. Japan MITSUBISHI PLC adopted in electric control. Installed English spherical grating ruler in X and Y-axes. And adopt digital display with memory function. The upper and lower slides are covered with plastic guide-ways. And the taper hole is of ISO7:24No50. The rear column is optional.



TPX611C/3

TPX613B

DRO Horizontal boring and milling machine Model TPX613B adopts inverter motor instead of traditional AC motor feeding, and realizing infinite transmission by taking use of servo feeding motor, Japan MITSUBISHI PLC adopted in electric control. Installed English spherical grating ruler in X and Y-axes. And adopt digital display with memory function. The upper and lower slides are covered with plastic guide-ways. And the taper hole is of ISO7:24 No50.



TPX613B

TPX613B/2

DRO Horizontal boring and milling machine Model TPX613B/2 is modified products of Model TPX613B, with enlarged traverse travel, vertical travel and table size. Japan MITSUBISHI PLC adopted in electric control. Installed English spherical grating ruler in X and Y-axes. And adopt digital display with memory function. The rear column is optional.



TPX613B/2

TPX SERIES DRO HORIZONTAL BORING & MILLING MACHINE

MAIN TECHNICAL SPECIFICATIONS

Model	Units	TPX611C/3	TPX613B	TPX613B/2	
Spindle	Spindle diameter	mm	110	130	130
	Spindle Taper	—	ISO7:24 No50	ISO7:24 No50	ISO7:24 No50
	Max. spindle Torque	N.m	1250	2950	2950
	Max. spindle thrust	N	12250	31360	31360
	Number of spindle speed	—	Stepless	Stepless	Stepless
	Range of spindle speed	r/min	8-1100	8-800	8-800
Facing head	Power of main motor	kW	15	18.5	18.5
	Max. facing head torque	N.m	1960	4694	4694
	Facing head diameter	mm	630	750	750
	Range of facing head speed	r/min	4-200	2.5-125	2.5-125
Table	Number of facing head speed	—	18	18	18
	Table working surface (LxW)	mm	1250x1100	1600x1400	1800x1600
	Max. permissible load on table	kg	3000	8000	10000
	T-slot	mm	22	28	28
Working range	Number of T-slot	—	10	10	10
	X-axis travel	mm	1600	1600	2000
	Y-axis travel	mm	1200	1400	1800
	Z-axis travel	mm	1400(no rear column)	1500	2000(no rear column)
	W-axis travel (Spindle travel)	mm	600	900	900
	U-axis travel (Facing slide travel)	mm	180	250	250
	B-axis worktable rotary	°	360	360	360
	Distance between spindle axis and table surface	mm	0	0	0
Feed range of revolution	Rapid travel (X/Y/Z/W)	mm/min	2500	2500	2500
	Range of axes speed per spindle revolution (X/Y/Z/W)	mm/rev	—	—	—
	Feed range (X/Y/Z/W)	mm/min	0.32-2500	0.32-2500	0.32-2500
Precision	Measurement system reading precision (X/Y/Z) (Z-axis measurement optional)	mm	0.005	0.005	0.005
	B-axis measurement system reading precision (B-axis measurement optional)	°	0.001	0.001	0.001
General parameter items	Overall dimensions (LxWxH)	mm	5120x3380x3100	6995x3647x3442	7030x4665x3800
	Weight of machine	kg	18000	24500	29300

- Standard: DRO for X & Y axes.
- ★ Optional: DRO for Z axis, DRO for B axis, DRO for W axis, rear column.

DRO HORIZONTAL BORING & MILLING MACHINE

T(P)X62 Series

TPX62 series digital readout floor-type boring and milling machines are universal machine tools, which can be adopted to machine casting, steel and non-ferrous work pieces in terms of drilling, hole enlarging, boring, reaming, plane milling, spot facing, threading and other machining process. The slide of face plate can realize radial feed, which enables the machine to bore large size hole, turning excircle and grooving. TX62 series machines can be equipped with accessories such as right angle milling head, universal milling head, face plate and so on to enlarge its machining capacity. This series machine can be widely used in the industries of energy, transportation, heavy duty, petrochemical machinery, etc. It is the key equipment to machine box-type parts.

This machine consists of bed, column, saddle and headstock. The spindle headstock travels vertically along column guideways. The spindle headstock, column and saddle travel horizontally along machine bed guideways.

All basic and key parts of the machine are made of high strength casting, which makes the machine obtain ideal rigidity and long-term accuracy preservation.

The saddle guideways adopt compound structure of plastic anti-friction material against the bed-way. It has the characteristic of low friction coefficient, and provides smooth and durable movement for moving components.

The speed change of spindle rotating and axis feeding adopt hydraulic preselection and centralized operation.

The motion distribution of employ a convenient and reliable automatic control.



TPX SERIES DRO HORIZONTAL BORING & MILLING MACHINE

TPX

MAIN TECHNICAL SPECIFICATIONS

Model	Units	T(P)X6211	T(P)X6213	
Spindle	Spindle diameter	mm	110	130
	Spindle Taper	—	Morse No6(Optional ISO7:24No50)	Metric 80(Optional ISO7:24No50)
	Max. spindle Torque	N.m	1225	3136
	Max. spindle thrust	N	12250	31360
	Number of spindle speed	—	22	24
	Range of spindle speed	r/min	8-1000	4-800
	Power of main motor	kW	7.5	15
Facing head	Max. facing head torque	N.m	1960	4900
	Facing head diameter	mm	630	750
	Range of facing head speed	r/min	4-200	2.5-125
	Number of facing head speed	—	18	18
Table	Table	—	Special offer accessory	Special offer accessory
Working range	X-axis travel	mm	2000(longer option is available)	1750(longer option is available)
	Y-axis travel	mm	1600	1600/2000/2500
	W-axis travel (Spindle travel)	mm	600	900
	U-axis travel (Facing slide travel)	mm	180	250
Feed range of revolution	Rapid travel (X/Y/U/W)	mm/min	2500	2500
	Range of axes speed per spindle revolution (X/Y/W/U)	mm/rev	0.04-6/0.01-1.88	0.05-8/0.01-2
Precision	Measurement system reading precision (X/Y)	mm	0.005	0.005
General parameter items	Overall dimensions (LxWxH)	mm	Depending on specification, detailed information	Depending on specification, detailed information
			Sales department telephone	Sales department telephone
	Weight of machine	kg	Depending on specification, detailed information	Depending on specification, detailed information
			Sales department telephone	Sales department telephone

- Standard: DRO for X & Y axes.
- ★ Optional: DRO for W axis, ISO7:24 NO.50 spindle taper.

DRO HORIZONTAL
BORING & MILLING
MACHINE

TPX65^{Series}

TPX65 series digital readout double-side planer type horizontal boring and milling machines are variant product of horizontal boring and milling machine. They can be used for the machining of large parts, including the operations of drilling, boring, hole enlarging, reaming, spot facing, plane milling, grooving, threading, and other processes. This machine is equipped with the Newall spherical digital readout system, and therefore these machines are highly suitable for the machining of hole patterns on large parts, since the coordinates will be accurate.

This machine consists of headstock, column, saddle and worktable. The longitudinal movement of saddle travels along machine bed guideways. The transverse movement of worktable travels along worktable guideways.

All basic and key parts of the machine are made of high strength casting, which makes the machine obtain ideal rigidity and long-term accuracy preservation.

The saddle and worktable guideways adopt compound structure of plastic anti-friction material against the bed-way. It has the characteristic of low friction coefficient, and provides smooth and durable movement for moving components.

The speed change of spindle rotating and axis feeding incorporate hydraulic preselection and centralized operation.

The motion distribution of headstock and saddle and the clamping of each part adopt automatic control, which is convenient and reliable.



TPX6511x2



TPX6513x2

TPX SERIES
DRO HORIZONTAL
BORING & MILLING MACHINE
TPX

MAIN TECHNICAL
SPECIFICATIONS

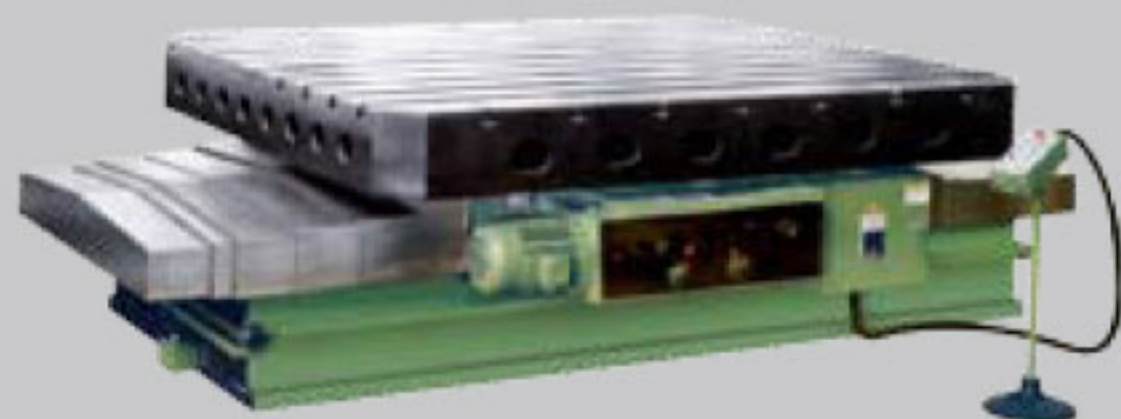
Model	Units	TPX6511x2	TPX6513x2	
Spindle	Spindle diameter	mm	110	130
	Spindle Taper	—	Morse No6(Optional ISO7:24No50)	Metric 80(Optional ISO7:24No50)
	Max. spindle Torque	N.m	1225	3136
	Max. spindle thrust	N	12250	31360
	Number of spindle speed	—	22	24
	Range of spindle speed	r/min	8-1000	4-800
	Power of main motor	kW	7.5	15
Facing head	Max. facing head torque	N.m	1960	4900
	Facing head diameter	mm	630	750
	Range of facing head speed	r/min	4-200	2.5-125
	Number of facing head speed	—	18	18
Table	Table working surface (LxW)	mm	Available upon request	Available upon request
	X-axis travel	mm	Available upon request	Available upon request
Working range	Y-axis travel (Y1/Y2)	mm	1600	1600
	Z-axis travel (Z1/Z2)	mm	500/1000/1250	500/1000/1250
	W-axis travel (W1/ W2)	mm	600	900
	U-axis travel (U1/U2)	mm	180	250
	Rapid travel (X/Y/Z/W/U)	mm/min	2500	2500
Feed range of revolution	Feed range(X)	mm/min	2.5-112	2.5-112
	Range of axes speed per spindle revolution (Y/Z/W/U)	mm/rev	0.04-6/0.01-1.88	0.05-8/0.01-2
	Precision	Measurement system reading precision (X /Y/Z)	mm	0.005
General parameter items	Overall dimensions (LxWxH)	mm	Depending on specification, detailed information	Depending on specification, detailed information
			Sales department telephone	Sales department telephone
	Weight of machine	kg	Depending on specification, detailed information	Depending on specification, detailed information
			Sales department telephone	Sales department telephone

• Standard: DRO for X/Y/Z axes.
★ Optional: DRO for W axis, ISO7:24 NO.50 spindle taper.

TPX SERIES
SOME OPTIONAL
ACCESSORIES



Angle Table



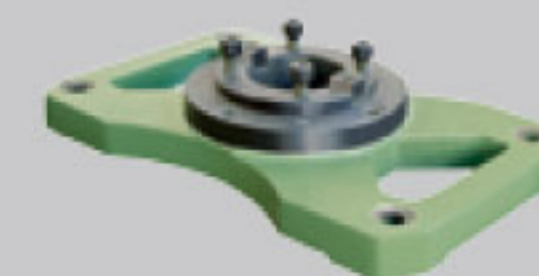
Rotary Table



Thread-cutting Tool
Holder For Spindle



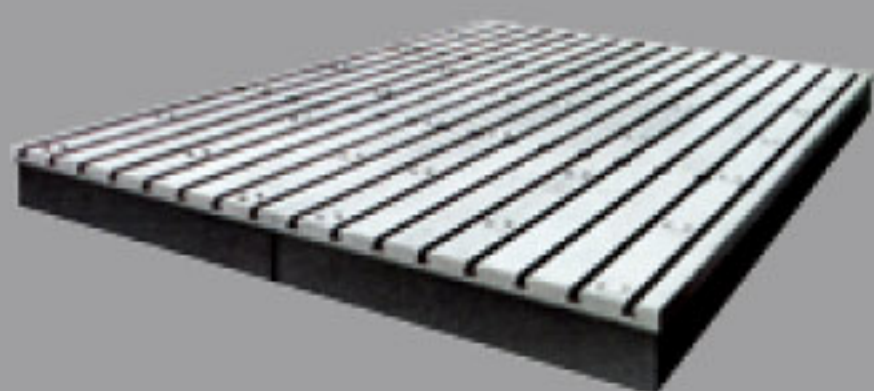
Boring Tool Holder
For Facing Head



Milling Tool Holder For Facing Head



Turning Tool Holder For Facing Head



Floor Worktable



Vertical Worktable



Universal Milling Head



Universal Boring Head



Reducing Sleeve



Straight shank



Tapping Bar



Boring Bar



Boring Tools



Changing Gears