



## **M7140A3 - Hydraulic**

**M7140A3 /1250x400mm**

- \* **Compact structure, and easy operate.**
- \* **Hydraulic transmission on longitudinal manual and auto feed on transverse, rapid movement and micro-adjust mechanism on vertical.**
- \* **The guide ways of saddle and bed is adopted with V type and plane guide pair and the low guide ways are adhesive with plastic, so that the moving is facile and light.**
- \* **DRO can be selected**
- \* **Rapid moving up or down is driven by the micro motor located on the lower of grinding head body. Drive the worm pair to complete the rapid movement. When working, pull the micro setting handle on bed to engage the worm. Then push the button on the panel. If feed by hand, disengage the micro-worm on bed to turn the hand wheel, when micro-feed, put the micro-adjustable knob to engaged the worm and turn the micro-adjusting handle to realize the micro-feed. The lead screw pair timing wheel and micro-motor is located in the saddle of bed.**

Standard Appendix:

- (1) tool box (2) balancing stand and bar (3) special wrench  
 (4)flange wrench (5) screwdriver (6)Wheel Balancing screw (7)open-end wrench (8)inner hexagon spanner (9) wheel dresser holder (10) machine stand pad (11) wheel flange  
 (12) Diamond wheel dresser (diamond pen) (13) Electro magnetic chuck**

Optional accessories:

- (1)tiltable permanent chuck or electro magnetic chuck (2) demagnetizer (3) overhead parallel dresser (4) angle dresser (5) radius dresser (6) precision vice (7) dust suction device (8) 2 - axis digital readout system  
 (9) working light (10)wheel flange**

Technical Parameters M7140A3 /1250x400mm

Description	unit	M7140A3
Max.dim grinding component(L x W x H)	mm	1250 x 400 x 405
Max.longitudinal travel	mm	1270
Max.cross travel	mm	440
Max.distance from spindle center to table surface	mm	555

Max.load of worktable	kg	450
Worktable surface(L × W)	mm	800 × 400
T-slots of worktable	mm × n	18 × 3
Speed of worktable	m/min	0-26
Backward and forward automatic feed	mm	0.5-20
Feed-rate of hand wheel	mm	0.02/div.4/rev.
Abrasive wheel dim( D×W×d )	mm	350 × 32 × 127
Spindle speed	r/min	1450
Vertical move rate per circle of micro adjusting mechanism	mm	0.04
Feed rate per scale of micro-adjusting	mm	0.001
Spindle motor	kw	5.5
Overall dimesions of machine(L × W × H)	mm	3100 × 1790 × 1917
Packaging size(L × W × H)	mm	3300 × 1900 × 2200
Net/Gross weight	t	5.4 5.0

## Auto hydraulic surface grinder



M7140A(400x800mm)

### Features:

Hydraulic transmission and manual feed on longitudinal, manual and auto feed on transverse, rapid movement and micro-adjust mechanism and manual movement on vertical.

### Standard appendix:

- (1) tool box (2) balancing stand and bar
- (3) special wrench (4) flange wrench
- (5) screwdriver (6) wheel balancing screw
- (7) open-end wrench (8) inner hexagon spanner
- (9) wheel dresser holder (10) stand pad
- (11) wheel flange (12) diamond wheel dresser
- (13) electro magnetic chuck

### Optional accessories:

- (1) tiltable permanent chuck (2) demagnetizer
- (3) overhead parallel dresser (4) angle dresser
- (5) radius dresser (6) precision vice
- (7) dust suction device (8) 2-axis DRO
- (9) working light (10) wheel flange

Description		M7140A		
Max.dim grinding component(L × W × H)	mm	800x400x405	1000x400x405	1250x400x405
Max.longitudinal travel	mm	820	1020	1270
Max.cross travel	mm	440	440	440
Max.distance from spindle center to table surface	mm	580	580	555
Max.load of worktable	kg	400	400	450
Worktable surface(L × W)	mm	800x400	1000x400	1250x400
T-slots of worktable	mmxn	18 × 3	18 × 3	18 × 3
Speed of worktable	m/min	0~26	0~26	0~26
Cross auto feed	mm	0.5~20	0.5~20	0.5~20
Cross handwheel	mm/min	144	144	144
Backward and forward hand feed(cross)	mm	0.02/Gra 4/Rev	0.02/Gra 4/Rev	0.02/Gra 4/Rev
Abrasive wheel dim(D × W × d)	mm	350x32x127	350x32x127	350x32x127
Spindle speed	r/min	1450	1450	1450
Vertical fine adjustment revolution	mm	0.04	0.04	0.04
Vertical per fine adjustment graduation	mm	0.001	0.001	0.001
Spindle motor	kw	5.5(Y132S 4B5)	5.5(Y132S 4B5)	5.5(Y132S 4B5)
Overall dimensions of machine(L × W × H)	mm	2260x1790x1917	2660x1790x1917	3100x1790x1917
Packaging size(L × W × H)	mm	2400x1990x2180	2800x1990x2180	3300x1990x2180
Net/Gross weight	t	3.0、3.3	3.8、4.2	4.2、4.6

<b>Description</b>	unit	M7140A		
Max.dim grinding component(L x W x H)	mm	800 x 400 x 430	1000 x 400 x 405	1250 x 400 x 405
Max.longitudinal travel	mm	820	1020	1270
Max.cross travel	mm	440	440	440
Max.distance from spindle center to table surface	mm	580	555	555
Max.load of worktable	kg	400	400	450
Worktable surface(L x W)	mm	800 x 400	1000 x 350	800 x 400
T-slots of worktable	mm x n	18 x 3	18 x 3	18 x 3
Speed of worktable	m/min	0-26	0-26	0-26
Backward and forward automatic feed	mm	0.5-20	0.5-20	0.5-20
Feed-rate of hand wheel	mm	0.02/div.4/rev.	0.02/div.4/rev.	0.02/div.4/rev.
Abrasive wheel dim( DxWxd )	mm	350 x 32 x 127	350 x 32 x 127	350 x 32 x 127
Spindle speed	r/min	1450	1450	1450
Vertical move rate per circle of micro adjusting mechanism	mm	0.04	0.04	0.04
Feed rate per scale of micro-adjusting	mm	0.001	0.001	0.001
Spindle motor	kw	5.5	5.5	5.5
Overall dimesions of machine(L x W x H)	mm	2260 x 1790 x 1917	2660 x 1790 x 1917	3100 x 1790 x 1917
Packaging size(L x W x H)	mm	2400 x 1900 x 2200	2800 x 1900 x 2200	3300 x 1900 x 2200
Net/Gross weight	t	4.2 3.	4.8 4.4	5.4 5.0

Auto Hydraulic Surface grinder **CE certified**

- **M230A,M7120A,M7125A,M7135A,M7140A**

<b>Description</b>	unit	M230A	M7120A	M7125A	M7135A	M7140A
Max.dim grinding component(L x W x H)	mm	450 x 230 x 330	500 x 200 x 330	500 x 250 x 330	800 x 350 x 430	800 x 400 x 430
Max.longitudinal travel	mm	500	520	520	820	820
Max.cross travel	mm	250	220	270	390	440

Max.distance from spindle center to table surface	mm	430	430	430	580	580
Max.load of worktable	kg	100	100	100	400	400
Worktable surface (L x W)	mm	450 x 230	500 x 200	500 x 250	800 x 350	800 x 400
T-slots of worktable	mm x n	12 x 1	12 x 1	12 x 1	18 x 3	18 x 3
Speed of worktable	m/min	3-23	0-22	3-23	0-26	0-26
Feed-rate of hand wheel	mm	0.02/ graduation 3 revolution	0.02/ graduation 4 revolution	0.02/graduation 3/revolution	0.02/graduation 4/revolution	0.02/graduation 4/revolution
Feed-rate of hand wheel automatic feed	mm	0.6-10	0.6-10	0.6-10	0.5-20	0.5-20
Feed-rate of hand wheel rapid feed	mm/min	144		144	144	144
Abrasive wheel dim (D x W x d)	mm	200 x 16 x 31.75	200 x 16 x 31.75	200 x 16 x 31.75	300 x 32 x 75	350 x 32 x 127
Spindle speed	mm	2850	2900	2850	1450	1450
Max. wheel more of micro-adjusting	r/min	430	430	430	530	530
Vertical move rate per circle of micro adjusting mechanism	mm	0.15	0.04	1	0.04	0.04
Feed rate per scale of micro-adjusting	mm	0.002	0.001	0.005	0.001	0.001
Spindle motor	kw	1.1	1.1	1.1	4(Y112M-4 B5)	5.5
Overall dimesions of machine(L x W x H)	mm	1500 x 1180 x 1800	1670x1350x1780	1360 x 1190 x 1660	2260 x 1722 x 1917	2260 x 1790 x 1917
Packaging size (L x W x H)	mm	1580 x 1220 x 1950	1670x1370x1990	1300 x 1220 x 1950	2400 x 1830 x 2200	2400 x 1900 x 2200
Net/Gross weight	t	1.2 1	1.6,1.5	1.2 1.1	3.3,3.0	4.2 3.