Accuracy

Reliability

Gracious

Opportunity

ARGO®

LIH CHANG MACHINERY CO., LTD.

NO.34, LANE 465, LIAN TSUEN RD.,
FONG YUEN DIST., TAICHUNG CITY 42071, TAIWAN.

TEL: 886-4-2536 7975~7 • 2538 3406~7

FAX: 886-4-2537 6120 • 2536 1245

Web: http://www.argo.com.tw

Email: argo0001@ms18.hinet.net

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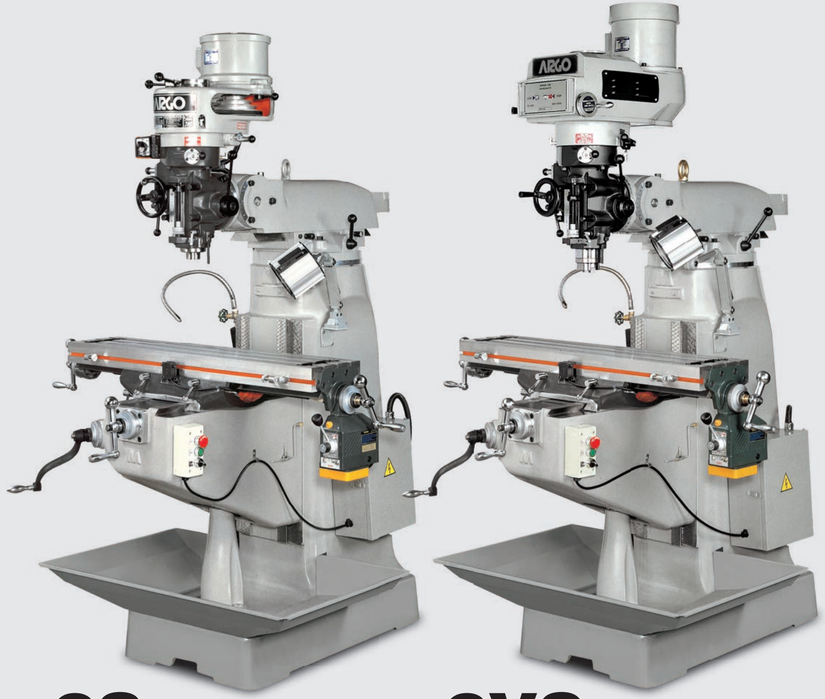
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VERTICAL TURRET
MILLING MACHINE



ARGO

LIH CHANG MACHINERY CO., LTD.



2S 2VS

SPECIFICATIONS:

Model	2S	2VS
Spindle Motor	3HP	
Spindle Speeds(rpm)	80–2720(8 speeds)	70-500 low/600-4200 high
Spindle Taper	R-8 or ISO 30	
Spindle Center to Column Face	6-3/4" min. ~ 18-3/4" max. (172mm min. ~ 477mm max.)	
Spindle Nose to Table Top	0" min. ~ 18" max. (0mm min. ~ 458mm max.)	
Quill Diameter	3.375" (86mm)	
Quill Feeds (3)	.0015", .003", .006" (.04mm, .08mm, .15mm)	
Quill Travel	5" (127mm)	
Head Tilt	45° Forward 45° Backward 90° Right 90° Left	
Ram Travel	14" (356mm)	
Ram Swivel	360°	
Working Surface	9" x 42" (229x1067mm) 9" x 49" (229x1245mm)(op)	
Max. Workpiece Weight	300kgs	
Longitudinal Travel	30" (762mm)	
Cross Travel	12" (305mm)	
Vertical Travel	16" (407mm)	
Approx. Machine Weight	950kgs	

Standard Accessories:

- Y axis hardened and ground way
- One complete set of rubber guard, tool box and draw bar



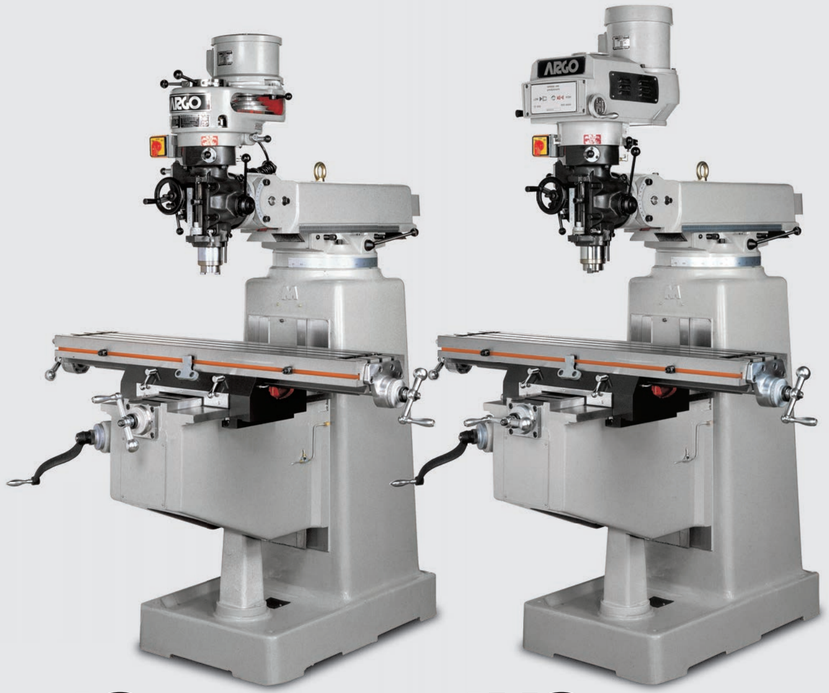
3H 3VH

SPECIFICATIONS:

Model	3H	3VH
Spindle Motor	3HP	
Spindle Speeds(rpm)	80–2720(8 speeds)	70-500 low/600-4200 high
Spindle Taper	R-8 or ISO 30	
Spindle Center to Column Face	6-3/4" min. ~ 29-3/4" max. (172mm min. ~ 756mm max.)	
Spindle Nose to Table Top	0" min. ~ 17-5/16" max. (0mm min. ~ 440mm max.)	
Quill Diameter	3.375" (86mm)	
Quill Feeds (3)	.0015", .003", .006" (.04mm, .08mm, .15mm)	
Quill Travel	5" (127mm)	
Head Tilt	45° Forward 45° Backward 90° Right 90° Left	
Ram Travel	18" (458mm)	
Ram Swivel	360°	
Working Surface	10" x 50" (254x1270mm) 10" x 54" (254x1372mm)(op)	
Max. Workpiece Weight	300kgs	
Longitudinal Travel	35" (890mm)	
Cross Travel	15.1" (384mm)	
Vertical Travel	16" (407mm)	
Approx. Machine Weight	1250kgs	

Standard Accessories:

- Y axis hardened and ground way
- X & Y axes supplied with Turcite B
- One complete set of rubber guard, tool box and draw bar



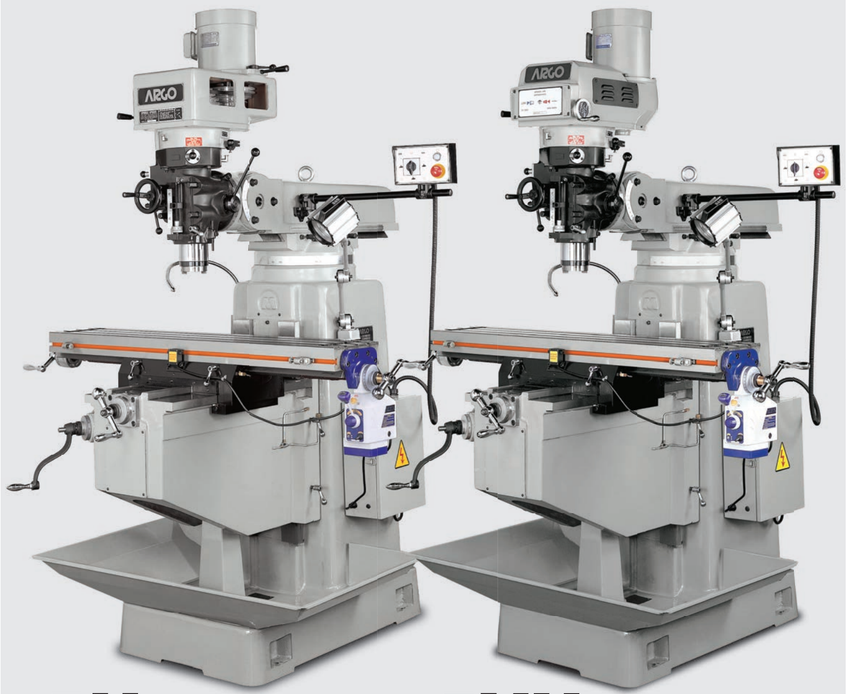
4S 4VS

SPECIFICATIONS:

Model	4S	4VS
Spindle Motor	3HP	
Spindle Speeds(rpm)	80–2720(8 speeds)	70-500 low/600-4200 high
Spindle Taper	R-8 or ISO 30	
Spindle Center to Column Face	6-3/4" min. – 29-3/4" max. (172mm min. – 756mm max.)	
Spindle Nose to Table Top	0" min. – 16-1/2" max. (0mm min. – 420mm max.)	
Quill Diameter	3.375" (86mm)	
Quill Feeds (3)	.0015", .003", .006" (.04mm, .08mm, .15mm)	
Quill Travel	5" (127mm)	
Head Tilt	45° Forward 45° Backward 90° Right 90° Left	
Ram Travel	18" (458mm)	
Ram Swivel	360°	
Working Surface	10" x 50" (254x1270mm) 10" x 54" (254x1372mm)(op)	
Max. Workpiece Weight	300kgs	
Longitudinal Travel	35" (890mm)	
Cross Travel	15.1" (384mm)	
Vertical Travel	16" (407mm)	
Approx. Machine Weight	1250kgs	

Standard Accessories:

- Y axis hardened and ground way
- X & Y axes supplied with Turcite B
- One complete set of rubber guard, tool box and draw bar



5H 5VH

SPECIFICATIONS:

Model	5H	5VH
Spindle Motor	3HP	5HP
Spindle Speeds(rpm)	60–3600(10 speeds)	80-3800
Spindle Taper	ISO 40	
Spindle Center to Column Face	6-3/4" min. – 29-3/4" max. (172mm min. – 756mm max.)	
Spindle Nose to Table Top	0" min. – 18" max. (0mm min. – 458mm max.)	
Quill Diameter	3.94" (100mm)	
Quill Feeds (3)	.0015", .003", .006" (.04mm, .08mm, .15mm)	
Quill Travel	5" (127mm)	
Head Tilt	45° Forward 45° Backward 90° Right 90° Left	
Ram Travel	18" (458mm)	
Ram Swivel	360°	
Working Surface	10" x 50" (254x1270mm) 10" x 54" (254x1372mm)(op)	
Max. Workpiece Weight	340kgs	
Longitudinal Travel	35" (890mm)	
Cross Travel	16" (407mm)	
Vertical Travel	16" (407mm)	
Approx. Machine Weight	1450kgs	

Standard Accessories:

- Y & Z axes hardened and ground way
- X & Y axes supplied with Turcite B
- One complete set of rubber guard, tool box and draw bar



5HL 5VHL

SPECIFICATIONS:

Model	5HL	5VHL
Spindle Motor	3HP	5HP
Spindle Speeds(rpm)	60–3600(10 speeds)	80-3800
Spindle Taper	ISO 40	
Spindle Center to Column Face	6-3/4" min. – 29-3/4" max. (172mm min. – 756mm max.)	
Spindle Nose to Table Top	0" min. – 16" max. (0mm min. – 400mm max.)	
Quill Diameter	3.94" (100mm)	
Quill Feeds (3)	.0015", .003", .006" (.04mm, .08mm, .15mm)	
Quill Travel	5" (127mm)	
Head Tilt	45° Forward 45° Backward 90° Right 90° Left	
Ram Travel	18" (458mm)	
Ram Swivel	360°	
Working Surface	12" x 50" (305x1270mm)	
Max. Workpiece Weight	340kgs	
Longitudinal Travel	32.3" (820mm)	
Cross Travel	15" (380mm)	
Vertical Travel	14.2" (360mm)	
Approx. Machine Weight	1550kgs	

Standard Accessories:

- Y & Z axes hardened and ground way
- X & Y axes supplied with Turcite B
- One complete set of rubber guard, tool box and draw bar

OPTIONAL

INVERTER MOTOR AND INVERTER



INVERTER MOTOR



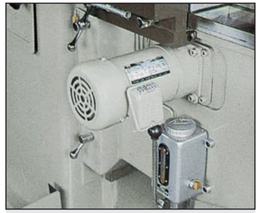
OPERATION PANEL



INVERTER



PNEUMATIC POWER DRAWBAR



Z-AXIS DRIVEN MOTOR

Provides a rapid feed of 800 mm/min

Optional accessories:

1. Coolant system
2. Splash guard
3. Auto lubrication system
4. X axis power feed
5. Y axis power feed
6. Z axis power feed
7. Halogen work light
8. Z axis driven motor (N/A on 2S/2VS)
9. Pneumatic power drawbar
10. Inverter motor & inverter
11. Electrical box
12. CE mark
13. Digital readout system
14. Two speeds motor
15. X, Y axes ball screw
16. Clamping kits

