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CHUNG SING MACHINERY CO., LTD.

E-mail: csmill@ms27.hinet.net http://www.chungsing.com



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Vertical & Horizontal Milling Machine

CS-G450A

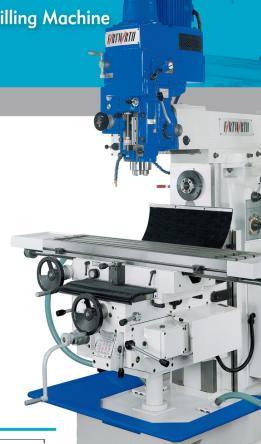
- Turret type milling head with 12 steps speed spindle.
- With electromagnetic brake for vertical spindle.
- Two direction boring on power quill feed.
- "Joystick" on vertical spindle used for tapping cycle.
- One horizontal arbor and two supports.
- Backlash eliminator on table travel.
- Central lubrication system.
- 3 axis power feed and rapid traverse by a single motor.
- Swivel table(option).
- With long table 1500x300mm and extend X-axis travel to 1050mm(option).

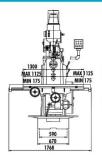


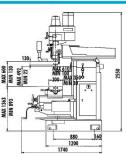
Vertical & Horizontal Milling Machine

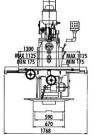
CS-G450B

- Variable vertical spindle speed.
- With electromagnetic brake for vertical spindle.
- Two direction boring on power quill feed.
- "Joystick" on vertical spindle used for tapping cycle.
- One horizontal arbor and two supports.
- Backlash eliminator on table travel.
- Central lubrication system.
- 3 axis power feed and rapid traverse by a single motor.
- Swivel table(option).
- With long table 1500x300mm and extend X-axis travel to 1050mm(option).













Vertical & Horizontal Milling Machine

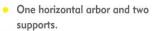
F/RTH/RTH

CS-G450C

- Variable spindles speed controlled by an Inverter.
- With electromagnetic brake for vertical spindle.
- Two direction boring on power quill feed.
- One horizontal arbor and two supports.
- Backlash eliminator on table travel
- Central lubrication system.
- 3 axis power feed and rapid traverse by a single motor.
- Swivel table(option).
- With long table 1500x300mm and extend X-axis travel to 1050mm(option).

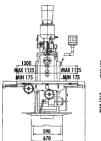


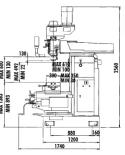
CS-H450

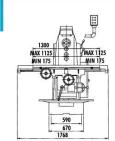


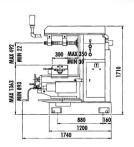
- Backlash eliminator on table travel.
- Central lubrication system.
- 3 axis power feed and rapid traverse by a single motor.
- With 7.5HP motor for main spindle(option).
- Spindle nose ISO no.50 (option).
- Swivel table for model CS-U450.
- With long table 1500x300mm and extend X-axis travel to 1050mm (option).













Exceptional Design

X,Y and Z axes feed and rapid

X, Y and Z axes are driven by a single 3HP powerful motor for simultaneously operating rapid traverse and cutting feed of machine movement.



The power quill feed is electrically controlled for smooth movement and precision machining.



Inside Chrome-Moly Gear are hardened and precision ground, connecting with high precision bearings to offer a trouble-free drive system fpr spindle, even operated with maximum power.



Two extra wide box-shape ways

Y-axis is constructed with two extra wide box-shape ways, which are hardened and ground, ensuring the best rigidity and accuracy and preventing table swing.

Y -axis adapts leadscrews which are mounted in the center of knee, preventing contamination and damage from coolant, dirt, chips etc, and keeping the table movement free of vibration caused by uneven surface contact between saddle and the knee.



Climb Milling Compensator

permits the users to operate the machine horizontal climbing milling function smoothly and stably with ease.



Automatic Central Lubrication System

provides the most proper volume of lube at desired time intervals to all contact surfaces of table, saddle and column slideways, ensuring clean lube supply at all times for trouble-free and smooth operation.

SPECIFICATIONS:

Design and specifications are subject to change without prior notice.

	CS-G450A	CS-G450B	CS-G450C	CS-H450	CS-U450
Table					
Working surface (length x width) Travel (longitudinal x cross x vertica T-slot (nominal size x No. x pitch)	1300 x 300mm 950 x 320 x 470mm 16mm x 3 x 70mm	1300 x 300mm 950 x 320 x 470mm 16mm x 3 x 70mm	1300 x 300mm 950 x 320 x 470mm 16mm x 3 x 70mm	1300 x 300mm 950 x 320 x 470mm 16mm x 3 x 70mm	1300 x 300mm 950 x 320 x 470mm 16mm x 3 x 70mm
Feeds 12 steps Longitudinal x cross 60HZ Vertical 60HZ	13-621 mm/min 7-361 mm/min	13~621 mm/min 7~361 mm/min	13~621 mm/min 7~361 mm/min	13~621 mm/min 7~361 mm/min	13~621 mm/min 7~361 mm/min
Rapid Traverse Longitudinal x cross 60HZ Vertical 60HZ Swivel table (left & right)	2,960 mm/min 1,520 mm/min	2,960 mm/min 1,520 mm/min	2,960 mm/min 1,520 mm/min	2,960 mm/min 1,520 mm/min	2,960 mm/min 1,520 mm/min 45 deg
Vertical spindle					
Spindle nose Spindle speed 60HZ Spindle speed 50HZ	ISO R297 No. 40 85-3150 rpm 70-2625 rpm 12 steps	ISO R297 No. 40 120~3600 rpm 100~3000 rpm variable speed	ISO R297 No. 40 40~4000 rpm 40~4000 rpm variable speed		
Distance from spindle end to table Distance from center	130-600 mm	130~600 mm	130~600 mm	_	_
of spindle to column Quill feeds	0.048, 0.096,	0.048, 0.096,	0.048, 0.096,	_	_
Quill travel Swivelling angle of head (left & righ Cross travel ram Horizontal rotating angle of ram	0.192 mm/rev 130 mm 45 deg 510 mm 360 deg	0.192 mm/rev 130 mm 45 deg 510 mm 360 deg	0.192 mm/rev 130 mm 45 deg 510 mm 360 deg	- - -	_ _ _
Horizontal spindle	occ deg	ooo acg	occ acg		
Spindle nose Spindle speeds (12 steps)60HZ Spindle speeds (12 steps)50HZ Distance from center of spindle to overarm	ISO R297 No. 40 45~1700 rpm 36~1415 rpm 182 mm	ISO R297 No. 40 45~1700 rpm 36~1415 rpm 182 mm	ISO R297 No. 40 45~1700 rpm — 182 mm	ISO R297 No. 40 45~1700 rpm 36~1415 rpm 135 mm	ISO R297 No. 40 45~1700 rpm 36~1415 rpm 135 mm
Distance from center of spindle to table	22~492 mm	22~492 mm	22~492 mm	22~492 mm	0~470 mm
Motors					
For vertical spindle For horizontal spindle For table feed and rapid traverse	AC 2.2 kW~4P AC 3.7 kW~4P AC 2.2 kW~4P	AC 3.7 kW~4P AC 3.7 kW~4P AC 2.2 kW~4P	AC 3.7 kW~4P AC 3.7 kW~4P AC 2.2 kW~4P	— AC 3.7 kW~4P AC 2.2 kW~4P	AC 3.7 kW~4P AC 2.2 kW~4P
For cutting fluid pump	AC 0.1 kW~2P	AC 0.1 kW~2P	AC 0.1 kW~2P	AC 0.1 kW~2P	AC 0.1 kW~2P
Machine size					
Overall height Floor area Net weight (approx)	2390 mm 670 x 1200 mm 2,650 kgs	2550 mm 670 x 1200 mm 2,650 kgs	2560 mm 670 x 1200 mm 2,650 kgs	1710 mm 670 x 1200 mm 2,350 kgs	1710 mm 670 x 1200 mm 2,350 kgs

Standard Accessories:

Cutting fluid equipment	1 unit
Cutting arbor and sleeve	1 unit
Aujustinent tools	1 set
Tool box	1 set

Chip pan 1 pc
Draw bar 1 pc
Leveling blocks 4 pcs
Leveling bolts 4 sets

Options:

Digital Read Out Air Power Draw Bar