

SUPREME ACCURACY. EXCELLENT QUALITY.



HIGH SPEED PRECISION LATHE

With circular shaped design, KINWA CH series high speed lathe features extremely stable and rigid machine structure. This leads to an unmatched stability in machining.

- Swing over bed: 406 / 432 / 532 mm.
- Distance between centers:

767 / 1067 / 1667 mm.

- Spindle bore: Ø51 / Ø58 / Ø78 mm.
- Spindle speeds:

70~1800 r.p.m. (Ø51 mm spindle bore) 35~2000 r.p.m. (Ø58 mm spindle bore)

29~1650 r.p.m. (Ø78 mm spindle bore)

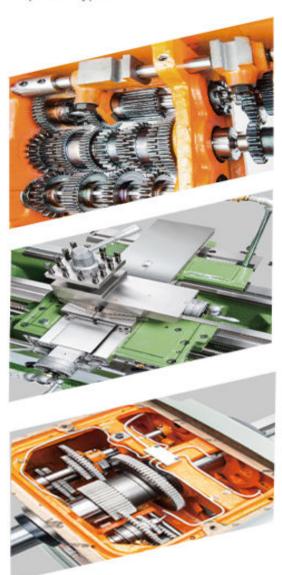


VIETNAM CAD/CAM TECHNOLOGY CO.,LTD



SPINDLE

- The spindle runs in P class taper roller bearing that exhibits outstanding stability in heavy cutting.
- Class P5 spindle bearings are optional.
- Various types of spindle noses to select.
- The spindle structure shown as above is for reference only. Each model has its own spindle type.





APRON

- The foolproof feed lock function makes it possible to engage the power feed simultaneously with thread cutting.
- Oil bath lubrication.
- Equipped with a manual, automatic combined lubrication pump for lubricating across slideways and bedways.
- Equipped with an overload protection device for safety.
- Feed is adjustable

GEAR BOX

- Metric and inch threads combination gearbox.
- Equipped with a shear pin for overload protection.
- Oil bath lubrication

H4 TOOL POST

- The H4 turret accommodates O.D. tool, I.D. tool, grooving tool and threading tool.
- Square tool shank sizes: 20 x 20 mm (CH-400)
 25 x 25 mm (CH-430 / 530)

HEADSTOCK

- The highly rigid headstock construction features maximum stability in high speed machining.
- The use of JIS class-1 gears assures smooth running.
- Headstock lubrication employs an oil bath and forced lubrication system.

TAILSTOCK

The tailstock quill is carburized and precision ground with graduation in inch and metric scales.

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MEDIUM PRECISION LATHE

KINWA CHD series medium precision lathe is built with a massive bed with 400 mm of bed width. The series of lathe is designed with an extra large spindle bore of Ø86 mm or Ø104 mm, making it the first choice in medium-sized part machining.

- Swing over bed: 560 / 660 / 760 mm.
- Distance between centers: 808~3983 mm.
- Spindle bore: Ø86 / Ø104 mm.
- Spindle speeds: 13~1200 r.p.m. (4P)

GEAR BOX

- Metric and inch threads combination gearbox.
- Equipped with a shear pin for overload protection.
- Oil bath lubrication.

SPINDLE

- The spindle is supported at 3 points.
- The spindle runs P class taper roller bearings that exhibit outstanding stability in heavy cutting.
- Various types of spindle noses to select.



HEADSTOCK

- All gears in the headstock are manufacturing from alloy steel, carburized and precision ground.
- The use of JIS class 1 gears assures smooth running.
- Headstock lubrication employs an oil bath and forced lubrication system.

TAILSTOCK

- Manual feed of tailstock quill is transmitted through 1:1 or 1/4:1 speed reduction, making drilling effortless.
- Ø80 mm oversized tailstock quill effectively increases workpiece supporting capacity and stability.
- The tailstock quill is carburized and precision ground with graduation in inch and metric scales.
- Easy to move the tailstock by turning a handle.

APRON

- The foolproof feed lock function makes it impossible to engage the power feed simultaneously with thread cutting.
- Oil bath lubrication.
- Equipped with an automatic lubrication pump for lubricating across slideways and bedways.
- In case the apron is equipped with a rapid traverse device, manual lubrication will be used.
- Power feed is equipped with a torque adjustment device.

BED The bed is manufactured from high quality cast iron, and stress relieved for deformation-free performance year after year. Bed slideways are hardened (hardness HS70°) and precision ground, featuring outstanding wear-resistance.



Quick change toolpost



Steady rest / Follow rest



3-Jaw scroll chuck



3-Jaw strong scroll chuck



4-Jaw independent chuck



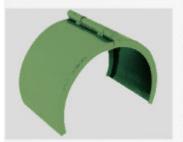
Face plate



Stop block



4-position carriage stop / Micro carriage stop



Chuck guard



Drill attachment



1. Rear toolpost

2. Taper turring attachment

SPECIFICATIONS

CH series							
ITEM		CH-400	CH-430	CH-530			
Capacity	Swing over bed	406 mm	432 mm	532 mm			
	Swing over carriage	238 mm	268 mm	368 mm			
	Swing over gap	580 mm	610 mm	710 mm			
	Max. turning diameter	385 mm	385 mm	385 mm			
	Width of gap in front of face plate		150 mm				
	Distance between centers (A1-6, A2-6)	767, 1067, 1667 mm					
	Width of bed	300 mm					
	Stroke of tool post	145 mm					
	Stroke of cross slide	265 mm					
Headstock	Spindle bore	51 mm	58 mm (78 mm 選配 opt.)				
	Taper of spindle bore & center		MT6 x MT4				
	Spindle nose	A1-6, D1-6 (A2-6, D2-6, D1-8 選配 opt.)					
	Number of spindle speeds	8	12				
	Spindle speed (60 Hz)	70, 110, 180, 290, 430, 690, 1125, 1800 r.p.m.	Ø58 mm: 35, 52, 75, 110, 160, 230, 330, 490, 650, 950, 1350, 2000 r.p.m. Ø78 mm: 29, 43, 62, 90 130, 190, 275, 405, 540, 790, 1120, 1650 r.p.m.				
Threading & feeds	Number of feeds	36					
	Range of longitudinal feeds (metric)	0.07~0.50 mm/rev	0.037~1.04 mm/rev (P=6 mm) 0.035~0.98 mm/rev (4 TPI)				
	Range of cross feeds	1/2 縱向進給 Half of longitudinal feeds					
	Leadscrew diameter	35 mm					
	Leadscrew pitch	4 TPI, P=6 mm					
	Range of inch pitches	4~42 TPI (36 kinds)	2~72 TPI (44 kinds)				
	Range of metric pitches	0.4~7.0 mm (36 kinds)	0.2~14 mm (39 kinds)				
Tailstock	Quill stroke	170 mm					
	Quill diameter	60 mm					
	Quill taper	MT#4					
Motor	Main motor (30 min.)	5 HP (7.5 HP 選配 opt.)					
	Coolant pump motor	1/8 HP					
Machine dimension	Height	1400 mm					
	Floor space	2000, 2300, 2900 x 1000 mm					
		1450, 1550 kgs	1500, 1600, 1800 kgs	1600, 1700, 1900 kgs			

specification are subject to change without notice.

STANDARD ACCESSORIES

- 9" 3-jaw chuck with back plate
- Leveling screws
- Service kits & tool box
- Main motor 5 HP / 4 P
- Steady rest
- Coolant system
- Multi-position length stop
- Work light

OPTIONAL ACCESSORIES

- Follow rest
- Face plate (350 mm)
- 4-position carriage stop
- Taper turning attachment
- 3-jaw chuck
- 4-jaw independent chuck
- Rear toolpost
- Main motor 7.5 HP / 4 P
- Full length splash guard
- Drill attachment
- Spindle bore 78 mm with 10" 3-jaw chuck & back plate (for CH-430 / CH-530)
- Digital read out
- Center sleeve MT6 x MT4
- Dead center (MT4) 2 pcs

CHD series

ITEM		CHD-560	CHD-660	CHD-760	
Capacity	Swing over bed	560 mm	660 mm	760 mm	
	Swing over carriage	340 mm	445 mm	548 mm	
	Swing over gap	797 mm	892 mm	990 mm	
	Max. turning diameter	622 mm	622 mm	592 mm	
	Width of gap in front of face plate	270 mm			
	Distance between centers (A1-6, A2-6)	808, 1443, 2218, 2968, 3983 mm			
	Width of bed	400 mm			
	Stroke of tool post	242 mm			
	Stroke of cross slide	400 mm			
Headstock	Spindle bore	86 mm (104 mm 選配 opt.)	104 mm		
	Taper of spindle bore & center	MT7 x MT5			
	Spindle nose	A1-8, D1-8 (A2-8, D2-8, D1-11 選配 opt	A2-8, D2	A2-8, D2-8, D1-11	
	Number of spindle speeds	12			
	Spindle speed (60 Hz)	4P: 13, 20, 30, 47, 70, 105, 150, 230, 340, 530, 800, 1200 rpm 6P: 8, 13, 20, 31, 47, 70, 100, 150, 230, 350, 530, 800 r.p.m.			
	Number of feeds	36			
	Range of longitudinal feeds (metric)	0.037~1.04 mm/rev (P=6 mm, 12 mm) 0.035~0.98 mm/rev (4 TPI, 2 TPI)			
	Range of cross feeds	1/2 縱向進給 Half of longitudinal feeds			
Threading	Leadscrew diameter	45 mm			
& feeds	Leadscrew pitch	4 TPI, P=6 mm (2 TPI, P=12 mm)			
	Range of inch pitches	2~72 TPI / 44 kinds (1~42 TPI / 48 kinds)			
	Range of metric pitches	0.2~14 mm / 39 kinds (0.4~28 mm / 44 kinds)			
Tailstock	Quill stroke	250 mm			
	Quill diameter	80 mm			
	Quill taper	MT#5			
	Main motor (30 min.)	10 HP / 4HP 7.5 HP / 6P			
Motor	coolant pump motor	1/8 HP			
Machine dimension	Height	1500 mm			
	Floor space	2300, 2900, 3700, 4500, 5500 x 1200 mm			
	Weight	2300, 2400, 2900, 3100, 3600 kgs	2400, 2500, 3000, 3200, 3700 kgs	2600, 2700, 3200, 3400 kg	

Specification are subject to change without notice.

STANDARD ACCESSORIES

- 10" 3-jaw chuck with back plate for Ø86 mm
- 12" 3-jaw chuck with back plate for Ø104 mm
- Leveling screws
- Service kits & tool box
- Main motor 10 HP / 4 P
- Main motor 7.5 HP / 6 P for CHD-760
- Steady rest 40~255 mm
- Coolant system
- Multi-position length stop
- Rapid traverse for 2300, 3000, 4000
- Work light

OPTIONAL ACCESSORIES

- Follow rest
- Face plate (500 mm)
- 4-position carriage stop
- Taper turning attachment
- 4-jaw independent chuck
- Steady rest 190~405 mm
- Digital read out
- Full length splash guard
- Center sleeve MT7 x MT5
- Dead center (MT5) 2 pcs