

Standard Accessories

Model	CH-430 / CH-500	CH-510	CH-600 / CH-660 CH-740 / CH-870
Fixed center	● MT#4	● MT#4	● MT#5
Coolant system	●	●	●
Work light	●	●	●
3-jaw chuck with plate	● 9"	● 10"	● 12"
Steady rest	●	●	●
4-way tool post	●	●	●
Magnetic brake	-	-	●
Clutch for spindle	-	-	●
Rapid traverse for longitudinal	-	-	●
Tool box with tool kits	●	●	●
Pad	●	●	●

Optional Accessories

Model	CH-430 / CH-500	CH-510	CH-600 / CH-660 CH-740 / CH-870
Inverter motor	●	●	●
4-jaw chuck	●	●	●
Follow rest	●	●	●
Rotation center	● MT#4	● MT#4	● MT#5
LED quartz light	●	●	●
Drive plate	●	●	●
Face plate	●	●	●
Quick change tool post (4 or 6 pcs)	●	●	●
Micro bed stop	●	●	●
Position bed stop	● 4	● 4	● 6
DRO	●	●	●
Taper attachment	● 17"	● 17"	● 24"
Protection cover (Chuck / tool post / leadscrew guard, full length splash guard)	●	●	●



APRON



SPINDLE



GEARBOX

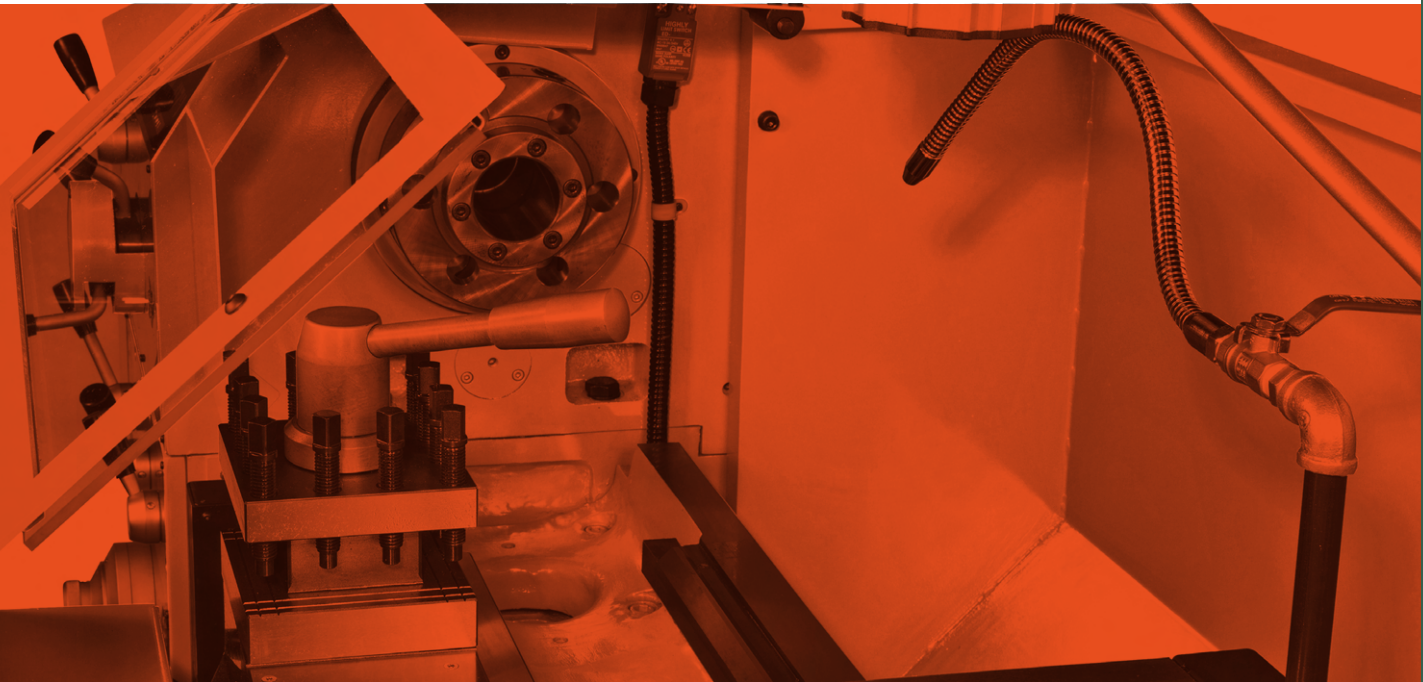


HEADSTOCK



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ELABORATION PINPOINT EXCELLENCE

FEATURES

- Independently mounted electrical box is easy to maintain, and is equipped with an overload protection device for safety.
- The metric/inch commonly used gearbox does not need to change gears when changing the unit. It has low noise and circulated lubrication system. The back gears are equipped with a safety cutting protection device.
- All gears in the headstock are carburized heat treated and precision ground for high precision and extended service life.
- The apron employs an enclosed oil bath lubrication system for increased lubrication effect.
- One-piece cast base features maximum durability. The bed is high frequency heat treated and precision ground.
- The foot emergency stop device can also shut power off at the same time, ensuring the safety for the operator and machine.
- The gap can be removed when machining large work pieces is required.

HIGH SPEED PRECISION LATHE



CH-430 / 500

- 12-step spindle speed effectively shortens the machining time. (3-step speed change for the series with inverter motor).
 - 58mm spindle bore allows for machining of large shafts.
 - The robust tailstock has an oversized quill.
- The specially designed center and the over-travel prevention device prevent the tailstock sleeve from dropping off.
- Longer tool holder fully meets machining requirements.

CH-510

- 12-step spindle speed effectively shortens the machining time. (4-step speed change for the series with inverter motor).
- 82mm spindle bore with the use of FAG bearings for maximum durability, allowing for light and heavy cutting.
- The tailstock with 2-step speed change is suitable for drilling operations.

PRECISION HEAVY-DUTY LATHE



CH-600 / 660 / 740 / 870

- 12-step spindle speed effectively shortens the machining time. (4-step speed change for the series with inverter motor).
- 104mm spindle bore with the use of TIMKEN bearings for maximum durability and heavy cutting.
- The headstock is equipped with a clutch that helps to save electricity and operate easily.
- The magnetic braking system is faster and safer than conventional system.
- The tailstock with 2-step speed change is suitable for drilling operations.
- The apron provides automatic feed and employs an enclosed oil bath lubrication system for increased lubrication effect.
- The bed is high frequency heat treated and precision ground.

MACHINE SPECIFICATIONS

ITEMS	Unit	430 x 580 (V)	430 x 750 (V)	430 x 1000 (V)	430 x 1500 (V)	430 x 2000 (V)	500 x 1000 (V)	500 x 1500 (V)	500 x 2000 (V)	510 x 1000 (V)	510 x 1500 (V)	510 x 2000 (V)	600 x 1500 (V)	600 x 2000 (V)	600 x 3000 (V)	600 x 4000 (V)	660 x 1500 (V)	660 x 2000 (V)	660 x 3000 (V)	660 x 4000 (V)	740 x 1500 (V)	740 x 2000 (V)	740 x 3000 (V)	740 x 4000 (V)	870 x 1500 (V)	870 x 2000 (V)	870 x 3000 (V)	870 x 4000 (V)											
CAPACITY																																							
Center height	mm	215					250			255			300				330				370				435														
Swing over bed	mm	430					500			510			600				660				740				870														
Swing over gap	mm	660					730			735			820				880				960				1100														
Swing over cross slide	mm	245					280			285			380				440				520				590														
Distance between centers	mm	580	750	1000	1500	2000	1000	1500	2000	1000	1500	2000	1500	2000	3000	4250	1500	2000	3000	4250	1500	2000	3000	4250	1500	2000	3000	4250											
Bed width	mm	300											300											420															
Bed length	mm	1480	1600	1950	2440	2960	1950	2440	2960	1950	2440	2960	2590	3090	4160	5700	2590	3090	4160	5700	2590	3090	4160	5700	2590	3090	4160	5700											
SPINDLE																																							
Spindle bore diameter	mm	58											82											104															
Spindle nose		A1-6 or D1-6											A1-8 or D1-8											A1-11 or D1-11															
Spindle taper		MT#6											MT#8											108 x 1:20															
Spindle speed	RPM	20~2000 (12 steps)											25~1500 (12 steps)											25~1200 (12 steps)															
Spindle speed (V series)	RPM	42~2300 (3 steps)											30~1500 (4 steps)											20~1200 (4 steps)															
CARRIAGE																																							
Cross slide travel	mm	250											250											330				380				420				550			
Tool holder travel	mm	180											180											230															
Cutting tool size	mm	25 x 25											25 x 25											25 x 25															
TAILSTOCK																																							
Spindle diameter	mm	58											58											77															
Spindle travel	mm	150											150											178															
Center taper		MT#4											MT#4											MT#5															
THREADING & FEEDING																																							
System		Metric / Inch / Mixed											Metric / Inch / Mixed											Metric / Inch / Mixed															
Dia. of leadscrew	ø	35											35											38															
(Metric) pitch of leadscrew	mm / pitch	6											6											6															
(Inch) pitch of leadscrew	TPI	4											4											4															
Metric pitch threads	mm	0.5~7 (22 kinds)											0.5~7 (22 kinds)											0.5~14 (31 kinds)															
Inch pitch threads	TPI	4~56 (36 kinds)											4~56 (36 kinds)											2~56 (45 kinds)															
Module pitch threads	M.P.	0.5~3.5 (12 kinds)											0.5~3.5 (12 kinds)											0.25~7 (23 kinds)															
Pitch thread diameter	D.P.	8~56 (21 kinds)											8~56 (21 kinds)											4~112 (43 kinds)															
Longitudinal feeds	mm / rev.	0.05~0.70											0.05~0.70											0.03~0.73															
Cross feeds	mm / rev.	0.025~0.35											0.025~0.35											0.01~0.3															
MOTOR																																							
Main motor	HP	5					7.5			7.5			15																										
Inverter motor (V series)	HP	7.5					10			10			20																										
Rapid traverse motor	HP	-											-											1/2															
Coolant pump motor	HP	1/8											1/8											1/8															
FLOOR SPACE (Length x Width)	cm	171 x 65	185 x 65	210 x 65	265 x 65	320 x 65	210 x 70	265 x 70	320 x 70	210 x 80	265 x 80	320 x 80	298 x 115	350 x 115	437 x 115	572 x 115	298 x 118	350 x 118	437 x 118	572 x 118	298 x 122	350 x 122	437 x 122	572 x 122	298 x 128	350 x 128	437 x 128	572 x 128											
NET WEIGHT	kg	1450	1500	1600	1700	2300	1700	2100	2400	2000	2100	2500	3700	3900	4400	4700	3900	4100	4600	4900	4100	4300	4800	5100	4300	4500	5000	5300											
PALLET SIZE (Length x Width)	cm	185 x 103	200 x 103	227 x 103	271 x 103	331 x 109	227 x 119	273 x 118	330 x 118	227 x 119	272 x 119	330 x 119	312 x 146	364 x 155	458 x 155	585 x 155	312 x 146	364 x 155	458 x 155	585 x 155	312 x 146	364 x 155	458 x 155	585 x 155	312 x 146	364 x 155	458 x 155	585 x 155											
PALLET SIZE (Height)	cm	172	172	172	172	173	172	200	179	179	200	179	197	197	197	197	197	197	197	197	197	197	197	197	197	197	197	197											