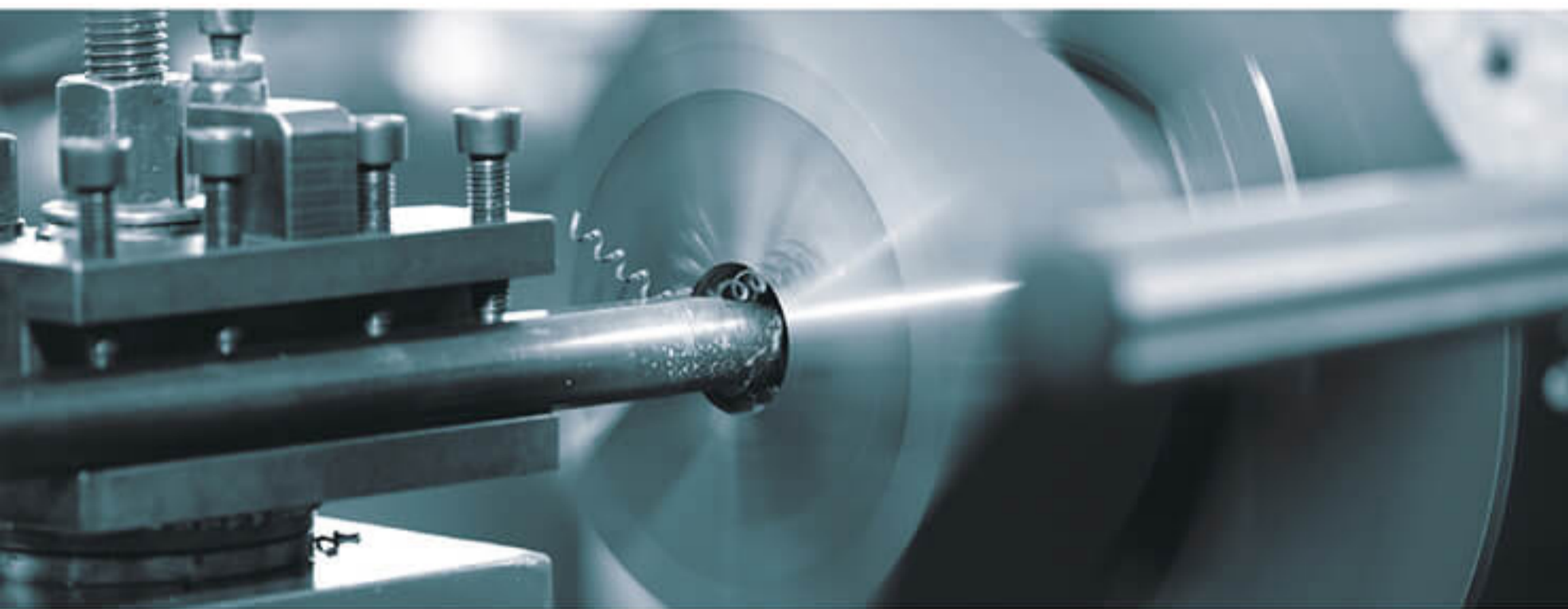




**SUN MASTER**



**CH / CH-V SERIES** .....

**HEAVY DUTY  
LATHE MACHINE**



# CH CH-V Series



- All castings are properly stabilized and stress relieved.
- Bed ways are hardened & ground to min. HRC48-55.
- Extremely low noise level.
- Foot brake pedal provided.
- Wider bed way which give absorbs vibration.
- Y-Δ type spindle motor equipped to make sure smooth start and operation.
- Oil distributor may be adjusted to lubricate bedways, cross slide, or both.
- Automatic and manual forced lubrication pump offered oil to bed ways and cross slide.

## STANDARD ACCESSORIES

- Spindle center sleeve MT#7 \* MT#5
- Operation manual & parts list
- Dead center MT.5
- Level pads.....6 - 10 pcs
- Full length splash guard
- Dead center MT.5 with carbide tip
- Tool set & Box
- Halogen lamp

## OPTIONAL ACCESSORIES

- 3-Jaws scroll 12" / 16" chuck
- 4-Jaws independent 16 / 18" chuck
- Chuck Safety Guards
- Digital read out system
- Faceplate 20"
- Electrical system for CE
- Carriage micro stop set
- Drill chuck & arbor
- Rotating center MT.5
- Taper turning attachment
- Follow rest w/bronze tip
- Steady rest w/ball bearing
- Quick change tool post
- Protect cover on leadscrew for CE

MODEL	CH CH-V	2260 / 2290 / 22120 / 22160 / 22200	2660 / 2690 / 26120 / 26160 / 26200	3060 / 3090 / 30120 / 30160 / 30200	2260V / 2290V / 22120V / 22160V / 22200V	2660V / 2690V / 26120V / 26160V / 26200V	CH-3060V / 3090V / 30120V 30160V / 30200V	
<b>Capacity</b>								
Swing over bed		560 mm (22")	660 mm (26")	760 mm (30")	560 mm (22")	660 mm (26")	760 mm (30")	
Swing in gap		Ø797 mm (31.37")	Ø892 mm (35.11")	Ø990 mm (38.97")	Ø797 mm (31.37")	Ø892 mm (35.11")	Ø990 mm (38.97")	
Swing over cross slide		Ø340 mm (13.38")	Ø445 mm (17.51")	Ø548 mm (21.57")	Ø340 mm (13.38")	Ø445 mm (17.51")	Ø548 mm (21.57")	
Gap width in front of faceplate		270 mm (10.63")						
Distance between centers		1500 mm (60"), 2300 mm (90"), 3000 mm (120"), 4000 mm (160"), 5000 mm (200")						
Width of bed		400 mm (15.75")						
Top slide travel		228 mm (8.98")						
Cross slide travel		400 mm (15.75")						
<b>Headstock &amp; Main spindle</b>								
Spindle nose type		D1-11						
Spindle center sleeve		MT#7 x MT#5						
Spindle bore		Ø104 mm (4.094")						
Spindle speed		12 steps			4 steps			
Speed range (60 Hz)		4P: 13, 20, 30, 47, 70, 105, 150, 230, 340, 530, 800, 1200 RPM			N1: 20 - 109 rpm; N2: 45 - 240 rpm; N3: 140 - 740 rpm; N4: 310 - 1600 rpm			
<b>Threads and Feeds</b>								
Whitworth threads kinds / range		44 Kinds / 2 - 72 T.P.I.						
Metric threads kinds / range		39 Kinds / 0.2 - 14 mm						
Diameter of leadscrew		Ø45 mm (1.77")						
Pitch of leadscrew		4 TPI, P = 6 mm						
Longitudinal feeds		Metric: 0.035 - 0.98 mm / rev; INCH: 0.0012 - 0.039 / rev						
Cross feeds		Metric: 0.011 - 0.296 mm / rev; INCH: 0.0004 - 0.0117 / rev						
<b>Tailstock</b>								
Quill diameter		Ø80 mm (3.15")						
Quill travel		250 mm (10")						
Taper of center		MT # 5						
<b>Motor</b>								
Main spindle		Std: 15 HP (11.25 kW)		Opt: 20 HP (15 kW)		15 HP (11.25 kW) Motor + 20 HP (15 kW) Inverter		
Coolant pump		1/8 HP		1/8 HP Coolant pump				
<b>Measurement</b>								
Weight Approx Net weight (KG)	60"	2860	2950	3040	60"	2860	2950	3040
	90"	3310	3400	3490	90"	3310	3400	3490
	120"	3545	3635	3725	120"	3545	3635	3725
	160"	4150	4240	4330	160"	4150	4240	4330
	200"	4600	4690	4780	200"	4600	4690	4780
Packing size	length	3255 mm (128.14") / 4055 mm (159.64") / 4755 mm (187.2") / 5755 mm (226.57") / 6755 mm (265.94")						
	Width x Height	Width: 1150 mm (45.27"); Height: 1700 mm (66.9")						

Specifications subject to change without notice.





## RUGGED HEADSTOCK

- Forced lubrication to all running points.
- Head housing features outstanding vibration dampening and deformation free performance.
- Rugged head construction gives extra rigidity and heavy cutting.
- All gears and shaft are hardened and precision ground.



## HEAVY DUTY SPINDLE

- Camlock type spindle
- Precision machined from forged alloy steel, hardened, precision ground and dynamically balanced.
- Three-point support by high precision taper roller and ball bearings eliminates chatter when performing heavy cutting.



## APRON

- A manual & automatic lubrication system equipped to keep the sliding ways and bedways lubricated.
- Choice of right or left hand wheel.
- An overload protection device equipped to avoid machine damaged.



## RUGGED TAILSTOCK

- Tailstock quill is graduated in inch / metric scales.
- It has a tang slot for positive drive of tool.
- Two - step tailstock provide smoothly operation.



## UNIVERSAL GEARBOX

- The universal type gear box provides a wide range of inch & metric threads without changing any gear for increasing convenience.
- Gears are hardened
- Oil bath lubrication in gear box