

MACHINE  
SPECIFICATIONS

MODEL	Unit	CH-920	CH-1170
CAPACITY			
Center height	mm	460	585
Swing over bed	mm	920	1170
Swing over gap	mm	1140	1390
Swing over cross slide	mm	580	830
Distance between centers	mm	2500 / 3000 / 4000 / 5000 / 6000 Longer dist. upon request	
Bed width	mm	560	
SPINDLE			
Spindle bore diameter	mm	Standard: 156	Optional:: 230
Spindle nose		Standard: A2-11	Optional: A2-15
Spindle taper		Standard: 161 x 1:20	Optional: 240 x 1:20
Spindle speed	RPM	5~400 (12 steps)	
CARRIAGE			
Cross slide travel	mm	460	585
Tool holder travel	mm	280	
Cutting tool size	mm	32 x 32	
TAILSTOCK			
Spindle diameter	mm	125	
Spindle travel	mm	304	
Center taper		MT#6	
THREADING & FEEDING			
System		Metric / Inch / Mixed	
Dia. of leadscrew	ø	50	
(Metric) pitch of leadscrew	mm / pitch	12	
(Inch) pitch of leadscrew	TPI	2	
Metric pitch threads	mm	1~30 (48 kinds)	
Inch pitch threads	TPI	1~30 (60 kinds)	
Module pitch threads	M.P.	0.5~15 (30 kinds)	
Pitch thread diameter	D.P.	2~60 (45 kinds)	
Longitudinal feeds	mm / rev.	0.002~0.057	
Cross feeds	mm / rev.	0.001~0.025	
MOTOR			
Main motor	HP	Standard: 25	Optional: 30
Rapid traverse motor	HP	1	
Coolant pump motor	HP	1/4	

\* Specifications are subject to change without prior notice.

Standard Accessories

- Fixed center MT#6

• Coolant system

• Work light

• Steady rest
- 4-way tool post

• Cross and longitudinal rapid traverse

• Tool box with tool kits

• Pad

Optional Accssories

- Chuck (3-jaw / 4-jaw / Face plate jaw)

• Rotation center MT#6

• Follow rest

• Protection cover (Chuck / tool post / leadscrew guard, full length splash guard)



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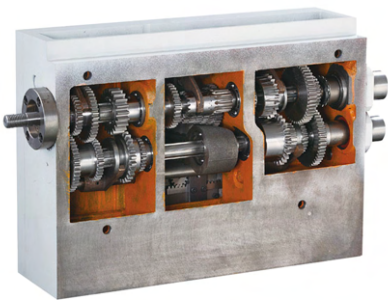


# BLACKSMITH HEAVY DUTY LATHE

A PERFECT COMBINATION OF  
MASSIVENESS, PRECISION AND RIGIDITY

## HEADSTOCK

- The headstock is a box type construction with features of maximum stability and rigidity. It full exhibits ultra-high stability, especially in heavy cutting.
- All gears in the headstock are precision machined from high quality alloy steel (Cr-Mo alloy SCM-21 ), carburization heat treated and precision ground on teeth to ensure extremely smooth running without noise.
- 156mm spindle bore is a standard design, and can be increased to 230mm. The spindle is supported by NSK or TIMKEN bearings with high precision and high durability, allowing for heavy cutting on large workpieces.
- The headstock is oil-bath lubricated.



## GEARBOX

The metric/inch commonly used gearbox does not need to change gears when changing the unit.

- A wide rang of thread cutting and feed speed change can be set from the levers and a dial located on the front of the gearbox.
- All gears in the gearbox are precision machined from high quality alloy steel (Cr-Mo alloy SCM-21 ), carburization heat treated and precision ground on teeth to ensure extremely smooth running without noise.
- The gearbox is oil-bath lubricated.

## BED

The bed is a massive box type structure in combination with internal ribbing that helps to upgrade the rigidity of bed. No bed deformation will occur even after years of operation.

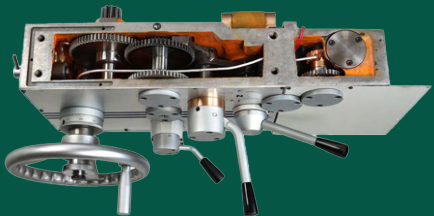
- The bed slideways are hardened and precision ground, which not only features maximum wear resistance, but also ensures outstanding straightness accuracy for the carriage movement.



## APRON

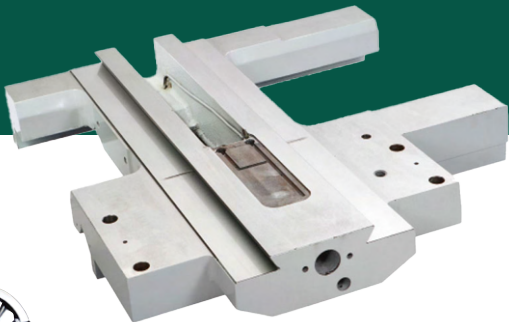
The apron is equipped with an additional motor, providing rapid traverse of the apron.

- The parts in the apron are lubricated by an oil bath lubrication system.

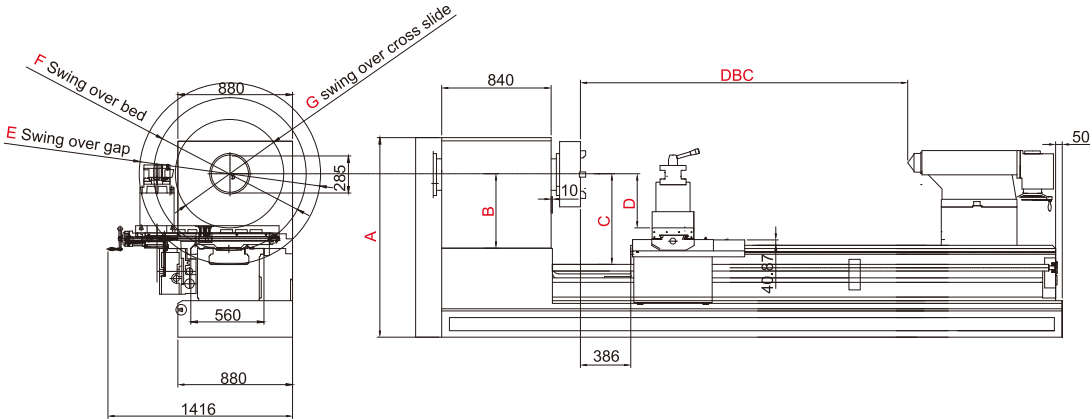


## CARRIAGE

The slideways at the bottom of the carriage are coated with Turcite-B with outstanding wear resistance, and then precision scraped to make carriage movement smooth.



## DIMENSIONAL DRAWINGS OF MACHINE



Unit: mm

MODEL	A	B	C	D	E	F	G
CH-920	1415	460	570	290	1140	920	580
CH-1170	1510	585	695	415	1390	1170	830