

**Product Name :**  
Universal Gear Hobbing Machine

**Product Code :**  
NLAB-MACHINELABWK20001



**Description :**

Universal Gear Hobbing Machine

**Technical Specification :**

**Salient Features :**

Gear Hobbing Machine model V-300 is designed for the production of precision Spur, Helical, Worm Gears, Splines, Sprockets, Ratchet Wheels & any other form that can be hobbled. Its bed & column are of close grain casting & are well ribbed with V-type guideways. The shafts & Gears are made of alloy steels. The indexing worm wheel is of high grade Bronze material. The machine is equipped with Differential Mechanism for cutting helical gears. Provision has been made to remove backlash between the indexing worm & worm gear and also between feed screw & the nut of the hob slide. Oil reservoirs are provided in the machine which ensures thorough lubrication of gears & bearings.

**STANDARD EQUIPMENTS :**

One Electric Motor 2 H.P. (960 RPM), One Electric motor 1 H.P. (1440 RPM), One Electric Coolant Pump, One work arbour, One Hob arbour, One set of 45 change gears, One set of spanners.

**Module** continuous output (Max. Pitch)

Maximum diameter of Gear with support

Minimum diameter of gear

Capacity for Spur gear

Minimum number of Teeth

Face capacity for Helical Gear

Flex angle upto 15°

Flex angle upto 30°

Flex angle upto 45°

Distance between Hob Spindle &  
Surface of Table

(Minimum)

Distance of Hob Spindle  
to Table

(Minimum)

Size of work Table

Minimum diameter of Hob

Minimum length of Hob

Center of Work arbour & Hob arbour

60, 75, 90, 120, 150, 180

Maximum hob slide

(Maximum)

Drive motor

0.75 KW

0.1 KW Pump

Power required with cover closed

Power required with cover opened

Weight of the machine

Weight of the Machine

The heavy duty Universal Gear Hobbing Machines Model V-1000 & Model V-1500 represent the ultimate in sound uptodate design. These are of precision construction with superior workmanship which ensures high output and fine performance. The machine can cut Spur Gears, Helical Gears, Worm Gears, Splines, Serration sprocket Wheels, Ratchet Wheels and any other form that can be hobbled. The bed and main column of the machines are of ample size. These are of box type design and are well ribbed with V-type guideways. For the consistence accuracy of the machine axially adjustable Indexing worm is provided to remove backlash. Provision has also been made to remove backlash in feed screw and nut of the Hob slide. Oil reservoirs are provided in the machine which ensures thorough lubrication of Gears & Bearings.

One main electric Motor, One rapid electric motor, One electric coolant Pump, One Work Arbour, One Hob Arbour, One set of 48 change Gears, Six segment supports (One Face Plate 54" dia. and One V-Belt Pulley 31 dia. for V-1500 only)

Maximum Continuous Output (Max. Pitch)	1500
Maximum Dia. of Gear with support	500
Minimum Dia. of Gear that can be cut	20
Maximum face Width for Spur Gear	100
Face Capacity for Helical Gears Helix Angle	30°
	35°
Distance between Hob Spindle & Surface of the table	150
Minimum	150
Distance of Hob spindle to the table	150
Minimum	150
Diameter of Work Table	350
Maximum Diameter of Hob	60
Maximum Length of Hob	120
Hob Shift	20
Diameter of Work Arbour	20
Diameter of Hob Arbour	125
Speeds in R.P.M.	10, 30, 60, 100, 150
Width of the Hob Slide	150
Minimum	100
HP Drive Motor	5
HP Motor	2
Force required with covers closed	100 X 15
Force required with covers open	100 X 22
Weight of the Machine (Approx)	520 Kgs
Weight of the Machine	325

## Naugralabequipments

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