

**Product Name :**  
Heavyduty Geared Slotting Machine

**Product Code :**  
hs0003



## Description :

Heavyduty Geared Slotting Machine

## Technical Specification :

The constant research and regular investigations into new materials & methods got into high class products and first class service is our policy. **CONSTRUCTION OF MACHINE :** **COLUMN :** The column consists of two parts which are adequately ribbed & securely held together to form a rigid unit. The deep throat enables a wide variety of parts to be machined. **DRIVE :** The electric motor drives the clutch pulley and the gears fitted in the column. From there the power is transmitted to the ram by the means of link mechanism. The ram-movement is started by engaging clutch. The link mechanism allows for an accelerated ram movement in return stroke Ram speed changes are effected by sliding gears controlled by shaft through gear box. **RAM :** The ram is well ribbed and is quite sturdy. An taper wedge is provided for smooth running. The ram can be tilted 5 degree on demand and swiveled 10 degree in case of 400 mm stroke. **TABLE:** The table is circular and is provided with T-Slots. It is divided on its circumference into 360 degrees. A tapered hole is provided in the centre of the table for reception of the centering mandrel while machining circular slotting work. Direct indexing is provided for accurately locating the table in various positions. **FEED :** The feed mechanism mounted on the column through side gear box. The feeds are infinitely within the range of 0.2 mm to 1.5 mm. In case of 450 mm stroke 0.2 mm to 2 mm per cycle. The feeds can be adjusted when machine is at the rest. **OUTSTANDING FEATURES :** High grade casting for wear resistance and rigidity. Single lever control for changing the speeds. Centralised machine controls on operating side. Steel gears sliding on multi splined shafts. Drum clutch for stopping ram at any position. All shafts are carried on Ball Bearings. Hand operated automatic pump for lubrication. Indirect indexing by dividing attachment. Variable automatic table feeds in all directions is optional. **EXTRA EQUIPMENTS :** True Chuck, Electric Motor, Starter, Vee Belts, Lubrication Pump, Special Index Plate, Bellows, Longitudinal & Cross Auto Feed, Rotary Table Auto Feed, Tilting Head  $\pm 5^\circ$ , Swivel Head  $10^\circ$  for 400 mm stroke (cooper type).

Size	7"	8"	10"	12"	14"	16"	18"	20"	24"
Stroke (adjustable)	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"	5.5"
No. of Stroke per min.	100 to 120	100 to 120	85 to 100	85 to 100 75 to 85	75 to 85	60 to 85	60 to 85	60 to 85	
Electric Motor Required	1 H.P.	1 H.P.	1.5 H.P.	2 H.P.	2 H.P.	3 H.P.	5 H.P.	7.5 H.P.	7.5 H.P.
R.P.M.	1440	1440	1440	1440	1440	1440	960	960	960
Blade Size	12" to 14"	14" to 16"	16" to 18"	18" to 20"	20" to 22"	22" to 24"	24" to 26"	28" to 30"	30" to 32"
Capacity of Round Bar	7"	8"	10"	12"	14"	16"	18"	20"	24"
Capacity of Square Bar	5"	5 1/2"	8"	10"	11"	13"	14"	15"	18"

**@ LAB ENGINEERING**

**Elab Engineering Equipments Manufacturers**