

**Product Name :**  
Variable Rake Angle Hydraulic Shears

**Product Code :**  
NLAB-MACHINELABWK16002



**Description :**

Variable Rake Angle Hydraulic Shears

**Technical Specification :**

The stable robust, all welded steel frame from ultrasonically tested plates are of top quality. Ram and table designed with special inclined member and box type structure for maximum strength. .

The top beam is guided by three point roller with replaceable hardened liners for least wear. This eliminates lubrication of guides. Roller guide made of hardened & ground bearing steel to provide better quality of cutting for a long time. Rake angle can be varied to permit shearing of higher thickness than nominal capacity and facilitating distortion free shearing of thin sheets. The fastest and easiest way of blade clearance setting without need of feeler gauge, which helps Burr-free edges. Positive holding by hydraulic holddowns before shearing avoids slippage of sheets and independent operation of holddowns for clamping of sheet helps checking of mark without taking shear stroke. Front gauging by disappearing stoppers mounted on left squaring arm. Robust, heavy & accurate back gauging to set cutting width. Hydraulic cylinder are designed with both low and high pressure sealing, Hard chrome plated rod also with special type guide for long life without

leakage. Hydraulic components of international quality assembled in our own factory with specially designed compact manifold

**Frame**  
High steel frame of shears are optimally designed to avoid weak sections at load support and is of monocoque design. The sides of frame is welded together with support of steel plates. The whole top surface is machined with provision of 4-dot of facilitate front gauge

stopper. Front assembly is welded with steel plate support.

**Roller Angle (Variable)**  
Roller angle (variable) which is provided in control panel to vary the roller angle. It permits to shear higher thickness than its capacity. This

shear can be cut with distortion.

**Roller Guides**  
The upper beam is guided by three point roller guides. A replaceable hardened steel is provided for constant wear. It eliminates lubrication

of guides.

**High Power Pack**  
Hydraulic system is mounted at top of rear side of machine. Hydraulic components are of internationally reputed make like Vickers, Denys, Bosch etc. Valves are mounted on a compact manifold block minimizing piping and chances of leakages. For oil cooling sufficient size of oil

reservoir is provided.

**Cylinders**  
Cylinders are precisely honed and are fitted with hard chromium piston and with steel guide. Sealing elements (O-rings) are constructed with upper beam (cutting beam) with spherical bearings for higher capacity. Their cylinders are working on differential pressure principle for

synchronization. This eliminates force on cutting edge.

**High Yield Down**  
Hydraulic hold down pads hold the sheet securely to avoid slipping & bending resulting in clean square cut. These pads work on pneumatic

for better clamping while cutting narrow strips.

**Blade Clearance** Blade clearance can be adjusted manually by lever on each side of machine with calibration of clearance suitable for thickness

**Motorized Back Gauge**  
Motorized back gauge is operated from front of machine by push button. Back gauge travel distance is displayed on electronic counter. Near position can be preset and can cut with side edge engagement. Back gauge automatically retracts from bottom blade after shearing to

avoid trapping of cut strips.

**Blades** shears are provided with High Quality, Single segment (Pittler) blades for longer tool life. Ease in assembly of blades reduces down time

The blades are four angled.

**Operation**  
Electric panel & operational console are provided at right side of the machine for easy operation by operator. Control & control panel is provided with on-off push button, three phase indicator, forward-reverse push-button for back gauge operation, inch push-button for individual beam function emergency stop push button. Stop switch is provided to carry out Shearing Operation if first switch is released at any point of shearing upper beam will return from that

point.

**Finger Guard** Fitted in front of hold down for operator's protection without obstructing viewing

Shearing Capacity Thickness mm  
Cutting Length mm  
Max. Main blade angle rake

2050

2550

3050

4050

5500

6000

7500

8000

9000

## Naugralabequipments

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