

**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 chassis are specially designed to avoid weak sections at load support such as of mechanical design. The tube of frame is welded together with support of steel plates. The whole top surface is machined with provision of a slot of facilitate front gauge

stepper. Front assembly is welded with steel plate support.

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

wheel can be cut with distortion.

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

of guide.

**High Power Pack**  
Hydraulic system is mounted at rear side of machine. Hydraulic components are of internationally reputed make like Vickers, Denyo, Rexroth etc. Valves are mounted on a compact manifold block eliminating piping and chances of leakage. 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 leading elements. Cylinders are constructed with upper beam leading beam with advanced bearings for higher capacity. Their cylinders are working on differential pressure principle for

synchronization. This eliminates force on cutting edge.

**High Hold Down**  
Hydraulic hold down pads hold the sheet securely in avoid slipping & bending resulting in clean square cut. Hold down pads are provided

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

**Machined Back Gauge**  
Machined back gauge is operated from front of machine by push button. Back gauge travel distance is regulated on electronic counter. Near position can be preset and can cut with auto stop arrangement. Back gauge automatically retracts from sheet blade after shearing to

avoid marring of cut strips.

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

The blades are four angled.

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

point.

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

Shearing Capacity Thickness mm  
Cutting Length mm  
U.S. Maxima  
rake angle rake

2000

2500

3000

4000

5500

8000

8500

9000

9600

## Naugralabequipments

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