

# Large Diameter Split Frame

**LDSF**



## DESCRIPTION

E. H. Wachs LDSF Large Diameter Split Frame is designed for cold cutting, beveling, facing and counterboring on large diameter pipes, vessels and flanges. It's been engineered to incorporate multiple advancements designed to make it stronger, faster to set up, faster to operate and even more versatile. Picking up where our DynaPrep MDSF split frames leave off, four standard LDSF sizes cover a range from 60" to 120" O.D. (DN1500-DN3000). Each machine covers a 15" (381mm) diameter range and will simultaneously cut and bevel most wall thicknesses and materials.

The internal, full bearing construction contributes to the LDSF's smooth operation and long service life. Spring loaded O.D. tracking slides for irregularly shaped or out-of-round pipe and vessels are standard. They allow the tooling to maintain continuous contact, producing precision weld preps with consistent lands. The CRBM Counterboring and Reverse Bevel module counterbores in vertical orientation, and reverse bevels in angled orientation. The LDSF takes corrosion protection to a new level with virtually every surface treated. Its attractive red powder coated finish proudly reflects E.H. Wachs famous red and black corporate colors.

## LDSF DESIGN CAPABILITIES

- All new design for large and very large diameter pipes and vessels
- Four standard LDSF sizes cover a 60" to 120" O.D. range (DN1500-3000)
- 15" (381mm) diameter range covered by each machine size
- Splits into quadrants for easier storage, transport and set-up
- All steel construction for durability & rigidity
- Common size, fully captivated fasteners used throughout
- Quick release, adjustable height setup legs, 3 per quadrant
- Self squaring mounting system features axially adjustable clamping legs with micro adjustment
- Rigging blocks with multi-axial lifting eyes allow horizontal or vertical lifting
- Available remote control trip actuation

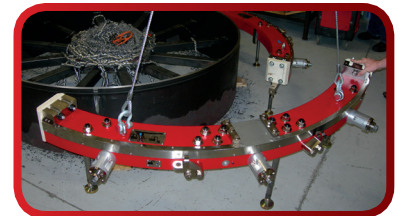
## LARGE DIAMETER SPLIT FRAME FEATURES

- Reinforcing stiffener blocks at the split lines offer increased rigidity
- Hinged open/close mechanism to simplify machine mounting
- Frame fastening swing bolts holds ring frames in place during assembly
- Dual hydraulic drive motors require less clearance than one large motor
- Drive motors utilize Wachs new universal quick mount drive assembly
- Fully adjustable mounting legs replace traditional bolt on spacer feet
- Legs offer both I.D. and O.D. clamping options
- Optional Counterboring module for perpendicular and angled counterbores
- Designed to use a minimum number of hand tools
- New trip design with breakaway trip mount helps prevent crashes

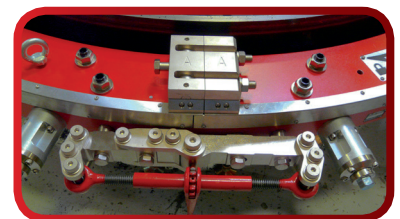
## PRECISION PIPE & VESSEL CUTTING & BEVELING



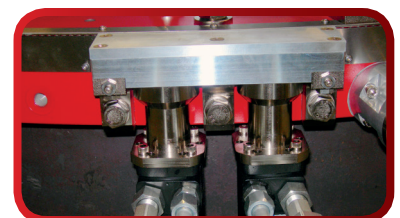
Four standard LDSF sizes cover a range of 60" to 120" (DN1500-3000) O.D. with a 15" (381mm) capacity between sizes



LDSF splits into quadrants for ease of transport, setup and storage.



All steel construction with stiffening blocks and strong mounting legs for maximum rigidity to deliver precise results



LDSF is standard with dual hydraulic drive motors and dual pinion housings to ensure long life and smooth power for big jobs

# Large Diameter Split Frame

## LDSF

### SPECIFICATIONS

**System Function:** Split Frame machine tool designed to part, bevel and counterbore large diameter pipe & vessels

**System Capacity:** Machines large diameter pipe and vessels from 60" to 120" O.D. (DN1500-3000), varies by model number.

**Drive Options:** Hydraulic

**Cutting Tool Surface Speed:**

Adjustable, 60 surface feet per minute (18.28 meters per Minute)

**Hydraulic Power Requirements:**

14 GPM @ 1800 PSI (53 LPM @ 124 BAR)

**Feed Method:** Positive LPM mechanical starwheel

**Feed Rate:** Fixed trip rate .0030" (.0762mm) per trip

**Construction:**

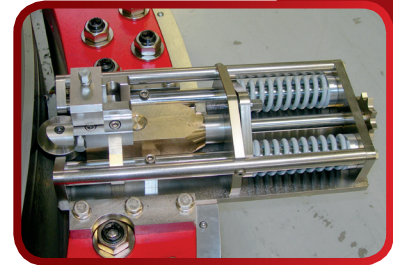
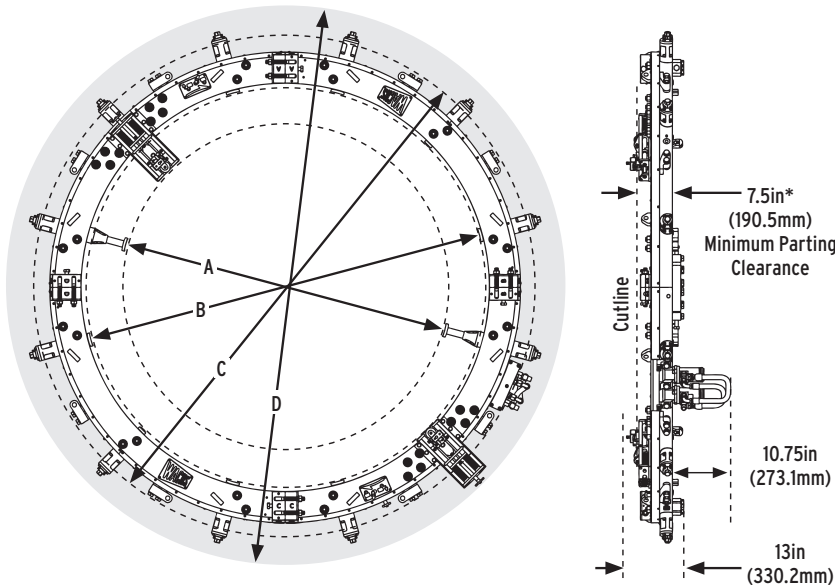
- Alloy steel stationary and rotating rings
- Alloy mounting legs
- High capacity bearings
- Dual heavy duty pinion housings
- Ratcheting hinge mechanism
- Powder coated corrosion resistant finish

### STANDARD EQUIPMENT

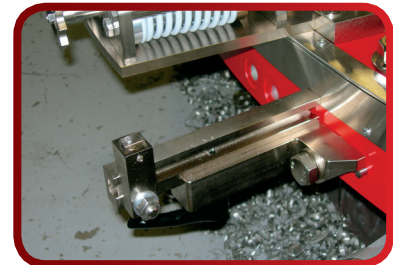
- Dual Hydraulic Drive Motors
- Heavy Duty O.D. Tracking Tool Slides
- Breakaway Single Trip Assembly
- Lifting Hooks for Vertical or Horizontal Mounting
- Ratcheting Mechanism for Hinging Assembled Machine Open and Closed
- Self Squaring Mounting System with Axially Adjustable Clamping Legs
- Sealed Dual Pinion Housings
- Custom Wood Storage Case and Quadrant End Protectors
- Operating Hand Tools and Manual

### OPTIONAL EQUIPMENT

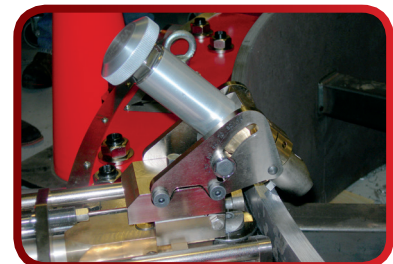
- Counterbore and Reverse Bevel Module
- Cantilever Tool Slide
- Remote Control Kit
- Genuine Wachs Tooling



The LDSF includes heavy duty O.D. tracking slides to compensate for out of round pipe and vessels and setup



All new trip design features a breakaway mount to prevent frame damage. Remote control feed trip is optional



Optional counterbore and reverse beveling module bolts to tracking slides to deliver perfect preps

SPECIFICATIONS	LDSF 75	LDSF 90	LDSF 105	LDSF 120
Dimension "A - B" Machine capacity range (Nominal Pipe Size)	60-75in (1524-1905mm)	75-90in (1905-2286mm)	90-105in (2286-2667mm)	105-120in (2667-3048mm)
Dimension "C" pinion clearance	99in (2515mm)	114in (2896mm)	129in (3277mm)	144in (3658mm)
Dimension "D" Standard OD Tracking slide clearance	111in (2820mm)	126in (3200mm)	141in (3581mm)	156in (3962mm)
Dimension "D" Optional Heavy Wall Base Slide clearance	117in (2972mm)	132in (3353mm)	147in (3734mm)	162in (4115mm)

Reduction of necessary operating envelope is possible by removing stiffening blocks. Standard drive motor configuration, reduced clearance options available.

All dimensions shown for pipe diameters are US nominal diameters in inches, plus metric diameters in parenthesis. Tubing and solid diameters if shown are actual US inches plus metric millimeter equivalents.

**CONTACT YOUR LOCAL  
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