



**WACHS** **E.H. WACHS®**  
 Superior Equipment. Complete Support.™

Designed for large and very large diameter pipes and vessels.



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



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



Designed to split into quadrants without sacrificing rigidity, swing bolts and a ratcheting hinge mechanism speeds assembly and mounting.



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

## Pipe Cutting and Beveling Machines LDSF

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LDSF Split Frame

## Mobile and splittable Pipe Cutting and Beveling Machines (low range)

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 than our class leading HDSF models. Picking up where our midsize split frames leave off, four standard LDSF sizes will cover a range from 60" to 120" OD (DN1500-DN3000). Each machine covers a 15" (381 mm) diameter range and will simultaneously cut and bevel most wall thicknesses and materials.

- All new design for large and very large diameter pipes and vessels
- Four standard LDSF sizes cover a 60" to 120" OD range (DN1500-3000)
- 15" (381 mm) diameter range between the four standard LDSF models
- Splits into quadrants for easier storage, transport and set-up
- All steel construction for durability and 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

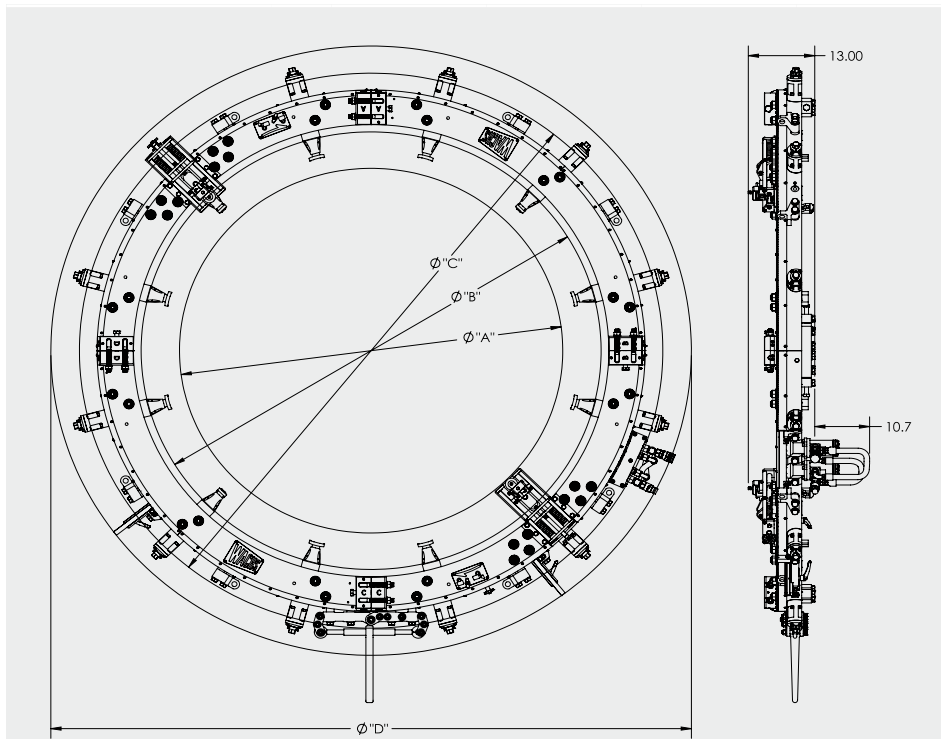
### LDSF Large Diameter Split Frame

The internal, full bearing construction contributes to the LDSF's smooth operation and long service life. Spring loaded OD tracking slides for irregularly shaped or out-of-round pipe and vessels are standard, and allow the tooling to maintain continuous contact, producing precision weld preps with consistent lands. A new patent pending 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.

#### Additional 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 ID and OD 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

Specifications		LDSF 75	LDSF 90	LDSF 105	LDSF 120
Machine capacity range	[mm]	DN 1500 - 1875	DN 1875 - 2250	DN 2250 - 2625	DN 2625 - 3000
Dimension "A - B" (Nominal Pipe Size)	[inch]	60 - 75	75 - 90	90 - 105	105 - 120
Dimension "C" pinion clearance	[mm]	2216.2	2597.2	2978.2	3535.35
	[inch]	87.25	102.25	117.25	135.25
Dimension "D" slide clearance	[mm]	2355.9	2736.9	3117.9	3498.9
	[inch]	92.75	107.75	122.75	137.75
Machine height	[mm]	330.2*	330.2*	330.2*	330.2*
	[inch]	13*	13*	13*	13*
Hydraulic motor height	[mm]	271.8**	271.8**	271.8**	271.8**
	[inch]	10.7**	10.7**	10.7**	10.7**



System function	Split Frame machine tool designed to part, bevel and counterbore large diameter pipes and vessels.
System capacity	Machines large diameter pipes and vessels from 60" to 120" OD (DN 1500 - 3000), varies by model number.
Drive options	Hydraulic
Cutting tool surface speed	Adjustable, 60 surface ft/min (18.28 m/min)
Hydraulic power requirements	14 gpm at 1800 PSI (53 lpm at 124 bar)
Feed method	Positive mechanical starwheel
Feed rate	Fixed trip rate .0030" (.0762 mm) per trip
Construction	<ul style="list-style-type: none"> <li>• Alloy steel stationary and rotating rings</li> <li>• Alloy mounting legs</li> <li>• High capacity bearings</li> <li>• Dual heavy duty pinion housings</li> <li>• Ratcheting hinge mechanism</li> <li>• Powder coated corrosion resistant finish</li> </ul>
Standard equipment	<ul style="list-style-type: none"> <li>• Dual hydraulic drive motors</li> <li>• Heavy duty OD tracking tool slides</li> <li>• Breakaway single trip assembly</li> <li>• Lifting hooks for vertical or horizontal mounting</li> <li>• Ratcheting mechanism for hinging assembled machine open and closed</li> <li>• Self squaring mounting system with axially adjustable clamping legs</li> <li>• Sealed dual pinion housings</li> <li>• Custom wood storage case and quadrant end protectors</li> <li>• Operating hand tools and manual</li> </ul>
Optional equipment	<ul style="list-style-type: none"> <li>• Counterbore and Reverse Bevel Module</li> <li>• Cantilever Tool Slide</li> <li>• Remote Control Kit</li> <li>• Genuine Wachs Tooling</li> </ul>

\* Reduction of available envelope is possible by removing stiffening blocks.  
 \*\* Standard drive motor configuration. Reduced clearance options available.

Article	Version	Code	WACHS Ref.-no.		
LDSF 75	Hydraulic	on request	-		
LDSF 90	Hydraulic	on request	-		
LDSF 105	Hydraulic	on request	-		
LDSF 120	Hydraulic	on request	-		



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

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