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Slides feature Rapid Adjust and Micro Adjust



Slides accept 1in (25.4mm) square & all popular size tooling



V-Lock ring mating surface resists force distortion

## Complete Machining System

E.H. Wachs DynaPrep MDSF Split Frame redefines the category of cold cutting machine tools for pipe and vessels. Designed for cutting, beveling, facing, counterboring, and flange facing, it's offered in 18 standard models for popular nominal pipe sizes ranging from 2-72in OD (DN50-1800), with each machine covering a generous 6in range.

Engineered to be powerful, strong and lightweight, DynaPrep offers unmatched form tooling capability on heavy wall pipe including high alloy material. Sold as complete kits or individual components the DynaPrep MDSF is available with remote control options in your choice of pneumatic, hydraulic or electric drive.

**For more information visit [ehwachs.com/Split-Frames](http://ehwachs.com/Split-Frames)**



# DynaPrep MDSF Split Frame



DynaPrep MDSF offers enhanced form tool capabilities



Tool-free drive mounting on heavy duty pinion to handle more power



Aluminum stationary frame with steel rotating ring



DynaPrep MDSF tool slides with Rapid Adjust

## Advanced Cutting with DynaPrep MDSF

As the needs of the field machinist have evolved, E.H. Wachs products have evolved to meet those needs. Our users asked for stronger form tooling capabilities and a more productive user experience, while delivering greater precision with faster and safer operation. The DynaPrep MDSF Modular Design Split Frame is the latest example of Wachs machine tool innovation that does just that.

The DynaPrep MDSF represents the pinnacle of cold cutting split frame technology. Retaining the class leading portability and versatility that distinguished our LCSF Low Clearance Split Frame, DynaPrep is built tougher to withstand additional torque to pull bigger chips. It offers so many patented features that make it so easy to use you'll wonder why nobody thought of them before.

The DynaPrep MDSF is another in a long string of innovations from the pioneer in portable, cold cutting machining technology. It started with the Trav-L-Cutter, then the industry standard reciprocating Guillotine saw, followed by the ground breaking LCSF split frame.

## Portable, Easy to Operate

Unlike heavy steel machines, the DynaPrep MDSF retains the advanced light-weight aluminum and steel construction that maintains the portability and ease of setup and operation that characterized the LCSF. DynaPrep includes system indexing, where major assemblies are indexed to simplify setup and promote repeatability. The tool slides are indexed to the rotating ring, the trip is indexed to the tool slides, making the DynaPrep virtually crash proof.

The DynaPrep tool slides incorporate our exclusive Rapid Adjust feature, where a turn of a collar allows for large tooling movement during setup, a real time saver. The Micro Adjust feature on the slide allows fine hand positioning of the tooling, and a tooling spacer block arrangement accepts multiple tooling sizes and types.

## Remote Control Options

The DynaPrep MDSF is the first machine designed from the ground up to accommodate remote control operation, conforming to the industry trend of moving operators out of hostile environments and away from rotating machinery. Remote options exist for all MDSF drive types, pneumatic, hydraulic and electric, including remote trip actuation.

# DynaPrep MDSF Split Frame



Pipe Cutting

## A Complete Pipe Machining System

Wachs DynaPrep MDSF can be used to cut, bevel, single point, counterbore, trepan, flange face and more. With ring sizes capable of machining from 2-72in OD (DN50-1800), it's used in a wide variety of industries including oil & gas, power generation, pipeline distribution, shipbuilding, mining, and anywhere pipe, tube or vessels are present. The DynaPrep MDSF sets the benchmark in portable machine tool systems.

### Pipe Cutting

The MDSF is capable of cutting (parting), double parting (utilizing two cutting blades) or simultaneous cutting and beveling.

### Pipe Beveling

The DynaPrep quickly and safely creates the more complex weld preps specified today that torching and grinding cannot. The MDSF can be configured to bevel, compound bevel, and create J-Preps with specific radius and precise lands.

### Counterboring

Counterboring is the process of machining the ID of pipe, after the weld prep is completed and before the sections are welded. The DynaPrep MDSF offers multiple modules and accessories to perform any type of counterboring.

### Flange Facing

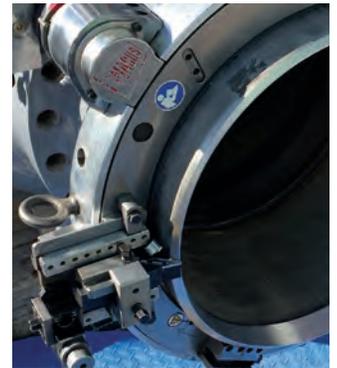
The DynaPrep MDSF makes an excellent flange facer, with available modules designed for flat face, raised face, record grooving and machining RTJ grooves. Utilizing the MDSF as the platform saves time and the expense of bringing in dedicated facing machines.

### Heavy Wall

With its robust construction and powerful drive motor options, the DynaPrep MDSF is the best choice for machining heavy wall pipe. Depending on the material, it can form tool up to 2.5in (63mm) wall. Form tooling refers to an operation where the tooling is shaped to the final weld profile desired.

### Specialized Applications

Wachs builds standard, modified, and customized machine tools for specialized applications such as dedicated remote operation, low clearance, restricted access, FME Foreign Material Exclusion wheel cutting, external and internal casing cutting, trepanning, OD milling, ID mounted split frame cutting, and more. Ask your Wachs representative for details.



Pipe Beveling

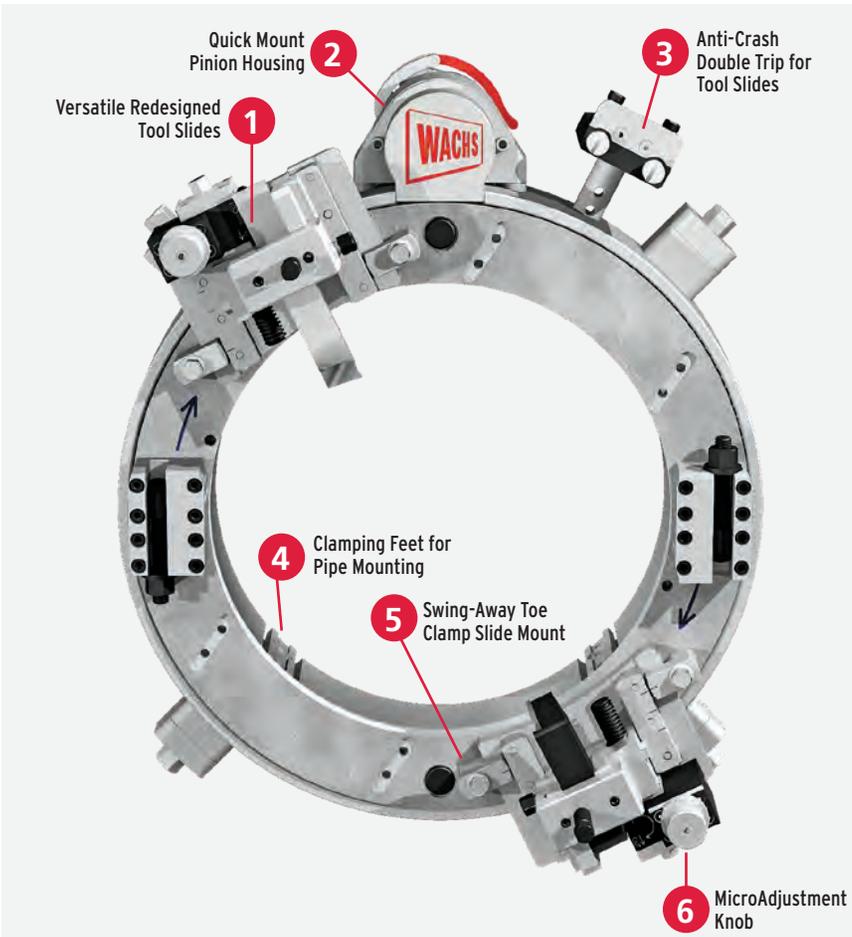


Counterboring



Flange Facing

# DynaPrep MDSF Features



## DynaPrep MDSF

- Rugged design with superior form tooling capability
- Gear design withstands force from larger more powerful drive motors
- Ring sizes 20in and below use four clamping feet for squaring
- V-Lock frame mating surfaces allow off-center setup for faster alignment.
- Aluminum fixed ring for portability, steel rotating ring for strength
- Advanced heat treating and anti-corrosion coatings for enhanced durability
- Dual row v-bearing construction for precision and durability
- V-bearings run in a unique hardened steel dual raceway
- Dual raceway design evenly distributes force loading no matter the direction
- Only two sockets, .5in (13mm) and .75in (19mm), needed for setup and operation



Accepts most common tooling sizes including 1in (25.4mm) square & .5x 3/4in (12.7 x 19mm)



Gear design withstands force from all drive types: Pneumatic, Hydraulic & Electric



Anti crash ramp on tool slides retracts dual trips if mispositioned



Ring sizes 20in & below use four clamping feet for squaring



Captivated, swing-away toe clamp for easier slide mounting

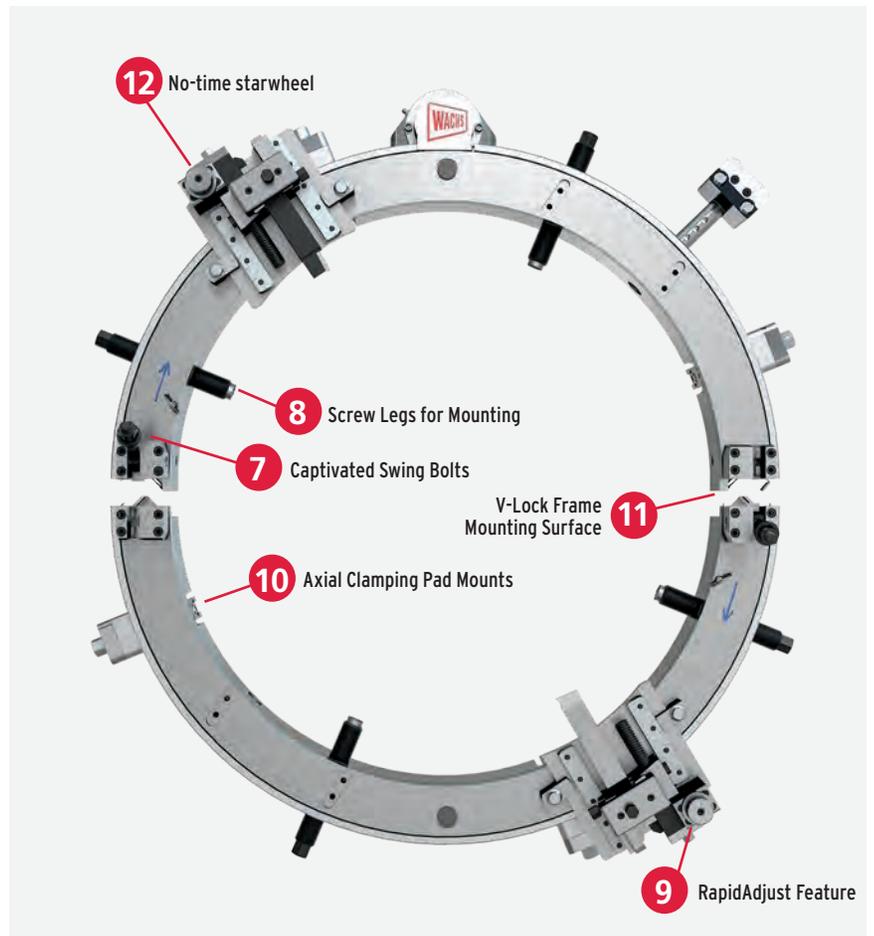


Rapid Adjust and Micro Adjust knobs provide greater precision during setup & operation

# DynaPrep MDSF Features

## DynaPrep MDSF

- V-Lock frame mating surfaces feature angled captivated bolt and keyway
- Ring sizes 24in (610mm) up to 72in (1800dn) use eight clamping feet for squaring and stability
- Indexed, squaring clamping leg design features a 2in (50mm) stroke
- Single clamp pad extension covers a 6in (152mm) pipe diameter range
- Clamp pads mount axially without removing the machine from the pipe
- U shaped feet pair with push in buttons and points for miter or elbow mounting
- Screw feet reverse and accept push in buttons and points
- All models feature replaceable felt wiper for lubrication and to capture chip debris
- Captivated swing bolts allow for fast positioning over inline pipe



7 Swing bolts allow for fast positioning over inline pipe



8 Screw feet reverse and accept push-in buttons & pins



9 Rapid Adjust feature speeds positioning of tooling



10 Clamp pads mount axially without removing the machine from the pipe

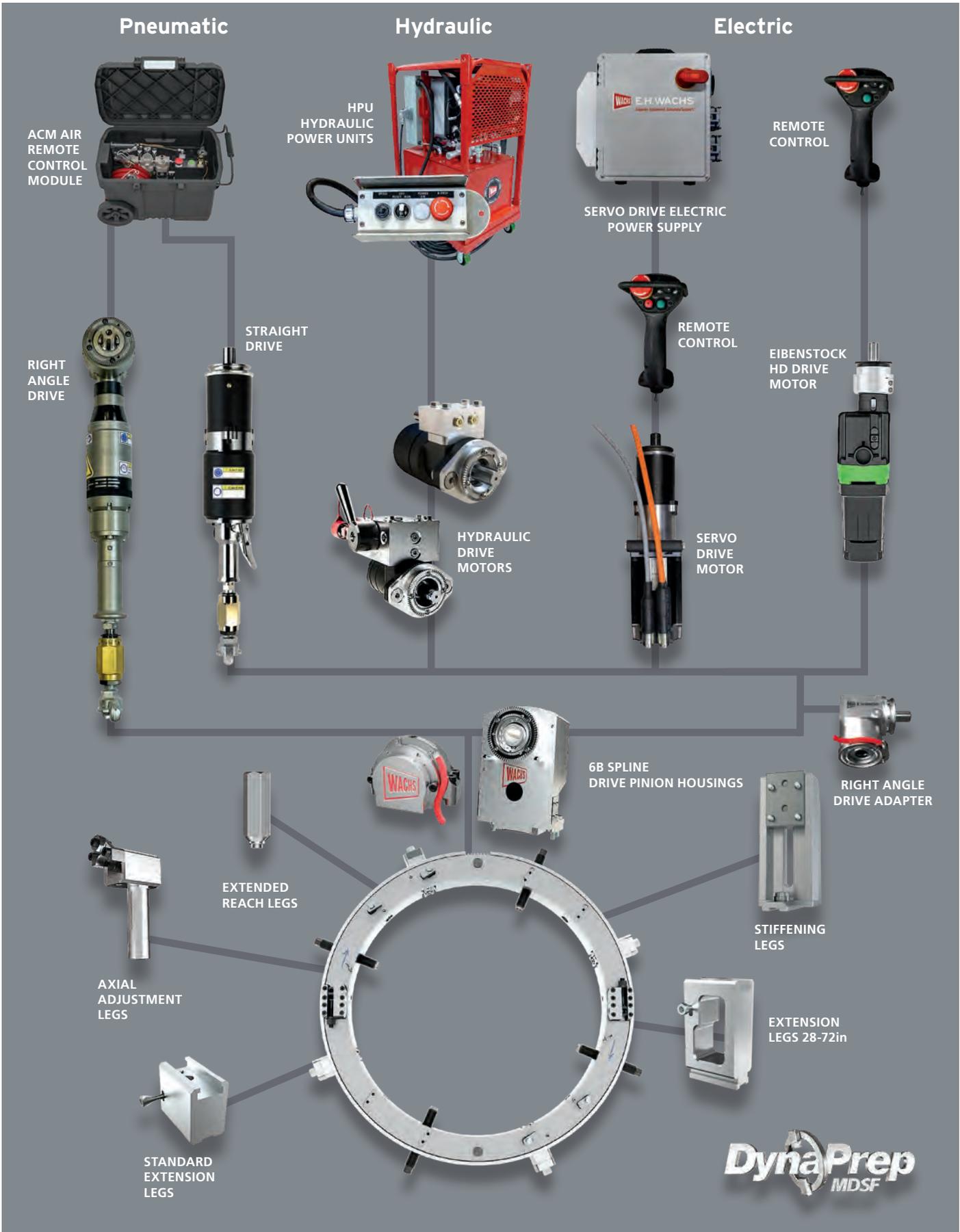


11 Patent pending V Lock ring mating surfaces are easier to join & stronger

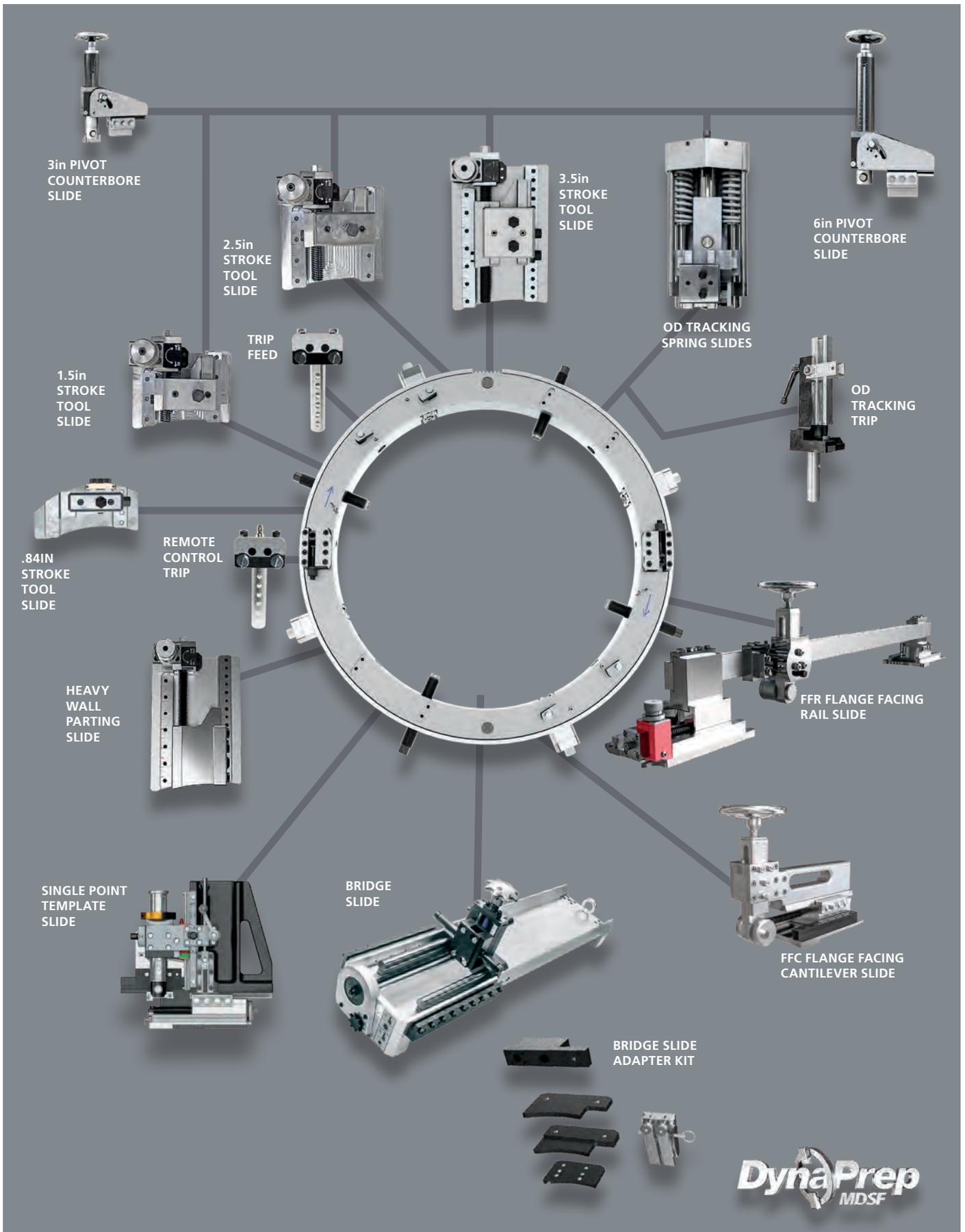


12 No-time starwheel tool advance is designed to work with the anti-crash trip

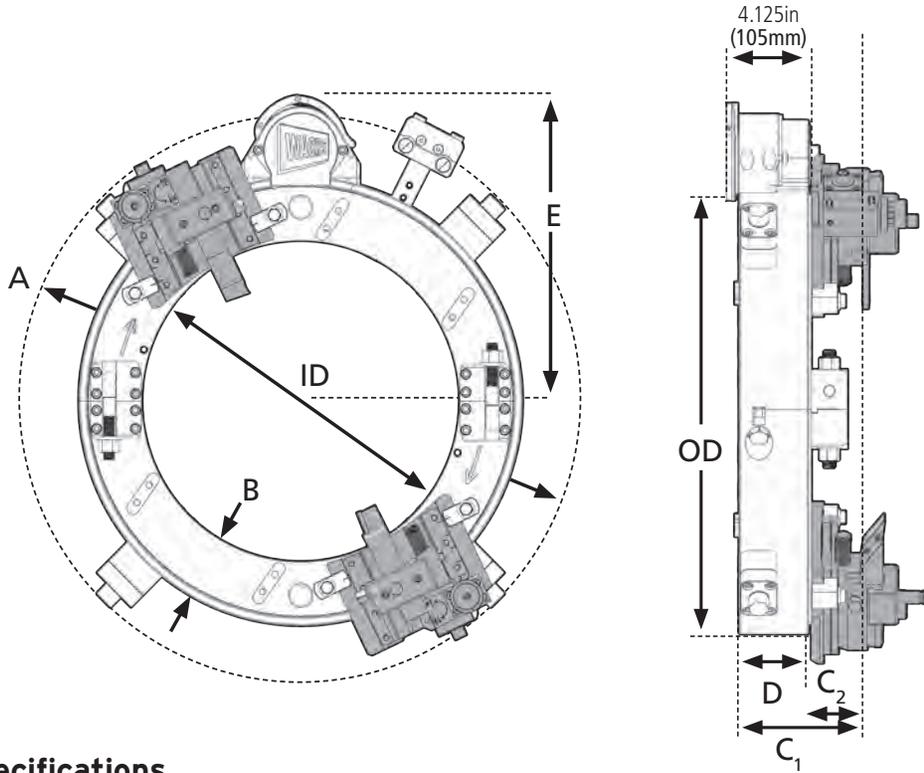
# DynaPrep MDSF Split Frame



# DynaPrep MDSF Split Frame



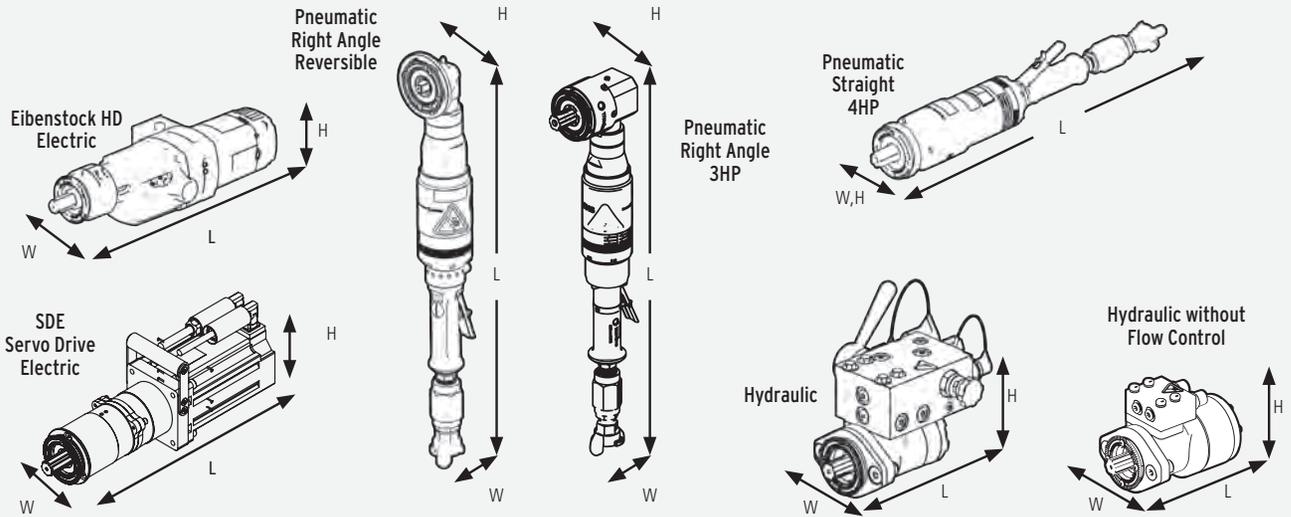
# DynaPrep MDSF Specifications



## Dimensional Specifications

MODEL	ID	OD	A ROTATING PARTS DIAMETER				B FRAME THICKNESS	MDSF TOOLING		LEGACY TOOLING		D FRAME DEPTH	E PINION RADIUS STANDARD	PRODUCT WEIGHT		
			.84IN SLIDES	1.5IN SLIDES	2.5IN SLIDES	3.5IN SLIDES		C <sub>1</sub> CUT LINE TO REAR	C <sub>2</sub> CUT LINE TO FRONT	C <sub>1</sub> CUT LINE TO REAR	C <sub>2</sub> CUT LINE TO FRONT			HALF RING	FULL RING	RING & SLIDES
206	7.25in (184mm)	12.65in (321mm)	12.65in (321mm)	17.86in (454mm)	20.2in (513mm)							9.49in (241mm)	28lb (12.7kg)	54.5lb (24.7kg)	74.9lb (34kg)	
408	9.25in (235mm)	14.53in (369mm)	14.53in (369mm)	19.8in (503mm)	22.16in (563mm)							10.49in (266.4mm)	31lb (14.1kg)	57.5lb (26.1kg)	77.9lb (35.3kg)	
610	11.25in (286mm)	16.5in (419mm)	16.5in (419mm)	21.76in (553mm)	24.12in (613mm)							11.49in (291.8mm)	37lb (16.8kg)	70lb (31.8kg)	90.4lb (41kg)	
612	13.25in (337mm)	18.5in (470mm)	18.5in (470mm)	23.74in (603mm)	26.1in (663mm)	32.04in (814mm)	2.625in (67mm)					12.49in (317.2mm)	41lb (18.6kg)	77lb (34.9kg)	97.4lb (44.2kg)	
814	14.65in (372mm)	19.9in (506mm)	19.9in (506mm)	25.16in (639mm)	27.54in (700mm)	33.48in (850mm)						13.19in (335mm)	44lb (20kg)	81lb (36.7kg)	101.4lb (46kg)	
1016	16.65in (423mm)	21.95in (558mm)	21.95in (558mm)	27.22in (691mm)	29.6in (752mm)	35.54in (903mm)		5.375in (136.5mm) WITH .920 SPACER		5.125in (130.2mm) WITH .670 SPACER		14.19in (360.4mm)	47lb (21.3kg)	88lb (39.9kg)	108.4lb (49.2kg)	
1218	18.65in (474mm)	23.95in (608mm)	23.95in (608mm)	29.28in (744mm)	31.66in (804mm)	37.6in (955mm)	2.65in (67mm)					15.19in (385.8mm)	52lb (23.6kg)	97lb (44kg)	117.4lb (53.3kg)	
1420	20.65in (525mm)	25.95in (659mm)	25.95in (659mm)	31.3in (795mm)	33.68in (856mm)	39.64in (1007mm)						16.19in (411.2mm)	54lb (24.5kg)	103lb (46.7kg)	123.4lb (56kg)	
1824	25.05in (636mm)	30.35in (771mm)	30.35in (771mm)	35.78in (909mm)	38.16in (969mm)	44.14in (1121mm)			2.375in (60mm)		2.125in (54mm)	18.39in (467.1mm)	60.5lb (27.4kg)	116.5lb (52.8kg)	136.9lb (62.1kg)	
2228	29.05in (738mm)	35.55in (903mm)		39.94in (1015mm)	42.32in (1075mm)	48.3in (1227mm)						20.99in (533.1mm)	92lb (41.7kg)	174.5lb (79.2kg)	194.9lb (88.4kg)	
2632	33.05in (840mm)	39.55in (1005mm)		43.92in (1116mm)	46.3in (1176mm)	52.28in (1328mm)						22.99in (583.9mm)	101lb (45.8kg)	191.5lb (86.9kg)	211.9lb (96.1kg)	
3036	37.65in (956mm)	44.15in (1121mm)		48.56in (1233mm)	50.94in (1294mm)	56.94in (1446mm)	3.25in (83mm)					25.29in (642.4mm)	115lb (52.2kg)	218lb (98.9kg)	238.4lb (108.1kg)	
3642	43.65in (1109mm)	50.15in (1274mm)		54.54in (1385mm)	56.94in (1446mm)	62.92in (1598mm)		5.625in (142.9mm) WITH .920 SPACER		5.375in (136.5mm) WITH .670 SPACER		28.29in (718.6mm)	127lb (57.6kg)	246lb (111.6kg)	266.4lb (120.8kg)	
4248	49.65in (1261mm)	56.15in (1426mm)		60.52in (1537mm)	62.92in (1598mm)	68.9in (1750mm)						31.29in (794.8mm)	139.5lb (63.3kg)	271lb (122.9kg)	291.4lb (132.2kg)	
4854	56.05in (1424mm)	63.75in (1619mm)		66.9in (1699mm)	69.3in (1760mm)	75.3in (1913mm)						34.99in (888.7mm)	174lb (78.9kg)	344lb (156kg)	364.4lb (165.3kg)	
5460	62.05in (1576mm)	69.75in (1772mm)		72.9in (1852mm)	75.3in (1913mm)	81.28in (2065mm)	3.85in (98mm)					38.99in (990.3mm)	190lb (86.2kg)	375lb (170.1kg)	395.4lb (179.4kg)	
6066	69.5in (1765mm)	79in (2006mm)				89.46in (2272mm)		5.97in (151.6mm) WITH .920 SPACER		5.72in (145.1mm) WITH .670 SPACER		42in (1067mm)	504lb (229.2kg)	1007lb (458kg)	Call	
6672	75.5in (1918mm)	85in (2159mm)				95.46in (2425mm)						WITH .670 SPACER	541lb (245.5kg)	1081lb (491kg)	Call	

# DynaPrep MDSF Specifications



MODEL	(L) LENGTH	(W) WIDTH	(H) HEIGHT
Eibenstock HD Electric	18.7in (475mm)	10in (254mm)	6.2in (157mm)
SDE Servo Drive Electric	18.5in (470mm)	4.75in (120mm)	6.5in (165mm)
Pneumatic Right Angle 3HP	26.25in (667mm)	4.75in (121mm)	3.38in (86mm)
Pneumatic Straight 4HP	22.32in (567mm)	3.5in (89mm)	3.5in (89mm)
Pneumatic Right Angle Reversible	25.89in (658mm)	3.84in (98mm)	3.29in (84mm)
Hydraulic Drive with Flow Control	10.87in (276mm)	7.96in (202.3mm)	6.98in (177mm)
Hydraulic Drive without Flow Control	8.83in (224mm)	5.27in (134mm)	5.87in (148mm)
ACM Air Control Module with Remote Control	24.5in (622mm)	16.0in (406mm)	16.5in (419mm)
D-23 Diesel Hydraulic Power Unit	39in (99cm)	29in (73.7cm)	36.5in (93cm)
HPU 20 Electric Hydraulic Power Unit	46.5in (104cm)	21in (53.3cm)	28in (71cm)

