

# DynaPrep MDSF Casing Cutting



Simultaneously cuts and bevels casing



Lightweight, the ECC can work inverted for a closer cut.



EICC Casing Cutter used for wellhead completion

## External / Internal Casing Cutting

Wachs proven DynaPrep MDSF split frame technology is the base platform for our casing cutting solutions, designed to cut a wide range of casing conductors externally above the wellhead and internally below the external cut.

The ECC split frame mounts around the exposed casing OD above the wellhead and simultaneously cuts and chamfers prior to fitting the BOP. The Wachs External-Internal Casing Cutter (EICC) module kit accommodates a wide range of casing diameters above the wellhead and ID cuts with chamfering below.



# ECC External Casing Cutter Kits

## Precision External Cutting

E.H. Wachs ECC External Casing Cutter Kit utilizes Wachs proven DynaPrep MDSF split frame technology to cut a wide range of casing conductors externally above the wellhead. The ECC split frame mounts around the exposed casing OD above the wellhead and simultaneously cuts and chamfers prior to fitting the BOP. Ring sizes are available for most grades and weights of the exposed external casing (or drive pipe/conductor) up to a 26in (660 mm) diameter.

The ECC is based on Wachs proven split frame technology and takes advantage of the wide range of standard Genuine Wachs Tooling, It requires minimal axial and radial clearances, and is available with pneumatic or hydraulic drive. Remote hand held controls are optionally available for pneumatic powered machines.

ECC kits are available in 6 standard ring sizes, featuring interchangeable tool slides and machine drives to cut and bevel all wellhead casing grades, sizes and weights from 4 1/2in to 26in OD (with larger sizes available by special order). The ECC is portable, compact, lightweight and requires minimal axial and radial clearance. A single operator can setup and machine the casing for minimal open time.

## ECC External Casing Cutter Features

- External casing (drive pipe/conductor) cutting and beveling up to a 26in (660 mm) diameter
- Utilizes standard Wachs Genuine Tooling for severing and chamfering
- Based on Wachs field proven Split Frame technology
- Requires minimal axial and radial clearances; hydraulic or pneumatic drive

## Specifications

Cutting Tool Surface Speed:  
60 ft. per minute (18 mpm)

Machine Drive : Pneumatic, Hydraulic

Air Requirements:

70 cfm @ 80-100 psi (2cmm @ 5.6-7 Bar)

Hydraulic Requirements:

8 gpm @ 1500 psi (30 lpm @ 103 Bar)

Feed Method: Star wheel feed

Feed Rate: Fixed @.0026in per revolution (starwheel)

## Standard Equipment

- Self Squaring Mounting System
- Fitted Storage Case
- Operating Manuals & Tools

## Optional Equipment

- Extension legs
- Tooling (standard and custom)

## Casing/Conductor Cutting Range Chart

CASING SIZE	4 1/2IN (114 MM)	5IN (127 MM)	5 1/2IN (140 MM)	6-5/8IN (168 MM)	7IN (178 MM)	7-5/8IN (194 MM)	8-5/8IN (219 MM)	9-5/8IN (244 MM)	10 3/4IN (273 MM)	11 3/4IN (298 MM)	13-3/8IN (340 MM)	16IN (406 MM)	18-5/8IN (473 MM)	20IN (508 MM)	24IN (610 MM)	26IN (660 MM)
ECC SF8																
ECC SF10																
ECC SF14																
ECC SF20																
ECC SF26																



Simultaneously cuts & bevels casing



ECC can be used inverted for cut lines close to the flange



ECC low clearance design fits into tight operating envelope



Dedicated DuoEdge Casing Cutting Tool Holder & Insert

# EICC External / Internal Casing Cutter Kits

## External / Internal Precision Cutting

E.H. Wachs External/Internal Casing Cutter (EICC) module kit accommodates a wide range of casing diameters above the wellhead and ID cuts below. Splitting to mount around the casing OD above the wellhead, the MDSF split frame serves as the foundation of the EICC. Requiring minimum axial and radial clearance, the EICC can be setup and will cut casing above the wellhead in less than 30 minutes. An internal parting and bevel attachment mounts to the LCSF or DynaPrep MDSF rotating ring for cutting and/or beveling the internal casing below the wellhead. Because of its ability to cut at various depths, the time the wellhead must remain open is greatly reduced.

### Features

- Cuts up to 7in through 13 3/8in API casing.
- Utilizes standard Wachs Genuine Tooling for external severing and chamfering
- Optional specialized casing cutter tooling holder and inserts available
- Based on the Wachs field proven LCSF & DynaPrep MDSF split frame
- Requires minimal axial and radial clearances; requires reversible pneumatic drive motor

SPECIFICATIONS	
Mounting System	Three-leg, universal chuck.
Tool Slides	Standard (7in-9 5/8in) extended range 10 3/4in-13 3/8in mechanical starwheel feed.
Counter	Mechanical/rotation.
Tooling	Insert & holder/chamfer.
Feed Rate	.004in (0.1016 mm) per revolution
Power	Pneumatic
Weight	150 lb. (69kg.)

### Machining Capacity

COMPATIBLE SPLIT FRAME	OD CASING SIZE	SPLIT FRAME SIZE	PART #
Model 610	7in - 9 5/8in (177.8 - 244.475 mm)	6-10in (152.4-254 mm)	60-4001-1031
Model 814		8-14in (203.2-355.6 mm)	60-4001-1431
Model 1016		10-16in (254-406.4 mm)	60-4001-1631
Model 1420		14-20in (355.6-508 mm)	60-4001-2031
Extends range of 60-4001-xxxx EICC system with slides and extension legs to allow internal cuts on 10 3/4in-13 3/8in casing. Bridge & Drive Tube not included			60-4001-01
Model 610	10 3/4in - 13 3/8in (273 - 339.7 mm)	6-10in (152.4-254 mm)	60-4002-1031
Model 612		6-12in (152.4-304.8 mm)	60-4002-1231
Model 814		8-14in (203.2-355.6 mm)	60-4002-1431
Model 1016		10-16in (254-406.4 mm)	60-4002-1631
Model 1420		14-20in (355.6-508 mm)	60-4002-2031
Extends range of 60-4002-xxxx EICC system with slides and extension legs to allow internal cuts on 7-9 5/8in casing. Bridge & Drive Tube not included			60-4002-01

### Casing/Conductor Cutting Range Chart

CASING SIZE	4 1/2IN (114 MM)	5IN (127 MM)	5 1/2IN (140 MM)	6 5/8IN (168 MM)	7IN (178 MM)	7 5/8IN (194 MM)	8 5/8IN (219 MM)	9 5/8IN (244 MM)	10 3/4IN (273 MM)	11 3/4IN (298 MM)	13 3/8IN (340 MM)	16IN (406 MM)	18 5/8IN (473 MM)	20IN (508 MM)	24IN (610 MM)	26IN (660 MM)
7in - 9 5/8in																
10in - 13 3/8in																



Size range includes most popular casing conductor sizes



EICC Internal Casing Cutter used for wellhead completion



Internal cutting module lowered to cutting depth



MDSF EICC Internal Cut

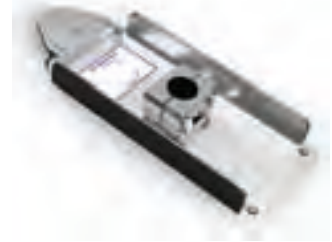
## EICC Kits, Accessories & Motors

DESCRIPTION	PART #
EICC Casing Cutting System for MDSF 814 Machine. Includes: <ul style="list-style-type: none"> <li>External/internal mount for cutting 7in, 7- 5/8in, 8- 5/8in and 9- 5/8in casing</li> <li>Complete with drive tube (adjustable cut depth from 6-31in)</li> <li>Cutting head</li> <li>Mounting chuck with extension legs to cover ID range</li> <li>Drive tube-mounting adapter (Bridge mounts to MDSF 814 machine)</li> <li>2 parting blades</li> <li>30 degree deburring tool</li> <li>Operating tools</li> <li>Shipping box</li> <li>Manual.</li> </ul>	69-4815-14
7in through 9- 5/8in Slide Assembly	60-4005-01
9- 5/8in through 13-3/8in Slide Assembly	60-4005-02
Extension Leg Assembly to mount EICC clamping chuck into 7in, 7- 5/8in, 8- 5/8in and 9- 5/8in casing	60-4006-01
Extension Leg Assembly to mount EICC clamping chuck into 10 3/4in, 11 3/4in and 13-3/8in casing	60-4006-02
LCSF 610 EICC Bridge Assembly	60-4007-10
LCSF 612 EICC Bridge Assembly	60-4007-12
LCSF 814 EICC Bridge Assembly	60-4007-14
LCSF 1016 EICC Bridge Assembly	60-4007-16
LCSF 1420 EICC Bridge Assembly	60-4007-20
Mechanical counter assembly for EICC system. Counter cam not supplied with this assembly.	60-4008-01
31in Drive Tube Assembly	60-4009-31
42in Drive Tube Assembly	60-4009-42
48in Drive Tube Assembly	60-4009-48
54in Drive Tube Assembly	60-4009-54
Heavy Duty Right Angle Cleco 2 1/2 hp Reversible Air Motor Assembly w/Oiler & Speed Control.	60-4010-01
Universal Wellhead Adapter	60-4011-03
Wellhead Adapter for EICC system. Requires customer supplied CAD model of wellhead. P/N will be assigned after review of the application and wellhead design	60-4011-X1
Wellhead Adapter for EICC system. P/N will be assigned after review of the application and wellhead design	60-4011-X2
HSS Severing Tool for EICC system. (2) severing tools required per machine for use. (2-piece minimum order)	60-7000-01
HSS 20 Degree OD Bevel Tool. 70 degree bevel when measured from casing centerline. (2-piece minimum order)	60-7001-20
HSS 30 Degree OD Bevel Tool. 60 degree bevel when measured from casing centerline. (2-piece minimum order)	60-7001-30

\*MDSF 814 machine with front pinion and air motor ordered separately\*

## Casing Cutting Tools

DESCRIPTION	PART #
Tool Holder Kit, 45 Degree Casing Bevel	69-7015-00
Tool Holder Kit, 60 Degree Casing Bevel	69-7016-00
Tool Insert, 45 Degree Casing Inside Bevel	69-7017-00
Tool Insert, 60 Degree Casing Inside Bevel	69-7018-00



EICC Bridge Assembly



Universal Wellhead Adapter



DuoEdge 45° Casing Bevel Tool Holder & Insert



DuoEdge 60° Casing Bevel Tool Holder & Insert