

▼ FF120



## Safe, efficient and accurate refacing of flat pipe flange surfaces



### Complete in Wheeled Carrying Case

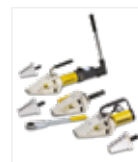
The **FF120** comes as portable set (33 lbs). Can be transported, easy set-up and operated by a single

technician. Set includes:

**FFL**-kit with locators, O-Rings and extensions;  
**FSS**-kit with feed screw and nut ½"-20 UN for surface roughness Ra 64 - 96 µin.

**FSF**-kit with feed screw and nut ½"-11 UNF for surface roughness Ra 125 - 250 µin..

- Makes refacing easy – hand-operated machine tool can be set up anywhere without the need for air, electric or hydraulic power
- Lightweight and portable (33 lbs in storage box)
- Adjustable cutting head for reface of flat flange surfaces of pipes with flange outside diameter facing range 1 - 12 inches (25,4 - 304,8 mm)
- Interchangeable collets for ID mounting range 1-6 inches (25,4 - 152,4 mm) allow the user to work on many different flanges with minimal time between set-ups
- Interchangeable lead screws suitable for refacing damaged raised-face (RF) or flat-face (FF) joint flanges
- Tool body with expanding collets centers itself providing real concentric operation.



### Joint Separation Tools

FSC, FSH and FSM-Series parallel wedge spreaders provide quick and easy joint separation using hydraulic or mechanical force.

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### Flange Alignment Tools

The FA-Series provide safe and high-precision flange alignment tools that fit most commonly used ANSI, API, BS and DIN flanges.

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▼ The Enerpac FF120 used to face a pipe flange.



### Controlled Tightening and Loosening

Use Enerpac Bolting Tools to seal the joint to the precise torque or tension required: torque

multipliers, torque wrenches and hydraulic bolt tensioners.

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# QuickFace – Mechanical Pipe Flange Face Tool



## Mechanical Flange Face Tool

Portable, hand-operated tool makes even the hardest to reach pipe flanges resurfaceable in a safe and convenient way.

### Makes refacing easy

A simple and cost-effective solution – the FF120 turns a two man operation with heavy equipment, compressors and portable generators into a one man job.

The FF120 has interchangeable lead screws that make it suitable for resurfacing damaged flat-faced or raised-face joint flanges to the high safety standards required.

**FF120 is not suitable for lens-ring joint flanges or ring type joint (RTJ) flanges.**

After selecting the correct lead screw for the operation, the tool body is inserted in the pipe end and centres itself with adjustable locators to provide real concentric operation.

The tool arm is then rotated by hand using a worm-gear mechanism to provide a perfect spiral “gramophone” finish.

The tool can be adjusted with a calibrated slide to define cut depth and the correct finish.

### Surface finish & accuracy

A serrated finish with 30-55 grooves per inch and a resultant roughness of between Ra 125-500 micro inches (3,2-12,5 µm). The FF120 has same precision and quality of finish as a lathe.

### Cost-effective solution

Small and portable enough to be a permanent addition to your equipment range, Enerpac's FF120 is the perfect solution to all of your small diameter facing problems.

**For more Flange Facing Machines, see page 381.**

## FF Series



Pipe Flange Cutting Diameter Range:

**Ø 1 - 12" / 25 - 305 mm**

Internal Pipe Mounting Range:

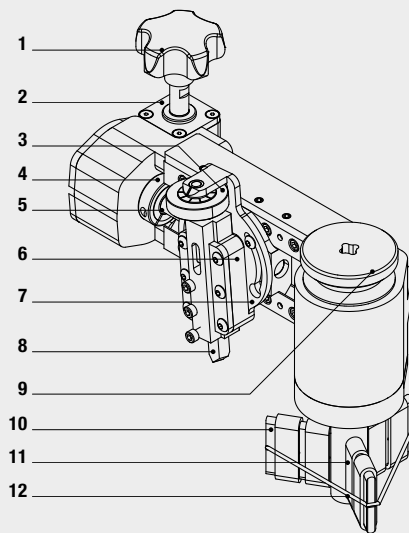
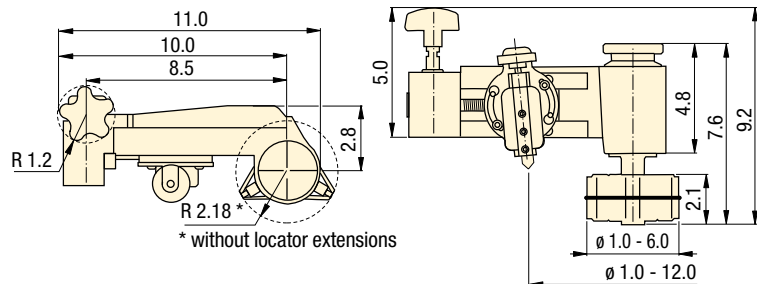
**Ø 1 - 6" / 25 - 152 mm**

Cutting Resultant Roughness:

**Ra 125-500 µin (3,2-12,5 µm)**



- 1 Hand-operated cold work tool – no need for external power and hot work permits.
- 2 Calibrated cross slide for accurate cutting control.
- 3 Adjustable cutting head for reface of flat flange surfaces of pipes with flange OD facing range Ø 1-12 inches (25,4-304,8 mm).
- 4 Interchangeable lead screws enable selection of surface finish between Ra 125-500 µin (3,2-12,5 µm).
- 5 Utilizes standard 3/8 inch or 10 mm tool steel.
- 6 Range of interchangeable collets allow the tool to accommodate Ø 1 - 6 inches (25,4 - 152,4 mm) pipe internal diameter.
- 7 Tool body with expanding collets centers in the bore ensuring concentric and accurate set-up.



- 1 Feed Knob
- 2 Gear Box
- 3 Cutting Depth Adjustment with indicator: .005 inch (0,127 mm) per mark
- 4 Locking Collar
- 5 Lead/Feed Screw
- 6 Tool Block
- 7 Swivel Slide
- 8 HSS 3/8" Tool Bits
- 9 Mandrel Locking Knob
- 10 Locator Extensions
- 11 Adjustable Locators
- 12 O-Ring

▼ The Enerpac FF120 QuickFace has same precision and quality of finish as a lathe.



### ▼ SELECTION CHART

Pipe Flange Cutting Diameter Range		Internal Pipe Mounting Diameter Range		Cutting Resultant Roughness	Model Number	
(inch)	(mm)	(inch)	(mm)	(Ra µin)		(lbs)
1.0 - 12.0	25,4 - 304,8	1.0 - 6.0	25,4 - 152,4	125 - 500	FF120	15