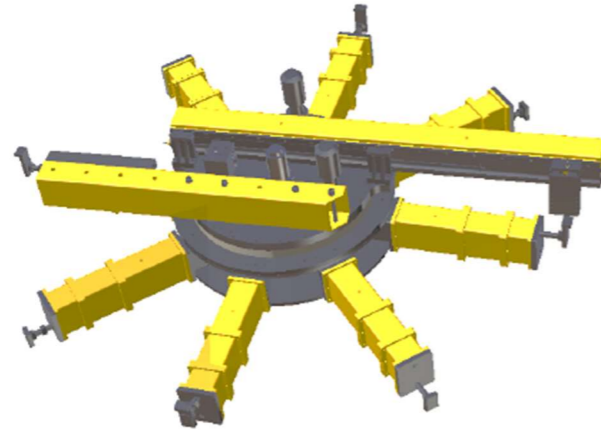




## TFI3000P Flange Facing Machine



FI3000 Flange Facing Machine adopts the disk type high precision slewing bearing support structure, relative to the spindle structure, the anti-overturning moment of the equipment is enhanced, and the overall height of the equipment is greatly reduced, especially the aseismatic ability of the tool arm is enhanced during vertical processing.

It is rugged, compact and ideal for quickly reconditioning rusty, scarred or worn flange gasket seats to like new condition in short time. ID-mounted, this machine has a working range of 1143mm (45") to 3050mm (120"). The mounting bases with 8 clamping legs have micro-adjustable jaws to help quickly align the base during set-up. It can machining standard FF and RF flange facing, RTJ and other V grooves, welding reparations, etc. The FI3000 Flange Facing machine are suitable for the oil and gas industry, power plants, chemical plants, oil rigs and many others. They are prepared to implement applications complying with ASME B16.5 standards.

### Features

Welded Tool arm ensure strength

High precision preloaded disc type rotary bearing ensure equipment accuracy and stability

Modular design makes on-site installation safe and labor-saving

ID Mounted and operates in any direction

Suitable for various flange type: flat face, raise face, ring type joints(RTJ), Tongue & groove, compact flanges

Dual air motor makes it powerful

2 continuous facing feeds for a gramophone finish (ASME B16.5 Standard)

Swivel tool post for groove details

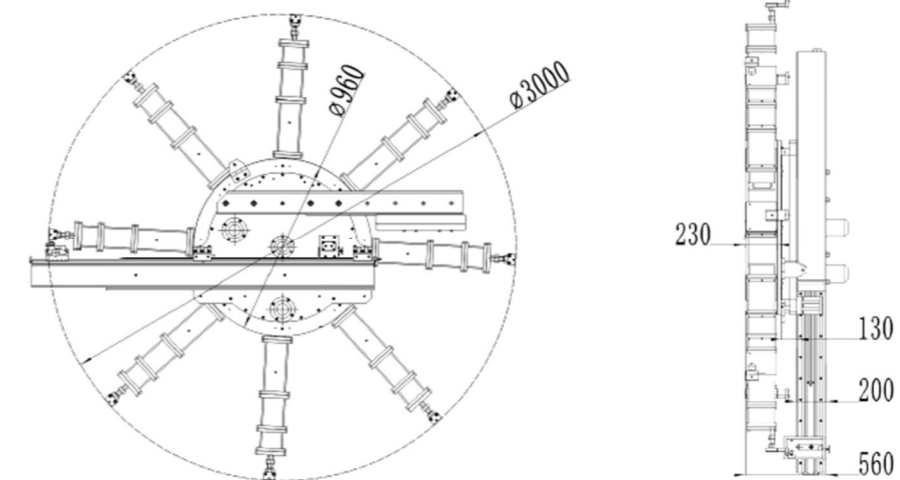
Heat exchange mounting plate, back facing tool holder for options

Steel case package, easy to storage and move

### Specifications

Model	TFI3000P
Driven	Pneumatic
Motor	Air Motor
Power Supply	4.5-6m /min (160-210CFM)@0.6Mpa (90psi)
Motor Power	3.5HP * 2
Min. Facing Dia.	1143mm / 45"
Max. Facing Dia.	3050mm / 120"
Min. Clamping Dia.	1100mm / 43.31"
Max. Clamping Dia.	3000mm / 118.11"
No. of Feed Settings	2
Feed Rate 1-Fine	0.125mm/r
Feed Rate 2-Coarse	0.5mm/r
Tool Post Travel	102mm / 4"
Vertical Feed	Manually
Vertical Feed Rate (Feed wheel)	2mm/r
Max. R.P.M	15
Machine Weight	2000 Kgs
Shipping Weight	2620 Kgs
Package	Steel Case * 2

### Dimension Figure





## ID MOUNTED FLANGE FACER



The ID mounted flange facing machine is designed for the flange facing, seal groove, serrated finish, weld prep. And counter boring. With the latest line and ball screw technology, the equipment adopts the modular design concept as a whole. Each step of design takes the field processing as the starting point. This machine is widely used in the flange connecting of petroleum, chemical, natural gas and nuclear power. With the light weight, this machine is helpful for the on-site maintenance. It ensures the high security and efficiency.

### Features:

- Light weight, easy to carry, fast installation and easy to use.
- Stock finish, smooth finish, gramophone finish, on flanges, valve seats and gaskets.
- Boring and milling tools are optional.
- Driven motor: Pneumatic, Electric.
- Latest linear technology for durability and repeatable accuracy.

### Technical Details:

Model No.		TIFF-610	TIFF-1016
Clamping Range	mm	50 - 560	152.4 - 812.8
Working Range	mm	50 - 610	152.4 - 1016
Feed Rate	mm/ rev	0.06-0.23 - 0.2-0.8	0.06-0.23 - 0.2-0.8
Tool Stroke	mm	40	40
Rotating	rpm	0 - 60	6 - 34
Weight	kg	41	109



## FACE MOUNTED FLANGE FACER SERIES



Face Mounted Flange Facer machines are specialized tools used for the maintenance and repair of flanges in pipelines, vessels, and other industrial equipment. Here are some of the key features of external mount flange facing machines.

### Features:

- **Portability:** Designed to be lightweight and easily transportable. Suitable for use in field operations as well as in workshops.
- **Mounting Mechanism:** Mounts on the Face, in the bolt holes of the flange. Secure clamping system ensures stability during operation.
- **Adjustable Facing Arms:** Equipped with adjustable arms to accommodate different flange sizes. Typically can handle a wide range of diameters.
- **Versatile Cutting Tools:** Supports various cutting tools for different facing applications.
- **Drive Options:** Available with electric and Pneumatic drive systems.
- **Precision and Control:** Fine adjustment controls for precise cutting depth and feed rate. Dial indicators for setting up the machine parallel the surface.
- **Rotational Speed Control:** Variable speed control to match the material and desired finish.
- **Durability and Build Quality:** Robust design ensures long service life and reliability.
- **Ease of Use:** User-friendly design with intuitive controls. Minimal training required for operation.
- **Accessories and Attachments:** Can be equipped with various attachments for specific tasks, such as grooving or boring. Optional accessories for enhanced functionality and versatility.
- **Application Range:** Suitable for a variety of industries including oil and gas, petrochemical, power generation, and water treatment. Capable of facing flanges made from different materials such as steel, stainless steel, and other alloys.

### Technical Details:

Model No.			TFF-1200	TFF-2500
Rated Power		kW	1,8	1,8
Surfacing Arm Speed		rpm	10 - 30	3 - 9
Working Range		mm	300 - 1200	1200 - 2500
Clamping Diameter		mm	450-1500	1350 - 2800
Feed Gears Radial	Feed 1	mm	0.1 mm / revolution	0.1 mm / revolution
	Feed 2	mm	0.5 mm / revolution	0.5 mm / revolution
Manual Hand Wheel		mm	1 mm / revolution by hand wheel	1 mm / revolution by hand wheel
Vertical Tool Feed Manual		mm	30	30
Angled Facing Head			Angle adjustment: 0° - 120°	Angle adjustment: 0° - 120°
Weight		kg	170	275