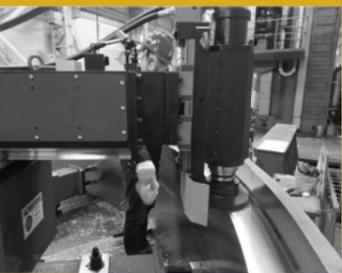
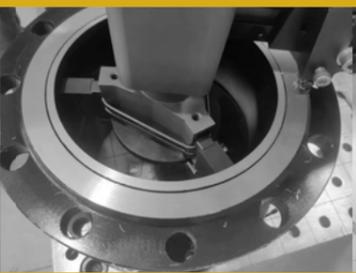
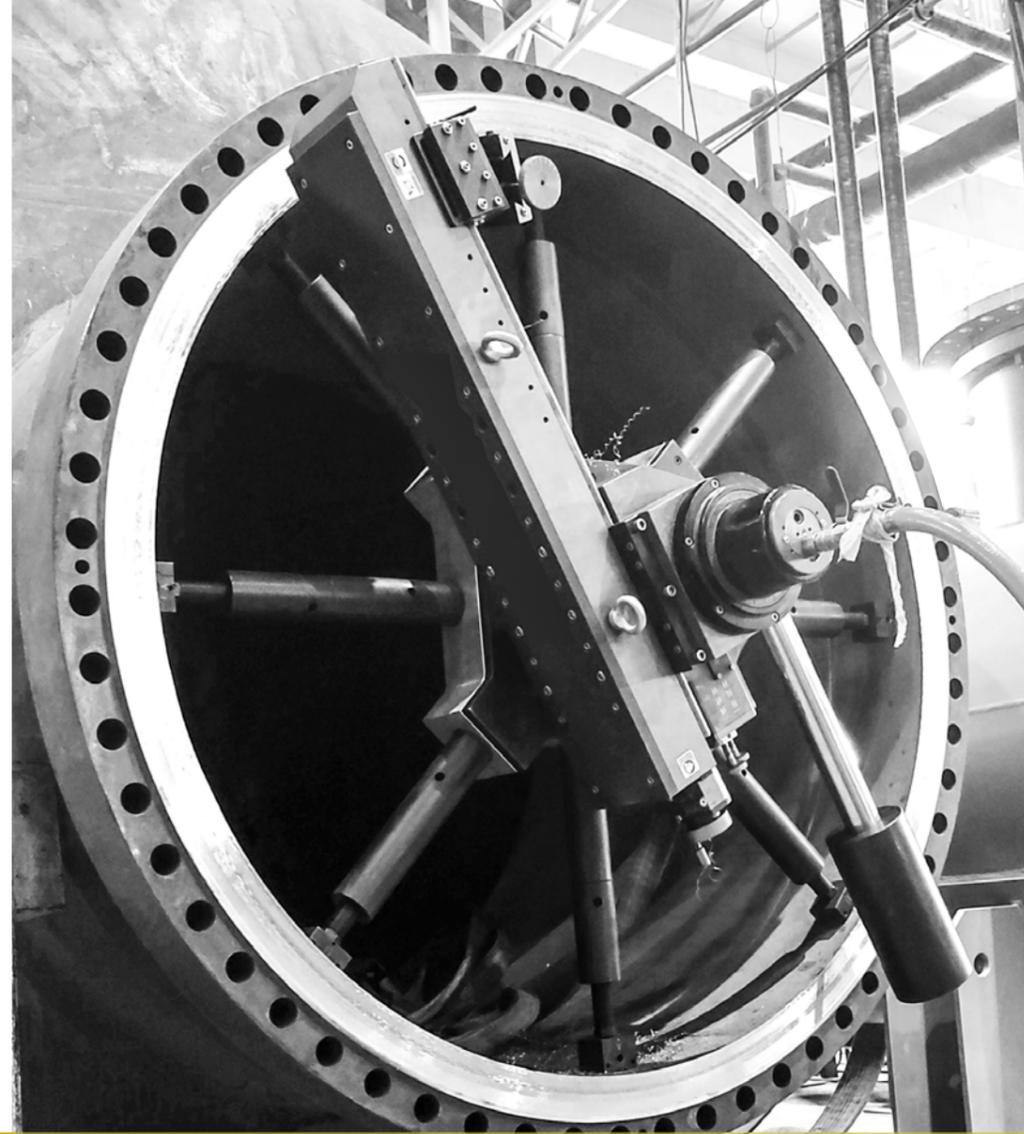


NODHA®

Quality, Your Value, Our Life



NODHA®

Portable Cutting & Machining Tools

Flange Facer - Manually
Flange Facing Machine
Flange Milling Machine
Flange Tools

YouTube



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Nodha Industrial Technology (Wuxi) Co.,Ltd

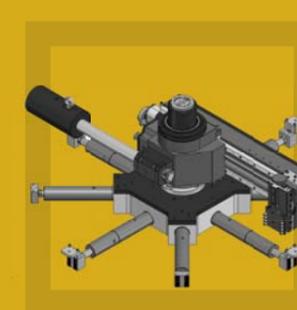
Add: 6th Floor, 12nd Building, No. 9 XingYang Road,
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Web: www.nodha.com

Distributor:



EN IEC 61000-6-4:2019
EN IEC 61000-6-2:2019
EN ISO 12100:2010
EN 13128:2001+A2:2009
EN 60204-1:2018

ISO9001

Due to continuous product development all dimensions and specifications listed above may be subject to alteration without prior notice NODHA accepts no responsibility for any circumstance arising due to any changes that may result.
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Since 2005

Serving customers from 74 Countries

About Us

NODHA is committed to providing high quality machinery and services to customers from 74 countries all over the world by 2023. And NODHA is pursuing to provide better products and services to more customers. With the enrichment of the products range, NODHA completed the transition from selling machinery to finding solutions for users.

We keep moving forwards in this field, still keep at customer orientation, supply good service. To be honest, exploitation and enterprising, seek truth and innovation are our credo. Your satisfaction is our great success.

Our Products

On-site Machining

- Pipe cold cutting and beveling machine
- Flange facing machine
- Line boring machine
- Line milling machine
- Threading machine

Pipe Fabrication

- Portable pipe beveling machine
- Light duty pipe cutting and beveling machine
- CNC pipe cutting and beveling machine
- CNC pipe beveling machine
- Automatic pipe-pipe, pipe-flange, pipe-pipe fitting welding

Orbital Technology

- Orbital cutting machine
- Tube facing machine
- Orbital welding machine
- Tube-Sheet welding machine

Plate Processing Equipment

- Portable plate beveling machine
- CNC plate edge milling machine
- Plate edge rounding machine
- Heavy duty slag remove machine
- Customized plate edge milling machine

Content

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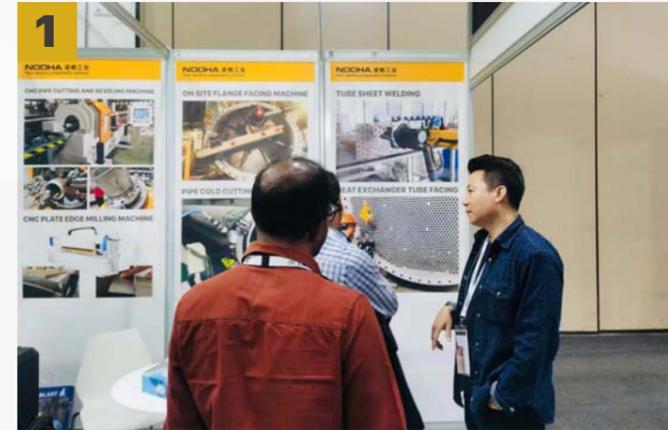
CERTIFICATE



TRAINING



EXHIBITION



1. SteelFab 2024, Sharjah, U.A.E
2. OTC 2023, Houston, USA
3. SCHWEISSEN&SCHNEIDEN 2023 Germany
4. OTC 2019, Houston, USA



U.A.E



U.S.

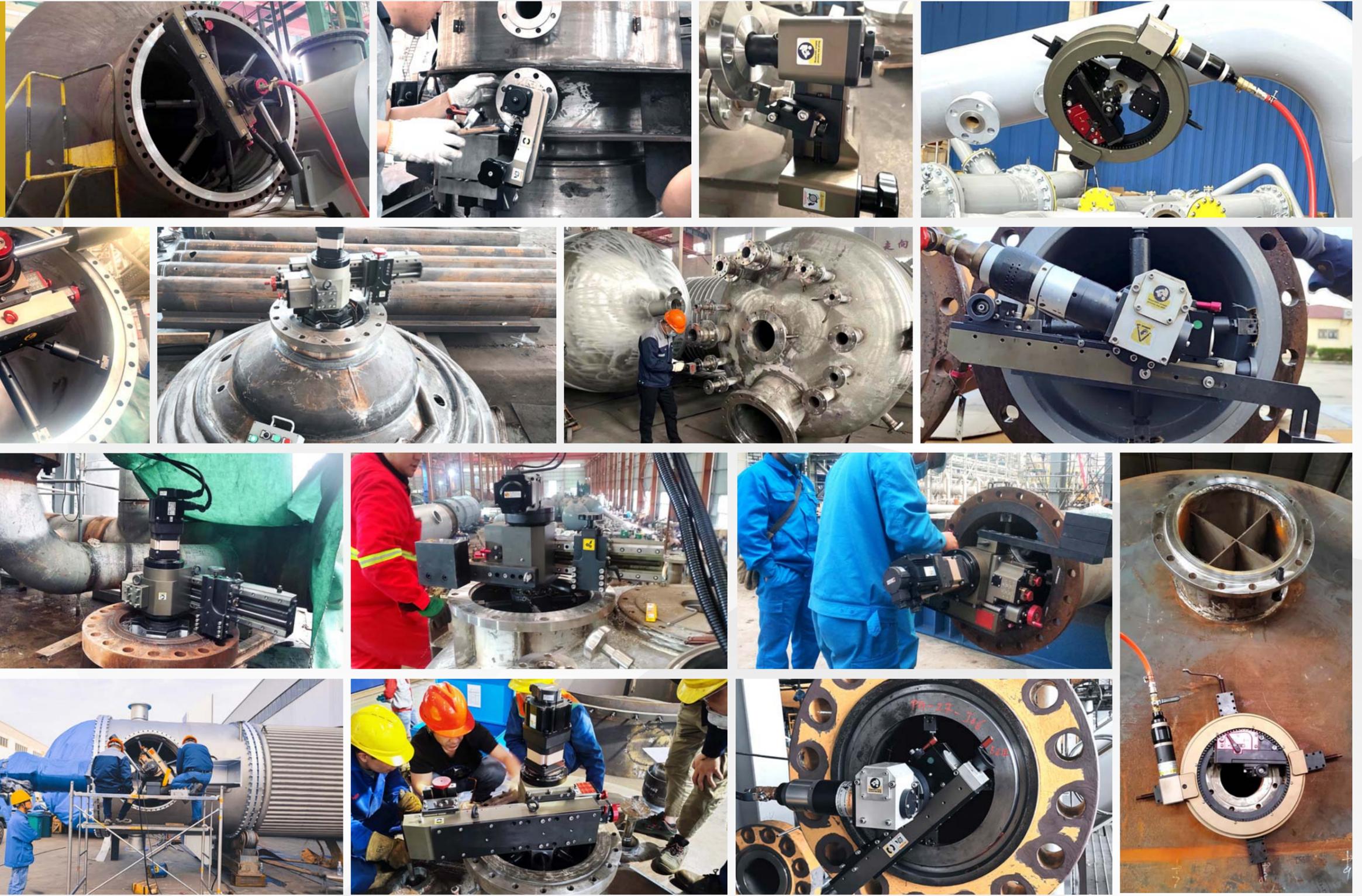


Germany



Abu Dhabi

APPLICATION



FE305 Flange Facing Machine

0-305mm(0"-12")

YouTube



FE305 Flange Facer is OD-Mounted type, rugged, compact and ideal for quickly reconditioning rusty, scarred or worn flange gasket seats to like-new condition in minutes. It has a working range of 0 mm (0") to 305mm (12") and features 2 continuous feed rates. Air type powered by a 1.47HP high torque pneumatic motor; Electric type powered by 1Kw Panasonic servo motor and rotates on a high precision bearing giving excellent rigidity. It can machine standard FF and RF flange facings, RTJ and other V grooves, weld reparations, etc. The FE305 Flange Facer are suitable for the oil and gas industry, power plants, chemical plants, oil rigs and many others. It is prepared to implement applications complying with ASME standards.



Features

- Lightweight, compact and portable
- OD mounted and operates in any direction
- High precision preloaded bearing makes the machine precise and robust
- Suitable for various flange type: flat face, raise face, ring type joints(RTJ), Tongue & groove, compact flanges
- Pneumatic and Panasonic electric servo motor drive for option
- 2 continuous groove facing feeds for a gramophone finish (ASME Standard)

Specifications

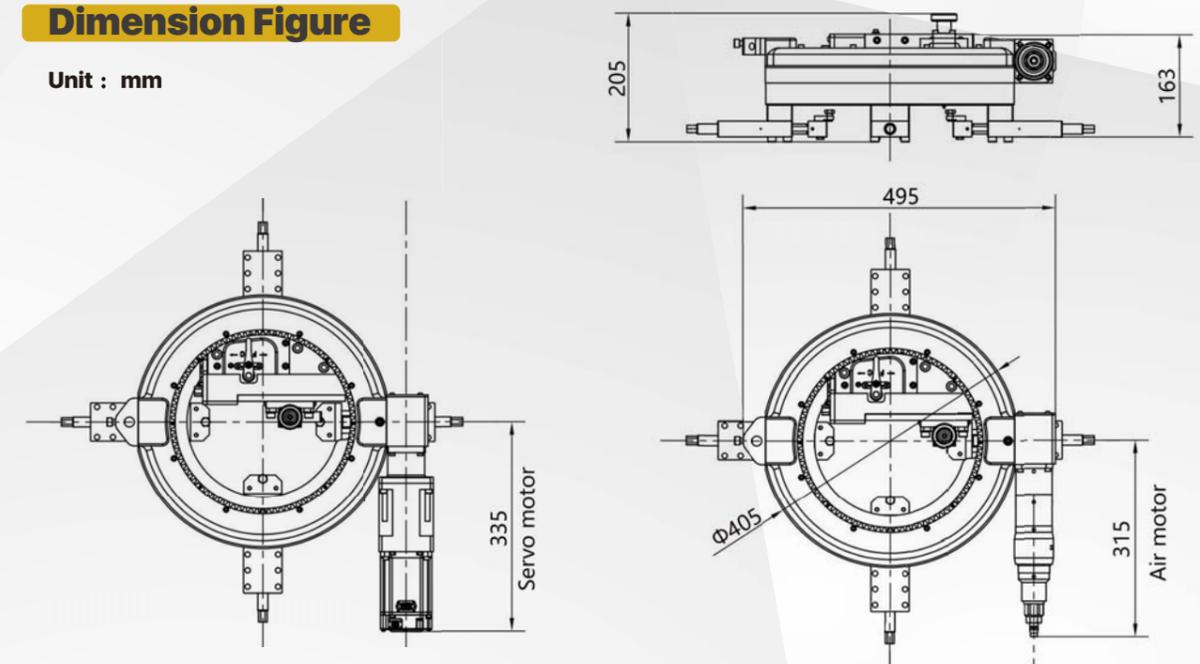
Model	FE305P	FE305E
Driven	Pneumatic	Electric-Servo
Motor	NODHA Air Motor	Panasonic Servo Motor
Power Supply	1.0m ³ /min (35CFM)@0.6Mpa (90psi)	220-240V 1PH 50/60HZ
Motor Power	1.47HP	1.0Kw
Min. Facing Dia.	0mm / 0"	
Max. Facing Dia.	305mm / 12"	
Min. Clamping Dia.	50mm / 2"	
Max. Clamping Dia.	450mm / 17.72"	
Tool Post Travel	40mm / 1.57"	
Max. R.P.M	45	57
Machine Weight	45 Kgs	44 Kgs
Shipping Weight	95 Kgs	139 Kgs
Package	Durable plastic case	Steel case
Shipping Dimensions	850*620*580mm	1160*600*510mm

Feed Rates

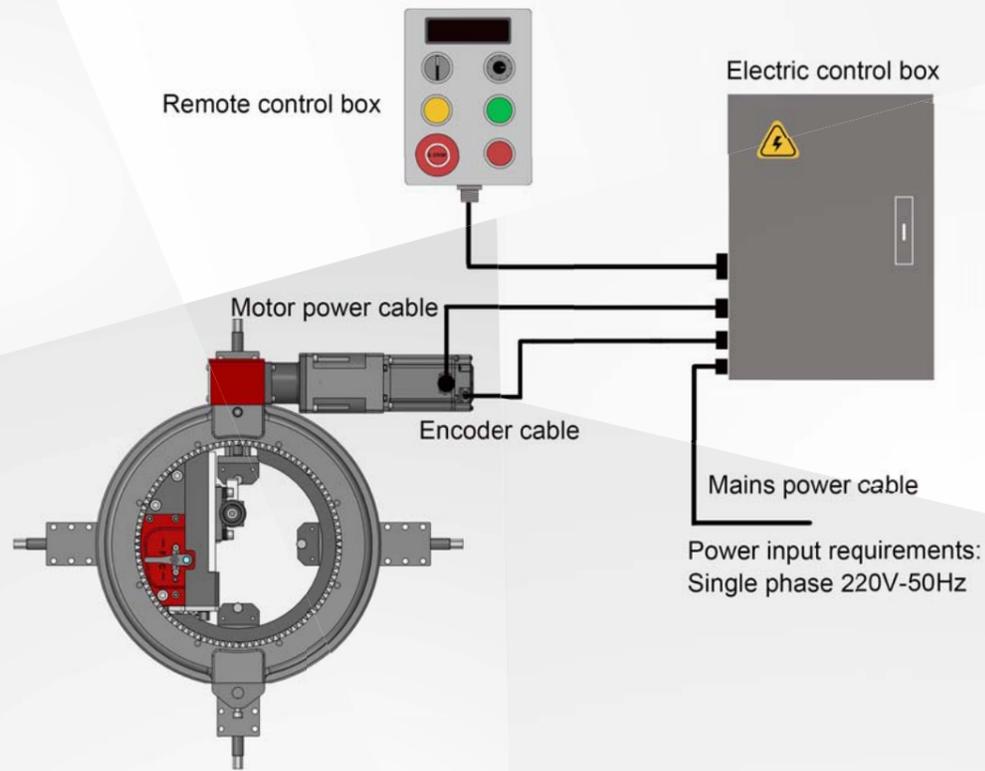
Direction	Gear Shift	Rate(mm/rev)	Rate(Inch/rev)
OUT	F (Fine)	0.125	0.005
IN	C (Coarse)	0.5(ASME B-16.5)	0.02

Dimension Figure

Unit : mm



Electric type connection



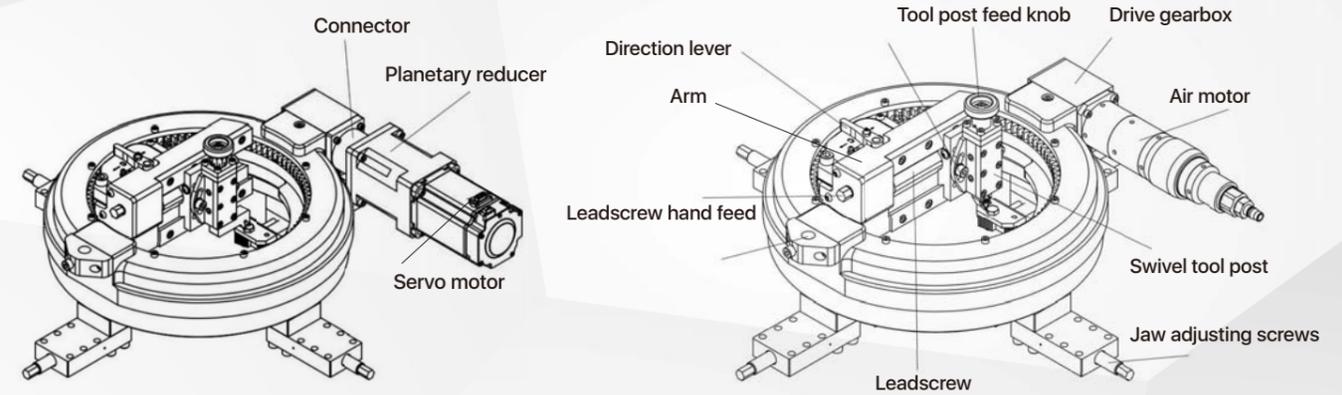
Standard Supply

Main Body-c/w Air motor
Extension Tool holder
90° Tool (RH)
Axial feed mechanism
Cutting tips - 5 pcs
RTJ Tools - 3 pcs
Full set hand tool
Air motor lubricating oil
Air Filter Lubricator-SMC
Hose connection
Full set clamps
Dia Gauge
Storage / Shipping case
Manual

Package



Configuration



Application



FI355M Flange Facer

27.2-355.6mm (1.07"-14")

YouTube



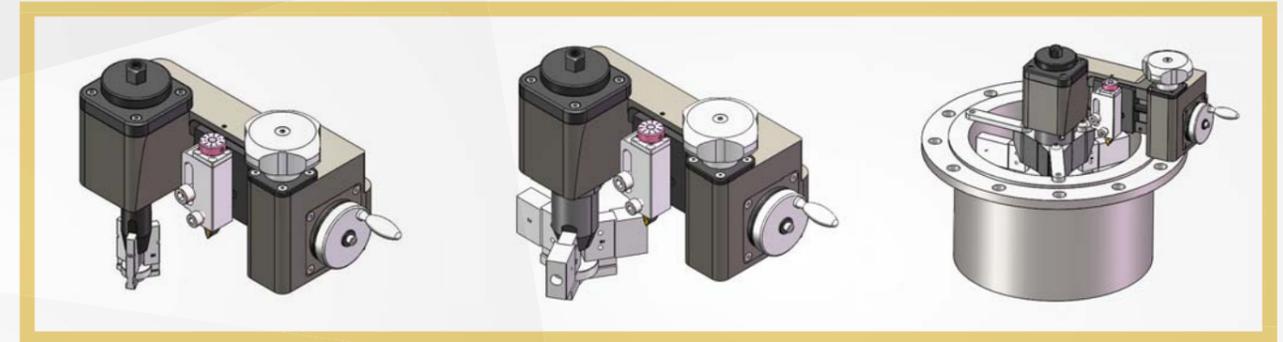
FI355M Manual Flange Facer is ideal for flange rush repair without any power source required. It is the most portable and easy to operate flange facer and perfect for re-facing raised-face and flat-faced flanges on site or in a fabrication/repair shop. The FI355M Flange Facer has a clamping range from 27.2mm to 270mm (1.07"-10.63") and can machine flanges up to 355.6mm (14") O.D.

The NODHA proprietary clamping system is simple to configure and designed for fast set up with accurate alignment. Cutting bits are double sided, long-lasting, and specially formed to cut through a wide variety of material including carbon steel, stainless steel, alloyed steel, aluminum and cast iron. Each tool kit comes ready to use in a sturdy carrying case that keeps everything conveniently organized and readily accessible.



Features

- Manual operated, no any power required
- Smooth swing operation produces perfectly precise phonographic finish
- Accurately mounts to I.D. in seconds, quick and easy set up
- Feeds available for both smooth and stock finish in accordance with ASME B-16.5
- Complete with kits ready to work
- Portable, durable trolley case, easy to storage and move

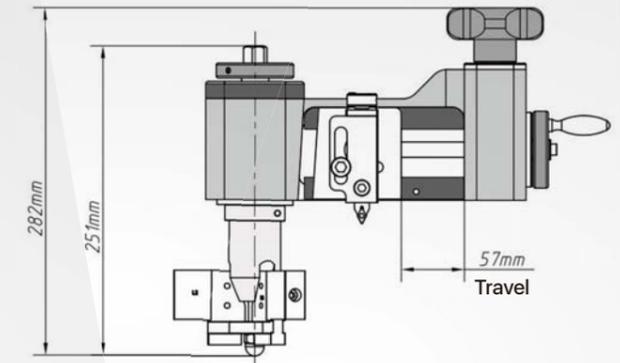
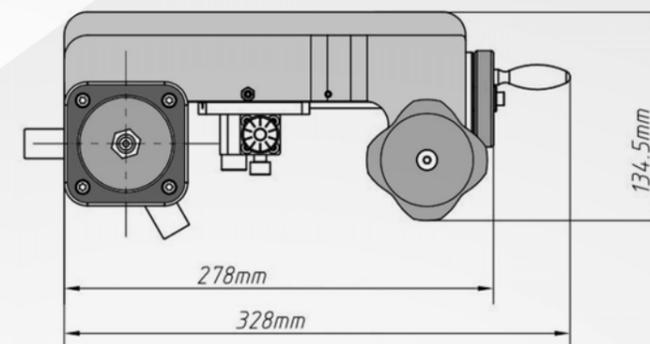


Three sizes of mounting chassis
covering Dia. 27.2-270mm
ensure stability during machining

Specifications

Model	FI355M
Driven	Manually
Min. Facing Dia.	27.2mm / 1.07"
Max. Facing Dia.	355.6mm / 14"
Min. Clamping Dia.	27.2mm / 1.07"
Max. Clamping Dia.	270mm / 10.63"
Tool Post Travel-Vertical	40mm / 1.57"
Tool Post Travel-Horizontal	57mm / 2.24"
Fine Finish-Feed Screw	0.125mm/rev. / 0.005"
ASME B16.5-Feed Screw	0.5mm/rev. / 0.02"
Swing Diameter range	495-582mm / 19.5"-22.9"
Machine Weight	9 Kgs
Shipping Weight	29 Kgs
Package	Durable plastic case
Shipping Size	680x510x250mm

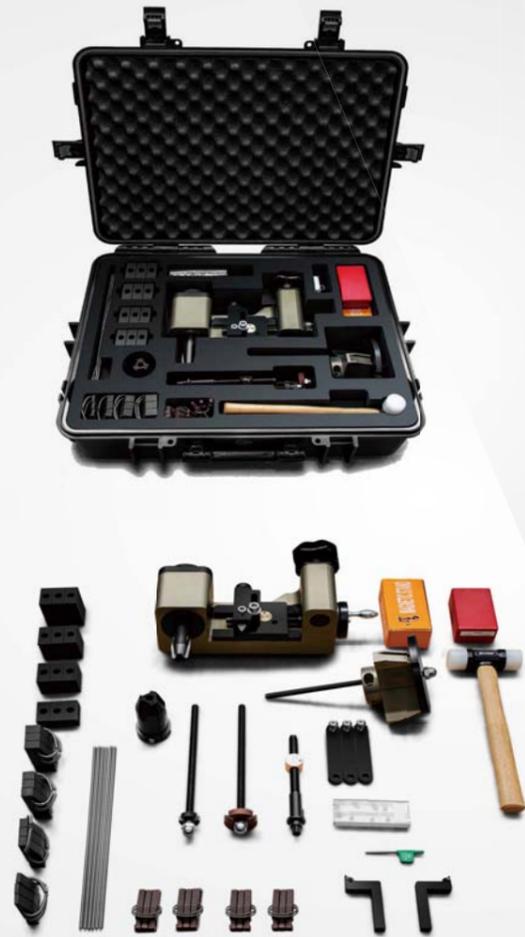
Dimension Figure



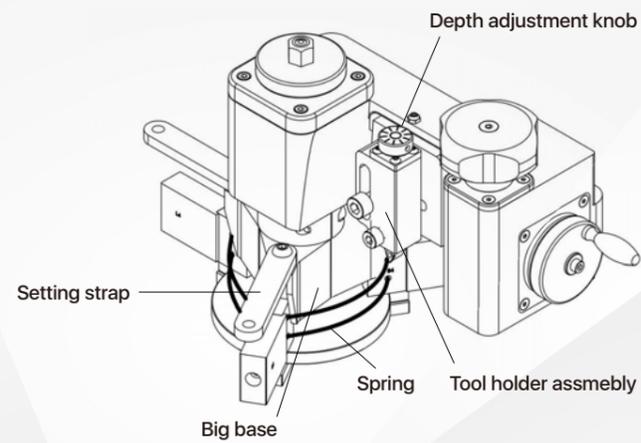
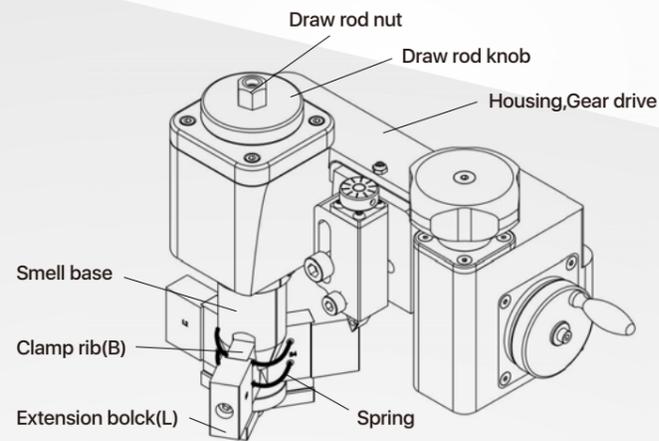
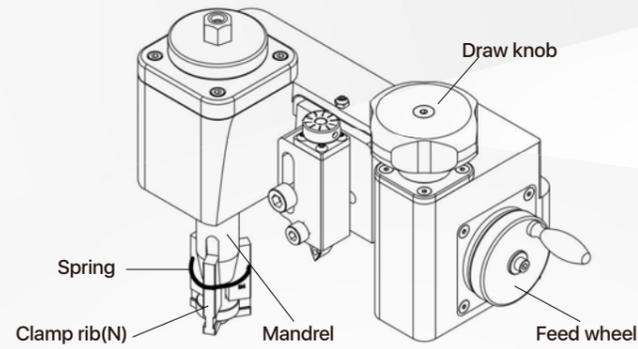
Standard Supply

Facer Body	Extention legs-N1, N2, N3, N4
ASME B16.5 Lead Screw	Extention legs-B1, B2, B3, B4
Straight Tool	Extention Legs-L1, L2, L3, L4
90° Tool (RH)	Spring- L 115mm
90° Tool (LH)	Spring- L 300mm
Cutting tips - 10 pcs	Allen keys, set
Pull Rod -3 Nos	Spanner 17mm
S-Base	Plastic Hammer
M-Base	Dia Gauge
L-Base	Manual

Package



Configuration



Application



FI700 Flange Facing Machine

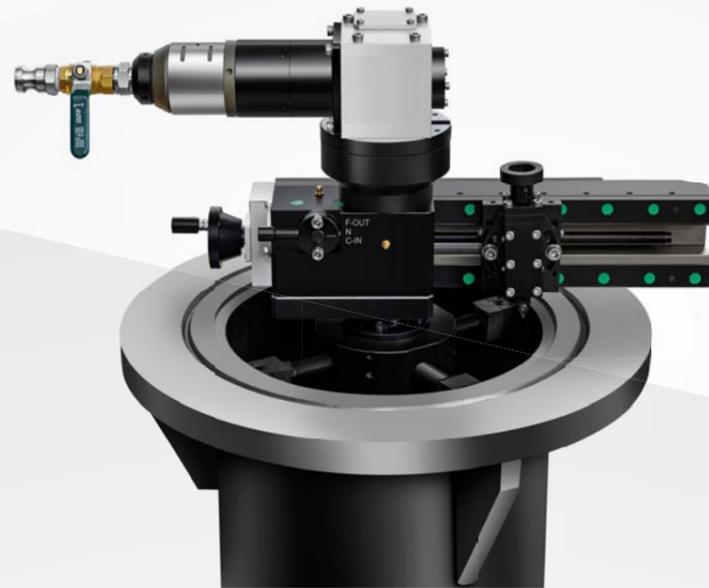
120-700mm (4.72"-27.56")

YouTube



Compare to the similar size flange facing machine in the market, FI700 increased the main shaft size, make sure the working stability while working the large size flange in its range. Internally mounted type, it has a working range of 120 mm (4.72") to 700 mm (27.56") and features 2 continuous feed rates.

The mounting base come in three sizes and have micro-adjustable jaws to help quickly align the base during set-up. Air motor and Servo motor are optional. FI700 can machine standard FF and RF flange facings, RTJ and other V grooves, weld reparations, etc. The FI700 Flange Facer are suitable for the oil and gas industry, power plants, chemical plants, oil rigs and many others. It is prepared to implement applications complying with ASME standards.



Features

- High precision NSK bearings make the machine precise and robust
- ID Mounted and operates in any direction
- Light weight & Rigidity body 7075 Alu
- Suitable for various flange type: flat face, raise face, ring type joints (RTJ), Tongue & groove, compact flanges
- Pneumatic and Panasonic electric servo motor drive for option
- 2 continuous groove facing feeds for a gramophone finish (ASME Standard)
- 3 different sized quick set independent bases for improved on-site operation
- 360° swivel tool post for groove details
- Steel case package, easy to storage and move

Specifications

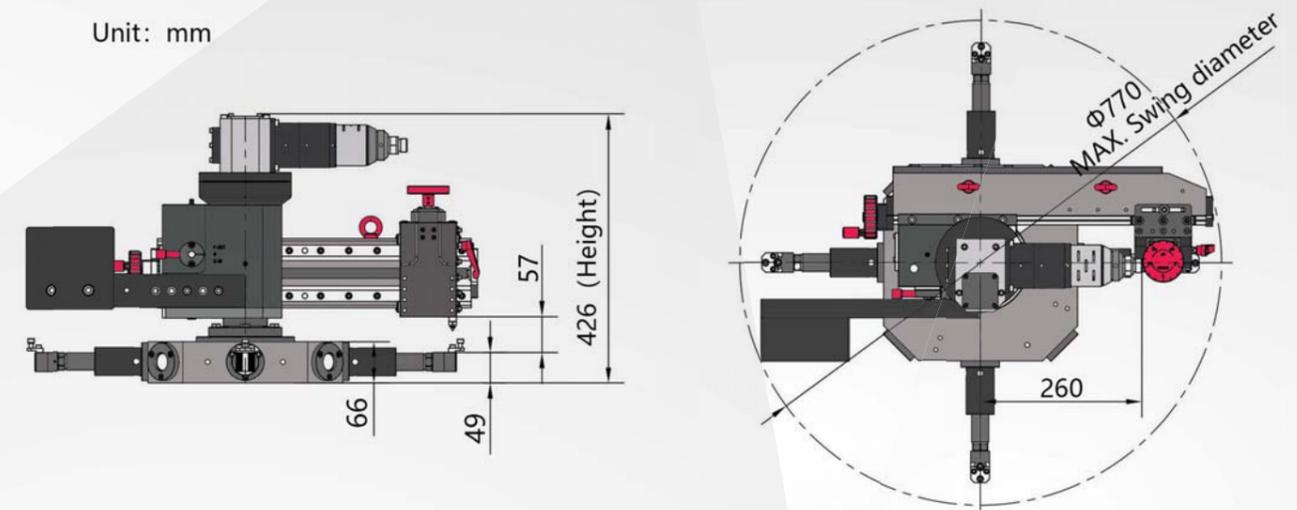
Model	FI700P	FI700E
Driven	Pneumatic	Electric - Servo
Motor	NODHA Air Motor	Panasonic Servo Motor
Power Supply	1.0m ³ /min (35CFM)@0.6Mpa (90psi)	220-240V 1PH 50/60HZ
Motor Power	1.47HP	1.0Kw
Min. Facing Dia.	120mm / 4.72"	
Max. Facing Dia.	700mm / 27.56"	
Min. Clamping Dia.	96mm / 3.78"	
Max. Clamping Dia.	700mm / 27.56"	
Tool Post Travel	50mm / 1.97"	
Max. R.P.M	40	45
Machine Weight	106 Kgs	126 Kgs
Shipping Weight	161 Kgs	177 Kgs
Package	Steel Case	Steel Case
Shipping Dimensions	860x600x600mm	1160x600x600mm

Feed Rates

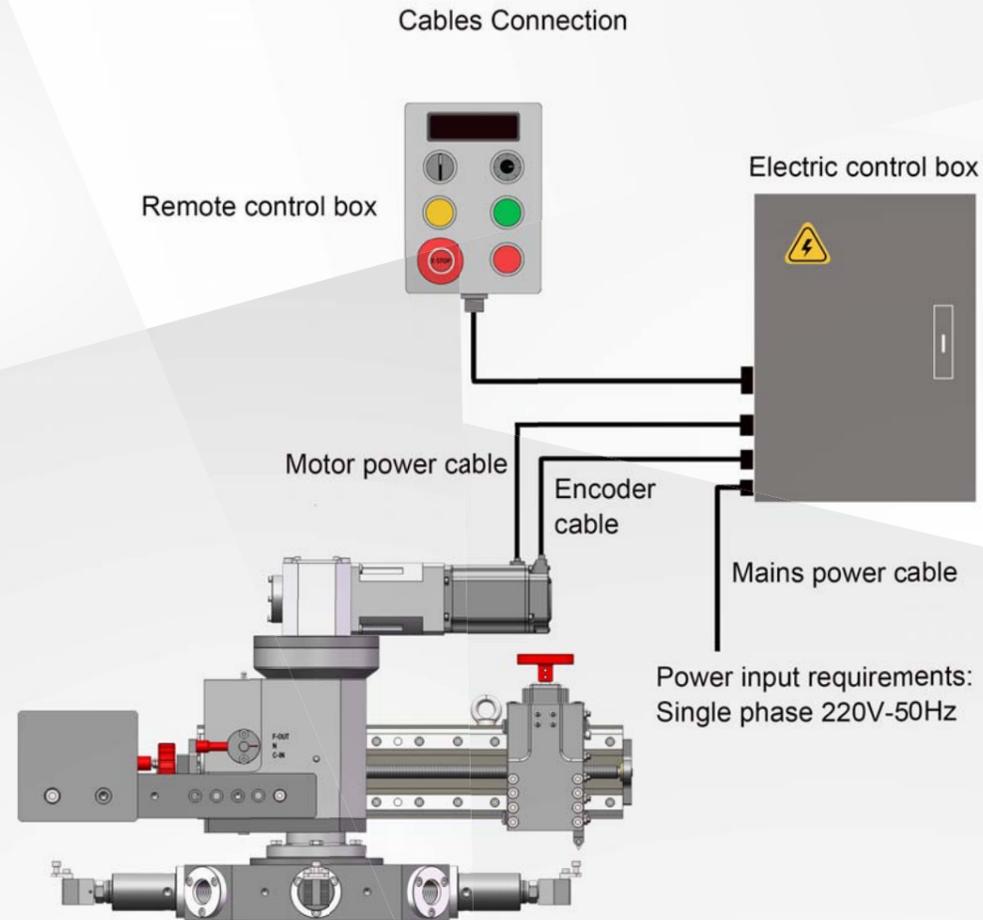
Direction	Gear Shift	Rate(mm/rev)	Rate(Inch/rev)
OUT	F (Fine)	0.125	0.005
IN	C (Coarse)	0.5(ASME B-16.5)	0.02

Dimension Figure

Unit: mm



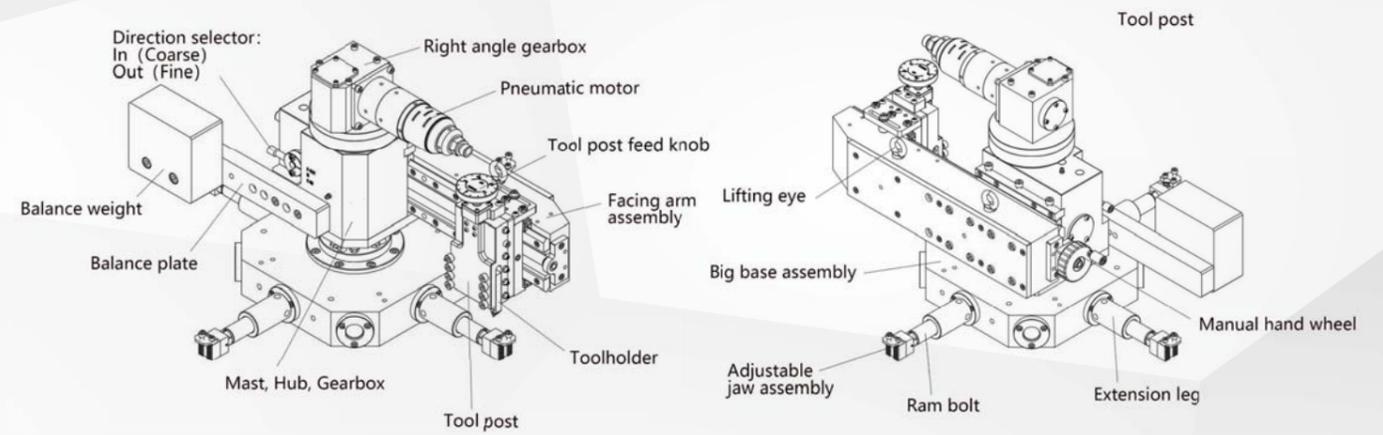
Electric type connection



Standard Supply

Main Body-c/w Motor	Full set Clamping Screws
Self-Centering Base	Axial feed mechanism
S-Base	Horizontal adjustment set
L-Base	Full set hand tool
Tool	Air motor lubricating oil
Extension Tool holder	Air Filter Lubricator-SMC
Cutting tips - 5 pcs	Hose connection
RTJ Tools - 3 pcs	Full set clamps
Counterweight	Dia Gauge
Counterweight plate	Storage / Shipping case
Extension nut	Manual

Configuration

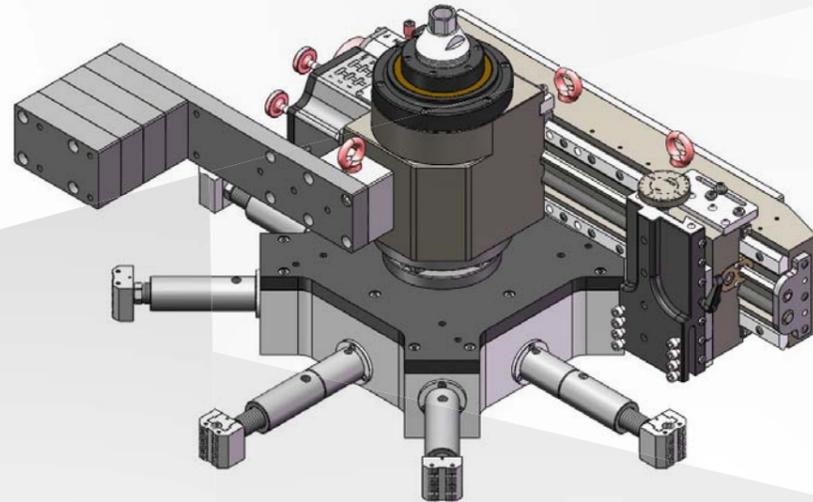


Application



FI1000 Flange Facing Machine

153-1000mm (6"-40")



FI1000 is an ID mounted and robust flange facing machine capable of producing 6 different continuous groove gramophone finishes to ASME Standard. It has a working range of 153mm (6") to 1000mm (40"). The mounting bases come in three sizes and have micro-adjustable jaws to help quickly align the base during set-up. Air motor and servo motor are optional. It can machining standard FF and RF flange facing, RTJ and other V grooves, welding reparations, etc. The FI1000 Flange Facer are suitable for the oil and gas industry, power plants, chemical plants, offshore and many others.

Features

- High precision NSK bearings and V linear guide make the machine precise and robust
- Modular designed, compact and portable
- ID Mounted and operates in any direction
- Light weight & Rigidity body 7075 Alu
- Suitable for various flange type: flat face, raise face, ring type joints(RTJ), Tongue & groove, compact flanges
- MODEC air motor and Panasonic electric servo motor drive for option
- 6 continuous groove facing feeds for a gramophone finish (ASME Standard)
- 3 different sized quick set independent bases for improved on-site operation
- 360° swivel tool post for groove details
- Steel case package, easy to storage and move

Specifications

Model	FI1000P	FI1000E
Driven	Pneumatic	Electric - Servo
Motor	MODEC Air Motor	Panasonic Servo Motor
Power Supply	1.8m ³ /min (65CFM)@0.6Mpa (90psi)	220-240V 1PH 50/60HZ
Motor Power	2.3HP	1500W
Min. Facing Dia.	153mm /6"	
Max. Facing Dia.	1000mm / 40"	
Min. Clamping Dia.	145mm / 5.71"	
Max. Clamping Dia.	910mm /35.82"	
Tool Post Travel	102mm /4"	
No. of Feed Settings	6	
Max. R.P.M	33	40
Machine Weight	68 Kgs (W/o base)	75 Kgs (W/o base)
Shipping Weight	330 Kgs	350 Kgs
Package	Steel Case	Steel Case
Shipping Dimensions	1250*650*610mm	1250*650*780mm

Facing Feed Rates & Grooves per Inch

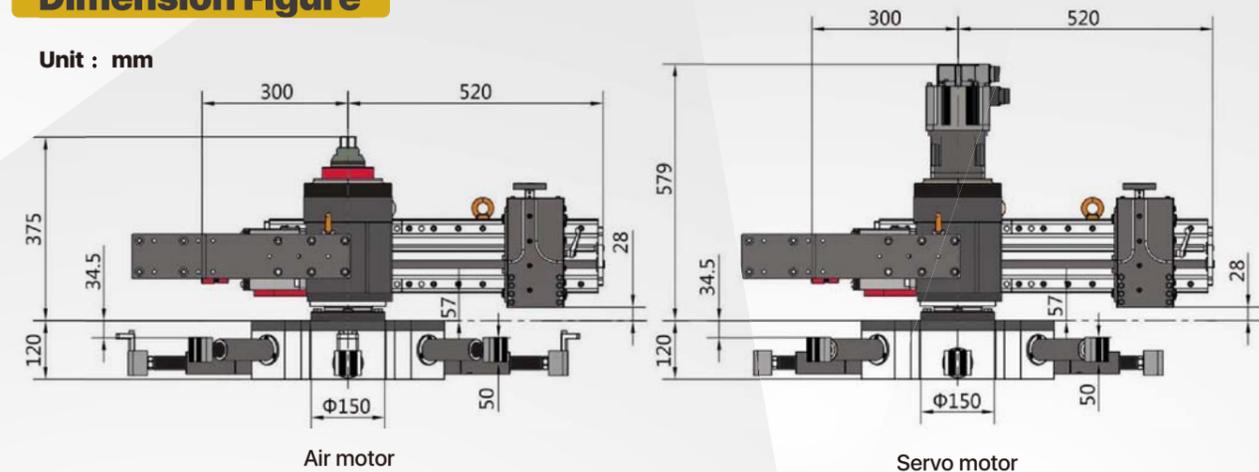
Direction	Gear	mm/rev.	Inches/rev.	Grooves/Inch
In	1	0.1428	0.0056	178
In	2	0.2298	0.0090	111
In	3	0.4959	0.0195	51
Out	1	0.1055	0.0042	241
Out	2	0.1698	0.0067	150
Out	3	0.3664	0.0144	69

Boring Feed Rates

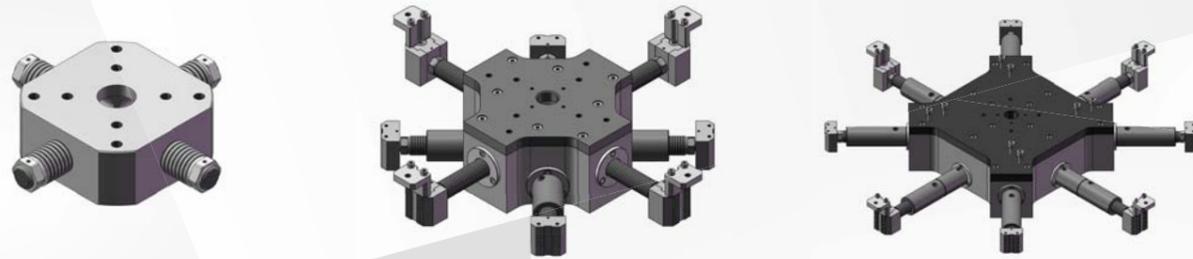
3 off up/down	Gear	mm/rev.	Inches/rev.
In	1	0.0397	0.0016
In	2	0.0638	0.0025
In	3	0.1377	0.0054
Out	1	0.0293	0.0012
Out	2	0.0472	0.0019
Out	3	0.1018	0.0040

Dimension Figure

Unit : mm



3 sized quick set independent bases for improved on-site operation
View of the 3 bases assemblies provided

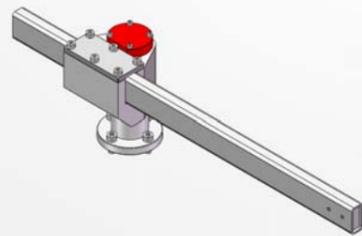


Standard Supply

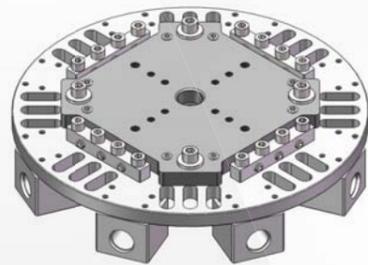
Main Body-c/w Motor	Full set Clamping Screws
S- Base	Full set extensions
M-Base	Full set hand tool
L-Base	Air motor lubricating oil
Tool Post	Air Filter Lubricator-SMC
Extension Tool holder	Hose connection
Cutting tips - 5 pcs	Dia Gauge
Counterweight	Storage / Shipping case-steel
Counterweight plate	Manual
Extension nut	



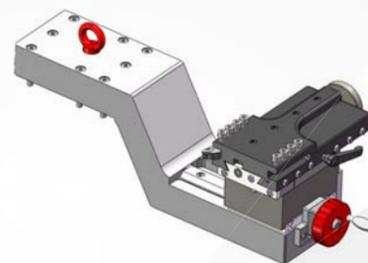
Heat Exchanger Accessories



Turing Tool

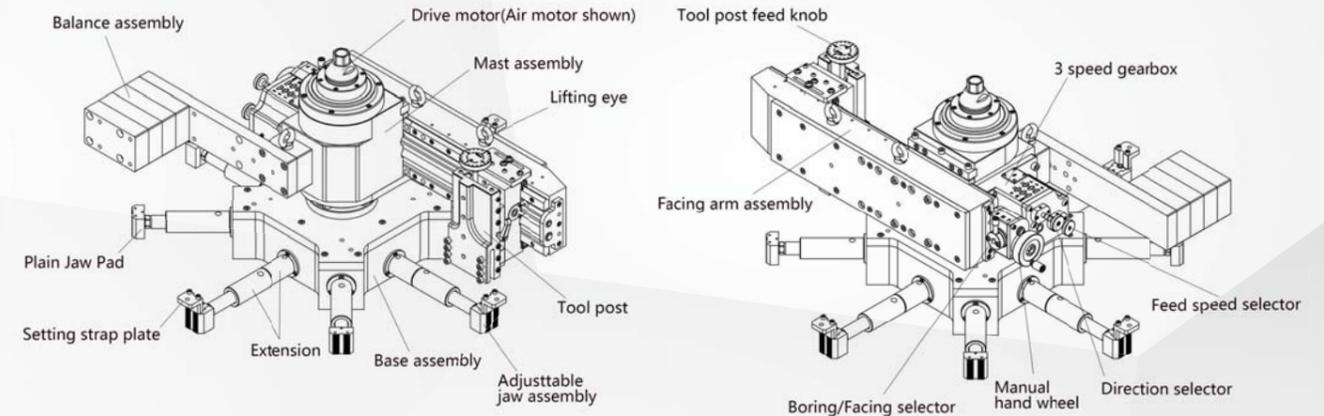


Mounting Plate



Back facing tool holder

Configuration



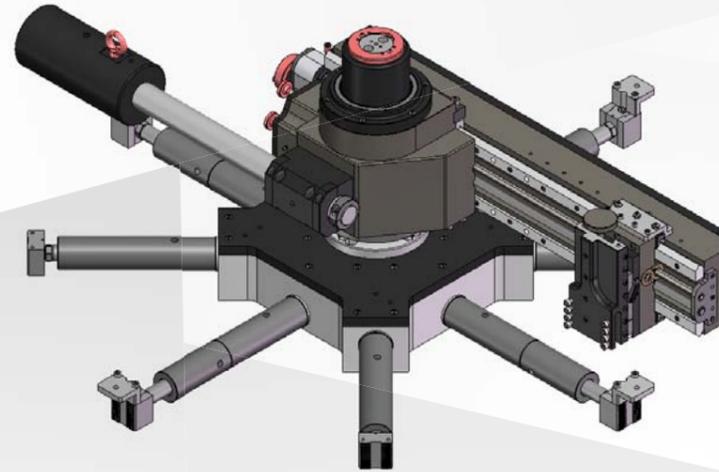
Application



FI1500 Flange Facing Machine

320-1500mm(12.6"-60")

YouTube



FI1500 is an ID mounted and robust flange facing machine capable of producing 6 different continuous groove gramophone finishes to ASME Standard. It has a working range of 320mm (12.6") to 1500mm (60"). The mounting bases come in three sizes and have micro-adjustable jaws to help quickly align the base during set-up. Air motor and servo motor are optional. It can machining standard FF and RF flange facing, RTJ and other V grooves, welding reparations, etc. The FI1500 Flange Facer are suitable for the oil and gas industry, power plants, chemical plants, offshore and many others.

Features

- Modular designed, compact and portable
- High precision NSK bearings and V linear guide make the machine precise and robust
- ID Mounted and operates in any direction
- Light weight & Rigidity body 7075 Alu
- Suitable for various flange type: flat face, raise face, ring type joints(RTJ), Tongue & groove, compact flanges
- MODEC air motor and Panasonic electric servo motor drive for option
- 6 continuous groove facing feeds for a gramophone finish (ASME Standard)
- 6 boring auto-feed setting
- 3 different sized quick set independent bases for improved on-site operation
- 360° swivel tool post for groove details
- Steel case package, easy to storage and move

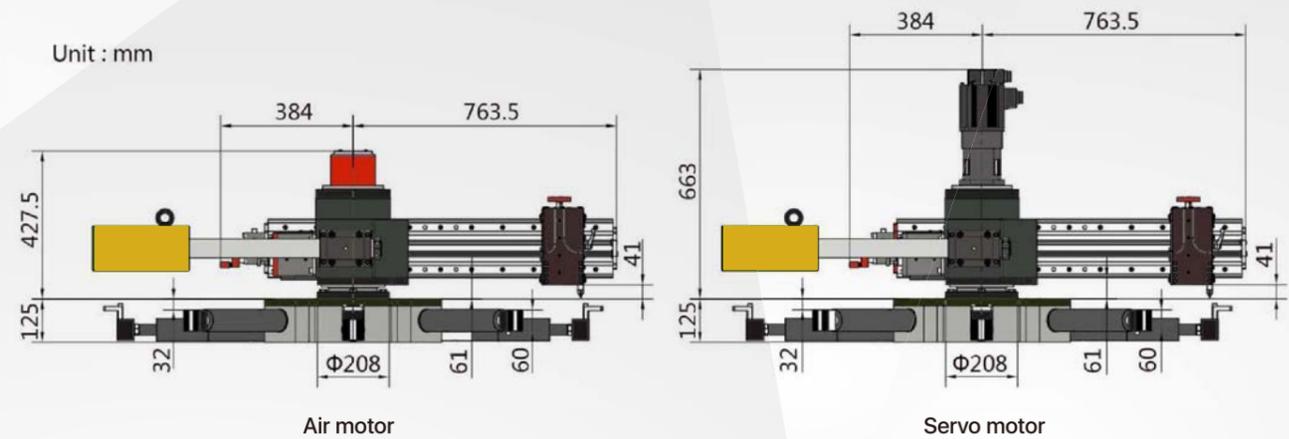
Specifications

Model	FI1500P	FI1500E
Driven	Pneumatic	Electric - Servo
Motor	MODEC Air Motor	Panasonic Servo Motor
Power Supply	3m ³ /min (105CFM)@0.6Mpa (90psi)	380-415V 3PH 50/60HZ
Motor Power	4 HP	3000 W
Min. Facing Dia.	320mm /12.6"	
Max. Facing Dia.	1500mm / 60"	
Min. Clamping Dia.	290mm / 11.4"	
Max. Clamping Dia.	1450mm /57"	
Tool Post Travel	102mm /4"	
No. of Feed Settings	6	
Max. R.P.M	39	42
Machine Weight	220 Kgs (W/o base)	230 Kgs (W/o base)
Shipping Weight	660 Kgs	699 Kgs
Package	Steel Case	Steel Case
Shipping Dimensions	1480*725*900mm	1480*725*1060mm

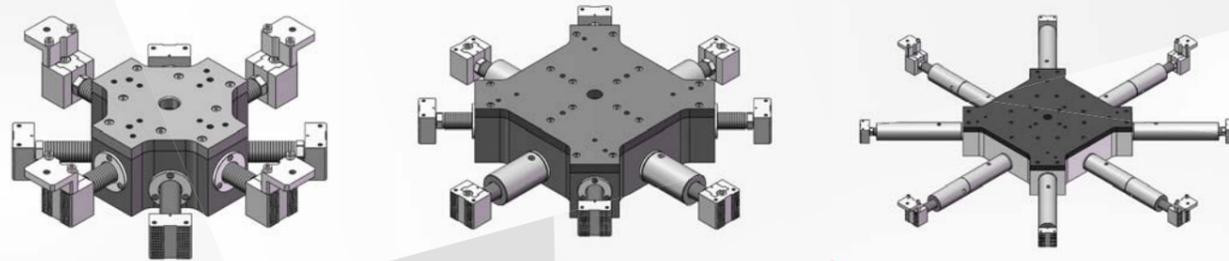
Facing Feed Rates & Grooves per Inch				
Direction	Gear	mm/rev.	Inches/rev.	Grooves/Inch
In	1	0.1935	0.0076	131
In	2	0.3113	0.0123	82
In	3	0.6718	0.0264	38
Out	1	0.1430	0.0056	178
Out	2	0.2300	0.0091	110
Out	3	0.4964	0.0195	51

Boring Feed Rates			
3 off up/down	Gear	mm/rev.	Inches/rev.
In	1	0.0538	0.0021
In	2	0.0865	0.0034
In	3	0.1866	0.0073
Out	1	0.0397	0.0016
Out	2	0.0639	0.0025
Out	3	0.1379	0.0054

Dimension Figure



3 sized quick set independent bases for improved on-site operation
View of the 3 bases assemblies provided

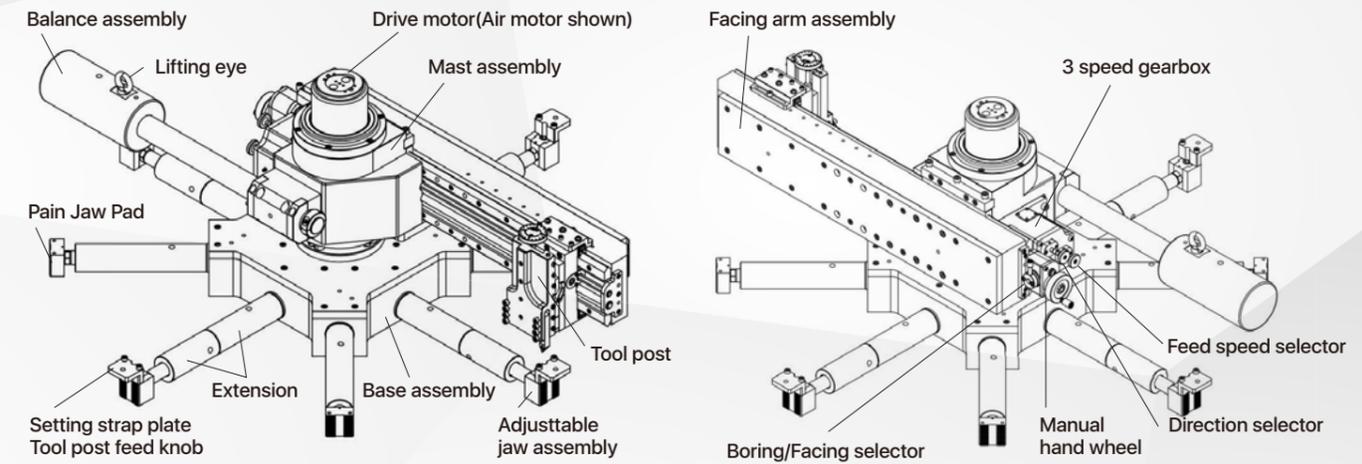


Standard Supply

Main Body-c/w Motor	Full set Clamping Screws
S- Base	Full set extensions
M-Base	Full set hand tool
L-Base	Air motor lubricating oil
Tool Post	Air Filter Lubricator-SMC
Extension Tool holder	Hose connection
Cutting tips - 5 pcs	Dia Gauge
Counterweight	Storage / Shipping case
Counterweight plate	Manual
Extension nut	



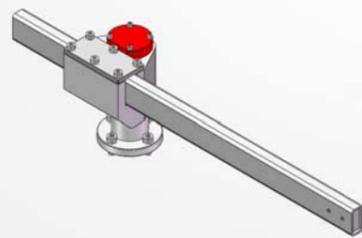
Configuration



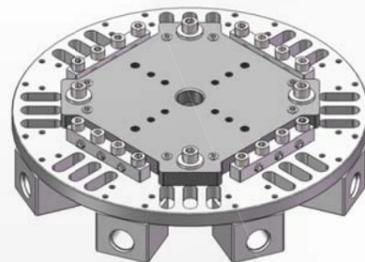
Application



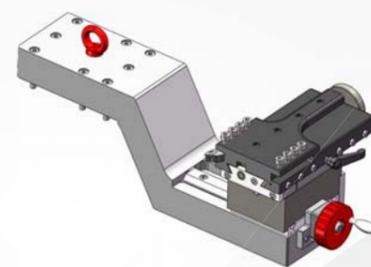
Heat Exchanger Accessories



Turing Tool



Mounting Plate

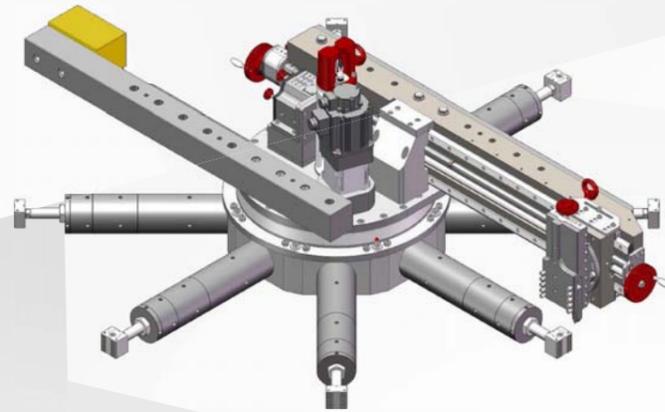


Back facing tool holder

FI2000 Flange Facing Machine

670mm-2032mm(26.34"-80")

YouTube



FI2000 Flange Facing Machine adopts the disk type 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 seismic 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 minutes. ID-mounted, this machine has a working range of 670mm (26.38") to 2032mm (80") and features 6 continuous feed rates. The mounting bases come in three sizes and have micro-adjustable jaws to help quickly align the base during set-up. Air motor and servo motor are optional. It can machining standard FF and RF flange facing, RTJ and other V grooves, welding repairs, etc. The FI2000 Flange Facer 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 standards.

Features

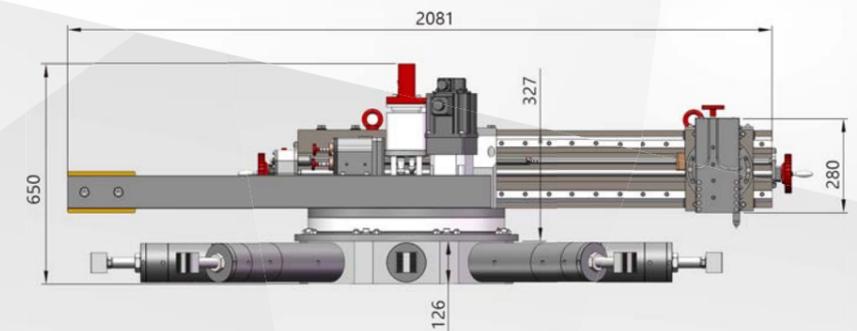
- Tool arm is made of 7075 aluminum alloy to ensure strength and lightweight equipment
- High precision preloaded disc type rotary bearing and V-shaped guide rail are adopted to ensure equipment accuracy and stability
- Modular design makes on-site installation safe and labor-saving
- ID Mounted and operates in any direction
- Suitable for various flange type: flat face, raise face, ring type joints(RTJ), Tongue & groove, compact flanges
- MODEC air motor and Panasonic electric servo motor drive for option
- 6 continuous groove facing feeds for a gramophone finish (ASME Standard)
- 6 boring auto-feed setting
- 3 different sized quick set independent bases for improved on-site operation
- 360° swivel tool post for groove details
- Steel case package, easy to storage and move

Specifications

Model	FI2000P	FI2000E
Driven	Pneumatic	Electric - Servo
Motor	MODEC Air Motor	Panasonic Servo Motor
Power Supply	3m ³ /min (105CFM)@0.6Mpa (90psi)	380-415V 3PH 50/60HZ
Motor Power	4 HP	3000 W
Min. Facing Dia.	670mm / 26.34"	
Max. Facing Dia.	2032mm / 80"	
Min. Clamping Dia.	790mm / 31.1"	
Max. Clamping Dia.	1900mm / 74.80"	
Tool Post Travel	102mm / 4"	
No. of Feed Settings	6	
Min. Swing Diameter	1815mm / 71.46"	
Max. Swing Diameter	2432mm / 95.75"	
Max. R.P.M	12	15
Machine Weight	800 Kgs (W/o base)	825 Kgs (W/o base)
Shipping Weight	1050 Kgs	1075 Kgs
Package	Steel Case	Steel Case
Shipping Dimensions	2020*810*870mm	2020*810*870mm

Dimension Figure

Unit : mm



Pictures



FM-CNC8000 Flange Milling Machine

YouTube



Three-axis linkage Ultra-high precision

Some large hydropower project, the nuclear power project, oil engineering and offshore engineering projects always require large structure welding assembly on site, because the welding deformation will directly affect the fit precision of key parts. This FM-CNC8000 is customized by CFHI for the large flange plane milling at the scene. The equipment using three axis CNC system control, hydraulic drive main shaft, can complete the plane milling, seal groove processing, counterboring, etc

Features

- Adopt modular design, support legs and tool arm detachable, convenient storage and transportation, can be quickly assembled on site
- High precision preloading bearing, high rotation precision, ensure smooth processing process
- The chassis and support legs are equipped with radial and axial fine-tuning functions for accurate correction
- Can be installed horizontally, vertically and upside-down.
- Has mechanical and electrical safety locking function and is suitable for a variety of working conditions
- With the function of plane milling, counterboring, convex processing and seal groove machining
- Three-axis CNC feed system, can realize programming linkage, can accurately control the feed, precision 0.005mm
- The milling spindle is hydraulically driven and can work continuously for days
- Hydraulic station remote control and CNC panel control, more flexible and reliable

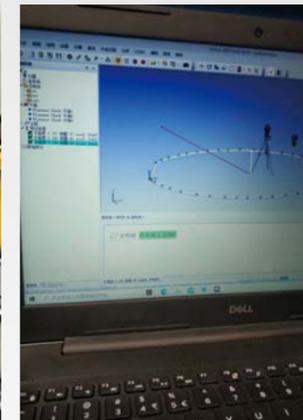
Specifications

Model	FM-CNC8000
Fixed Type	ID Mounted
Clamping Range	Dia. 3800-7800mm
Working Range	Dia. 4000-8000mm
X-axis Rotation Speed	RPM 0-1, Stepless
X-axis Rotation Power	3.0Kw Servo Motor
X-axis Feed	Automatically & Manually, CNC System
Y-axis Travel Stroke	550mm
Y-axis Feed	Automatically & Manually, CNC System, Can be fixed
Z-axis Travel Stroke	Single position: 220mm
Z-axis Rotation Power	1.0Kw
Z-axis Feed	Automatically & Manually, CNC System, Can be fixed
Hydraulic Station Power	11.0Kw
Cutter Dia.	200mm
Milling Depth	1mm
Repeated Positioning Accuracy	Y-axis $\leq 0.01\text{mm}$
	Z-axis $\leq 0.01\text{mm}$
Machining Linear Speed	500mm/Min
Roughness	Ra1.2
Flatness	Dia. 4000mm, 0.05mm
	Dia. 6000mm, 0.08mm

Machining Results- By API Laser tracker



Measured at 30 locations



Flatness: 0.08mm



Cylindrical Roughness: Ra1.4



Plane Roughness: Ra1.1

Nuclear Project Site - South-East China

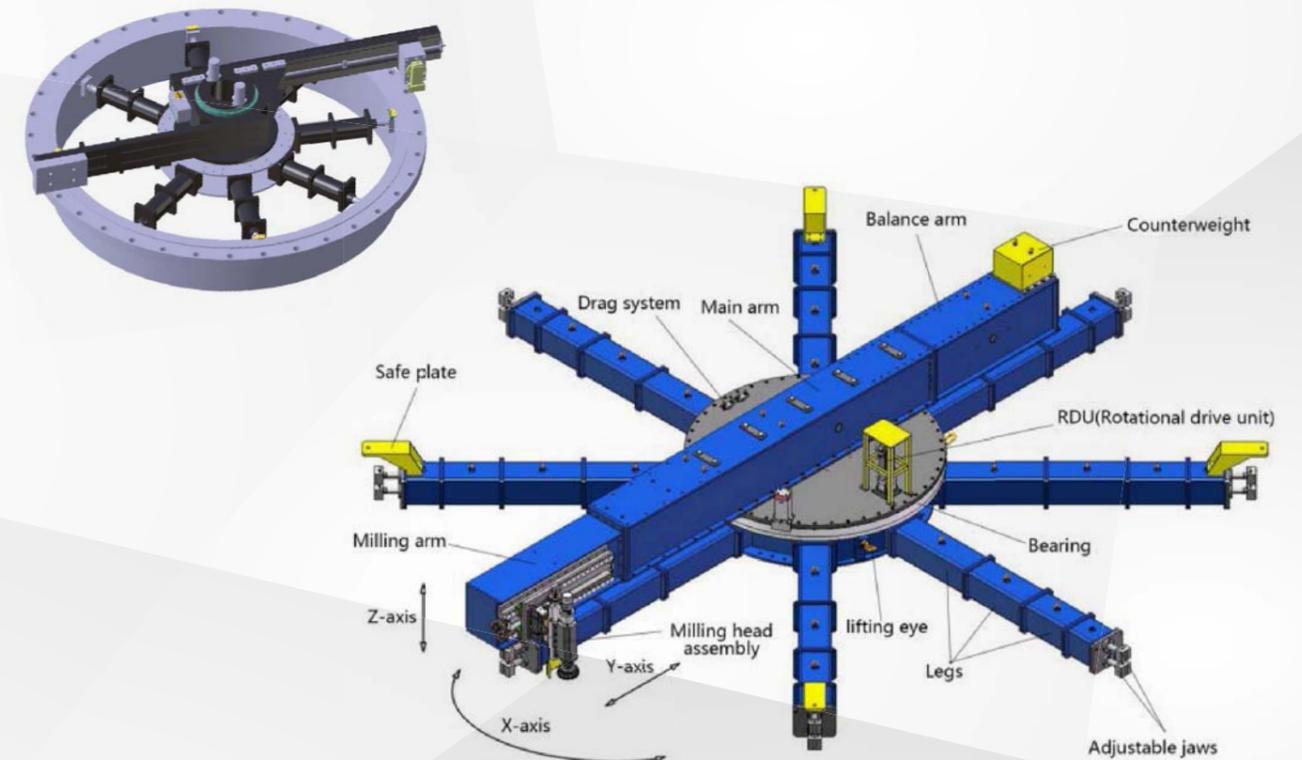


6M Circular milling machine for a Shipyard



Customize flange milling machine

Large size flange facing machines are not prepared for inventory as standard models. Nodha accepts size customization, such as 3-10 meters or larger flange circular milling machines.



Order Guide

Before you enquiry, please arrange the below information we need:

What's your application, is there any special conditions in the working area?

Please provide the drawing and pictures of the workpiece

What's the machining range expect?

What's the clamping range expect?

What's the flange material?

The driven type you want, hydraulic or electric servo motor

Surface finish requirements, roughness, flatness?

What's the expected delivery time?

Any other requirement?

Once we get the information above, Nodha will evaluate if can supply or not.

Flange Tools

Flange Spreader / Flange Alignment / Nut Splitter



Hydraulic Flange Spreaders

The FSM8 Manual Flange Spreader is mechanically operated using a ratchet mechanism. It fits into very small clearance gaps of 0.24 inch (6 mm). It adopts a friction-free, smooth, parallel wedge movement to prevent flange damage and spreading arm failure.

The FSH14 Flange Spreader complete with its pump offers a convenient solution capable of exerting up to 14 tons of force (118 kN). The all-in-one design eliminates the need for a separate pump and a trailing hydraulic hose - ideal for safer working in difficult spaces at remote locations.



FSH-14H

STF-14H

Model No.	Max.spreading force(ton)	Tip clearance (mm)	Max. spread (mm)	Type	Oil capacity (cm ³)	Weight (kg)
FSM-8	8	6	81	Mechanical	-	6.5
FSH-14	14	6	81	Hydraulic	78	9.3
STF-14H	14	6	81	Hydraulic	78	16
FSH-14H	28	6	81	Hydraulic	156	38

Features

Integrated wedge concept: friction-free, smooth, parallel wedge movement eliminates flange damage and spreading arm failure

Unique interlocking wedge design: no first step bending and risk of slipping out of joint

Requires very small access gap of only 0.24 inch (6 mm)

Few moving parts means durability and low maintenance

FSH-14 is available as bolting tool-pump set for your ordering with spreader, hand pump, hose, gauge and adaptor

Hydraulic Flange Spreaders



Features

Practical and lightweight, the rotating handle helps to expand horizontally or vertically

The maintenance is convenient, and the built-in cutter head and wedge shell can be quickly disassembled and assembled

Molded plastic handle for comfort

Revolving handle to aid horizontal or vertical spreading

Removable handle for improved access

No finger pinch-points

Increased step depth on upper steps

Forged key components for strength and reliability

Narrow jaw teeth - improved tool wear

Specifications

Model No.	Max.spreading force(ton)	Tip clearance (mm)	Max. spread (mm)	Type	Oil capacity (cm ³)	Weight (kg)
FSW5TE	7.7	4	101	Hydraulic	70	6
FSW5TI	7.7	4	101	Integral Hydraulic	-	8
FSW14TM	14	6	103.5	Mechanical	-	11
FSH-15	15	6	81	Integral Hydraulic	-	11
FSW25TI	24	6	103.5	Integral Hydraulic	-	13
FSW25TE	24	6	103.5	Hydraulic	250	10

FSW5TI



FSH-15



FSW25TE



FSW25TI



FSW25TE



FSW5TE



Collet Style Flange Spreaders



Features

- Suitable for pipeline maintenance, repair, testing and flange replacement
- Applications without causing flange damage
- Compared with other flange separators, it can separate flanges with zero clearance
- Clearance and has a larger output option (up to 25t)
- Short Collet Holder Sets (SCH) are available which can offer improved range of application
- Collet Holders can also be dismantled and inserted through bolt-holes from opposite side

Specifications

Model No.	Max.spreading force(ton)	Max. spread (mm)	Tip clearance (mm)	Type	Usable on Flanges Specified to Accept the Following Bolt Sizes	Oil capacity (cm ³)	Weight (kg)
FSG4TM	4	75	0	Mechanical	M16 (5/8"), M20(3/4")	-	12.8
FSG6TM	6	80	0	Mechanical	M24(7/8"), M27(1")	-	16
FSG11TM	11	90	0	Mechanical	M30(1 1/8"), M33(1 1/4"), M36(1 3/8")	-	20
FSG13TE	13	115	0	Hydraulic	M39(1 1/2"), M42(1 5/8"), M45(1 3/4")	300	40.5
FSG15TE	15	100	0	Hydraulic	M48(1 7/8"), M52(2"), M56(2 1/4")	400	45
FSG18TE	18	100	0	Hydraulic	M60(2 3/8"), M64(2 1/2"), M70 (2 3/4")	400	45
FSG25TE	25	120	0	Hydraulic	M76(3"), M80(3 1/4"), M84(3 3/8"), M90(3 1/2"), M95(3 3/4"), M100 (4")	500	50

Hydraulic Fixed Flange Alignment Tool

The Flange Alignment tools can be used to align or re-align flange joints during pipework construction commissioning or during routine maintenance. The tool is attached to the flange joint where misalignment is at its greatest and then simply push and pull the flanges into correct alignment(except FA-9TE).



Features

- The Flange Alignment tools rectify twist and rotational misalignment quickly, safely and without the need for an external power source
- Appropriate for use on most ANSI, API, BS and DIN flanges
- No slings, hooks or lifting gear required
- Can be installed and used in any position (horizontally or vertically)
- Portable, lightweight design enables easy transport and use,even in remote locations

Specifications

Model No.	Align Load ton(KN)	Min.Bolt Size (in/mm)	Flange Thickness (in/mm)	Weight (kg)
FA-1TM	10/1	0.63/16	0.55-3.29/14-82	2.0
FA-4TM	40/4	0.95/24	1.18-5.32/30-133	8.6
FA-9TM	90/10	1.24/31.5	3.66-9.00/93-228	16.5
FA-9TE	90/10	1.24/31.5	3.66-9.00/93-228	16.5

Hydraulic Nut Splitters (Single blade)

Specially designed "tool steel" cutter blade penetrates the nut to the precise point where it cracks, stopping short of the bolt threads. Applications include servicing trucks, piping industry, tank cleaning, petrochemical, steel constructions and mining. Heavy-duty chisels can be reground. Sing-acting, spring return cylinder.

Unique angled head allows flush access. Compact and ergonomic design, easy to use.



Features

Compact design, easy to use

Seven models of nut splitter to choose from

Unique angled head design for a variety of applications

Single action cylinder with hydraulic advance with spring-return

Specifications

Single blade type

Model No.	Hexagon nut range	Capacity (T)	Bolt range	Weight (kg)
NC-1019	10-19	5	M6-12	0.8
NC-1924	19-24	10	M12-16	2
NC-2432	24-32	15	M16-22	3
NC-3241	32-41	20	M22-27	6.3
NC-4150	41-50	35	M27-33	8.6
NC-5060	50-60	50	M33-39	11.8
NC-6075	60-75	90	M39-48	34.1

Caution :Only suitable for ≤ grade 8 nuts, splitting of stainless, square, and / or star nuts are prohibited. Nut hardness must not exceed HRC-44.

NS Hydraulic Nut Splitter

NS-Series Cutting Head apply to split nuts used on BS/ANSI flanges in the oil and gas industry.

The range includes both single-acting configurations and double-acting models ideal for subsea use.

Three direction blade design, radial cutter supply nut more application, firm handle for convenience operation.



Features

Purpose-designed to fit standard BS/ANSI flanges

Blade positioning scale to eliminate bolt damage

Adjustable cutting depth

Ergonomically designed and positioned handle

Interchangeable power heads with cutting blade

Single-acting spring return power head (NSPH)

Double-acting power head (NSPH-D) for subsea operation

Also recommended for larger nut splitting applications over 3" (75mm) AF in other industries

Nut splitters include spare chisel, spare set screw and wrench used to secure the chisel

Maximum allowable hardness to split is 44HRC. Not to be used on square nuts or stainless steel

Specifications

Model No.	Hexagon nut range	Capacity (T)	Bolt range	Weight (kg)
NS-3041	30-41	35	M20-M27	6.7
NS-3050	30-50	35	M20-M30	6.9
NS-4660	46-60	65	M30-M39	16
NS-4670	46-70	65	M30-M45	16
NS-7080	70-80	103.2	M45-M52	42
NS-7085	70-85	103.2	M45-M56	43
NS-7095	70-95	103.2	M45-M64	44
NS-70100	70-100	103.2	M45-M70	44
NS-110115	110-115	192.5	M76-M80	70
NS-110130	110-130	192.5	M76-M90	82



Light Weight Hand Pump

NODHA lightweight hydraulic hand pumps are a convenient alternative to heavier steel pumps without any sacrifice in performance or safety. Each model is rated up to 10,000 psi (700 bar).

The durable glass-filled nylon reservoir and nylon encapsulated aluminum pump base offers an unrivalled combination of strength, weight, and resistance to corrosion.

Lightweight single-speed hydraulic hand pumps offer the simplicity needed for a wide range of industrial applications. The 2-stage hydraulic models reduce the number of handle strokes by as much as 78% compared to a single speed pump. This is ideal when you want to advance a tool such as a cylinder to the point of load contact. High flow is delivered when it's needed most before the pump automatically switches to the low flow high-pressure stage.



Features

Light weight and compact design

Durable glass-filled nylon reservoir and nylon encapsulated aluminum pump base for maximum corrosion resistance

Two-speed operation reduces handle strokes by as much as 78% over single speed pumps

Lower handle effort to minimize operator fatigue

Handle lock and lightweight construction for easy carrying

Large oil capacities to power a wide range of cylinders or tools

Non-conductive fiberglass handle for operator safety

Internal pressure relief valve for overload protection

Specifications

Model No.	Usable Oil Capacity	Pump Type	Pressure Rating		Oil Displacement Per Stroke		Handle Effort	Piston Stroke	Weight (kg)
			LP	HP	LP	HP			
P142	327	Two-Speed	13	700	3.62	0.9	35.4	12.7	2.4
P392	901	Two-Speed	14	700	11.26	2.47	42	25.4	4.1

Hand Pump

Hand Pumps are durable, portable, and highly efficient.

2 stage pumps, which reduces the number of handle strokes by as much as 78% compared to a single speed pump. This is ideal for applications when high flow is needed at the first stage, (such as when advancing a cylinder to the point of load contact). The pump switches automatically to the second stage which is the low flow high-pressure stage.



Features

Two Speed operation for less operator fatigue Internal pressure relief valves for overload protection

There are lightweight aluminum hand pumps to choose from Max.Pressure: 70Mpa

Specifications

Model No.	Usable Oil Capacity	Pump Type	Pressure Rating		Oil Displacement Per Stroke		Handle Effort	Piston Stroke	Weight (kg)
			LP	HP	LP	HP			
P77	770	Two-Speed	14	700	16	2.41	43	25.4	11
P80	2200	Two-Speed	25	700	16.22	2.46	47	25.4	15
P801	4080	Two-Speed	25	700	16.22	2.46	47	25.4	20

Hydraulic Sealed Hand Pump

Designed for hazard reduction, safety and ease of use in mind. It can be used to operate any 10,000 psi (700 bar) rated hydraulic equipment and can be used in any orientation.

There are single-Port, single-acting, double-Port and double-acting multiple operating modes and hydraulic oil capacities to choose.



Specifications

Model No.	Usable Oil capacity (cm³)	Pump Type	Pressure Rating (Bar)		Oil Displacement Per Stroke		Handle Effort	Piston Stroke	Weight (kg)
			LP	HP	LP	HP			
HP350S	350	Two-Speed, Single Port	13.8	700	3.62	0.77	33	18	15.5
HP350D	350	Two-Speed, Twin Port	13.8	700	3.62	0.77	33	18	8
HP550S	550	Two-Speed, Single Port	13.8	700	3.62	0.77	25	18	6.5
HP550D	550	Two-Speed, Twin Port	13.8	700	3.62	0.77	25	18	8.5