

NARROW BODY FLANGE FACER



NBFF **NBFF** **NBFF**
300 **160** **115**



NBFF – NARROW BODY FLANGE FACER*

*Patent pending

NBFF – the flange facing machine with a slim line gantry profile for mounting in tight spaces. An operator can mount NBFF tool on-site within demanding conditions such as flanges close to walls or pipe racks.

The unique design of NBFF allows the operator to mount the machine and perform a repair in locations that popular, standard equipment could not fit. The machine conforms to all the necessary standards and is extremely easy to use. Light and robust to quickly mount and repair damaged faces on flanges. NBFF can maximize production and uptime in all flange management jobs.

SUPER NARROW BODY

Thanks to unique, a true narrow design NBFF tool is fully usable within demanding conditions such as flanges close to walls or pipe racks.



MODEL	FACING RANGE	CLAMPING RANGE	MAX SWING DIAMETER	TOOL POST TRAVEL		FEED RATES	FREE SPEED	POWER		
NBFF-115	0 – 125 mm	89 - 170 mm	125 mm	62,5 mm		See table below	100 Rpm	1,3 Hp		
	0 - 4,92"	3,5 – 6,6"	4,92"	2,45"				0,97 kW		
	AIR USE		WIDTH		HEIGHT		LENGTH		BODY WEIGHT	
	55 cfm	1,3 m³/min	65/100 mm	2,55"/3,93"	460 mm	18,11"	260 mm	10,23"	25 kg	55,11 Lbs

MODEL	FACING RANGE	CLAMPING RANGE	MAX SWING DIAMETER	TOOL POST TRAVEL	FEED RATES	FREE SPEED	POWER			
NBFF-160	0 - 185 mm	89 - 280 mm	185 mm	92,5 mm	See table below	115 Rpm	2,2 Hp			
	0 - 7,27"	3,5 - 11"	7,27"	3,6"			1,6 kW			
	AIR USE		WIDTH		HEIGHT		LENGTH		BODY WEIGHT	
	75 cfm	2,2 m³/min	70/100 mm	2,75"/3,93"	510 mm	20,07"	340 mm	13,38"	27 kg	59,52 Lbs

MODEL	FACING RANGE	CLAMPING RANGE	MAX SWING DIAMETER	TOOL POST TRAVEL	FEED RATES	FREE SPEED	POWER			
NBFF-300	0 - 310 mm	108 - 356 mm	310 mm	155 mm	See table below	85 Rpm	2,2 Hp			
	0 - 12,2"	4,25 - 14"	12,2"	6,1"			1,6 kW			
	AIR USE		WIDTH		HEIGHT		LENGTH		BODY WEIGHT	
	75 cfm	2,2 m³/min	70/100 mm	2,75"/3,93"	510 mm	20,07"	470 mm	18,50	32 kg	70,54 Lbs

CHOICE OF THREE

All versions of NBFF deliver the same advantage over standard flange facers: despite working size all are narrow and fit perfectly in tight spaces.

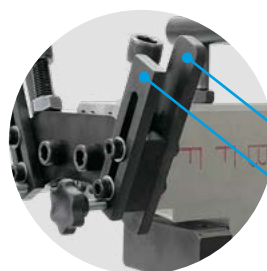
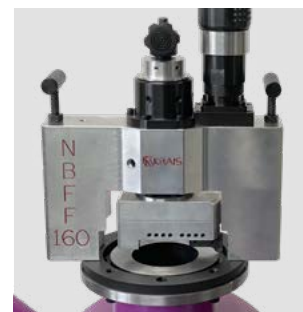
**FEED RATES**

Feed rates pitch mm			
0,5	0,75	1*	1,25
Grooves per inch			
112	75	56	45

* standard feed screw supplied with machine

STANDARD LOCKING SYSTEM

The standard locking system consists of two jaws. One of them is a stabilizing jaw with two adjustable screws to fit the outer diameter of the flange. The second jaw has three clamping screws. Both jaws are equipped with pair top pads for levelling on the sealing surface of the flange. Pads at the bottom, are for tension the machine to the flange surface. Pads help to fix the machine in any position and protect it from falling out of the flange in case of a collision.

**FLANGE2FLANGE LOCKING OPTION**

Additional, special flange type locking system is made to suit the application more. NBFF machine is still mounted on the flange outside diameter, but the locking system is equipped with additional studs to be mounted in the flange holes to provide easy operation and perfect centring.

Top pads are for levelling on the sealing surface of the flange.

Pads at the bottom, are for tension the machine to the flange surface and protect it from falling out of the flange in case of a collision.

AVAILABLE PNEUMATIC MOTORS

All three options: NBFF 115, 160 and 300 comes with well suited drive. But for best specialists and demanding tasks we offer a bunch of alternative drives.

B50-100X



HM-xxx



K7x-LT-xxx



MOTOR	RIGHT-ANGLE	SPEED RPM	POWER HP	TORQUE NM	AIR CONSUMPTION		AIR PRESSURE	
					LT/MIN	CFM	BAR	PSI
B50-100X	-	200	1,3	70	1300	55	6,2	90
HM-198	-	198	2,2	186	2200	75	6,2	90
HM-252	-	252	2,2	150	2200	75	6,2	90
HM-379	-	379	2,2	105	2200	75	6,2	90
HM-498	-	498	2,2	83	2200	75	6,2	90
K72-LT-90	YES	90	2,2	405	2200	75	6,2	90
K73-LT-190	YES	190	2,2	200	2200	75	6,2	90

NBFF IN ACTION**NBFF-E**

NBFF-E is electric version of NBFF. A standard machine covers the same flange sizes and comes with the same cutting head.

The electric motor, made by Makita with 3 stage planetary gear box made by KRAIS has variable speed control and produce enormous torque. Is interchangeable with pneumatic drive and can be purchased separately at any time.

Free Speed ... 115 RPM
Power 750 W
Torque 360 Nm (266 Ft.Lbs)

**BATTERY OPTION**

The machine is also available with a portable electric drive 18 Volt 5.2 Ah 93.6 Wh Li-Ion battery. The machine can operate up to 15-20 minutes on one battery. Machining itself of one flange takes about 3-4 minutes of motor operation, so the operating time on one battery may suffice on 3-4 flanges.

It is possible to have many charged batteries. Comfortable and easy to use in any place where compressed air and electricity is not available or even impossible to use as for example oil refinery.



OTHER BEVELING TOOLS

SFFM FLANGE FACER



SFFM series Flange Facing Machines are mounted on the outer diameter of the flange. The precise, synchronized radial and axial feed mechanism allows for a high quality machining, resulting in one continuous groove producing a true gramophone finish. SFFM Flange Facing Machines are suitable for various flange types: flat face; raised face; ring type joints (RTJ); tongue & groove; lens ring; Grayloc® (hub profile); compact flanges. SFFM Flange Facers 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.



CUTTING GROOVES

The machine offers a simple way of execution of the RTJ grooves by using the single point swivel head or formed tools



GRAMOPHONE GROOVE

The design of the feed attachment assures the automatic and variable feed rate on radial axe producing proper gramophone groove.

OMFM – OUTSIDE MOUNT MANUAL FLANGE MILL

OMFM is the first in the world, uncomplicated and cost-effective outside mounted manual flange facing tool for machining flanges with diameter from 0 to 150 mm. Gives a quick and easy way to re-machine a damaged sealing surface in the pipe flanges on site. Outside Mounted Manual Flange Mill size and body are designed and built to allow quick and convenient processing of very small flanges in awkward or dangerous locations, where the inside mounted flange facers are impossible to use due to its shaft size.



IMFM-40 INTERNAL MOUNTED FLANGEMILL

Internally mounted, lightweight and durable machine tool. Ideal for machining all types of flange faces, seal grooves, weld preparations and counterbores.



- » Heavy-duty steel/aluminium design with solid but lightweight construction
- » High rigidity of the machine in relation to the dimension and weight
- » Continuous groove facing feeds
- » Swivel tool post for grooves, RTJ flanges and bevels
- » Easy levelling and centering system with built-in self-centre feature
- » Quick clamping with solid, 50 mm self-centering steel shaft



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