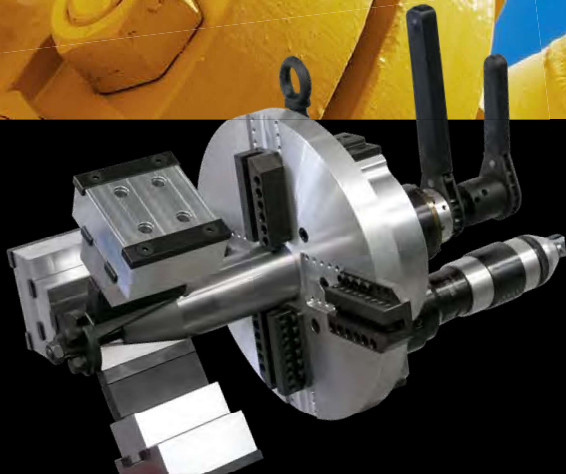
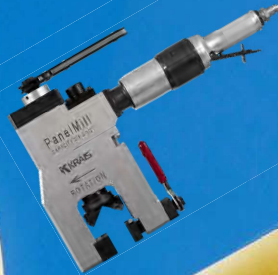
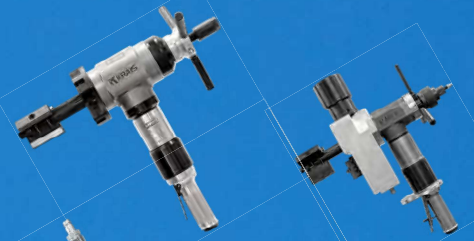
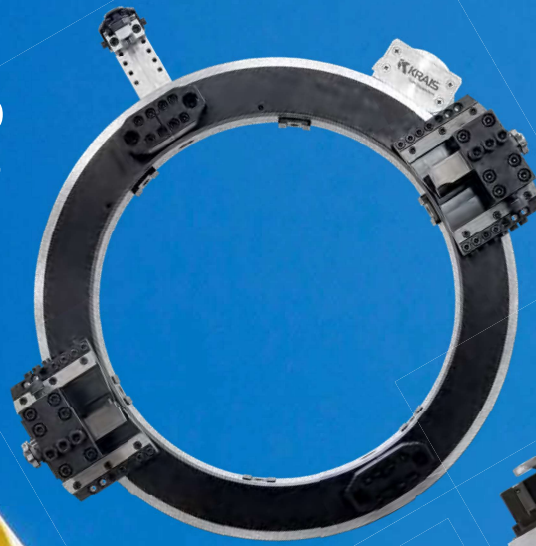




**MADE IN
POLAND**



Tube & Pipe Professional Tools



MMFM – Mini Flange Mill

Compact and light weight flange milling machine – one of the most compact designs on the market today.

- 】 Low clearance.
- 】 Flat and raised face flanges
- 】 Single line, true gramophone groove with 50 grooves per 1" to comply with ASME B46.1 code
- 】 Pneumatic drive 1,3 Hp or 750 W electric with multiple planetary gear box
- 】 Stainless steel body to stiffen the machine base
- 】 Rigid construction aluminium facing head , supported by multiple bearings
- 】 Solid locking mandrel shaft and rigid mounting jaw set
- 】 Hardened and ground tool slides for precision

QUALITY COMPONENTS

- 】 Pneumatic motor comes complete with filter, lubricator and flow control.
- 】 Compact, low-profile drive system engineered for superior power to weight ratio.
- 】 Features rugged main body, heavy-duty bearings, sealed lubrication, and rigid mounting system.



FACING RANGE		RANGE PIPE FACING (SINGLE POINT)		LOCKING RANGE		VERTICAL FEED STROKE		MACHINING FEED RATE		POWER	
37 – 254 mm		51 – 254 mm		26 – 150 mm		13 mm		0,5 mm		1,3 Hp	
1,45 – 10"		2 – 10" OD		1,0 – 5,9"		0,5"		0,019"			
AIR USE		WEIGHT		HEIGHT		LENGTH		SWING DIAMETER			
55 cfm	1,3 m ³ /min	23 Lbs	10,43 kg	19,291"	490 mm	16,338	415 mm	12,204	310 mm		

STANDARD FEED SCREW



Machine comes standard with 50 grooves per inch feed screw and nut. Optional feed screw/ nut are available with 68 and 101 grooves per inch.

CONVENIENT SCALE



Convenient and easy to read gauge in metric and imperial scale allowing adjustment of the working range before mounting on the flange.

BASIC FEATURES



Single line gramophone groove (50 grooves per 1 inch)



Graduation of the tool setting to the desired depth of cut.



Handy depth feed locking system to prevent accidental movement of the handle during flange processing.



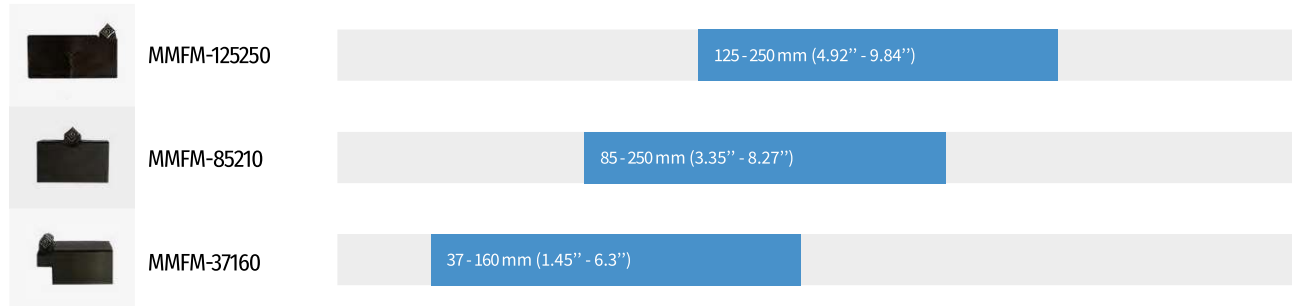
Hand guard to protect against accidental impact of the rotating head.

TOOL HOLDERS RANGES

MMFM is a low clearance flange facing machine. To achieve this multiple tool holders are required to cover full range, below table specifies machining range of each holder.

TOOLING CHART

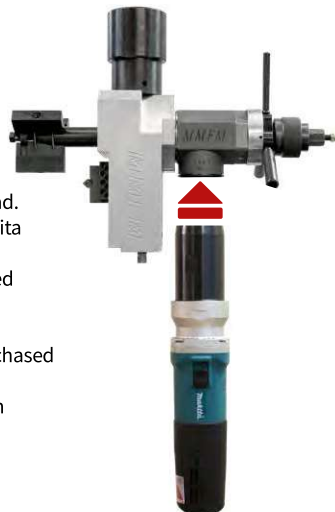
HOLDER	INSERT	SCREW	TORX
MMFM-12520	CI7	MHS-2,7	TX-8
MMFM-85210	CI7	MHS-2,7	TX-8
MMFM-37160	CI7	MHS-2,7	TX-8



MMFM-E

MMFM-E is electric version of MMFM. 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. Also available with battery driven motor!

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-Lon 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.



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 m ³ /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 m ³ /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 m ³ /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

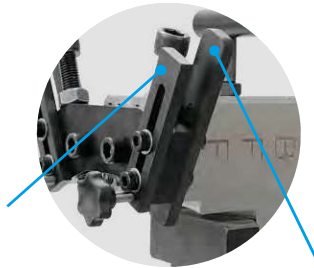
Feed rates pitch mm			
0,5	0,75	1*	1,25
Grooves per inch			
104	69	52	41

* 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.



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.

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

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.

TOOLING CHART

HOLDER	INSERT	SCREW	TORX
NBFF-C17	C17	MHS-2,7	TX-8

REAL LIFE EXAMPLE



Example of really tight flange – NBFF is the only tool suitable here.

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.

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 Power..... 750 W
 Torque 360 Nm (266 Ft.Lbs)



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