

# SmartMill

- › Most powerful machine within this size range on the market today. Utilises a powerful 2.2kW (3 HP) pneumatic motor that is entirely engineered and manufactured by KRAIS. It's a unique design that has been specifically designed for the largest end prep systems.
- › SmartMill comes with one of 3 gearboxes as a standard. No need for extra gearbox that reduces the RPM and multiplies the torque - it comes as standard!
- › Innovative 6 point locking system assures maximum stability during all machining operations.
- › Self-centering 50 mm (1,96") one piece locking shaft with build in jaws.
- › Only one mandrel and 7 Jaw sets needed to cover machines entire range.
- › Wide clamps produce superior clamping force for chatter free end preps.
- › Fully portable for on-site and Fab-shop work.
- › Available for sale or rent.



STANDARD WORKING RANGE*			MOTOR PARAMETERS		
APPLICATION RANGE	LOCKING RANGE (ID)	FEED STROKE	POWER	FREE SPEED	TORQUE
50,0 – 254,0 mm	50,8 – 315,0 mm	50 mm	3,0 Hp	Depends on gear	
2,000 – 10,0"	2,000 – 11,6"	2"			

RECOMMENDED FOR: Pipe facing ■ Pipe bevelling

Air use:	70 cfm	2,2 m <sup>3</sup> /min	Air pressure:	90 PSI	6,2 Bar	Body weight:	27 kg	59,4 Lbs	Body dim.	640*240*205 mm	25*13*12"
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\* other capacity and locking range are available – please consult factory!

## UNIQUE SHAFT DESIGN



50 mm (1,96") shaft, assures rigidity when machining heavy wall pipe.

## POWERFUL MOTOR UNIT



Powerful and efficient drives dedicated for our Lathe series bevelling machines. 11-21 rpm and 1522-3000 Nm (1141-2250 Ft.Lbs, depend the gear box) torque on the cutter blade is a standard feature.

## 6 POINTS LOCKING JAWS



The innovative, 6 points jaws, effectively lock the machine within the pipe, allowing safe, efficient and smooth processing of the tube end. Wide clamp range 15 mm (0,59") with only 7 set of jaws covers the entire range: 50-315 mm (2-11,6")

**CHOOSE YOUR GEARBOX**

This tool comes with one of 3 gearboxes as a standard. Torque/speed depends on gear configuration:

3000 Nm / 11 RPM	2250 Ft.Lbs / 11 RPM
2256 Nm / 15 RPM	1690 Ft.Lbs / 15 RPM
1522 Nm / 22 RPM	1141 Ft.Lbs / 22 RPM

**EXPANDABLE HOLDERS**




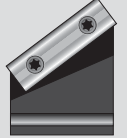
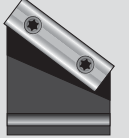

Machine is equipped with 8" standard cutter head. Optional 12" available on request.

**HEAVY DUTY PENDANT**



Machine is equipped with a heavy duty pendant. This can be attached to both sides of the motor for operator convenience.

**HOLDERS FOR SMARTMILL**

<p>Facing (2CDI insert)</p>  <p>F-45-90</p>	<p>Inside bevelling and boring (2CDI insert)</p>  <p>IB-45-37 IB-45-10</p>	<p>Outside bevelling (2CDI insert)</p>  <p>OB-45-45 OB-45-37 OB-45-30 OB-45-10</p>	<p>J bevelling (2CDJ-Rxx insert)</p>  <p>JP-45-45 JP-45-37 JP-45-30</p>
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For other tool bits please send your request.

**OPTIONAL ELECTRIC MOTOR UNITS**

SmartMill-E is electric version of SmartMill. The machine can cover the same pipe sizes and comes with the same cutting head. The electric motor with 4 speed mechanical gear box has also variable speed control and produce enormous torque on the cutter blade. Is interchangeable with pneumatic drive and can be purchased separately at any time. Take 5 min to replace from pneumatic to electric.



**DUDE-2000-4-SPEED**

Motor free speed .....	120-210-380-650 RPM
Motor power .....	2000 Watt
Motor torque (on the 1st gear) .....	240 Nm (180 Ft.Lbs)
Machine feed stroke .....	50 mm (2")
Cutter head speed .....	8-14-25-43 rpm
Max torque on cutter blade (on the 1st gear) .....	3600 Nm (2664 Ft.Lbs)

**LOCKING RANGES WITH STANDARD JAWS**

JAWS SET	ID CAPACITY [MM]		SEGMENT 1	SEGMENT 2	SEGMENT 3
	MIN	MAX			
501PM#36	50,0	60,5	x	x	x
503PM#36	60,0	70,5	PM#36-5	x	x
505PM#36	70,0	80,5	PM#36-10	x	x
507PM#36	80,0	90,5	PM#36-15	x	x
509PM#36	90,0	100,5	PM#36-20	x	x
511PM#36	100,0	110,5	PM#36-20	PM#36-5	x
513PM#36	110,0	120,5	PM#36-20	PM#36-10	x
515PM#36	120,0	130,5	PM#36-20	PM#36-15	x
517PM#36	130,0	140,5	PM#36-40	x	x
519PM#36	140,0	150,5	PM#36-40	PM#36-5	x
521PM#36	150,0	160,5	PM#36-40	PM#36-10	x
523PM#36	160,0	170,5	PM#36-40	PM#36-15	x
525PM#36	170,0	180,0	PM#36-60	x	x
527PM#36	180,0	190,5	PM#36-60	PM#36-5	x
529PM#36	190,0	200,5	PM#36-60	PM#36-10	x
531PM#36	200,0	210,5	PM#36-60	PM#36-15	x
533PM#36	210,0	220,5	PM#36-80	x	x
535PM#36	220,0	230,5	PM#36-80	PM#36-5	x
537PM#36	230,0	240,5	PM#36-80	PM#36-10	x
539PM#36	240,0	250,5	PM#36-80	PM#36-15	x
541PM#36	250,5	260,5	PM#36-80	PM#36-20	X
543PM#36	260,0	270,5	PM#36-80	PM#36-20	PM#36-5
545PM#36	270,0	280,5	PM#36-80	PM#36-20	PM#36-10
547PM#36	280,0	290,5	PM#36-80	PM#36-20	PM#36-15
549PM#36	290,0	300,5	PM#36-80	PM#36-40	x
551PM#36	300,0	310,5	PM#36-80	PM#36-40	PM#36-5
553PM#36	310,0	320,5	PM#36-80	PM#36-40	PM#36-10
555PM#36	320,0	330,5	PM#36-80	PM#36-40	PM#36-15
557PM#36	330,0	340,5	PM#36-80	PM#36-60	x
559PM#36	340,0	350,5	PM#36-80	PM#36-60	PM#36-5
561PM#36	350,0	360,0	PM#36-80	PM#36-60	PM#36-10
563PM#36	360,0	370,0	PM#36-80	PM#36-60	PM#36-15
565PM#36	370,0	380,0	PM#36-80	PM#36-60	PM#36-20

**SMARTMILL PERFORMANCE**



The performance of the machine may vary depending on the skill of the operator, the materials, the conditions of the tools and the air supply system in case of pneumatic unit.