

PanelDrill

The KRAIS PanelDrill is a modular machine for the boiler waterwalls manufactures.

This is the first outside mounting tool with unique up to 80 mm feed stroke and 50 mm thick drive spindle.

Thanks to long feed stroke, rigid construction, powerful drives options and strong clamping PanelDrill is much more comfortable than other solutions. Minimized chatter and vibration results in smooth machining and operator convenience. The PanelDrill is suitable for small bore, heavy wall tubes with a high percentage of chrome, stainless steel and other exotic alloys.

The machine is offered with a choice of one from 3 available clamping jaws: 2,5", 3" or 4" OD, other sizes are just on request.



The crank arm enables the operator to smooth and fast feeding the tool during beveling or facing.

AVAILABLE CLAMPS



2,5" CLAMPS

Basic clamps allows for machining tubes with MiniDrill up to 2,5" with 2" feed range.



3" CLAMP

The mid 3" clamps increases MiniDrill capacity up to 76 mm (3") with 2" feed range.



4" CLAMP

The biggest, 4" clamps increases MiniDrill capacity up to 101 mm (4") with 2" feed range.

	WORKING RANGE [MM]		WORKING RANGE [INCH]		CLEARANCE		CLADDING REMOVAL		MEMBRANE UP TO		FEED STROKE		FREE SPEED	TORQUE	
	MIN	MAX	MIN	MAX	[MM]	[INCH]	[MM]	[INCH]	[MM]	[INCH]	[MM]	[INCH]	[RPM]	[NM]	[FT.LBS]
PanelDrill 2,5" clamps	19,0	63,5	0,75"	2,50"	70,0	2,75"	44,4	1,75"	51,0	2,0"	50	2"	100*	140	105
PanelDrill 3,0" clamps	19,0	76,0	0,75"	3,00"	84,0	3,3"	63,5	2,50"	63,5	2,5"	50	2"	100*	140	105
PanelDrill 4,0" clamps	50,0	101,0	2,00"	4,00"	122,0	4,8"	88,9	3,50"	122,0	4,8"	50	2"	100**	140	105

*PanelDrill with 2,5" and 3" clamps optional free speeds are 35, 200 and 300 RPM; **PanelDrill with 4" clamps optional free speed: 35 RPM with Speedreducer

	AIR USE		BODY WIDTH		BODY HEIGHT		WEIGHT	
	[CFM]	[M ³ /MIN]	[MM]	[INCH]	[MM]	[INCH]	[KG]	[LBS]
PanelDrill 2,5" clamps	55	1,3	50	1,96"	300	11,81"	10	22
PanelDrill 3,0" clamps	55	1,3	50	1,96"	320	12,60"	11	24
PanelDrill 4,0" clamps	55	1,3	50	1,96"	350	13,78"	18	40

PanelDrill

UNIVERSAL CUTTER HEADS AND HOLDERS



50 MM
Standard cutter head, delivered with 2,5" clamps, covers full range from 19 to 63,5 mm tubes.



63 MM (2,48")
Head supplied with 3" clamps. Designed to fasten wide range of cutting inserts.



101 MM (3,97")
Head supplied with biggest 4" clamps. Designed to fasten wide range of cutting inserts.

All cutter heads are based on Weldon type gripper.



BIT & HOLDERS
Wide range of holders, with a standard and custom made blades are offered in a wide variety of angles and sizes.

→ TABLE PAGE 44

OPTIONAL LONG FEED SYSTEM



Special version of clamps and spindle with longer feed stroke. Depending on the application, there is a possibility to build machine with stroke even up to 80 mm. Please consult with factory if you have an application that needs even longer feed.

OTHER OPTIONAL



SPEED REDUCER
Easy to use gearbox for 3x speed reduction. Increases the torque, enabling the machine to generate a thick chip whilst reducing the cutting time.

PANELDRILL PERFORMANCE



PanelDrill during 2" carbon steel membrane removal.

PANELDRILL-E

PanelDrill E is electric version of PanelDrill. A standard machine cover the same pipe 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 Speed115 RPM
Power.....750 W
Torque366 NM (280 Ft.Lbs)

CLAMPING JAWS FOR PANELDRILL

JAWS	TUBE OD	
	[MM]	[INCH]
300 PM#2	19,05	0,750
301 PM#2	20,00	0,787
304 PM#2	22,20	0,874
308 PM#2	25,40	1,000
309 PM#2	25,00	0,984
312 PM#2	28,80	1,134
313 PM#2	30,00	1,181
314 PM#2	31,70	1,248
318 PM#2	34,90	1,374
322 PM#2	38,10	1,500
326 PM#2	44,40	1,748
330 PM#2	50,80	2,000
331 PM#2	51,00	2,008
334 PM#2	57,10	2,248
338 PM#2	60,30	2,374
342 PM#2	63,50	2,500
346 PM#2	76,20	3,000
350 PM#2	88,90	3,500
400 PM#2	101,60	4,000