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.



AVAILABLE CLAMPS



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



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



4" CLAMPThe 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 RPMwith Speedreducer

	AIR USE		BODY	WIDTH	BODY I	HEIGHT	WEIGHT		
	[CFM]	[M³/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

All cutter heads are based on Weldon type gripper.



50 MMStandard 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



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.

OTHEROPTIONAL



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

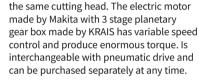
PANELDRILL PERFORMANCE



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



Free Speed115 RPM
Power.....750 W
Torque366 NM (280 Ft.Lbs)

CLAMPING JAWS FOR PANELDRILL

IAMC	TUBE OD					
JAWS	[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				