

MWR-JGS Mini Grooving Tool

First in the world, quick, powerful, yet handheld machine for serrating tube sheet in heat exchangers, boiler drums, FinFan coolers and other tubular vessels that need grooves in the tube sheet. Tool uses one cutting bit for cut any material tubes.

This unique system safely and quickly produces grooves in under 20 second for 1" tube.

Can be used as a tool for maintenance companies as well as the production tool with our dual pneumatic locking system and pneumatic cooling and lubricating module.



CUTTING RANGE		FREE SPEED		POWER		TORQUE	
Up to 101,6 mm		100 Rpm		1,3 Hp		140 Nm	
Up to 4"						105 Ft.Lbs	
AIR USE		BODY WIDTH		BODY HEIGHT		BODY WEIGHT	
55 cfm	1,3 m3/min	2,32"	59 mm	13,1"	335 mm	17,5 Lbs	8 kg

MWR-JGS ON REGULAR TUBE SHEET



On standard heat exchangers machine locks onto two shafts on the adjacent holes. The locking plate is manufactured according to the tube hole pitch to ensure precise tool alignment.

MWR-JGS REACTION PLATES



Standard locking plate has 2 reaction shafts, located from each site of the spindle. We can also supply locking plate that has locking shaft located on one side of the spindle and can be rotated through 180 degrees to accommodate partition plates, channel heads etc.

MWR-JGS E

MWR-JGS E is the electric version of the Mini Grooving Tool. The standard machine covers the same tube sizes. The electric motor, made by Makita, has a 3 stage planetary gear box manufactured by KRAIS. It has variable speed control and produces enormous torque. It is interchangeable with our pneumatic drive and can be purchased at any time.



Free Speed	115 RPM
Power	750 W
Torque	368 Nm (280 Ft.Lbs)
Feed Stroke	25 mm (1")

Full range of the grooving tools from 1/2" to 4"



The rollers over the circumference of the mandrel allow to achieve a perfect surface of the hole.

Grooving tools for MWR-JGS



TUBE SIZE	TOOL NUMBER	TOOL BIT 1/8X1/4X1/8"	TOOL BIT 3X6X3 MM	TOOL BIT SPRING	MANDREL	TURNING ROLS
1/2"	JGS-MWR-127	ST-5003-S	GS-206	ST-5011	GS-MWR-127	-
5/8"	JGS-MWR-158	ST-6203-S	GS-306	ST-6211	GS-MWR-158	-
16 mm	JGS-MWR-160	ST-6203-S	GS-306	ST-6211	GS-MWR-160	-
3/4"	JGS-MWR-190-R	ST-7503-S	GS-406	ST-7511	GS-MWR-190-R	STR-3-55
20 mm	JGS-MWR-200-R	ST-7503-S	GS-406	ST-7511	GS-MWR-200-R	STR-4-55
22 mm	JGS-MWR-220-R	ST-7503-S	GS-406	ST-7511	GS-MWR-220-R	STR-4-55
7/8"	JGS-MWR-222-R	ST-7503-S	GS-406	ST-7511	GS-MWR-222-R	STR-5-55
25 mm	JGS-MWR-250-R	ST-7503-S	GS-406	ST-7511	GS-MWR-250-R	STR-5-55
1"	JGS-MWR-254-R	ST-7503-S	GS-406	ST-7511	GS-MWR-254-R	STR-5-55
1-1/8"	JGS-MWR-285-R	ST-7503-S	GS-406	ST-7511	GS-MWR-285-R	STR-5-55
1-1/4"	JGS-MWR-317-R	ST-7503-S	GS-406	ST-7511	GS-MWR-317-R	STR-5-55
1-1/2"	JGS-MWR-381-R	ST-7503-S	GS-406	ST-7511	GS-MWR-381-R	STR-5-55
1-3/4"	JGS-MWR-444-R	ST-7503-S	GS-406	ST-7511	GS-MWR-444-R	STR-5-55
2"	JGS-MWR-508-R	ST-7503-S	GS-406	ST-7511	GS-MWR-508-R	STR-5-55
51"	JGS-MWR-510-R	ST-7503-S	GS-406	ST-7511	GS-MWR-510-R	STR-5-55
2-1/4"	JGS-MWR-751-R	ST-7503-S	GS-406	ST-7511	GS-MWR-751-R	STR-5-55
2-1/2"	JGS-MWR-635-R	ST-7503-S	GS-406	ST-7511	GS-MWR-635-R	STR-5-55
2-3/4" *	JGS-MWR-698-R	ST-7503-S	GS-406	ST-7511	GS-MWR-698-R	STR-5-55
3" *	JGS-MWR-762-R	ST-7503-S	GS-406	ST-7511	GS-MWR-762-R	STR-5-55
4" *	JGS-MWR-1002-R	ST-7503-S	GS-406	ST-7511	GS-MWR-1002-R	STR-5-55

* tool needs speed reducer