

MiniMill 300FF

The MiniMill 300FF is a pneumatic tube facing machine engineered for professional maintenance and repair of fin fan gas coolers and air-cooled heat exchangers. Compact, robust, and built for demanding industrial environments, it delivers consistent results across the entire tube sheet with a cycle time of approx. 1 min per tube.



All FinFan attachments feature an extended-reach shaft design, allowing the cutting head to access tube ends recessed deep within the tube sheet. The distance between the plug thread engagement point and the cutting zone is fully accommodated, enabling reliable machining without contact with the surrounding structure.



APPLICATION RANGE (ID-OD)		LOCKING RANGE	FEED STROKE	POWER	FREE SPEED	TORQUE	
12,5– 51,0 mm		According to the drawing	20 mm	1,3 Hp	300 Rpm	43 Nm / 32 Ft.Lbs	
0,492 – 2,000"			0,787"		100 Rpm	120 Nm / 88,5 Ft.Lbs	
AIR USE		BODY WIDTH		BODY HEIGHT		BODY WEIGHT	
55 cfm	1,3 m³/min	2,32"	59 mm	13,1"	335 mm	13,2Lbs	6 kg

OPTIONAL ACCESSORIES



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.



RATCHET FEED

Feed system allowing to work in narrow and tight locations, eg. in water walls.



LEVER FEED

Quick and easy feed system. Used in many basic applications.



EXAMPLE TOOL APPLICATION



The machine is designed for work on gas coolers: an elongated special head and a nut fixing the tool in the socket.



The bit edge covers the entire weld to be removed



Removal of the weld ends with a visible groove between the tube and the tube sheet.

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FINFAN ATTACHMENT FOR FACING TUBES (DEFAULT)

Attachment for facing tube ends in fin fan gas coolers. Features an adjustable-length locking shaft and a support bushing that threads into the plug, ensuring precise, repeatable positioning from tube to tube. Cycle time: approx. 1 min per tube. Recommended machine speed: 300 RPM.



TOOL	TUBE CAPACITY (OD)			BIT	CENTER NUT	JAWS COVER	
	[INCH]	[MM]	BWG			MIN	MAX
597-FINFAN-CSS-12	0,750	19,05	12-18	CSZ	7/8	307MM#36	313MM#36
600-FINFAN-CSS-12	0,875	22,23	12-18	CSZ	1	316MM#36	319MM#36
601-FINFAN-CSS-12	1,000	25,40	12-23	CSS	1-1/8	207MM#36	213MM#36
603-FINFAN-CSS-12	1,125	28,58	12-23	CSS	1-1/4	211MM#36	217MM#36
605-FINFAN-CSS-12	1,250	31,75	11-23	CSS	1-3/8	103MM#36	107MM#36
607-FINFAN-CSS-12	1,500	38,10	11-23	CS	1-5/8	107MM#36	111MM#36
609-FINFAN-CSS-12	1,750	44,45	9-23	CS	1-7/8	111MM#36	115MM#36
611-FINFAN-CSS-12	2,000	50,80	9-23	CS	2-1/8	115MM#36	119MM#36

FINFAN SEAL WELD REMOVAL ATTACHMENT

Attachment for seal weld removal in air-cooled heat exchangers. The adjustable-length locking shaft and support bushing thread into the plug for secure, consistent engagement. Cycle time: approx. 1 min per tube. Recommended machine speed: 100 RPM.



TOOL	TUBE CAPACITY (OD)			BIT	CENTER NUT	JAWS COVER	
	[INCH]	[MM]	BWG			MIN	MAX
597-FINFAN-SWR-12	0,750	19,05	12-18	CSZ	7/8	307MM#36	313MM#36
600-FINFAN-SWR-12	0,875	22,23	12-18	CSZ	1	316MM#36	319MM#36
601-FINFAN-SWR-12	1,000	25,40	12-23	CSS	1-1/8	207MM#36	213MM#36
603-FINFAN-SWR-12	1,125	28,58	12-23	CSS	1-1/4	211MM#36	217MM#36
605-FINFAN-SWR-12	1,250	31,75	11-23	CS	1-3/8	103MM#36	107MM#36
607-FINFAN-SWR-12	1,500	38,10	11-23	CS	1-5/8	107MM#36	111MM#36
609-FINFAN-SWR-12	1,750	44,45	9-23	CS	1-7/8	111MM#36	115MM#36
611-FINFAN-SWR-12	2,000	50,80	9-23	CS	2-1/8	115MM#36	119MM#36

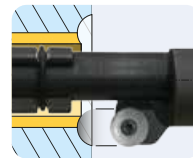
FINFAN CHAMFERING ATTACHMENT

Attachment for chamfering tube sheet holes in fin fan units prior to welding. Features an adjustable-length locking shaft and a support bushing that threads into the plug. Cycle time: approx. 1 min per tube. Recommended machine speed: 300 RPM.



TOOL	TUBE CAPACITY (OD)			BIT	CENTER NUT	JAWS COVER	
	[INCH]	[MM]	BWG			MIN	MAX
601-FINFAN-CMF-12	1,000	25,40	12-23	CI-6x6	1-1/8	207MM#36	213MM#36
605-FINFAN-CMF-12	1,250	31,75	11-23	CI-6x6	1-3/8	103MM#36	107MM#36
607-FINFAN-CMF-12	1,500	38,10	11-23	CI-6x6	1-5/8	107MM#36	111MM#36

FINFAN JPREP ATTACHMENT



Attachment for simultaneous facing of tube ends and tube sheet surfaces in fin fan units. The specially shaped head carries a large round cutting insert, enabling full coverage of the weld area in a single pass. Recommended machine speed: 100 RPM.



TOOL	TUBE CAPACITY (OD)			INSERT	CENTER NUT	JAWS COVER	
	[INCH]	[MM]	BWG			MIN	MAX
601-FF-JPREP-12"	1,000	25,40	12-23	O10-Co	1-1/8	207MM#36	213MM#36
603-FF-JPREP-12"	1,125	28,58	12-23	O10-Co	1-1/4	211MM#36	217MM#36
605-FF-JPREP-12"	1,250	31,75	11-23	O10-Co	1-3/8	215MM#36	219MM#36
607-FF-JPREP-12"	1,500	38,10	11-23	O10-Co	1-5/8	107MM#36	111MM#36
609-FF-JPREP-12"	1,750	44,45	9-23	O10-Co	1-7/8	111MM#36	115MM#36
611-FF-JPREP-12"	2,000	50,80	9-23	O10-Co	2-1/8	115MM#36	119MM#36

LENGTHS AVAILABLE ON REQUEST

MODEL	LENGTH	
	[MM]	[INCH]
xxx-FINFAN-6	152,4	6"
xxx-FINFAN-8	203,2	8"
xxx-FINFAN-10	254,0	10"
xxx-FINFAN-12	305,0	12"
xxx-FINFAN-14	355,6	14"
xxx-FINFAN-16	406,4	16"