

MiniMill 301LP

The fastest and strongest facing machine on the market. Engineered for safety and ease of use, featuring a pneumatic locking system with a double piston cylinder. Compact milling head with double cutting edge inserts with 6% cobalt. For all types of material including: ferrous, non-ferrous, stainless and exotic alloys steel, duplex, inconel and titanium.

STANDARD SET UP



MINISHAFT
A system with interchangeable guide shafts. A complete set covers 12,4 to 48,0 mm ID tubes.



60 MM (2,36")
The smallest cutter head, designed to fasten the wide range of cutting inserts.



IMPORTANT!
Read how to properly lock on page 58

STANDARD WORKING RANGE				TOTAL WORKING RANGE			
APPLICATION RANGE		LOCKING RANGE		APPLICATION RANGE		LOCKING RANGE	
12,4 – 38,0 mm		12,4 – 24,0 mm		10 – 51 mm		10 – 48 mm	
0,488 – 1,496"		0,488 – 0,945"		0,394 – 2,008"		0,394 – 1,890"	
FEED STROKE		POWER		FREE SPEED		TORQUE	
20 mm	0,787"	1,3 hp		300 rpm		43 Nm	32 Ft.lbs
55 cfm		1,3 m³/min		2,32"		59 mm	
				13,1"		335 mm	
						15,4 Lbs	7 kg



AUTOMINIMILL 301
Auto MiniMill 301 is a fully automatic machine, controlled by a built-in, fully pneumatic control box, with adjustable feed rate and actuated by a hand button (foot switch optional). Ideal for repetitive work cycles on condensers and heat exchangers, as well as for bevelling and facing boiler tubes.

EXAMPLE TOOL APPLICATION



A real application: shortening a bundle. MiniMill can deal with this task quickly and efficiently.



Double sided inserts and fixed diameter heads ensure unsurpassed efficiency and quality. Mechanical stops ensure identical tube projection.

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OPTIONAL HEADS



TFMH

Tube facing milling head for tubes made of any type of material. Utilizes 6% cobalt inserts.

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STWRMH

Head for strength weld removal. Easy to align and sized per tube diameter. Must be used with 3X Speed Reducer.

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OPTIONAL SHAFTS



MICROSHAFT

A system with interchangeable guide shafts. A complete set covers 9,0 to 15,0 mm inside diameter.



SHAFT20

Self-align, heavy duty locking system. Shafts and jaws are longer and wider to ensure maximum clamping force.

OTHER 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.



STAR WHEEL

The most precise feed system. Used in many basic and demanding applications.

EXAMPLE TOOL APPLICATION



The fast locking and the handle feed make this system very efficient for heat exchanger manufacturers.

MINIMILL 301LP LOCKING RANGES

WITH MINISHAFT

SHAFT	SIZE		JAWS	RANGE [MM]		RANGE [INCH]		SPRING
	[INCH]	[MM]		MIN	MAX	MIN	MAX	
901MM#151	12,40	0,492	201MM#36	12,40	14,50	0,488	0,571	DW-11
905MM#151	13,90	0,547	203 MM#36	13,90	16,00	0,547	0,630	DW-12,5
909MM#151	16,90	0,661	205 MM#36	15,90	18,00	0,626	0,709	DW-15,5
			207 MM#36	16,90	19,00	0,665	0,748	
			209 MM#36	18,90	21,00	0,744	0,827	
			211 MM#36	19,90	22,00	0,783	0,866	
			213 MM#36	20,90	23,00	0,823	0,906	
			214 MM#36	21,90	24,00	0,862	0,944	

WITH MICROSHAFT

SHAFT	SIZE		JAWS	RANGE [MM]		RANGE [INCH]		SPRING
	[INCH]	[MM]		MIN	MAX	MIN	MAX	
800MM#151	0,354	9,00	301MM#36	10,00	11,00	0,394	0,433	DW-7,5
801MM#151	0,394	10,00	303MM#36	11,00	12,00	0,433	0,472	DW-8,5
805MM#151	0,453	11,50	305MM#36	12,00	13,00	0,472	0,512	DW-10
			307MM#36	13,00	14,00	0,512	0,551	
			309MM#36	14,00	15,00	0,551	0,591	

WITH SHAFT20

SHAFT	JAWS	EXT.	RANGE [MM]		RANGE [INCH]		SPRING	
			MIN	MAX	MIN	MAX	NO.	QTY.
SHAFT20	NS-0	-	20	24	0,787	0,945	SP-19	1
	NS-1	-	24	28	0,945	1,102	SP-19	1
	NS-2	-	28	33	1,102	1,299	SP-19	1
	NS-3	-	33	38	1,299	1,496	SP-20	2
	NS-4	-	38	43	1,496	1,693	SP-20	2
	NS-5	-	43	48	1,693	1,890	SP-20	2