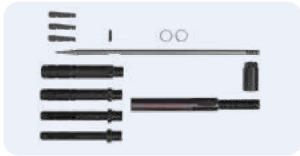


# MiniMill 301LP

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 m <sup>3</sup> /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.

# MiniMill 301LP

## OPTIONAL HEADS



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

→ TABLE PAGE 107



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

→ TABLE PAGE 107

## 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