

Procurement no.	2/2020 – GROUP 1.	No.	1.1.	Quantity of Machines	1 pce
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BAND SAW BLADES CNC PROFILE SHARPENING MACHINE

Offered make and type of machine	
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No.	Basic technical characteristics - Requested	Offered	Comment
1.	Year of manufacture – 2020 or 2021	YES NO	
2.	CNC control	YES NO	
3.	Servomotor with absolute decoders	YES NO	
4.	Band saw blade shape is programmed on the Microsoft Excel platform	YES NO	
5.	Capacity of memory for 999 of band saw blades – Min. 999 shapes	YES NO	
6.	Variable band saw blade program – variable tooth shapes – min. to 12 different profiles in a group	YES NO	
7.	Automatic rotating diamond tipped grinding wheel	YES NO	
8.	Adjustable speed for grinding wheel – tooth band saws – Min. 3 different speeds	YES NO	
9.	Operation of the grinding wheel and electronic control of operation speed of a grinding wheel	YES NO	
10.	Water cooling of the blades during sharpening	YES NO	
11.	Water pump of capacity 220 L/Min.	YES NO	
12.	Width of saw blades – minimum range from 30 – 360 mm		
13.	Saw blade carriage – minimum range 5 – 13 m		
14.	Pitch adjustable – Min./Max 12 – 60 mm		
15.	Tooth/blade height adjustable – Min./Max 4 – 25 mm		
16.	Hook angle – minimum range 0° - 38°		
17.	Working speed – minimum 0 – 20 teeth/minute		
18.	Grinding wheel diameter – minimum range 280 – 350 mm		
19.	Grinding wheel thickness – minimum range 8 – 15 mm		
20.	Grinding wheel motor – minimum 4.0 kW		
21.	Auxiliary pusher	YES NO	

22.	Warranty - Min. 24 months	YES NO	
23.	Delivery deadline – 1 st of April 2021.	YES NO	
24.	Machine Operation Training for 10 employees	YES NO	

Procurement no.	2/2020 – GROUP 1.	No.	1.2.	Quantity of Machines	1 pce
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BAND SAW BLADES CNC SIDE SHARPENING MACHINE

Offered make and type of machine	
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No.	Basic technical characteristics - Requested	Offered	Comment
1.	Year of manufacture – 2020 or 2021	YES NO	
2.	Central electronic adjustment of height of band saws with electronic system of positioning of band saws	YES NO	
3.	Operation and control of head holders for sharpening via CNC control platform	YES NO	
4.	Grinding wheel motor – minimum 2 x 1.8 kW		
5.	Minimum rotating speed of the grinding motor nN – 3000 rpm		
6.	Minimum standing torque of the grinder motor M0 – 2,90 Nm		
7.	Maximum torque of the grinder motor Mpk – 11,10 Nm		
8.	Engine operating temperature range -20 C do 40 C	YES NO	
9.	Grinding wheel head with industrial automated pneumatic unit automatically going „in-out“ as required	YES NO	
10.	Control of grinding wheel and electronic control of grinding wheel speed	YES NO	
11.	Saw pusher	YES NO	
12.	Water cooling of band saw during sharpening 40 l/Min.	YES NO	
13.	Width of saw blades – minimum range from 20 – 330 mm		
14.	Thickness of the band saw – minimum range 0,6 – 5 mm		
15.	Tooth/blade pitch – Min./max 10 – 100 mm		
16.	Tooth/blade height – Min./max 4 – 25 mm		
17.	Working speed– minimum 0 – 16 teeth/Min.		
18.	Grinding wheel diameter – Min. 125 mm		
19.	Type of grinding wheel CBN	YES NO	
20.	Warranty - Min. 24 months	YES NO	
21.	Delivery deadline – 1st of April 2021.	YES NO	
22.	Machine Operation Training for 10 employees	YES NO	

Procurement no.	2/2020 – GROUP 2.	No.	2.1.	Quantity of Machines	1 pce
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WIDE BAND SAW BLADES FLASH BUTT WELDNG MACHINE

Offered make and type of machine	
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No.	Basic technical characteristics - Requested	Offered	Comment
1.	Year of manufacture – 2020 or 2021	YES NO	
2.	Band saw blades Flash Butt Welding Machine up to 215 mm band saws width	YES NO	
3.	Band saw blades Flash Butt Welding Machine up to 1,6 mm band saws thickness	YES NO	
4.	Nominal rating 70 kVA	YES NO	
5.	Automatic non-contact of a weld	YES NO	
6.	Infrared spectral pyrometer for non-contact temperature measurement	YES NO	
7.	Storage of 99 welding programs	YES NO	
8.	Complete automatic positioning	YES NO	
9.	Auxiliary machine for cleaning the weld after welding up to 320 mm in width of band saws	YES NO	
10.	Water cooler for cooling the welding electrodes during welding	YES NO	
11.	Installation power of the water cooler for cooling 3,2 bar	YES NO	
12.	Warranty - Min. 24 months	YES NO	
13.	Delivery deadline – 1st of April 2021.	YES NO	
14.	Machine Operation Training for 10 employees	YES NO	

Procurement no.	2/2020 – GROUP 3.	No.	3.1.	Quantity of Machines	2 pce
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BAND SAW BLADES CNC DEEP GRINDING MACHINE

Offered make and type of machine	
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No.	Basic technical characteristics - Requested	Offered	Comment
1.	Year of manufacture – 2020 or 2021	YES NO	
2.	Complete CNC machine control	YES NO	
3.	Programmable grinding profiles	YES NO	
4.	Storage of up to 99.999 programs	YES NO	
5.	Possibility of deep grinding of material up to 10 mm deep	YES NO	
6.	Width of band saw – minimum range from 5 – 350 mm	YES NO	
7.	Length of band saw – maximum 500 m in bund	YES NO	
8.	Working speed– minimum 1 – 60 teeth/Min.	YES NO	
9.	Warranty - Min. 24 months	YES NO	
10.	Delivery deadline – 1st of April 2021.	YES NO	
11.	Machine Operation Training for 10 employees	YES NO	

Procurement no.	2/2020 – GROUP 4.	No.	4.1.	Quantity of Machines	4 pce
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AUTOMATIC WELDING OF SPECIAL ALLOYS ON BAND SAW AND CIRCULAR SAW BLADES TEETH

Offered make and type of machine	
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No.	Basic technical characteristics - Requested	Offered	Comment
1.	Year of manufacture – 2020 or 2021	YES NO	
2.	Automatic welding machine	YES NO	
3.	Width of band saw – minimum range of 30 – 360 mm	YES NO	
4.	Length of band saw – minimum range 4 – 13 m	YES NO	
5.	Tooth/blade pitch – Min./max 18 – 80 mm	YES NO	
6.	Tooth/blade height – Min./max 4 – 25 mm	YES NO	
7.	Grinding angle – minimum range 0° - 38°	YES NO	
8.	Working speed– minimum 3 – 6 teeth/Min.	YES NO	
9.	Water cooler for cooling during welding	YES NO	
10.	Warranty - Min. 24 months	YES NO	
11.	Delivery deadline – 1st of April 2021.	YES NO	
12.	Machine Operation Training for 10 employees	YES NO	

Procurement no.	2/2020 – GROUP 5.	No.	5.1.	Quantity of Machines	1 pce
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SCREW COMPRESSOR

Offered make and type	
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No.	Basic technical characteristics - Requested	Offered	Comment
1.	Year of manufacture – 2020 or 2021	YES NO	
2.	Capacity (FAD) at operating pre-pressure of 7.5 bara(g), per ISO 1217; 1996 Annex C – Min. 2,80 m ³ /Min. or equivalent		
3.	Maximum operating pre-pressure – Min. 8 bar(g)		
4.	Nominal power of electric motor drive – Max. 15 kW		
5.	Mechanical protection of electric motor drive – IP 55	YES NO	
6.	Operating voltage – 400V 50Hz	YES NO	
7.	Cooling mode - air	YES NO	
8.	Maximum pressure drop in dryer 100 mbar		
9.	dew point pressure – max + 3°C at temperature of environment +20°C		
10.	Refrigerant – environmentally friendly such as R134a		
11.	Noise emission per PN8NTC 2.3 at 1 m distance – max 65 db(A)		
12.	Vertical air tank galvanized inside and out – Min. 1000 l/11 bar		
Required equipment supplied with the compressor (No. 14 to 17)			
13.	Connection hose	YES NO	
14.	Ball valve	YES NO	
15.	Vertical tank – Min. 1000 lit / 11 bar	YES NO	
16.	Air microfilter – capacity 2600 l/Min., air quality classification in accordance with ISO 8573-1 is 1-4-2 or equivalent	YES NO	
17.	Warranty Min. 24 months	YES NO	
18.	Service support, service network and original parts in the Republic of Croatia	YES NO	
19.	Delivery deadline – 1st of April 2021.	YES NO	

Procurement no.	2/2020 – GROUP 6.	No.	6.1.	Quantity of Machines	1 pce
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TENSIONING, STRAIGHTENING AND LEVELLING MACHINE

Offered make and type of machine	
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No.	Basic technical characteristics - Requested	Offered	Comment
1.	Year of manufacture – 2020 or 2021	YES NO	
2.	Possibility to roll saws up to 310 mm in width	YES NO	
3.	A pair of rollers to create tension on the saws	YES NO	
4.	Electric motor power Min. 0,75 kW	YES NO	
5.	Band saw length – od 5.000 do 11.120 mm	YES NO	
6.	Warranty - Min. 24 months	YES NO	
7.	Delivery deadline – 1st of April 2021.	YES NO	

Procurement no.	2/2020 – GROUP 7.	No.	7.1.	Quantity of Machines	1 pce
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CNC BAND SAW TENSIONING, STRENGTHENING AND LEVELLING MACHINE

Offered make and type of machine	
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No.	Basic technical characteristics - Requested	Offered	Comment
8.	Year of manufacture – 2020 or 2021	YES NO	
9.	Possibility of rolling of band saws up to 360 mm width	YES NO	
10.	Working speed Min. 15m/Min.	YES NO	
11.	Complete CNC machine control	YES NO	
12.	Concave roller for rolling from hard metal	YES NO	
13.	Convex roller for rolling from hard metal	YES NO	
14.	A set of built-in sensors for quality control	YES NO	
15.	Printing a quality certificate for the finished product on the machine	YES NO	
16.	Saw length – od 5.000 do 12.000 mm	YES NO	
17.	Warranty - Min. 24 months	YES NO	
18.	Delivery deadline – 1st of April 2021.	YES NO	