




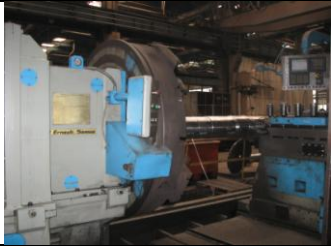



















TECHNICAL CHARACTERISTICS OF HIGH-PERFORMANT EQUIPMENTS

Item	Denomination-Type-Supplier	No. of pieces	Technical characteristics
0	1	2	3
1.	Gear profile grinding machine NILES ZE 1200	1	<p>CNC Control SIEMENS SINUMERIK 840D Max diam. 1200mm Profile depth : 55mm Module max ~25mm Helix angle : 45° Stroke length : max 600mm Rotary table load : max 7000kg Grinding wheel Diameter: max350mm Width : max 80mm Speed : max 3550 min⁻¹</p> 
2.	Horizontal milling and boring machine TOS WHN 13 CNC	1	<p>CNC Control SIEMENS SINUMERIK 840D X= 4000mm Z=1600mm Y= 3000mm W=800mm B= 0.003-1.5min⁻¹ Table load max 12 to. Spindle speed range 10-3000 r.p.m Turn table: 1800x2600 RMP60+RMI RENISHAW Spindle support PVD 13-550</p> 
3.	Horizontal Machining centre CPF 1-5	3	<p>CNC control X=2000 Turn-table: 1200x1200 Y=1250 3-3000 r.p.m. 3000 kg Max. tool weight: 35 kg Z=1250 Tool storage: 50 places B=0-360°</p> 
4.	Machining centre CBKOZ WMW - GERMANY	1	<p>CNC control X=1120 Turn-table: 900x900 Y=685 1300 r.p.m. 3000 kg Tool storage: 60 places Z=315 W=630</p> 
5.	Machining centre TOS 130 Q REPUBLICA CEHA	1	<p>CNC control X=3000 Turn-table: 1600x1600 Y=2000 1800 r.p.m. Z=1200 Tool storage: 60 places 3000 kg W=700-800 B=0-360°</p> 

6.	Parallel Lathe ERNAULT SOMUA – FRANTA	1	NC control Ø 1800x8000 2-240 r.p.m	
7.	Parallel Lathe ERNAULT SOMUA - FRANTA	1	NC Control Ø 1400x5000 1,5-300 r.p.m.	
8.	Turning and Boring Lathe SKODA - R.CEHA	1	Ø max.5000 mm Z=3000 mm	
9.	Parallel Lathe R.CEHA	1	Ø 2000x8000 X=5185 13-630 r.p.m. Y=2370 Z=1250	
10.	Space-milling machine 6B 443 - RUSIA	1	NC control X=1000 Y=560 Z=320	
11.	Gantry milling machine FP 800 STIMIN – ORADEA	1	CNC control X=2500 Table: 800x2800 Y=1000 Max.spindle:3000 r.p.m. Z=1000 Max.part weight: 10.000 kg	
12.	Boring and milling machine AF - 120 TITAN - BUCURESTI	2	CNC control X=2375 Table : 1800x1600 Y=1890 Z=633 W=1500	
13.	Boring and milling machine AFP - 180 A	1	X=10.000 Y=3.800 Spindle: 1,25-630 r.p.m. z=1900 B=0-360° W=1200	
	Boring and milling		x=3000	

14.	machine AFM-150	1	Y=2000 Z=1000 B=0-360° W=280	Chuck-plate: Ø750 Spindle: 5-1000 r.p.m.	
15.	Boring and milling machine BFK-150 WMW-GERMANY	1	X=2500 Y=1600 Z=1000 B=0-360°	Table : 4200x100 Spindle: 125-630 r.p.m. Max.Weight:7600 kg	
16.	Boring and milling machine BFT - 430	1	X=2500 Y=1600 Z=1000 B=0-360°	Table : 2500x1000 Spindle: 125-630 r.p.m. Max.weight: 5000	
17.	Space drilling machine GB 443 - RUSIA	1	CNC control X=1000 Y=500 r.p.m. Z=320	Table : 1250x630 Spindle: 32-2500 Max.weight: 3000 kg	
18.	Grinding machine SZ 16-17-06/22/1-7/1 WMW-GERMANY	1	X=600 Y=1750 Z=1700	Spindle: 960 r.p.m Max. weight: 30.000 kg	
19.	Gantry milling machine FLP-1600 TITAN – BUCURESTI	2	X=5185 Y=2370 r.p.m Z=1250	Table: 4750x1600 Spindle: 13-630	
20.	Gantry milling machine FLP - 2000 TITAN - BUCURESTI	2	X=5185 Y=2750 Z=1750 r.p.m. W=300 kg	Table:4750x2000 Spindle: 13-630 Max. weight: 1500	
21.	Parallel lathe TCN 10 - LEADLE SPANIA	1	CNC control Max.piece diameter over slide:250mm Max. piece length: 1190 mm Max. spindle : 4000 r.p.m.		

22.	<p>Parallel lathe TCN 12 - LEADLE SPANIA</p>	1	<p>CNC control Max. piece diameter over slide:525mm Max. piece length: 1820mm Max. spindle: 4000r.p.m.</p>	
23.	<p>Gear cutting machine W.M.W - GERMANY</p>	1	<p>Max. gear diameter: 5000 mm Max. pitch: 42 mm Max. width: 1000 mm</p>	
24.	<p>Gear grinding machine Tip NILES - GERMANY</p>	2	<p>Max. gear diameter: 1000 mm Max. pitch: 30 mm Max. width: 450 mm</p>	
25.	<p>Plate-flanging press PIT-680</p>	1	<p>Maximum pressing force : 680 t Max flanging length: 3000 mm</p>	
26.	<p>Cutting machine MESSER - GRIESHEIM GERMANY</p>	2	<p>CNC control Max. plate thickness: 200 mm Max. width: 2500 mm Max. length: 12.000 mm</p>	
27.	<p>Machining centre DANOBAT FS 8000 SORALUCE - SPANIA</p>	1	<p>CNC control X=8000 Y=2000 15-2000 r.p.m. Z=1500 B=0-360° Turn-table: 2000x2000 Tool storage: 60 places Max. tool weight: 20 kg</p>	

28.	Vertical Machining Center Maho Deckel 532	1	CNC MAHO Turntable 500x500 mm 5 axes	
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Casting

0	1	2	3
1.	Moulding machine with air impulses FORMTEC - GERMANY	1	30 mould parts / hour 850x650x250
2.	Spectrolab laboratory SPECTRO - GERMANY	1	Fast chemical analyses 29 elements
3.	Induction furnance with static generator	1+1+1 +1	250 kg, 400 kg, 1000 kg, 2000 kg
4.	Bakelite shells moulding-casting line	1	25 moulds / hour

FORGING

0	1	2	3
1.	Back stroke drop hammer EKG, EK8 – UNGARY	2	Stroke energy: - 6000 kgf.m - 8000 kgf.m
2.	Back stroke drop hammer R.P. CHINA	1	Stroke energy: 25.000 kgf.m
3.	Forging hydraulic press R.P. CHINA	1	Pressing force: 630 tf
4.	Maxipress FORTUS – IASI	2	Pressing force: 1000 tf 1300 tf

HEAT-TREATMENT EQUIPMENTS

0	1	2	3
1.	Induction surface-hardening installation 10-25 kHz, numeric controled EFD – GERMANY	1	-Max. output power : 160 kW - Continuous power: 100 kW - Working frequency: 10-25 kHz - Max. inductor path: 1100 mm - Max. piece weight: 400 kg - Max. piece diameter: 400 mm
2.	Indusction surface-hardening instalation 8 kHz	1	- 2 working posts: -1 for the axes - 2 for wheel-type parts - Continuous power: 100 kW - Working frequency: 8 kHz - Max. axes weight: 100 kg - Max. piece diameter: Ø 200 mm - Max. hardened lenght: 700 mm - Max. gripping length: 1700 mm -Max.diameter for wheel-type pieces:Ø1000mm
3.	Chamber furnance with radiant tubes type IRB, programmable automatic controll and measurement device	4	- Max. charge: 3000 kg - For hardening, carburizing, anneal - Useful furnance volume: 1000x2500x900 mm - Working temperature: 750-930°C - Gas compsumption: 25 Nm ³ /h
4	Chamber furnance with flame and recycling type IRD	4	- Max. charge: 3000 kg - For carburizing, anneal - Useful furnance volume: 1000x2500x900 mm - Working temperature: 200-650°C - Gas compsumption: 20,5 Nm ³ /h
5.	Controlled ENDO atmosphere unit LINDBERG - GERMANY	1	Supplied ENDO atmosphere volume: 80 Nm ³ /h