




























#	KEY ASSET LIST	Qty	Equipment Function	PHOTOS
<i>Vertical Turning Capability</i>				
1	Betts 120" Vertical Boring Mill, 2-Ram Heads, 75 HP, 120" 4-Jaw Slotted Table, 124" Swing, 72" Under Rail	1	Pre-machine and machine cylindrical and conical OD, ID, and face surfaces on very large crusher parts and other manufacturing equipment	
2	Craven 72" Vert. Boring Mill, 30HP, 2 Ram Heads, 72" 4-Jaw Slotted Table, 80" Swing, 80" Under Rail	1	Pre-machine and machine cylindrical and conical OD, ID, and face surfaces on large and medium crusher parts and other manufacturing equipment	
3	Motch 148 4 Axis CNC Vertical Turning Center, 48" 4-Jaw Chuck, 60" Swing, 48" Under Rail, Live Tooling, Turning and Milling Capability	1	Precision machine large bushings, pump and gearbox housings, and custom replacement parts, repeatable turning and milling operations for multiple batch runs	
4	Bullard Vertical Turret Lathe, 34", 26" Under Rail	1	Pre-machine and machine cylindrical and conical OD, ID, and face surfaces on smaller crusher parts and other manufacturing equipment	
<i>Horizontal Turning Capability</i>				
5	Smart NL 6000XLM CNC 36" x 126" 3-Axis Lathe, 41" swing over bed, 50/70 H/P, live tooling, 24" 3-Jaw chuck, 8 in hole through the bore, cnc milling 3rd axis, turning and milling	1	High Precision replacement shafts, bushings, and precision parts, repeatable CNC capability for small batch runs, heavy and larger shafts and other parts	
6	Lagun 24120 CNC Lathe, Type L-TTP-2, 24" Chuck x 120" Bed, 4.13" Hole Through Bore, Fanuc Oi-Mate-TC Controls	1	High Precision replacement longer shafts, bushings, and precision parts, repeatable CNC capability for multiple parts	

7	Doosen Puma 300LC CNC Lathe 12" Chuck x 53" Slant Bed, 23" swing x 18" turning dia. 4" bar cap., 12 station turret tool holder, Fanuc 21iTB Controls	1	High Precision replacement shafts, bushings, and precision parts, very fast repeatable CNC capability for multiple parts	
8	Craven 72"x 330" Engine Lathe, 60" 4-Jaw Face Plate, 20" Dia Steady Rest, 36" width bedways, threading capability	1	Precision machine very large shafts, weld repair on cylinders and shafting, machine accentric shafts with 4 jaw chuck, turn pipes and long parts, horizontal weld build up	
9	American 76" x 360" Engine Lathe, 4-Jaw Face Plate, 68" 4-Jaw Chuck, (2) Steady Rests	1	Precision machine very large shafts, weld repair on cylinders and shafting, machine eccentric shafts with 4 jaw chuck, turn pipes and long parts	
10	Climax PL1150 Portable Lathe, 5" -12" shaft diameter Cap.	1	Shop and field weld repair on stub shafts and bearing surfaces for in place shafts	
11	Axelson A25 Engine Lathe, 26" x 96", 2.5 Spindle Hole	1	Turning operations for heavy large diameter shafts and pins, heavy material removal for prepping for precision machining	
12	Summit 30-4 Engine Lathe, 34" x 140", taper attachment, gap, tooling, 4" spindle hole	1	Turning operations for large diameter shafts, pins, bushings, collars, medium to larger turned parts	
13	Summit 23 Engine Lathe, 26" x 140", taper attachment, gap, 2 axis DRO, gap, 4" spindle hole	1	Turning operations for large shafts, pins, bushings, collars, medium to larger turned parts	
14	Cincinnati 17 Engine Lathe, 18" x 64", taper tooling, 1.75" spindle hole	1	Turning operations for medium sized shafts, pins, bushings, collars, smaller to medium turned parts	

15	Graziano Sag17 Engine Lathe, 17" x 60", taper attachment, 2" spindle hole	1	Turning operations for medium sized shafts, pins, bushings, collars, smaller to medium turned parts	
<i>In Line Boring</i>				
16	Plauert-Wetzel Horizontal Boring Machine, 4" Spindle, 5' x 6' Table, 60" x 84" x 48" Travels, w/ (2) 2-Axis D.R.O.'s	1	In-line boring on loader booms, buckets, and frame structures, ID boring of very large parts, face machining and manual hole patterns	
17	Climax BB6000 Boring Machine, Boring bar 3 dia" x 216" long, Cuts Bores 4" - 28" dia.	1	Shop and field repair on in line bores on very large buckets, booms, joints, large bearing surfaces	
18	York 14-4 Portable Line-Boring Machine, Boring bar 2" dia. X 96" long, Cuts Bores 3" - 10" dia.	1	Shop and field repair on in line bores on buckets, booms, joints, bearing surfaces	
19	Boretech Bore Portable Welding Machine, Bores 1" to 20" dia.	1	Shop and field welding device for use with in-line boring bars	
<i>Horizontal Milling Capability</i>				
20	Giddings and Lewis Horizontal CNC Mill Center, 5" Spindle, 4' x 11' Table, CAT50, 48" x 120" Cap. Cross Travel 18", Heidenhein Controls, Full 3 axis contouring control	1	CNC machine very large frames, table mount surfaces, flange facing, hole patterns, tread milling, machining large pumps and machinery	
21	Kearner & Trecker Horizontal CNC Mill Center, CAT50, 3.4 ' x 8' Table, 40" x 96" Cap. Cross Travel 18", Centroid Controls	1	CNC machine large frames, table mount surfaces, flange facing, hole patterns, tread milling, machining large pumps and machinery	
<i>Vertical Milling Capability</i>				

22	Smart SM 1165 CNC Vertical Machining Center, CAT40, Table 48" x 25", 44" x 26" x 24" Travel, 8000 rpm, Fanuc Oi-MF Controls	1	Very high precision machining on complex parts, fully programmable, hole patterns, thread milling, face machining, highly repeatable for small batch runs	
23	Quantum Q-2000V Vertical CNC Machining Center, CAT 50, Table 80" x 33", 80" x 35" x 32" Cap., 6000 RPM, Fanuc 18i-M Controls,	1	High precision machining on larger complex parts, fully programmable, hole patterns, thread milling, face machining, highly repeatable for small batch runs.	
24	Lagun FT-1 Verical Milling Machine, Vari-Spd, Power Feed, 9" x 42" table, power feed, 2-Axis DRO	1	Machining tooling and smaller parts manually	
25	Alliant Vertical Milling Machine, veri-speed, Power Feed, 9" x 42" Table, 2-Axis DRO	1	Machining tooling and smaller parts manually	
26	Comet Vertical Milling Machine, Veri-speed, 9" x 42" Table	1	Machining tooling and smaller parts manually	
<i>Manual Drilling Equipment</i>				
27	Cincinnati Bickford Super Service Radial Arm Drill, 12" Column x 48", w/ Box Table, hole in floor for long shaft end drilling	1	Drill patterns on very large parts, drill ends of long shafts, very heavy duty drilling operations	
28	Archdale 8' Radial Arm Drill, 22" Column x 96"	1	Drill patterns on very large parts, very heavy duty drilling operations	

29	Walker-Turner 1143-41 Drill Press with Machine Vise	1	Drill patterns on small to medium parts, general shop manual small drilling operations	
<i>Pressing Capability</i>				
30	Niles 600-Ton Horiz. Wheel Press, 270" Max Distance Ram to Resistance Bar, 24" Stroke, 97" Between Strain Bars, 12.75" Resistance Block Hole, 16" Ram Diameter, Adj Center Support, 40/55 HP	1	Press apart very large crushers and other machinery for rebuilding or repair	
31	150-Ton Vertical H-Frame Press, 80" Max Ram to Resistance Bar, 12" Stroke	1	Press apart medium sized equipment and bearings for rebuilding or repair	
32	KR Wilson 37K 100-Ton H-Frame Press, 20" Max Ram to Resistance Bar, 10" Stroke	1	Press apart smaller sized equipment and bearings for rebuilding or repair	
<i>Welding Process Equipment</i>				
33	Ransome 6x6 Welding Manipulator, 8' Horizontal x 8' Vertical Arc Travel, 440V, w/ Hobart HMC-1 Submerged Arc Welder, w/ Lincoln DC-1000 DC Power Supply	1	Sub-Arc weld large parts on the positioner for even and consistent, easily machinable, weld overlay	
34	Multiple Mig and Tig Welders, Wire Feeders, and Shop and Field Welding Equipment up to 1000 Amp	15+	Mig Welding for weld repair, weld build up, various fabrication, and other shop applications. Mig welding, Tig welding, stick welding processes of all weldable materials	
35	CF 200 Welding Positioner, 20,000 Lb. Cap, Speedcon Electronic Control, 84" Dia. Table	1	Turn large and heavy crusher parts, cylinders, housings and other parts slowly and consistently for sub-arc weld overlay weld repair process	

36	Teledyne Readco UPC-25 Welding Positioner 2500 LB. Cap, Electronic Control, 42" Dia. Table with 90 deg Tilt	1	Turn medium sized crusher parts, cylinders, housings and other parts slowly and consistently for weld overlay weld repair process	
37	Pandjiris TA12.5 Welding Positioner, 16" 3-Jaw Chuck		Turn small sized cylinders, bushings, stub shafts, and other parts slowly and consistently for weld overlay weld repair process	
<i>Key Seater</i>				
38	Mitts & Merrill No. 2 Keyseater, Up to 2" key size, 18" Key Stroke	1	Machine Internal keyways in bushings, couplers, and housings key sizes vary up to 2" wide keyway	
<i>Sawing Process Equipment</i>				
39	Multiple Power Saws, Hydraulic Semi- Automatic Band Saw, Power Hacksaw, Horizontal and Verical Band Saws, up to 20" dia. Capability	5+	In house cutting of raw materials	
<i>Measring Equipment</i>				
40	Keyence wide Area CMM VMI-6000, 3-point in space portable handheld 3D laser scanner dimensional probing system, drawing production software, measurement range up to 82'	1	Critical tolerance measurement for quality control on small to very large parts, reverse engineering, quality documentation	
41	Precision OD/ID Gages Up to 72", Gage Qualification Standard Kit, Multiple Sizes for Small to Large Manual Measurement	25+	Critical tolerance measurement for quality control on small to very large parts, quality inspection in the repair and manufacturing process	
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