

PLANT REQUIRED FOR ENGINE FACTORY

LATHES

Complete with equipment
Price in Dollars of 07

Engine Lathes

2	Hardinge Bench Lathes (1 with grinding attachment)	2875	1750
3	Lang Junior 13" x 6'	(1 bought)	
2	" " 17" x 6'	" "	
1	" 16" Gap Lathe	(bought)	
1	Toolmakers 16" Dean, Smith, & Grace	"	
1	" 14" Holbrook	"	
1	Sundstrand Stub Lathe		8700
1	Lodge & Shipley 18" x 6'		4000
1	Lodge & Shipley 24" x 8'		5000
1	Gardner Crankshaft Lathe		8000

Turret Lathes

2	Ward No. 2A	(1 bought)	
4	Ward No. 7 (or W & S No. 4)	(1 bought)	
2	Herbert No. 7 or Ward (1 bar) (1 chucking) 3"	2500	11600
1	Gisholt No. 3L		8000
1	Potter and Johnson No. 6 D (with extra turret)		11000
1	Bullard Vertical 24"		8000
1	Bullard Vertical 36"		11000
1	Fay automatic		12000
1	Drummond Maxicut No. 2A		12000
3	Index Automatics 52 m/m, 36 m/m, 24 m/m	(bought)	

DRILLING MACHINES

2	Single Spindle "Corona"	(bought)	
2	" " "Webb"	"	
1	" " Archdale No. 2220	"	
2	2 Spindle Archdale No. 2221	(1 bought)	
3	2 Spindle Avey Direct Motor Driven No. 2 (15" overhang) $\phi 1200$		3600
3	4 " " " " " " " (12" ") $\phi 2150$		6450
3	No. 263 Barnes Upright	$\phi 2500$	7500
5	No. 14521 Archdale 28" Upright	(1 bought)	
1	3' x 11" Carlton Radial		
3	3'-6" Asquith Radial Type OD1	(1 bought)	
<u>Special</u>	1 Special Natco (for Valve pockets)		6200
	1 " Leland Gifford 2 Spindle (for Rocker Gear)		1550
	1 " " " " " (for Spark Plug Holes)		1550

MILLING MACHINES

Horizontal Milling Machines

1	Parkinson Universal	(bought)	
1	Thiel Universal	"	
1	Archdale 28" Horizontal	"	
1	" 20" "	"	
2	3K Milwaukee "	@ 5100	10200
1	2K " "	#	4750
1	1H " "		2600
1	No. 2 Cincinnati Horizontal (Medium Speed)		4600
1	2MH " "		3700
Hand Milling Machines, 5"			
3	Herbert No. 0 Hand Milling Machines	(bought)	
1	Shutte Type S.F.N. Keyway Miller	(bought)	

Vertical Milling Machines

1	Bernatski Vertical	(bought)	
1	2M Cincinnati (with cam milling attachment)		5500
1	2M " (rot table)		4400
1	No. 3 " " "		6800
2	3B Milwaukee " "	@ 4400	8800
1	3K " " Indexing		8200
1	No. 12B Pratt & Whitney Profile Miller (with 9" blocks)		3000
1	Archdale Vertical (with rot table)	(bought)	

Thread Milling Machines

1	Hanson Whitney 4" x 7"		3700
1	" " 7-1/2" x 11-1/2" (with soft jaw chuck)		5100
1	" " 10" x 24" Special (19" swing, 6" extra rack length)		6500

GRINDING MACHINES

<u>Universal</u>	2	- Churchill Hydraulic 12" x 36"	(1 bought)	
<u>Cylindrical</u>	1	Norton 10" x 36"		4500
	1	Norton 23" x 36"		8000
<u>Crankshaft</u>	1	Churchill Hydraulic 26" x 50		13500
<u>Surface</u>	1	Pratt & Whitney 14" x 36" (with mag chuck) Hydraulic		6500
	1	No. 22 Heald (all belt driven) (with mag chuck)		4000
	1	Abrasive Surface Grinder		2000
<u>Chucking Internal</u>	1	No. 24 Bryant (with 9" blocks)		11000
	1	" 16-- 38 Bryant (with extra heavy spindle)		8500
<u>Internal</u>	2	Heald Sizematic Hand & Hydraulic	2 7000	14000
<u>Gear Grinders</u>	1	9" Pratt & Whitney		7000
	1	Detroit (for Orcutt) Internal & External		10000
<u>Thread Grinder</u>	1	Excello (small)		5500
<u>Cam Grinder</u>	1	Landis 14' x 36" Type C		6000
<u>Centreless</u>	1	Cincinnati		6200
<u>Hand Grinders</u>	2	Kellerflex	2 300	600
<u>Tool Grinders</u>	1	Churchill Surface Hydraulic 18" x 6"	(bought)	
	1	Cincinnati No. 2	"	
	1	Brown & Firth Twist Drill Grinder	"	
	1	Asquith Twist Drill Grinder	"	
	1	Union Twist Drill Hob Grinder		2000
	1	Grand Rapids Tap Grinder		500
	1	Keller Radius Grinder		800
<u>Special</u>	1	Pembroke Table Surface grinder	(bought)	
	2	Quickcut Bench grinders	(bought)	

MISCELLANEOUS TOOLS

Complete with equipment
Prices. f.o.b.

<u>Vertical Shaper</u>	1	Pratt & Whitney 6" (6" blocks)		4100
<u>Gear Shapers</u>	1	Fellows Type Z		8000
	1	" No. 7		5500
	1	Gleason No. 12 Bevel Gear Generator		8000
	1	Barbear Colman Hobbing Machine		6500
<u>Lapping & Polishing</u>	1	Norton Lapper (Concentric)		900
	1	Taft-Pierce Lapper for Crankpins		2200
	1	Cincinnati Centreless Lapper		6700
	2	Gardner No. 3 Polishing Jack	2700	1400
	2	Diamond No. 10 " "	2310	620
	1	Standard Gardner Disc Grinder		1500
<u>Boring Machines</u>	1	Excello No. 215 Senior Double End	(bought)	
	2	Excello Hydraulic Units Type 23A	"	
	1	"Genevoise" Hydroptic B, Jig Borer	(bought)	
	1	Pearn & Rickards No. 2	(bought)	
<u>Miscellaneous</u>	1	Spacial Spotfacing Machine (P.W.A.)		1000
	1	" Water Test Stand (P.W.A.)		1000
	1	Exact Weighing Machine		300
	1	60 ton Watson Stillman Press		850
	1	Lapointe Broaching Machine 3-1/2 L		4700
	1	Gisholt Balancing Machine		5600
	1	Racine Oil Cut Hacksaw		670
	1	Fortuna Hacksaw	(bought)	
	1	Magnaflux (Metrovick)		2000
	1	Vickers Hardness Tester	(bought)	
	1	Rockwell Hardness Tester		500
	1	Brinell Hardness Tester		500
	1	Morse Straightening Press (strengthened type)		700
	1	Plating Plant for Copper, tin & cadmium (with all accessories)		
	1	Sandblast (hand type) Pangborn or Jackman		800
	1	Hardening & Carburizing Furnace Electric, 2' x 2' x 5'		
	2	Hardening Furnaces, Electric 15" x 15" x 24"		
	1	Tempering Furnace, Homo or Weld Barfield		
	1	Oil Quench bath 3' x 4' x 3' deep (with oil cooling)		
	1	Nitriding Furnace		
	1	Butler Toolroom Shaper 8-1/2"	(bought)	
	1	" Super Shaper 22"	"	
	1	No. 16 Thiel Combined Sawing & Filing Machine	"	
1	Roller Marking Machine	"		
1	Wet Tool Grinder "Coventry"	"		