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INVENTORY OF MACHINERY  
IN TSU ARSENAL.

20<sup>th</sup> APRIL 1946

62-14  
23 April 46.



List of machine Tsn. Arsenal.

Kind of machine	quantity	makers	remarks
Bench lathe	10	Sugimura kogyō	
"	15	Fuji Seisaku	
"	9	Naigai seiki	
"	1	Sansei seisaku	
"	2	Rikagaku kenkyū	
Lathe	82	Watanabe tekko	
"	2	Riken Kogyo	
"	5	Tokyo Seiki	
"	4	Ehime moto-tekko	
"	1	Osaka tekko	
"	3	Okuma tekko	
"	5	Hokuriku kikai	
"	1	Okumura seisaku	

140



134

Pathe	1	Washino	Seiki
"	2	Nagoya	Shuden
"	3	Saga	Seisaku
"	4	Roku-Roku	Banki
"	5	Shanghai	Iron
"	6	Isuda	tekko
"	7	Mitsubishi	K
"	8	Karaten	tekko
"	9	Showa	Kikasha
"	10	Hokuriku	Kikai
"	11	Osaka	Kosaku
"	12	Isuzuki	tekko
"	13	Mitsubishi	Kosaku



No. 2

14.

Lathe	1	1	Osaka kikai
"	2	1	kiryu kikai
"	3	1	Mitsubishi demki
"	4	3	Ikezai tekko
"	5	5	Shoun kosaku
"	6	1	kurita tekko
"	7	1	Shimamoto tekko
"	8	2	Saga kosaku
"	9	3	Nigata tekko
"	10	1	Akuma tekko
"	11	1	Shanghai Iron
"	12	2	"
"	13	3	Shanghai Iron
"	14	30	"

30  
55



142

Lathe	1	3	Mitsubishi kosaku
"	2	5	Monach
"	3	3	Tsuyuki tekko
"	4	5	Toyo tekko
"	5	6	Takizawa tekko
"	6	2	Hirao tekko
"	7	4	Matsushita kinyoku
"	8	3	Ikegai tekko
"	9	1	Fuji seisaku
"	10	1	Niigata tekko
"	11	1	Okuma tekko
"	12	2	Mitsubishi kosaku
"	13	1	Okuma tekko
"	14	1	American tool



No. 3

Lathe	21	Okenma tekko
"	11	Andrusse . 6
"	21	Monach
"	11	Hirao tekko
Surface lathe	51	Osaka juko
Special lathe	51	Chuo seiki
Universal lathe	11	Ikegai tekko
Turret lathe	31	Teikoku seimita
"	31	Osaka-piston
Turret lathe	3-1	Fukyo-kikai
"	11	Mitsubishi koraku
"	11	Fukyo kikai
"	11	Mitsubishi koraku
"	41	Hitachi seiki

24



147.2

Turret lathe	1	1	Mitsubishi kosaku
"	2	1	kiryu kikai
"	3	3	
"	4	2	Hitachi seiki
"	5	2	
"	6	1	Teikoku seimitsu
"	7	2	Warner swage
"	8	1	Alfred Harbarr
"	9	1	Warner swage
"	10	1	"
"	11	1	Hitachi seiki
"	12	2	"
"	13	1	
"	14	1	Haratsu tekko



No. 4

1 T.L.  
1 V.T.L.  
5 S.C.L.  
6 aut.  
1 slaving

Turret lathe	1	Okuma tekko
Vertical turret lathe	1	Karatsu tekko
Screw cutting lathe	2	Yashiki seisaki
"	1	Trugami seisaku
"	1	Okuma tekko
"	3	Fujikoshi seisaku
"	1	"
Automatic multi aut. lathe	3	Mikamo seisaku
"	6	Mitsubishi koraku
"	3	Joyoda koki
"	2	"
"	5	Yamatake Co.
"	1	Hitachi seiki
Slaving lathe	5	Tokyo seiki

1/2  
1/2



2 February  
 1 L.  
 1 T.M.  
 9 H. M.M.

Leaving lathe	1	Mitsui seiki
"	1 <sup>400</sup>	Akiboku hikai
Lathe (Crank-pin)	1 <del>2</del>	Niigata tekko
Tapping machine	2	Koki shokai
Horizontal milling machine	3	Eguro tekko
"	2	Watanabe tekko
"	3	
"	1	Aiken Kogyo
"	1	Ohwa seiki
"	42	Tomicka seisaku
"	5	Kawashima hikai
"	8	Ota furaisa
"	1	Shanghai iron
	1	Kageyama hikai



No. 5

14 H. M. M.

Horiwatal	milling machine	5	Tokyo seiki
"	"	2	Shirakawa seiki
"	"	3	Brown shop
"	"	4	Daikeo kikai
"	"	5	Hidachi seiki
"	"	6	Garu donki
"	"	7	Ansinati Co.
"	"	8	Enryu kikai
"	"	9	Watanabe tekko
"	"	10	Hokuriku kikai
"	"	11	Hitachi seiki
"	"	12	Okuma tekko
"	"	13	Hidach seiki
"	"	14	Woko seisaku



3H. M.M.	Horizontal milling machine	3'	Karne toricker
11V. M.M.	"	5' 10"	Suzuki shokki
	"	2'	Hitach seiki
	Vertical milling machine	2'	Tanaka kikai
	"	1'	Enshu kikai
	"	1'	
	"	1'	Watanobe tekko
	"	5'	Enshu kikai
	"	14'	Kyoto koraku
	"	5'	Kageyama kikai
	"	1'	Hitachi seiki
	"	2'	Tsubota tekko
	"	4'	Asaka kikai
	"	1'	Asaka kikai



No. 6

13V. m. m.  
15 m. m.

Vertical milling Machine	3 <sup>1/2</sup>	2	Kame Toucher
"	3 <sup>1/2</sup>	1	Suzuki shokki
"	4 <sup>0</sup>	2	Shizuka tekko
"	4 <sup>1</sup>	2	Osaka tekko
"	5 <sup>1/2</sup>	3	Kinoshita tekko
"	6 <sup>1/2</sup>	1	Garu denki
"	7 <sup>1/2</sup>	1	Hitachi seiki
"	8 <sup>1/2</sup>	1	Kame toucher
"	9 <sup>1/2</sup>	2	
"	10 <sup>1/2</sup>	2	Yaman tekko
"	11 <sup>1/2</sup>	4	Osaka tekko
"	12 <sup>1/2</sup>	1	Hitachi seiki
"	13 <sup>1/2</sup>	1	Hanyu kan
Special milling machine	11	1	Y. u. kana denki



1	Horizontal groove milling machine	2'	Enshu kikai
2	Tool milling machine	1'	Riken kogyo
	" 3 5"	1'	Shiko kikai
1	Profile milling machine	1'	Riken kogyo
2	Propeller profiling machine	2'	Sumitomo kogyo
	"	2'	Engineering Co.
1	Thread milling machine	7'	Nyamaki seiki
	" 6"	8'	Tanigami seiki
	" 5 1/2"	1'	"
	" 5"	1' 200	Hanson whitney
1	Planing machine	1'	Matsumoto chuzo
2	Sharpening machine	1'	Toyo kogyo
	"	1'	"



No. 7

11.5.m

Sharpening machine	1	Nakagawa hikai
"	1	Roku-roku banki
"	2	Tayo hikai
"	5	Mimasu seisaku
"	1	
"	4	Ito hikis
"	1	Bekiguchi teleko
"	1	Baito seisaku
"	4	Akuma teleko
"	2	Ashida teleko
"	1	Nakajima seisaku



No. 1

10 S.M.  
3 B.D.M

Slotting Machine	2	Kaneko	tekko
"	2	Roku-Roku	shoten
"	2	Hiraiwa	tekko
"	1	Shimizu	tekko
"	1	Yamatoka	Co.
"	2	Kaneko	tekko
"	2	Tukui	tekko
"	1	Showa	tekko
"	3	Kaneko	tekko
"	2 <sup>4</sup>	Shibayama	tekko
Bench Drilling Machine	3		
"	1	Hitachi	Seiki
"	1	Takubeta	tekko



4 B. O. M.  
10 D. M.

Bench Drilling Machine	1	1		
	1	1	Akima	Tekko
	1	1	Goa	Tekko
	1	1	Tathei	Denkei
Drilling Machine	1	1	Ito	kikai
	1	1	Mitsubishi	Kosaku
	7	1	Seiken	kikai
	3	1	Maeda	Kosaku
	2	1	Takagi	Kosaku
	1	1		
	4	1	Mitsubishi	Kosaku
	1	1	Agawa	tekko
	2	1	Mitsubishi	Kosaku
	1	1	Lernand	caford



3 D.M.

3 Drilling Machine	2	Joho Boeki
	3	Aoki Tekko
Multi spindle drilling machine	3	Mitsubishi Kosaku
Drilling Machine	1	
Multi spindle drilling machine	1	Mitsubishi Kosaku
	1	
	1	Wells Co.
	1	Goyoda Koki
Radical Drilling Machine	2	Dai Nippon Koki
	1	Shindo Seisaku
	1	Minowa juke
	5	Dai Nippon Koki
Radical Drilling Machine	1	Ikega Tekko
	2	Fuji Seisaku



2	Special Drilling Machine	1 ✓	Natoko	
	"	1 ✓	Inomura	tekko
2	Horizontal Drilling Machine	2 ✓	Riken	kegys
	"	1 ✓ <sup>64</sup>	Tokyo	kiki
3	Boring Machine	X ✓	Osaka	Suisaku
	"	X ✓	Ikegai	tekko
	"	X ✓	Nagaha	tekko
3	Fine boring Machine	2 ✓	Gogoda	koki
	"	1 ✓		"
	"	2 ✓	Niigata	tekko
3	Jig boring machine	1 ✓	Proth	Whitney
	"	2 ✓	Mitsui	Suiki
	"	1 ✓	Goyo	Suiki
1	Gear hobbing machine	11 ✓	Hanai	kikai



no. 3

3	Gear hobbing machine	2	Kashifuji tekko
	"	2	"
	"	1	Karatsu tekko
3	Gear Shaping Machine	3	Iowa koraku
	Check age	1	Fellow Co
		1	Idamai kikai
1	Spline hobbing Machine	1	Karatsu tekko
8	Universal Grinding Machine	1	Riken kogyo
	"	3	Wachigai kikai
	"	2	Sekiyama Co
	"	3	Koyanagi koraku
	"	3	Shonan koki
	"	2	Yamato tekko
	"	1	"
	"		"



11	Internal Grinding Machine	1	Randic Co
	"	5	Nikuro Seisaku
	"	6	Togyo Kogyo
	"	1	"
	"	1	"
	"	1	Shonan Koki
	"	2	"
	"	1	Tokyo Seiki
	"	1	Blyant Co.
	"	1	Hamada Seiki
	"	1	Blyant Co.
	"	1	Heald Co.
2	Plain Grinding Machine	5	Shonan Koki
	"	1	Okuma Tekko



H-6

5	Plain Grinding Machine	3	Okuma Tekko
	"	3	Mitsui Seiki
	"	2	Osaka Kiko
	"	1	Rinnekei Co
	"	1	Norton Co
10	Surface Grinding Machine	4	Kokoku Sangyo
	"	2	Tokyo Seiki
	"	1	Hamada Seiki
	"	1	"
	"	2	Riken Sangyo
	"	1	Washino Seiki
	"	1	Hitachi Seiki
	"	1	Heald Co.
	"	1	Blanchard Co



	1	Koyo Seiki
3 Centerless Grinding Machine	2	Nippon Kenma
	1	
	2	Kitto Kenma
1 Bench Grinding Machine	5	Izumi Seisaku
1 Profile Grinding Machine	1	Osaka Seikai
1 Snap Gauge Grinding Machine	1	Mitsui Seiki
1 Thread Grinding Machine	2	Washino Seiki
1 Angle Slide Grinding Machine	4	Akuma Tekko
1 Clank pin Grinding Machine	1	Nigate Tekko
1 Tool Grinding Machine	5	Yamaguchi Seiki
	1	Mizuho Denki
	2	Shonan Koki
	100	Takahata Seisaku



8	Tool Grinding Machine	5	Asahina Kagaku
1	Profile Grinding Machine	1	Washim Seiki
	Tool Grinding Machine	1	Hidachi Seiki
	"	1	Taihei Denki
	"	1	
	"	7	
	"	1	Joyo Kogyo
	"	1	Motuchi Seisaku
	"	1	Kokusen flos
2	Universal Grinding Machine	1	Karatou tekko
	"	1	Gakahata Seisaku
3	Cutter Grinding Machine	1	Maeda Kogaku
	"	5	Gakahata tekko
	"	1	Karatou tekko



		1		
3	Cutter Grinding Machine	1		
		1		
1	Blotch Shaper	3	Fujikoshi	Kagi
1	Drill Grinding Machine	1	Ashima	Seisaku
3	Gear Grinding Machine	1	Okamoto	Kosaku
	"	1	Howa	Juko
	"	1	Kudachi	Seiki
3	Gear Lapping Machine	1	Okamoto	Kosaku
	"	1		
	"	1		
1	Universal Lapping Machine	1		
7	Honing Machine	1	Osaka	Kiko
	"	1	Yamaguchi	Seiki



No. 6

1	Honing Machine	1	Aoba Seisaku
2	Broaching Machine +	1	Rapoint Co
		2	Fujikoshi kozai
1	Surface Machine	1	Fujikoshi kozai
5	Heck sewing Machine	6	Hodogaya tekko
		1	Washino seiki
		2	Nippon retrudor
		1	Okuma tekko
		1	Roku Roku Linki
1	Circuler sawing machine	1	Konan kozai
3	High Speed Cutting Machine	6	Yamashita tekko
		3	Nippon Koraku
		1	Toho Toishi
2	Centering machine	2	Odai tekko



	2 ✓	Pratt Whitney
Polishing Machine	1 ✓	Gardner Co
Wood Lathe	1	Akimoku kikai
"	4	Nippon mokko
"	1	Futami shoten
"	1	Nippon mokko
"	1	Akimoku kikai
"	6	Shoda tekko
Band swing machine	1	Ishizuka kikai
"	1	Uroko seisaku
"	1	Nippon mokko
"	2	Akimoku kikai
"	1	"
Wood Circular swing M.	1	Michizuki tekko



Wood Drilling Machine	1	Zenma	
Wood plane machine	1	Nippon mokko	
Band sawing Machine <sup>grinder</sup>	1	Kawahaseya	
Wood Milling Machine	2	Kikukawa tekko	
Hand plane machine	1	Mori takezo seisaku	
Moulding Machine	10	Kubota seisakusho	
"	6	"	
"	9	"	
"	1	"	

1417



List of Electric Instruments

Kind of machine	quantity	maker	Remarks
Transformer	1	Osaka Honatuki	5 K.V.A
"	2	"	10 "
"	3	"	200 "
"	4	"	200 "
"	5	Naisui denetsuki	25 "
"	6	Hitachi	20 "
"	7	Hitachi, Osaka	10 "
"	8	Osaka, Hitachi	5 "
"	9	Osaka Honatuki	200 "
"	10	Hitachi	20 "
"	11	"	20 "
"	12	Osaka Honatuki	50 "
"	13	Hitachi	20 "
"	14	"	20 "

P 1

15 Transformer	3	Hitachi	10 K.V.A
"	2	"	20 "
"	2	Osaka Honatuki	100 "
"	4	Hitachi	20 "



"	"	"	20	"
"	"	Osaka Henatuki	50	"
"	"	Hitachi	20	"
"	"	"	20	"
P 1				
15 Transformer	"	Hitachi	10	KVA
"	"	"	20	"
"	"	Osaka Henatuki	100	"
"	"	Hitachi	20	"
"	"	"	20	"
"	"	"	10	"
"	"	"	20	"
"	"	Osaka henatuki	200	"
"	"	Hitachi	20	"
"	"	"	20	"
"	"	Osaka henatuki	5	"
"	"	Hitachi	10	"
"	"	Naigai dennituki	10	"
"	"	Osaka henatuki	20	"
"	"	Hitachi	10	"



Transformer	2 <sup>101</sup>	Hitachi	
"	3'	Meidensha	
"	3'	Hitachi	20
"	3'	Osaka kenatsuki	20
"	1'	"	20
"	3'	"	
"	8'	Hitachi	
"	2'	Osaka kenatsuki	10
"	5'	Hitachi	20
"	1'	Osaka kenatsuki	5
"	2'	"	0
"	4'	"	1
"	2'	"	5
"	2'	"	10
"	2'	"	



Transformer.	2 ✓	Osaka kenatsuki.	10	100
"	4 ✓	"	5	"
"	4 ✓	"	10	"
"	2 ✓	"	10	"
"	2 ✓	Hitachi.	5	"
"	3 ✓	"	10	"
"	2 ✓	Osaka kenatsuki.	10	"
"	2 ✓	Hitachi.	20	"
"	4 ✓	"	10	"
"	1 ✓	Osaka kenatsuki.	15	"
"	3 ✓	"	30	"
"	1 ✓	Osaka kenatsuki.	15	"
"	2 ✓	Sibauro.	10	"
"	2 ✓	Osaka kenatsuki.	10	"
"	2 ✓	"	10	"



Transformer	1 ✓	Osaka kenatuki	15	K.V.A.
"	2 ✓	Silaura denki	10	"
"	2 ✓	Osaka kenatuki	10	"
"	1 ✓	"	10	"
"	1 ✓	"	10	"
"	2 ✓	"	5	"
"	2 ✓	Hitachi	20	"
"	3 - 20 ✓	"	20	"
"	2 ✓	Osaka kenatuki	5	"
"	1 ✓	"	3	"
"	5 ✓	"	10	"
"	2 ✓	"	10	"
"	2 ✓	"	200	"
"	9 ✓	Hitachi	20	"
"	2 ✓	Osaka kenatuki	5	"

F. P. 3

Transformer	7 ✓	Hitachi	10	K.V.A.
"	2 ✓	Osaka kenatuki	20	"
"	3 ✓	"	99	"
"	1 ✓	Hitachi	30	"



"	2 ✓	"	10
"	2 ✓	"	200 "
"	9 ✓	Hitachi	20 "
"	2 ✓	Osaka Penatuki	5 "
E P 3			
Transformer	7 ✓	Hitachi	10 KVA
"	2 ✓	Osaka Penatuki	20 "
"	3 ✓	"	99 "
"	1 ✓	Hitachi	30 "
"	2 ✓	"	50 "
"	36 ✓	"	5 "
"	2 ✓	"	15 "
Motor	79 ✓		
3 Phase series motor	67 ✓	Tōhō	Commutator motor.
	14 ✓		



Electric heating furnace	4 ✓	Kyoutsu denki	120 K.W.
" - ace	2 ✓	"	" "
"	2 ✓	"	" "
"	3 ✓	"	40 "
"	6 ✓	Asahi kaiheiki	120 "
"	3 ✓	"	200 "
"	1 ✓	Matsushita denki	100 "
"	1 ✓	"	40 "
"	1 ✓	Asahi kaiheiki	120 "
Air mixer heating	1 ✓	Fuji denki	85 "
" - furnace	1 ✓	"	90 "
Electric heating furnace	1 ✓	Daido secho	30 "
Electric salt Bath	2 ✓	Nippon denki	30 "
"	1 ✓	Kiyaritsu denki	400 "
"	2 ✓	Atsuki seisaku	180 "
			E P 4
Electric salt Bath	2 ✓	Fuji denki	170 K.W.
"	3 ✓	Dengin sha	
"	1 ✓	Fuji denki	55 K.W.
Electric nitroging furnace	1 ✓	"	70x50x120 <sup>cm</sup>



Electric heating furnace	1	Daiho secho	30 "
Electric salt Bath	2	Nippon denki	30 "
"	1	Kiyaritsu denki	400 "
"	2	Akatsuki seisako	180 "
			E P 4
Electric salt Bath	2	Fuji denki	170 K.W.
"	3	Dengin sha	
"	1	Fuji denki	55 K.W.
Electric nitroging furnace	1	"	170 x 50 x 120 <sup>cm</sup>
Clomathe generator	2	"	300 A
Electric drying furnace	4	Kyoutsu denki	40 KW
"	2	Asahi kaiheki	11 "
Electric drying furnace	4	Chino seisako	32 x 35 x 35 <sup>cm</sup>
"	1	Senm seisako	"
Galvanizing apparatus (x ray)	1	Shirai matsu	25 - 100 KW
Current regulator - mercury	1	Nippon denki	100V - 25A
Electric alembic	1	Chino seisako	5 l
Bitz welding machine	1	Dengen sho	125 K.V.A
"	1	Shivaura denki	



4 Generater	1 ✓	Ayūō seisakusho	18 KW
"	2 ✓	Nagayawa denki	16 "
"	1 ✓	Hitachi seisako	100 "
"	1 ✓	Nakajima denki	30 "
1 Diesel generater	1 ✓	Niyata tekko	300 "
2 Magna-Flax	2	Yokogawa denki	200V 15A
"	1	"	50-60 cycle
1 Switch-board	2	Kawanishi kikai	30A 25A 15V



List of the others instruments

Kind of machine	quantity	maker	remarks
1 Water tube boiler	1	Nippon kogaku nikki	
1 Lancashire boiler	1	Wilson CO. John masgrue CO.	
2 Cornish boiler	2	Mie iron works	
"	1		
2 Kewaney boiler			
"			
6 Coal heating furnace	2	Tsu arsenal	
"	1	Tosa Kogyo	
"	1	"	
"	1	"	
"	3	Nippon gyogyo	
"	5	Tosa Kogyo	
1 Coal drying furnace	1	Nippon gyogyo	
1 Cake half inch drying furnace	1	Sanko Kogyo	
2 Tension-tester (+ scale)	1	Tokusayomori	
(matsunori)	1	thushi seisaku	
Tension tester	1	"	
6 Hardness-tester (Brinell)	3		

P.L.



	5	Vippon gyogyo
	5	Toa Kogyo
1 Coal sieve & furnace	1	Vippon gyogyo
1 Cake half inch (sieve) furnace	1	Sando Kogyo
2 Tension-tester (Husler)	1	Tokusa yomori
(Matsunura)	1	Huski seisaku
Tension tester	1	"
4 Hardness-tester (Brinell)	3	Imai shokentki
"	5	Togoshi seiki
"	11	Taniguchi seisaku
" (Rockwell)	4	
"	1	Fuji seisaku
"	4	"
3 Hardness-tester (Vickers)	1	Imai seisaku
"	1	Fuji seisaku
" (Shore)	12	
1 Shock-tester (Kallpy)	2	Tokyo Koki
1 Gear-tester	3	Mitsui seiki
1 Testing machine	1	Akashi seiki

P. 1.







Hokkaido Tekko  
 Sanku nohon  
 Takamura Suisa  
 Kaji Tekko

72

4 Steam hammer	✓	2 Japan Ironworks
"	✓	"
"	✓	Hokuto Tekko
2 Air hammer	✓	Fuji Tekko
"	✓	"
1 Oil press	✓	Komatsu Co.
1 Carb or test. press	2✓	Sheshita Iron works.
1 Crank press	✓	"
1 Punching press	✓	"
1 Screw press	✓	"
2 Press	✓	"
"	✓	"
1 Punching machine	✓	"
1 Crusher	2	"
1 Sand mixer	2	"



1 Sand shifter	2
1 Crane (Trimmer)	1
4 Peplier tender	14
"	80
"	24
"	14
1 Blower	1
1 Sand blast	1
2 Crane	1
"	2
1 Oil cover	1
1 Metal cleaner	1
2 Trimmer	1
"	4
1 Oil sprayer	1
1 Splashing machine	1
1 Moss-ty peniciler	1

F3



List of Machines

Mitsubishi Co.

Kind of Machine	Maker	Quantity	Remarks
2 Radial Drilling Machine	Wakayama	1	
1 Universal Miller	Niigata	1	
4 Surface Lathe		1	
1 Engine Lathe	Osaka Juko	1	
- Surface Lathe		1	
" "		1	
1 Gear grinding machine		1	
1 Surface Lathe	Osaka Juko	1	
1 Turret Lathe		1	
Radial drilling machine		1	
1 Planing machine	Matsumoto Co.	1	



1 Vertical Lathe	Osaka Kitai	1	
1 Friction Press	Nippon Press	1	
1 Crank Press	"	1	
1 Automatic Milling Machine		1	



List of Machine Smitomo Co.

Kind of machine	maker	Quantity	Remarks
1 Lathe		67	
1 Turret lathe		16	
1 Vertical lathe	Niles	1	
1 Automatic lathe	Toyoda	6	
1 Vertical Miller		19	
1 Bench Drill		3	
1 Horizontal Miller		12	
1 Thread Miller		5	
1 Vertical Driller		21	
1 Cylindrical Grinder		6	
1 Internal Grinder		7	



1 Universal Grinder <sup>26</sup>	3	
2 Surface grinder <sup>24</sup>	1	
1 Centerless Grinder	1	
1 Tool grinder <sup>25</sup>	3	
1 Thrutter Slatter	3	
2 Shaper	4	
1 Broaching Machine	2	
Gear Shaper	1	
1 Lathe	31	
1 Automatic lathe	6	
1 Turret lathe	9	
1 Cylindrical Grinder	1	
Surface Grinder		



Kind of machine	maker	Quantity	Remarks
1 Tool Grinder <sup>TR</sup>		2	
1 Lapping machine		1	
1 Vertical miller		3	
1 Horizontal miller		6	
1 Thread miller		13	
1 Vertical Drill		6	
1 Gear shaper		5	
1 Gear Hobbing		5	



2	Transformer	3	Single phase 250 K.V.A
"	"	3	Single phase 200 K.V.A.
1	Battery	1	400 W.
1	Turbine pump	1	110 H.P.



## List of Machines

Aichi

Kind of machines	Maker	Quantity	Remarks
2 Lathe		41	
2 Miller		9	
1 Drilling Machine		6	
1 Grinding Machine		21	
1 Gear Shaper		7	
1 Boring machine		1	
1 Shaper		1	
1 Slotting Machine		4	
1 Miscellaneous		3	
Lathe		25	
Miller		12	



2 Drilling machine	5
2 Grinding machine	37
2 Gear shaper	15
2 Boring machines	0
2 Shaper	2
1 Slotting machine	4
1 Miscellaneous	3
1 Lathe	42
1 Miller	6
Drilling machine	3
Grinding machine	11
Gear shaper	1
Boring machine	1
<del>Slot</del> Shaper	3



Kind of machine	maker	Quantity	Remarks
2 Slotter		1	
2 Miscellaneous		0	
2 Lathe		86	
2 Miller		14	
2 Drilling machine		10	
1 Grinding machine		17	
1 Gear shaper		4	
1 Boring machine		2	
1 Shaper		2	
Slotter		1	
Miscellaneous		1	
Lathe		0	
Miller		4	
Drilling machine		3	



p 3

2 Grinding machine <sup>1</sup>	4
2 Gear <del>shaper</del> shaper	0
2 Boring machine	1
2 Shaping machine	0
2 Slotting machine	0
1 Miscellaneous	0
1 Lathe	16
1 Milling machine <sup>2</sup>	4
1 Drilling machine	3
1 grinding machine <sup>2 5 4</sup>	7
Gear Shaping machine	1
Boring machine	2
Shaping machine <sup>2</sup>	0
Slotting machine <sup>2</sup>	1



Kind of machine	makers	Quantity	Remarks
2 Miscellaneous		1	
2 Lathe		15	
2 Milling machine		6	
2 Drilling machine		1	
2 Gear shaper		5	
1 Boring machine		0	
1 Shaper		3	
1 Slotter		0	
Miscellaneous		0	
Lathe		23	
Milling machine		0	
Drilling machine		2	
1 Grinding machine		11	
Gear shaper		0	



1 Boring machine.		0	
1 Shaper		0	
1 Slotter		0	
1 miscellaneous		1	W. H. Holcomb, Jr. 29 L + FD

S. Mori

Witness by  
 William Lloyd  
 Feb. 8<sup>th</sup> 79.



A  
Production Equipment  
List Of Machine  
Tsu Arsenal



A - Production Equipment

NO 1

RJ

Description	No of Units	Makers	Remarks	
Bench Lathe	10	Suginos Kogyo	no motor	10
"			no part	10
"	15	Fujii Seisaku	no motor	6
"			no part	9
"	9	Kajai Seisaku	no motor	7
"			no part	7
"	1	Sansai Seisaku	no part	
"	2	Riken	no motor	2
Lathe	82	Watanabe Tekko	no motor	38
"			no part	17
"	2	Riken Kogyo	Damages	4
"			no motor	2
"	5	Tokyo Seiki	Damaged	2
"	4	Shinamoto Tekko	no motor	3
"			no motor	
"	1	Osaka Tekko	no part	
"	3	Okuma Tekko	no motor	3
"			no part	2
"	5	Ichiharu Kikai	no motor	5
"			no part	2

Lathe	3		no motor	3
"			no part	0
"	1	Ohnuma Seisaku	Damage	2
"			Damage	
"	1	Washino Seiki	no motor	
"			no part	
"	1	Nagaya Chuan		



			no part	
"	3	Okuma Tekko	no motor	3
			no part	2
"	5	Hokuriku Kikai	no motor	5
			no part	2

Lathe	3		no motor	3
"			no part	0
"	1	Chunara Seisaku	Damage	2
"	1	Wakino Seisaku	no motor	
"			no part	
"	1	Nagaya Shusan		
"	1	Saga Seisaku	no motor	
"			no part	
"	34	Hokuriku Banki	no motor	29
			no part	3
"	2	Shinghai Iron	no part	2
"			no motor	1
"	3	Suda Seisaku	no part	3
"	3	Mitsubishi Kōsaku	no motor	2
"			no part	1
"	1	Karisu Tekko		
"	2	Shima Tekko	no motor	2
"			no part	11
"	17	Hokuriku Kikai	Damage	1
"	5	Osaka Kōza	no motor	5
			no part	3



No2

RJ

"	2	Tsuzuki Tekko	no motor 2
"	1		no part 1
"	4	Mitsubishi Kosaku	no motor 4
"	3		no part 3
"	1	Asaka Kikai	no motor
"	1	Kiryu Kikai	no motor
"	1	Mitsubishi Denki	no part
"	3	Ikkai Tekko	no motor 3
"	2		no part 2
"	5	Shoun Kosaku	no motor 5
"	5		no part 5
"	1	Karita Tekko	no motor
"	1		no part
"	1	Shimamoto Tekko	no motor
"	1		no part
"	2	Suga Kosaku	no motor 1
"	1		no part 1
"	3	Kagata Tekko	no motor 3
"	3		no part 3
"	1	Okama Tekko	no motor
"	1		no part
"	1	Shanghai Iron	no part
"	2		no motor 2
"	1		no part 1
"	3	Shanghai Iron	



Lathe	30	Shanghai Iron	no motor	1
"	3	Mitsubishi Koseku	no part	1
"	5	Mo-nagh	no part	2
"	3	Guzuki Tekko	no motor	3
"	3	Guzuki Tekko	no part	3
"	5	Gogo Tekko	no motor	4
"	5	Gogo Tekko	no part	1
"	6	Takigawa Tekko	no motor	5
"	6	Takigawa Tekko	no part	4
"	2	Idras Tekko	no motor	2
"	2	Idras Tekko	no part	1
"	4	Matsumita Kingoku	no motor	4
"	4	Matsumita Kingoku	no part	2
"	3	Shagai Tekko	no part	3
"	1	Fuji Seisaku	no part	
"	1	Fuji Seisaku	no motor	
"	1	Fuigata Tekko	no part	
"	1	Okama Tekko	no part	
"	1	"	no part	
"	2	Mitsubishi Koseku		



No 3

RJ

Lathe	1	Okuma Tekko	no part
"	1	American Good	no motor no part
"	2	Okuma Tekko	
"	1	Andrew Co	no motor
"	2	Monach	no motor 1 no part 1
"	1	Iidai Tekko	
"			
Surface Lathe	5	Osaka Jukuo	no motor 2 no part 4
Special Lathe	5	Chuo Seiki	uninspection
Universal Lathe	1	Ishigai Tekko	no motor
Turret Lathe	3	Teikoku Seimatsu	no part
"	3	Osaka Piston	no motor 1
"	3	Tokyo Kikai	no motor 1 no part 1
"	1	Mitsubishi Kosaku	no motor

	1	Tokyo Kikai	no part
	1		



Universal Lathe	1	Dokosugi Tekko	no motor
Turret Lathe	3	Teikoku Seimiten	no part
"	3	Osaka Piston	no motor /
"	3	Tokyo Kikai	no motor /
"	1	Mitsubishi Kosaku	no motor /

	1	Tokyo Kikai	no part
	1	Mitsubishi Kosaku	
	4	Hidachi Seiki	no part /
	1	Mitsubishi Kosaku	
	1	Kiryu Kikai	
	3		no motor 3 no part /
	2	Hidachi Seiki	
	2		Damage /
	1	Teikoku Seimiten	no motor / no part /
Turret Lathe	2	Warner Swage	no part
	1	Alfred Harbert	
	1	Warner Swage	
	1		no part
	1		Damage



Turret Lathe	2	Kidachi Seiki	no motor 2 no part 1
"	1	"	
"	1	Haratsu Tekko	no part
"	1	Okeno Tekko	"
Vertical Turret Lathe	1	Haratsu Tekko	"
Screw Cutting Lathe	2	Yoshida Seisaku	no motor 2
"	1	Tsugami Seisaku	no motor nut is dup
"	1	Okeno Tekko	no motor no part
"	3	Fujikoshi Seisaku	no motor 3 no part 2
"	1	"	no motor no part
Automatic multi cut Lathe	3	Mitani Seisaku	no motor 1 no part 2
"	6	Mitsubishi Kosaku	no motor 4 no part 2 nut is dup 2
"	3	Fujida Koki	no motor 2 no part 1
"	2	"	no part 1
"	5	Yamatate Co.	no motor 3 no part 5

RJ



Automatic multi cut Lathe	3	Mikami Seisaku	no motor 1 no part 2
"	6	Mitsubishi Kosaku	no motor 4 no part 2 rust is deep 2
"	3	Fujida Koki	no motor 2 no part 1
"	2	"	no part 1
"	5	Yamatake Co.	no motor 3 no part 5
"	1	Hidachi Seiki	
Leaving Lathe	5	Tokyo Seiki	no part 5
"	1	Mitsui Seiki	no part
"	1	Akiboku Kikai	no motor 1 no part
Crank-pin Lathe	1	Niigata Tekko	rust is deep no motor 1 no part
Tapping machine	2	Koki Shokai	no motor 1 no part 1
Horizontal milling machine	3	Eguro Tekko	no motor 2 Damage 1
"	2	Watanobe Tekko	no part 2
"	2		no motor 2
"	6	Riken Kogyo	no motor 3 no part 3
"	1	Shawa Seiki	no part
"	4 2	Omote Seisaku	no motor 31 no part 21 Damage 1
Horizontal milling machine	5		



ni. 5

Horizontal milling machine	2	Ota Taraishi	no part	2
"	1	Shanghai Iron		
"	1	Huayuan Kikai		
"	5	Tokyo Seiki	no part	4
"	2	Shirakawa Kikai	no motor no part	2 1
"	1	Brown Sharp	no part	
"	2	Daiko Kikai		
"	1	Hidachi Seiki	no part	
"	1	Gasu Denki	no part	
"	3	Cincinnati Co.	no motor no part	2 2
"	1	Esaya Kikai	no part	
"	1	Watanabe Tekko	no motor no part	
"	1	Hokuriku Kikai	no part	
"	2	Hidachi Seiki	no motor	2
"	1	Okama Kikai	no motor no part	
"	2	Hidachi Seiki	no motor	1

RJ



"	1	Ensha Kikai	no part
"	1	Watanabe Tokko	no motor no part
"	1	Hokuriku Kikai	no part
"	2	Hidachi Seiki	no motor
"	1	Oken Kikai	no motor no part
"	2	Hidachi Seiki	no motor
"	2	Utsu Jidaku	no part 2
"	3	Kame Tsurika	
Horizontal milling machine	5	Suzuki Shotai	no motor 5 no part 4
"	2	Hidachi Seiki	no motor 1 no part 1
Vertical milling machine	2	Tanaka Kikai	
"	1	Ensha Kikai	no motor
"	1		no motor
"	1	Watanabe Tokko	no motor
"	5	Ensha Kikai	no motor 5
"	14	Hyo-to Kozaku	no part 7 no motor 9
"	5	Magoyama Kikai	no motor 1 no part 2
"	1	Hidachi Seiki	no motor



Vertical Milling Machine	2	Isubota tekko	no motor 2
	4	Osaka kiko	no motor 4
	1	Osaka kikoi	no part 2
	2	Karne Torcker	no part
	2	Shizuoka tekko	no part 1
	1	Suzuki Shokki	no motor 2
	2		no motor 2
	3	Osaka kiko	no motor 2
	1	Kinoshita tekko	no part 1
Vertical milling machine	1	Gasu Denki	Damage
	1	Hidachi Seiki	no part
Special Milling Machine	2	Karne Torcker	
Horizontal groove milling machine	4	Yuwasa tekko	no part 2
Tool Milling Machine	1	Osaka kikoi	no motor 4
	1	Hidachi Seiki	no part 3
	1	Hayashi kan	no motor
	1		no part 5

no. 6

RJ



	3	Kinoshita Tekko	no motor 2 no part 1
	1	Gasu Denki	Damage
Vertical milling machine	1	Hitachi Seiki	no part
	1	Karne Torcker	
Special milling machine	2	Yuwasa Tekko	no part 2 no motor 4
Horizontal groove milling machine	4	Osaka Kikai	no part 3
Tool milling machine	1	Hitachi Seiki	no motor
	11	Hayashi Kan	no part 5
Profile milling machine	1	Yasukawa Denki	no part
Propeller Profiling machine	2	Enshu Kikai	no motor 1
Propeller Profiling machine	1	Riken Kogyo	no motor no part
	1	Shiko Kikai	
	1	Riken Kogyo	no motor
	2	Sumitomo Kogyo	
	7	Yamaki Seiki	no motor 1 no part 3 no motor 4
Thread milling machine	8	Tsugami Seisaku	no part 3
	1		no part
	1	Hanson Whitney Engineering Co.	no motor
Propeller profiling machine	2	Matsumoto Chuzo	
Clearing machine	1		



			no. 7
Sharpening machine	1	Jojo kogyo	
	1		
	1	Nakagawa kikai	no motor no part
	1	Roku-Roku Banki	
	2	Jojo kikai	
	5	Mimaru Seisaku	no motor 3
	1		
	4	Ito kiko	no motor 4 no part 4
	1	Sekiguchi tekko	no motor no part
	1	Saito Seisaku	no part
	4	Okuma tekko	no motor 1 no part 4
	2	Ishida tekko	no motor 2 no part 1
	1	Nakajima Seisaku	no motor
Slotting machine	2	Kaneko tekko	
	2	Roku-Roku Shoten	no part 1
	2	Iwaiwa tekko	no motor 2
	1	Shimizu tekko	
	1		

RJ



Slotting Machine

Bench Drilling Machine

1	Saito Seisaku	no part
4	Okuma tekko	no motor 1 no part 4
2	Ishida tekko	no motor 2 no part 1
1	Nakajima Seisaku	no motor
2	Kaneko tekko	
2	Roku-Roku Shoten	no part 1
2	Iwaiwa tekko	no motor 2
1	Shimizu tekko	
1	Yamatoka Co	
2	Kaneko tekko	no motor 1 no part 1
2	Fukui tekko	no motor 2 no part 2
1	Showa tekko	
3	Kaneko tekko	no part 2
2	Shibayama tekko	
3	"	Damage 1 no motor 3
1	Hidachi Seiki	no motor no part
1	Takahata tekko	no motor
1	"	no part
1	Okuma tekko	no motor



No. 8

RJ

Bench drilling machine	1	Toa tekko	
"	1	Taihei Denki	
Drilling machine	1	Ito kikai	
"	1	Mitsubishi Kozaku	
"	7	Seiken Kikai	no motor 1 no part 1 damaged 1
"	3	Maeda Kozaku	no motor 2
"	2	Takagi Kozaku	no motor 2 no part 1
"	1	Tokyo Kozaku	no motor 4
"	4	Mitsubishi Kozaku	no part 1 no motor
"	1	Ogawa tekko	no part
"	2	Mitsubishi Kozaku	no part 2
"	1	Leopard carload	
"	2	Toko Boeki	
"	3	Aoki tekko	no motor 1 no part 1
"	1		no motor no part
Multi spindle drilling machine	3	Mitsubishi Kozaku	no part 1
"	1	"	damaged



"	1	Ogawa tekko	no motor no part
"	2	Mitsubishi Kozaka	no part 2
"	1	Leonard carload	
"	2	Toko Boeki	
"	3	Aoki tekko	no motor 1 no part 1
"	1		no motor no part
Multi spindle drilling machine	3	Mitsubishi Kozaka	no part 1
"	1	"	damaged
"	1	"	no motor
"	1	Welbe Co.	no part
"	1	Toyoda Koten	no motor 1 no part 1
Radial drilling machine	2	Dainippon Koten	no motor no part
"	1	Shindo Seisaku	no part
"	1	Minowa Juko	no motor no part
"	5	Dainippon Koten	no motor 1 no part 1
"	1	Ikegai tekko	no motor no part
"	2	Fuji seisaku	no motor 1 no part 1
Special drilling machine	1	Natoko	
"	1	Enomura tekko	no motor no part



No. 9

RJ

Horizontal drilling machine	2	Riken Kogyo	
"	1	Tokyo Keiki	rust is deep
Boring machine	1	Osaka Seidaku	
"	1	Ikegai Tekko	
"	1	Nagaoka Tekko	no motor
Fine boring machine	2	Toyoda Keiki	no motor 1 no part 1
"	1	"	no motor 3
"	2	Niigata Tekko	no part 2
Big boring machine	1	Pratt Whitney	
"	2	Mitsui Seiki	no part 1 no motor 1
"	1	Toyo Seiki	no motor no part
Gear hobbing machine	11	Hamai Keiki	no motor 2 no part 7
"	2	Kashifuji Tekko	
"	2	"	damaged 1
"	1	Karatsu Tekko	no motor
Gear rapping machine	3	Howa Kozaku	no motor 3 no part 1
"	1	Fellows Co.	no motor



Fig boring machine	1	Pratt Whitney	no part 1
"	2	Mitsui seiki	no motor 1
"	1	Toyo seiki	no motor no part
Gear hobbing machine	11	Hamai kikai	no motor 2 no part 7
"	2	Kashiwaji tekko	
"	2	"	damaged 1
"	1	Karatsu Tekko	no motor
Gear rapping machine	3	Howa kozoaku	no motor 3 no part 1
"	1	Fellow Co	no motor
"	1	Hamai kikai	no part
Spline hobbing machine	1	Karatsu tekko	no part
Universal grinding machine	1	Riken Kogyo	no motor 2
"	3	Wachigai kikai	<del>no motor</del> <del>no part</del> no motor 1
"	2	Sekiyama Co	no part 1
"	3	Koyanagi kozoaku	no motor 3 no part 1
"	3	Shonan koki	no part 1
"	2	Yamato tekko	no motor 1
"	1	"	no motor 1
"	1	Randis Co.	no motor no motor 2
Internal grinding machine	5	Fukuro seisaku	no part 1 damaged 1



No. 10

Internal grinding machine	6	Toyo Kogyo	no motor 6
"	1	"	no motor
"	1	"	"
"	1	Shonan Koki	damaged
"	2	"	no motor no part
"	1	Tokyo Seiki	no motor
"	1	Blyant Co	no motor
"	1	Hamada Seiki	no motor
"	1	Blyant Co	no motor
"	1	Heald Co	no motor
Plain grinding machine	5	Shonan Koki	no motor no part 2
"	1	Okuma Tekko	no part
"	3	"	damaged no motor 4 no part 1
"	3	Mitsui Seiki	no motor 2
"	2	Osaka Kiko	damaged 2
"	1	Rinneker Co	
"	1	"	damaged

RJ



		1	Heald Co	no motor
		5	Shonan Koki	no motor no part 2
Plain grinding machine		1	Okuma Tekko	no part
"		3	"	damaged no motor no part 1
"		3	Mitsui seiki	no motor 2
"		2	Osaka Kiko	damaged 2
"		1	Rinnaker Co	
"		1	Horton Co	damaged
Surface grinding machine		4	Kokoku sangyo	damaged 2 no motor 2 no part 2
"		2	Tokyo seiki	no motor 2 no part 1
"		1	Hamada seiki	no part
"		1	"	
"		2	Riken Kogyo	no motor 2
"		1	Washino seiki	
"		1	Hidachi seiki	
"		1	Heald Co	no motor
"		1	Blanchard Co	no motor
"		1	Koyo seiki	no part
Centerless grinding machine		2	Tsuyon Kenma	no motor 2
"		1	"	



No. 11

RJ

Centers grinding Machine	2	Fujita Kenma	
Bench grinding Machine	5	Touyama Seisaku	no motor 5 no part 2
Profile grinding Machine	1	Osaka Kikai	
"	1	Washino Seiki	no motor
{ Snap gauge	1	Mitsui Seiki	no part
Grinding Machine	2	Washino Seiki	
Thread grinding Machine	22	Washino Seiki	
Angle Slide grinding Machine	14	Okuma Tekko	no motor 2 damage 1
Clank pin grinding Machine	1	Niigata Tekko	no motor
Tool grinding Machine	5	Yamaguchi Seiki	no motor 4 no part 1
"	1	Mizuno Denki	
"	12	Shonow Tekki	
"	51	Takahata Seisaku	
"	5	Asahina Kagaku	no motor 4
"	1	Hidachi Seiki	no motor
"	1	Taihei Denki	no motor



Tool grinding Machine	5	Yamaguchi Seiki	No motor & no part 1
"	1	Mizuko Denki	
"	2	Shonou Seiki	
"	5	Takahata Seisaku	
"	5	Asahina Kagaku	No motor 4
"	1	Hidashi Seiki	No motor
"	1	Tsiki Denki	No motor
"	1		Damage
"	1	Toyo Kagaku	No motor
"	1		No part 3
"	1	Motomachi Seiki	
"	1	Karatom Tekko	No part
Universal grinding Machine	1	Karatom Tekko	"
"	1	Takahata Seisaku	"
Cutter grinding Machine	2	Maeda Kogyo	No motor &
"	5	Takahata Tekko	Damage 1
"	1	Karatom Tekko	No motor
"	1		"



Cutter grinding machine	1		no motor
"	1		"
B. Loach Shearer	3	Fujitoshi	no motor 2
Drill grinding machine	1	Osaka Seisaku	
Gear grinding machine	1	Okamoto Kōsaku	no motor
"	1	Hōwa Jūko	no part 2
"	3	Hidachi Seiki	no motor 6 no part 2
Gear Lapping machine	4	Okamoto Kōsaku	no motor 2
"	1	"	no part no motor 2
"	2	"	no part 2
Universal Lapping machine	1	"	no motor 2
Honing machine	2	Osaka Seiki	no part 1
"	1	Yamajūchi Seiki	
"	1	Osaka Seisaku	Damage
Broncking machine	1	Rapoint Co	
"	2	Fujitoshi Seisaku	

RJ



Universal Lapping Machine	2		no part 2
Honing Machine	1		no part 2
"	2	Osaka Seiko	no part 1
"	1	Yamaguchi Seiki	
"	1	Aoba Seisaku	Damage
Broaching Machine	1	Rapoint Co	
"	2	Fujikoshi Kozai	
Surface Machine	1	"	no motor 3
Hack Sawing Machine	6	Hudagaya Tekko	no part 2
"	1	Wastine Seiki	no motor
"	2	Nippon Seisaku	no motor 1
"	1	Okuma Tekko	no part 1
"	1	Rokuroku Banki	
Circle Sawing Machine	1	Konan Kozai	no part
High Speed Cutting Machine	6	Yamashita Tekko	no motor 4
"	3	Nippon Kosaku	damaged 1
"	1	Toko Toishi	no motor 2
Centering Machine	2		no part 2
"	1	Odai Tekko	
Polishing Machine	1	Best Whitney	no part 1
		Gardner Co.	no motor

Witness by  
 Frank C. Dambroski Sgt  
 9th Ill Cav

Robert S. Donahoe Capt  
 S. Mori



A production equipment

Relation of wood machine.

Tsu Arsenal



A production equipment (Relation of wood machine)

PJ

Description	Type	Capacity	year of manufacture	No. of units	Makers	Remarks
Wood lathe		6 feet	1943	1	Akimoku Kikai	No motor
"		"	1943	4	Wippon Mokko	
"		"		1	Futami Shoten	
"		4 feet	1943	1	Wippon Mokko	
"		12 "	1944	1	Akimoku Kikai	
"				6	Shoda Tekko	
Band sawing machine				1	Ichigoku Kikai	No motor
"	270		1942	1	Wippon Mokko	no part
"		18 inch		1	Wippon Mokko	no band saw
"		24 "	1943	2	Akimoku Kikai	no motor
"		36 "	1944	1	"	no cover
"					"	no band saw



wood						
Circular Sawing machine		Diameter of saw 8 inch		1	Madigitai Tekko	no motor
Wood Drilling Machine		stroke of fall 1.5 inch	1A20	1	Zenma	
Wood plane machine		inch inch 8" x 6"		1	Nippon Mokko	
Band Sawing grinder				1	Kawakaseya	
Wood Milling Machine		motor 5HP inch take 30x24	1A36	2	Kikukawa Tekko	
Hand plane				1	Mori Takago Saska	
Melting furnace	Coke	inch 880x1000	1A45	4	Tsu Arsenal	no frame
"	"	650x500	1A43	3	"	Fire brick work
"	"	650x650	1A44	3	"	"
"	"	inch 300x600	1A44	1	"	no part
Moulding machine	CM-A3	inch 120x360x320	1A43	10	Kupetsi Sasaki	no air pipe
"	XR-101	inch 160x610x325	1A44	6	"	"
"	W-2	inch 500x360	1A44	A	"	"
"	B-52	inch 210x120	1A3A	1	"	"



B Auxiliary equipment .  
(Transformers, Generators, Boiler etc.)

Relation of wood machine

Tsu Arsenal



PS

Auxiliary equipment (Traps, farmer, generator, Bider, etc)						
Description	Type	Capacity	Year of Manufacture	No. of units	Makers	Remarks
Arba Test Press	Table	350 m/m	1944	2	Seshita Seisaku	
Crank Press		3 HP	1944	1	Yamabuo Zynatsu	
Propeller Bender		220 V 10 A	1944	1	Paidozoki	
"		5 ton 30 x 450	1932	8	Paido Press	No motor 2 No parts 2
"		"	1943	2	Kato Kogyo	No motor 2 No parts
Pont's Press			1942	1	Asaki	No motor
Screw Press		300 kg	1943	1	Washino Shoten	
Press			1943	1	Kaneda Shoten	
Propeller Twister		L=380 W=13	1941	4	Kato Kogyo	
Tarining Press		300 ton	1945	1	Nippon Yamatsu	
Air Compressor		150 HP	1944	1	Okamoto Keraku	



Description	Type	Capacity	Year of manufacture	No of unit	Makers	Remarks
Air Compressor	C <sub>2</sub> V5N		1945	1	Mikuni Tekko	No Motor
"			1942	1	Unknown	Damage
"			1941	5	Nakamura Seisaku	
"	HP <sub>2</sub> -1W	200 HP	1944	1	Kaji Tekkai	
Blower		350 HP	1938	1	Hitachi Seisaku	
Sand Brust	8x8x8 feet	15 HP	1944	2	Sanka Pogyo	
Crane	Trailer	5 ton	1944	1	Yashima Tekkai	No parts
"	5m <sup>3</sup>		1943	1	Naniwa Kikai	
Oil Cooler		20 HP	1943	2	Nippon Juyuro	
Prying Furnace	Electric	32x35x35 <sup>cm</sup>	1944	4	Chino Seisaku	
"	"	"	1944	1	Senn Seisaku	
Heating <sup>K-log</sup> operators	"	25-100 KW	1945	1	Shirai Maruse	



PS

Description	Type	Capacity	Year of manufacture	No of Unit	Makers	Remarks
current Regulator Mercury	MG 1-75-15	100V-25A	1945	1	Nippon Denki	Damage
Alemhic	Electric	5L	1943	1	Chino Seisaku	
Bite Welding Machine	V-P-125	125KVA	1943	1	Dengensha	
"			1943	1	Shibaura denki	
Generator	Bo-43	12KW	1943	1	Cyuo Seisakusho	
"	ND	16KW	1943	2	Negagawa denki	No. Vmeter
"		100KW	1940	1	Hitachi Seisaku	
"		30KW	1936	1	Nakajima denki	
Diesel Generator		300KW	1945	1	Nigata Seikow	
Metal Cleaner		80x100x200 <sup>cm</sup>	1945	1	Sanki Kogyo	
Boiler	Water Tube	500HP	1944	1	Nippon Kogaku Kikai	Sending to
"	Lankashen	D=5 feet h=30 feet	1925	2	Wilson Co Tokai Musgrum	to Mitsubishi Kikai



Description	Type	Capacity	Year of Manufacture	No. of Unit	Makers	Remarks
Boiler	Cornish	D=3 feet L=18 feet	1935	2	Mie Iron works	
"	"	D=4 feet L=20 feet	1935	1		
"	Kewaney	D=3 feet L=15 feet	1928	1		
"	"	D=4 feet L=15 feet	1940	2		
Tension Tester	Amsler	50 ton	1944	1	Tokayomori	
"	Mitsumura	50 ton	1944	1	Akashi Saisaku	
"			1945	1	"	
Blue Printer			1942	1	Shibaura	damage
Blue Printer machine			1943	2	Maruboshi Shoten	
Printing Machine			1943	1	Hujita Jakkow	
"			1943	1	Nakajima Iekko	
"			1943	1		



Description	Type	Capacity	year of manufacture	no. of units	maker	Remarks
Printing Machine			1943	1	Katsen Sha	
Trimmer			1944	1	Kanda Shoten	
"			1943	1	Yashino Tekko	
Handpress Pester	Roller	3 ton	1943	3	Imai Shikoku	Turo is no pressure gage
"	"	"	1943	5	Togashi Seiki	
"	"	"	1944	11	Furuguchi Seisaku	Turo is no pressure gage
"	Fordwell		1943	4		
"	"		1941	1	Fuji Seisaku	
"	"		1944	4	"	
Maynor Flax			1945	2	Yokogawa Shokai	
"		200T15A 50-60Cgda	1943	1	"	
Oil Separator			1944	5	Shiwa	One is no motor

3 PJ



Description	Type	Capacity	Year of manufacture	no of unit	Makers	Remarks
Hardness Tester	Vickers		1943	1	Imai Seisaku	
"	"		1943	1	Fuji Seisaku	damage
"	Shore		1942	12		
Transformers	oil cooling	7500KVA	1945	3	Mitsubishi, Denki	
"	"	100KVA	1945	1	"	
"	oil filled				Kawakita 3	Sending to
"	water cooling	1000KVA	1925	4	Asaka 1	Mitsubishi Kokai
"	oil cooling	300KVA	1925	5	Shibaura	Sending to
"	"	"	1944	1	Mitsubishi Denki	Mitsubishi Kokai (?)
"	"	200KVA	1942	17	Osaka Kenatsuki	
"	"	100KVA	1942	5	"	
"	"	200KVA	1940	3	Meidensha	
Slide Tester	Challig	30KZ-M	1944	2	Tokyo Kokai	



PJ

Description	Type	Capacity	Year of Manufacture	No of Unit	Makers	Remarks
Switch Board		30A25A 15V	1944	2	Kawanishi Kikai	
Gear Tester			1945	3	Mitsui Seiki	
Spreading machine		Sensation Paper	1943	1	Aisa Shokusho	
Mono Typewriter			1943	1	Nippon Typewriter	
"			1944	1	"	
Testing machine			1944	1	Akashi Seisaku	Damage
"			1944	1		



A. Production equipment.

Relation of Forging Machine

Tsu Arsenal



A Production equipment (Relation of Forging Machine)

Description	Type	Capacity	year of manufacture	no of unit	Makers	Remarks
Heating Furnace	Electric	120 KW	1945	4	Hyoitsu denki	No Switch Board
"	"	"	1943	2	"	"
"	"	"	1944	2	"	"
"	"	40 KW	1943	3	"	No Switch Board No-cable and hose
"	"	120 KW	1945	6	Asahi Kaiheiki	No switch Board
"	"	200 KW	1944	3	"	"
"	"	120 KW	1942	1	Matsushita denki	No. switch Board
"	"	40 KW	1943	1	"	no. switch Board no pool
"	"	120 KW	1945	1	Asahi Kaiheiki	No Switch Board
"	Air Mixing	85 KW	1944	1	Fuji denki	"
"	"	90 KW	1943	1	"	"

RJ



Description	Type	Capacity	year of manufacture	no of unit	makers	Remarks
Heating Furnace	no scall Electric	30 KW	1945	1	Aida Seiko	
"	Cool	80x120x100 cm	1944	2	Izu arsenal	
"	"	200x80x300 cm	1944	1	Izu Kogyo	
"	"	160x80x300 cm	1944	1	"	
"	"	250x120x150 cm	1944	1	"	
"	"	250x100x120 cm	1943	3	Nippon Jyuso	
"	"	200x150x100 cm	1944	3	Izu Kogyo	no part
Salt Bath	Electric	30 KW	1943	2	Nippon denso	no Am meter
"	"	400 KW	1943	1	Kiyoniteu densu	
"	"	180 KW	1943	2	Ahatsuki Seisaku	
"	"	70 KW	1943	2	Fuji denso	
"	"		1944	3	Pengosha	Damage



RJ

Description	Type	Capacity	year of manufacture	no of unit	makers	Remarks
Salt Batch	"	55 KW	1943	1	Fuji denso	no Transformer
Welding Furnace	"	70X50X120 cm	1944	1	Tokyo denki	damage
Demather Generator	M 30	300 A	1943	2	Fuji denki	
Steam Hammer	Single Frame	1.5 Ton	1944	1	Nippon Janatsu	no packing
"	"	1 "	1943	3	"	
"	"	$\frac{1}{2}$ "	1945	1	Nigata Tekko	
Air Hammer	"	1 "	1944	1	Toyo Tekko	no Pisen rod
"	"	$\frac{1}{4}$ "	1943	1	"	no part
Oil Press		500 Ton	1941	1	Komatsu Seisaki	
Painting machine			1943	1	Toyo Kogyo	no part



B. Auxiliary equipment  
(Transformers, Generators, Boiler etc)

Relation of Forging Machine

See Arsenal



Relation of wood machine  
 B Auxiliary equipment (Transformers, Generators, Boilers, etc.)

Description	Type	Capacity	year of manufacture	no of unit	Makers	Remarks
Air compressor	HD2-1W	200HP	1944	1	Kagi Tekko	no motor
"	WT-1A	10HP	1944	1	"	no air tank
"		15HP	1944	1	Strong Co.	no air tank
Drying Furnace	Electric	40KW	1945	4	Kyoutu Denki	
"	"	11KW	1945	2	Asahi Kaiheiki	Completion 90%
"	Coal	2x3x4 <sup>M</sup>	1944	1	Nipponjyu yuro	no motor
Half circle Drying Furnace	Coal	D=1.1 <sup>m</sup> H=1.5 <sup>m</sup> 300L	1944	1	Sanko Kogyo	Dai nage
Crusher		10HP 100L	1944	2	"	no motor
Sand Mixer		2HP	1943	2	Kubota Seisaku	no motor
Sand Shifter		2HP	1943	2	Sanko kogyo	

RJ

Crane	Traveler	2 Ton	1944	1	Yashima tekko	



Drying Furnace	one	300L			Sanko Kogyo	
Crusher		10HP 100L	1944	2	"	no motor
Sand Mixer		2HP	1943	2	Kubota Seisaku	no motor
Sand Shifter		2HP	1943	2	Sanko Kogyo	

Crane	Traveler	2 Ton	1944	1	Yashima Tekko	

Witnessed by  
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