Description of Machine	Type	Capacity	Name of Maker	Quantity	Inventory No.
Straight Lathe (continued from 1 Pg.)					67, 68, 74, 79, 80, 81, 82, 83, 85, 86, 87, 89, 90, 92, 93, 94, 96, 97, 99,103, 104,105,106,107, 108,109,110,111.
" "	LA ~~U.S.A.~~	380x940x1830	Enshu Kikai K.K.	3 sets	IA6-144,150,151
" "	LV ~~U.K.~~	460x635x1830	" " "	21 "	IA6-162,163,166 169,170,173,174 175,177,178,181 190,191,194,212, 213,214,217,218 219.
" "	~~U.K.~~	480x1350x2440	Ogaki Tekkosho	7 "	IA6-233,234,235, 236,237,238,240
Gap Lathe		550x1220x2440	Tsuda Tekkosho	2 "	IA6-291,292.
" "		530x1220x2440	Nishikawa Tekkosho	3 "	IA6-293,294,295.
Turret Lathe		280x35x25	Alfred Herbert	1 "	IA6-314
" "		480x45x45	" "	1 "	IA6-320
Horizontal Milling Machine	HMW	750	Enshu Kikai K.K.	1 "	IA7-1
" "	MHM	102	" "	1 "	IA7-2
" "	HM	450x190x270	" "	2 "	IA7-9,10
" "	HMA	635x240x400	" "	3 "	IA7-17, 20, 21.
" "		457x200x0	Brown & Sharpe	1 "	IA7-35.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 45013

Description of Machine	Type	Capacity	Name of Maker	Quantity	Inventory No.
Vertical Milling Machine	VM	450x190x270	Enshu Kikai K.K.	1 set	IA7-41
" "	NM	560x200x450	" "	1 "	IA7-65
Planer		1300x1010x 2070	Ueno Tekkosno	1 "	IA8-1
"		1300x1040x 3290	" "	1 "	IA8-8
"		1200x1100x2850	Toyo Kikai	1 "	IA8-4
"		1010x780x2040	Ueno Tekkosho	1 "	IA8-2
Cutting Machine		70x80	Alfred Herbert	1 "	IA9-15

AUXILIARY MACHINES

Salt Bath	35KW 1350°C	Fuji Denro Kogyo K.K.	1 "	IC4-1
" "	12.4KW 900°C	" "	1 "	IC4-2
Air Hammer	¼ Ton	Osaka Kyohan	1 "	IB6-1
High Frequency A.C. Electric Furnace	35 KW	Nippon Denshi KK	1 "	Not inventoried because damaged
Oil Separating Machine Centrifugal	220x250	Nokawa Seisakusho	1 "	Not inventoried because not in the classification
Hoist	½ ton	Hitachi Seisakusho	1 "	" "

Total 133

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

JWJ/ky

HEADQUARTERS
SHIZUOKA MILITARY GOVERNMENT TEAM
APO 1007

6 August 1947

SUBJECT : "REQUEST TRANSFER DISPERSED MACHINERY FROM MACHINE TOOL INVENTORY TO MUNITION PLANT INVENTORY (Enshu Shokki K.K., Takatsuka Plant, Kami-mura, Hamana-gun, Shizuoka Prefecture, - Machine Tool Inventory number 37-32; Enshu Shokki K.K., Yamato Plant, Taima-mura, Kitakatsuragi-gun, Nara Prefecture, - Munitions Plant Inventory number 28-1).

THRU : Commanding Officer, Tokai-Hokuriku Military Government Region, APO 710

TO : Commanding General, Eighth Army
Headquarters 8th Army, APO 343

1. On the machine tool inventory of Enshu Shokki K.K., Takatsuka Plant, there are 130 items that were brought to this plant from Enshu Shokki K.K., Yamato Plant (Munitions, Inventory number 28-1) in 1946 prior to either plant's designation for reparations. Three other items are not on numbered inventory, so the total concerned is 133 items of equipment.

2. At the time the local plant was placed under custody the management reported there were no dispersed machinery. The question was intended to cover equipment in the plant as well as outside of the plant, but apparently was misunderstood in process of translation. This Headquarters made an inspection of the plant in July after all SCAPIN 1219 repairs had been completed and it was noted that a large group of stored lathes had no chucks. At that time it was reported that these machines had been brought back from the Yamato Plant in Nara Prefecture where they had been used for shell turning; chucks were missing because the special chucks for shell turning had been removed and destroyed on Army order and no standard chucks were available.

3. The equipment concerned had no connection with integrated machine tool facility. None of it is in use. It is all well maintained and practically are class I. The Company's report and inventory list is attached as inclosure.

- 1 -

8/30 T-H, Nagaya phoned; inventory a 37-45-

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BASIC: Letter Headquarters Shizuoka Military Government Team dated 6 August 1947 subject: "Request Transfer Dispersed Machinery from Machine Tool Inventory to Munition Plant Inventory (Enshu Shokki K.K., Takatsuka Plant, Kami-mura, Hamana-gun, Shizuoka Prefecture, - Machine Tool Inventory number 37-32; Enshu Shokki K.K., Yamato Plant, Taima-mura, Kitakatsuragi-gun, Nara Prefecture, - Munitions Plant Inventory number 28-1).

4. This Headquarters recommends that this equipment formerly located at the Yamato Plant in Nara Prefecture be removed from the inventory of the integrated machine tool installation and added to the inventory of the munitions plant under the number 28-1(a).

5. In event such instructions be received a munitions inventory can be forwarded and a corrected machine tool inventory prepared within 10 days.

FOR THE COMMANDING OFFICER:

ROBERT N. GRISHKAT,
1st Lt. FA.
Adjutant.

1 Incl:
1. Report of Company on dispersed machines and present inventory numbers - (4)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

ENSHU WEAVING MACHINERY CO., LTD.
4868 Takatsuka Kami-mura Hamana-gun
Shizuoka-ken

Aug. 6th, 1947

Mr. J. M. Jones,
Shizuoka Military Government Team,
Shizuoka.

Dear Sir:

Re: The Dispersed Machines

Enclosed herein please find

(a) List of the machines brought back to Takatsuka Plant from Nara-Prefecture where they had been dispersed to before the termination of the war.

(b) Copy of Permit for transfer of the above mentioned machines.

The construction work of our Yamato Plant located at Tai ma Taima-mura Kitakatsuragi-gun Nara-ken where the machines were dispersed to was suspended immediately upon the termination of the war, leaving the machines in a very poor preservation condition due to the incomplete buildings. In view of this, the transfer of the machines back to Takatsuka Plant was commenced on April 12th 1946, and having been overhauled upon the arrival here and stored in a perfect building they are now kept under good care.

The reason why the number of machines in the Permit For Transfer does not correspond to the number of machines actually brought back is because we stopped the transfer of the machines when Yamato Plant was enlisted as reparation factory, althou the transfer had not been completed.

Very truly yours,

ENSHU WEAVING MACHINERY CO., LTD.

Toemon Sakamoto

Toemon Sakamoto, Factory Manager

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

(COPY OF PERMIT FOR TRANSFER OF MACHINES)
-Translated-

ENSHU WEAVING MACHINERY CO., LTD.
4858 Takatsuka Kami-mura, Hamana-
gun, Shizuoka-ken

18 Feb. 1946

To: Tokai-Hokuriku Regional Bureau of
Commerce and Industry

APPLICATION For Permission for Removal of Machines and Equipments of Munition Plant

A. Description and Number of Machines:
a. Machine Tools:

Description	Number
Lathes	138 sets
Boring Machines	2 "
Milling Machines	14 "
Grinding Machines	4 "
Shapers	4 "
Drilling Machines	7 "
Planers	5 "

b. Auxiliary Machines:

Description	Number
Cutting Machines	1 set
Centrifugal oil separating Machines	1 "
Salt Bath	2 "
Transformers	4 "
Air Hammers	1 "
Electric Furnace	1 "
Motor driven Hoist	1 "

B. Where to Remove:
To Takatsuka Plant of Enshu Weaving Machinery Co., Ltd.
Takatsuka, Kami-mura, Hamana-gun, Shizuoka-ken.
From
Yamato Plant of the same company.
Taima, Taima-mura, Kitakatsuragi-gun, Nara-ken.
Station of Shipment: Iwaki on Kinki Line.
Station of Arrival : Takatsuka on Tokaido Line.

C. Reasons:
We were constructing a dispersement plant (which is called Yamato Plant) at Taima, Taima-mura, Kitakatsuragi-gun, Nara-ken by order of Ministry of Munition (present Ministry of Commerce and Industry) which was issued in April of 1945, when Japan surrendered on August 15th 1945.
Only two store houses had been completed when we suspended

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

the construction upon the termination of the war, and it is impossible to give adequate guard and preservation to the machines with two store houses and forty one workers working at the plant. We wish therefore to send back the machines to Takatsuka Plant where these machines originally belonged to and where adequate guard and preservation is possible.

We should be much obliged if permission would be given to the above application.

Yours truly,
ENSHU WEAVING MACHINERY CO., LTD.

Kyugoro Sakamoto, President

We hereby certify that the informations contained in the above application are true and correct.

TAKADA POLICE STATION
Feb. 22nd 1946.

I think the removal of the machines as applied above is necessary, and hope that you will give due consideration to the matter and permission be given.

CHIEF OF TOKAI-HOKURIKU REGIONAL
BUREAU OF COMMERCE AND INDUSTRY
Feb. 26th 1946

TO: GOVERNOR OF NARA PREFECTURE

I permit the removal of the machines as applied above.

GOVERNOR OF NARA PREFECTURE
April 11th 1946
Nara-ken Directive "Sho No.551

Summarized List of the Above Machines

Machine Tools		Auxiliary Machines	
Lathes	100 sets	Air Hammer	1 set
Milling Machines	10 "	Oil Separating Machines centrifugal	1 "
Grinding Machines	2 "	Salt Baths	2 "
Gear Cutting Machines	3 "	Electric Furnace	1 "
Drilling Machines	7 "	Hoist	1 "
Planers	4 "		
Cutting Machines	1 "		

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DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 75013

List of the Machines Brought Back to
Takatsuka Plant from Nara-ken

Description of Machine	Type	Capacity	Name of maker	Quantity	Inventory No.
		MACHINE TOOLS			
Drilling Machine		260x1150x32	Roku Roku Shoten	1 set	IA3-5
" "		190x720x20	Alfred Herbert	2 "	IA3-21, 22
" "		260x1000x40	Barns & Drilling Co.	1 "	IA3-30
" "		275x970x40	Riken Piston Ring Co.	2 "	IA3-31, 32
Radial Drilling Machine		1600x1600x60	Minowura Jukogyo K.K.	1 "	IA3-39
Hobbing Machine		460x315x130	Nakayama Honten	1 "	IA4-1
Gear Cutting Machine		180x38x100	Morita Tekkosho	1 "	IA4-5
Bevel Gear Shaper		200x100	Motokubo Kosakusho	1 "	IA4-13
Grinding Machine		220x350x190 370 160	Roku Roku Shoten	1 "	IA5-40
Profile Grinding Machine		125 175x48	Washino	1 "	IA5-42
Straight Lathe	~~U.S.A.~~	320x600x1370	Sakiyama Tekkosho	1 "	IA6-12
" "	~~"~~	"	Yamakoshi Tekkosho	2 "	IA6-15, 19
" "	LU ~~U.S.A.~~	380x500x1370	Enshu Kikai K.K.	59 sets	IA6-28, 30, 31, 33, 34, 35, 36, 37, 39, 40, 43, 44, 45, 46, 48, 49, 50, 51, 52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 65, 66,

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Description of Machine	Type	Capacity	Name of Maker	Quantity	Inventory No.
Straight Lathe (continued from 1 Pg.)					67, 68, 74, 79, 80, 81, 82, 83, 85, 86, 87, 89, 90, 92, 93, 94, 96, 97, 99,103, 104,105,106,107, 108,109,110,111.
" "	LA ~~U.S.A.~~	380x940x1830	Enshu Kikai K.K.	3 sets	IA6-144,150,151
" "	LV ~~U.K.~~	460x635x1830	" " "	21 "	IA6-162,163,166 169,170,173,174 175,177,178,181 190,191,194,212, 213,214,217,218 219.
" "	~~U.S.A.~~	480x1350x2440	Ogaki Tekkosho	7 "	IA6-233,234,235, 236,237,238,240
Gap Lathe		550x1220x2440	Tsuda Tekkosho	2 "	IA6-291,292.
" "		530x1220x2440	Nishikawa Tekkosho	3 "	IA6-293,294,295.
Turret Lathe		280x35x25	Alfred Herbert	1 "	IA6-314
" "		480x45x45	" "	1 "	IA6-320
Horizontal Milling Machine	HMW	750	Enshu Kikai K.K.	1 "	IA7-1
" "	MHW	102	" "	1 "	IA7-2
" "	HM	450x190x270	" "	2 "	IA7-9,10
" "	HMA	635x240x400	" "	3 "	IA7-17, 20, 21.
" "		457x200x0	Brown & Sharpe	1 "	IA7-35.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 45013

Description of Machine	Type	Capacity	Name of Maker	Quantity	Inventory No.
Vertical Milling Machine	VM	450x190x270	Enshu Kikai K.K.	1 set	IA7-41
" "	NM	560x200x450	" "	1 "	IA7-65
Planer		1300x1010x 2070	Ueno Tekkosho	1 "	IA8-1
"		1300x1040x 3290	" "	1 "	IA8-8
"		1200x110[illegible]x2850	Toyo Kikai	1 "	IA8-4
"		1010x760x2040	Ueno Tekkosho	1 "	IA8-2
Cutting Machine		70x60	Alfred Herbert	1 "	IA9-15
	AUXILIARY MACHINES				
Salt Bath		35KW 1350°C	Fuji Denro Kogyo K.K.	1 "	IC4-1
" "		12.4KW 900°C	" "	1 "	IC4-2
Air Hammer		¼ Ton	Osaka Kyoban	1 "	IB6-1
High Frequency A.C. Electric Furnace		35 KW	Nippon Denshi KK	1 "	Not inventoried because damaged
Oil Separating Machine Centrifugal		220x250	Nokawa Seisakusho	1 "	Not inventoried because not in the classification
Hoist		2 ton	Hitachi Seisakusho	1 "	" "

/ 3

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 77501/3

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

INVENTORY FORM FOR MACHINE TOOL AND
BALL AND ROLLER BEARING PLANTS

DATE Feb. 24th, 1947.

Name of Company Enshu Shokki K.K. Related SCAPIN No.

Name of Plant Takatsuka Plant Code No. 37-32

Address of Plant 4,888 Takatsuka Kami-mura Hamana-gun Shizuoka-ken

	Number Tallied
1. METAL WORKING MACHINES	618
A. MACHINE TOOLS	573
1. Boring machines	7
2. Broaching machines	2
3. Drilling machines	40
4. Gear cutting and finishing machines	24
5. Grinding machines	72
6. Lathes	322
7. Milling machines	67
8. Planers	20
9. Miscellaneous machine tools	19
B. SECONDARY METAL FORMING AND SHAPING MACHINES AND EQUIPMENT	14
1. Bending machines	1
2. Hydraulic presses	0
3. Manual presses	6
4. Mechanical presses	2

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

INVENTORY FORM FOR MACHINE TOOL AND
BALL AND ROLLER BEARING PLANTS

DATE Feb. 24th, 1947.

Name of Company Enshu Shokki K.K. Related SCAPIN No.

Name of Plant Takatsuka Plant Code No. 37-32

Address of Plant 4,888 Takatsuka Kami-mura Hamana-gun Shizuoka-ken

	Number tallied	
B. SECONDARY METAL FORMING AND SHAPING MACHINES AND EQUIPMENT (cont'd)		
5. Shearing and punching machines	0	
6. Forging machinery	5	
7. Wire forming machines	0	
8. Miscellaneous	0	
9. Other metal working machinery and equipment	0	
C. MISCELLANEOUS METAL WORKING EQUIPMENT		31
1. Welding machines, all types	2	
2. Testing and measuring machines, all types	20	
3. Miscellaneous physical property testing	1	
4. Heat treating equipment	4	
5. Portable metal working machines	4	
11. ELECTRICAL MACHINERY AND APPARATUS		66
A. ELECTRICAL ROTATING EQUIPMENT		16
1. Generators	0	
2. Motors (5 HP and over)	16	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

INVENTORY FORM FOR MACHINE TOOL AND
BALL AND ROLLER BEARING PLANTS

DATE Feb. 24th, 1947.

Name of Company Enshu Shokki K.K. Related SCAPIN No.

Code No. 37-32

Name of Plant Takatsuka Plant

Address of Plant 4,888 Takatsuka Kami-mura Hamana-gun Shizuoka-ken

	Number tallied
A. ELECTRICAL ROTATING EQUIPMENT (cont'd)	
3. Motor Generators	0
4. Frequency changers	0
5. Converters and inverters	0
6. Generator Sets (Direct coupled to prime mover)	0
B. PRIMARY ELECTRIC POWER TRANSMISSION AND DISTRIBUTION EQUIPMENT	50
1. Transformers	47
2. Switch	3
111. GENERAL PURPOSE INDUSTRIAL MACHINERY AND EQUIPMENT	8
A. ENGINES AND TURBINES	0
1. Steam Engines	0
2. Steam Turbines	0
3. Internal Combustion Engines	0
B. COMPRESSORS AND PUMPS	4
1. Compressors and Dry Vacuum Pumps	4
2. Pumps	0
C. MISCELLANEOUS MACHINERY AND EQUIPMENT	4
1. Power Boilers	0
2. Cranes	4

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Rec'd Conv
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10/1/49

HEADQUARTERS
SHIZUOKA MIL GOV'T TEAM
APO 710 (SHIZUOKA, HONSHU)

October 14 1946

SUBJECT : Petition for exemption from reparations listing of sufficient equipment in reparations installation to continue production of civilian goods (Enshu Shokki K.K., 1868 Takatsuka, Kami-mura, Hamana-gun) (SCAPIN-1133 Inventory Number 37-32)

TO : Commanding General, Eighth Army
HQ 8th Army, APO 343 (US Army)

THRU : CHANNELS

1. Forwarded herewith for consideration is the petition of the subject company to have removed from the provisions of SCAPIN-1133 that portion of its equipment considered necessary for minimum civilian operation.

2. It is stated that over 60% of the automatic looms used in the national textile industry were the patented automatic looms of this company and if this plant were removed in its entirety, textile spinning and weaving factories equipped with this company's machines would suffer as a consequence.

3. This company produced textile machinery from 1920 until 1938 when it also began production of machine tools and 30 mm to 50 mm bullets. Production of textile machinery dropped from 100% in 1937 to 3% in 1942. No conversion of the plant's original equipment was made, but the number of machine tools installed were almost tripled.

4. The company has orders in hand for the rebuilding of over 3000 sets of textile equipment, and for new parts for textile machinery of over ¥ 3,500,000.

5. The company has petitioned through the Ministry of Commerce and Industry for the exemption of a portion of the plant's equipment from reparations. Copies of the petition are inclosed. The itemized list of equipment required is on pages 2 and 3 (continued page 4). The list of equipment which is not required for operation is on page 4. A check of this list reveals that of approximately 636 machine tools in the plant's equipment about 207 are necessary for continued operation for repair and production of textile machinery.

6. This office feels that due to the widespread use of this company's equipment in the national textile industry (60% of the automatic looms used for production of white goods) continued operation of the plant is essential. Favorable consideration is recommended for the company's petition to have the specified list of equipment (pages 2,3,4 of petition 29th August to Ministry of Commerce and Industry, Imperial Japanese Government) removed from reparations listing.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BASIC: Ltr. CO, Shizuoka Mil Gov't Team, APO 710, dtd 14 Oct.46, Subj: "Petition for exemption from reparations listing of sufficient equipment in reparations installation to continue production of civilian goods (Enshu Shokki K.K. 4888 Takatsuka, Kami-mura, Hamana-gun) (SCAPIN-1133 Inventory Number 37-32)

FOR THE COMMANDING OFFICER:

CLARENCE B. DAVIS
Capt. A.C.
Adjutant

Inclosures:

1. Information copies of Petition to Ministry of Comm. & Ind. (5) (with annexes A, B, C, D)
2. Letter from Shizuoka Pref. Govt. (5)
3. Letter from Enshu Shokki K.K. (5)
4. Letter from Japan Textile Machine Ind.Fed. Assoc. (5)
5. Letter from Japan Textile Assoc. (5)
6. Inspection Sheet (5)
7. Production report 1935-45 (4)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BASIC: Ltr, Hq Shizuoka Mil Govt Team, APO 710, dtd 5 Oct 46
Subject: "Petition for removal from reparations listing
(Enshu Shokki K.K., 4888 Takatsuka, Kamimura, Hamana-gun,
SCAPIN - 1133)

GNM/ss

1st Ind

Hq Tokai-Hokuriku Mil Govt Region, APO 710, 10 Oct 46

TO: CO, Shizuoka Mil Govt Team, APO 710

The petition for removal from reparation list of subject plant is being returned for additional information as follows:

a) Definite recommendation for or against from your Headquarters.

b) Are non-reparation machines available.

c) Principal pre-war, war and present time production.

d) Reparations Check Sheet (form RCI # 6)

BY ORDER OF COLONEL BURNELL:

Lee A McDonald

LEE A. McDONALD
Capt, AUS
Adjutant

RBZ

letter rewritten Oct 14
(item d) supplied - was
orig. sent with 01 1/2 report

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

BASIC: Ltr, Hq Shizuoka Mil Govt Team, APO 710, dtd 5 Oct 46
Subject: "Petition for removal from reparations listing
(Enshu Shokki K.K., 4888 Takatsuka, Kamimura, Hamana-gun,
SCAPIN - 1133)

1st Ind GNM/ss

Hq Tokai-Hokuriku Mil Govt Region, APO 710, 10 Oct 46

TO: CO, Shizuoka Mil Govt Team, APO 710

The petition for removal from reparation list of subject plant is being returned for additional information as follows:

a) Definite recommendation for or against from your Headquarters.

b) Are non-reparation machines available.

c) Principal pre-war, war and present time production.

d) Reparations Check Sheet (form RCI # 6)

BY ORDER OF COLONEL BURNELL:

LEE A. McDONALD
Capt, AUS
Adjutant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

HEADQUARTERS
SHIZUOKA MIL GOV'T TEAM
APO 710

5 Oct. 1946

SUBJECT : Petition for removal from reparations listing (Enshu Shokki K.K., 4888 Takatsuka, Kami-mura, Hamana-gun. SCAPIN - 1133)

TO : Commanding Officer, Tokai-Hokuriku Mil Govt Region
APO 710.

1. Forwarded herewith for consideration by higher authority is petition of subject installation for removal from provisions of SCAPIN 1133 of that portion of their equipment considered necessary for minimum civilian operation.

2. It is stated that 60% of all automatic looms in the national textile industry were the patented looms of this factory and for that reason continued operation of the plant is essential to the textile industry.

3. From a total of approximately 638 machine tools, the company requests the release of approximately 207, for the manufacture of textile machinery.

FOR THE COMMANDING OFFICER:

Clarence A. Davis

CLARENCE S. DAVIS,
Capt., A.C.
Adjutant.

Inclosures.

Letter from Enshu Shokki K.K. (5)
Letter from Japan Textile Machine Industry Federal Association (5)
Letter from Japan Textile Association (5)
Letter from Hamamatsu Branch Chamber of Commerce & Industry Shizuoka Pref. (5)
Petition with annexes A, B, C, D. (5)
Production report 1935-45 (4)

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DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

HEADQUARTERS
SHIZUOKA MIL GOV'T TEAM
APO 710

5 Oct. 1946

SUBJECT : Petition for removal from reparations listing (Enshu Shokki K.K., 4888 Takatsuka, Kami-mura, Hamana-gun. SCAPIN - 1133)

TO : Commanding Officer, Tokai-Hokuriku Mil Govt Region
APO 710.

1. Forwarded herewith for consideration by higher authority is petition of subject installation for removal from provisions of SCAPIN 1133 of that portion of their equipment considered necessary for minimum civilian operation.

2. It is stated that 60% of all automatic looms in the national textile industry were the patented looms of this factory and for that reason continued operation of the plant is essential to the textile industry.

3. From a total of approximately 688 machine tools, the company requests the release of approximately 207, for the manufacture of textile machinery.

FOR THE COMMANDING OFFICER:

CLARENCE S. DAVIS,
Capt., A.C.
Adjutent.

Inclosures.

Letter from Enshu Shokki K.K. (5)
Letter from Japan Textile Machine Industry Federal Association (5)
Letter from Japan Textile Association (5)
Letter from Hamamatsu Branch Chamber of Commerce & Industry Shizuoka Pref. (5)
Petition with annexes A, B, C, D. (5)
Production report 1935-45 (4)

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DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

HEADQUARTERS
SHIZUOKA MIL GOV'T TEAM
APO 710

5 Oct. 1946

SUBJECT : Petition for removal from reparations listing (Enshu Shokki K.K., 4888 Takatsuka, Kami-mura, Hamana-gun. SCAPIN - 1133)

TO : Commanding Officer, Tokai-Hokuriku Mil Govt Region
APO 710.

1. Forwarded herewith for consideration by higher authority is petition of subject installation for removal from provisions of SCAPIN 1133 of that portion of their equipment considered necessary for minimum civilian operation.

2. It is stated that 60% of all automatic looms in the national textile industry were the patented looms of this factory and for that reason continued operation of the plant is essential to the textile industry.

3. From a total of approximately 638 machine tools, the company requests the release of approximately 207, for the manufacture of textile machinery.

FOR THE COMMANDING OFFICER:

CLARENCE S. DAVIS,
Capt., A.C.
Adjutant.

Inclosures.

Letter from Enshu Shokki K.K. (5)
Letter from Japan Textile Machine Industry Federal Association (5)
Letter from Japan Textile Association (5)
Letter from Hamamatsu Branch Chamber of Commerce & Industry Shizuoka Pref. (5)
Petition with annexes A, B, C, D. (5)
Production report 1935-45 (4)

1438

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Enshu

HEADQUARTERS
SHIZUOKA MIL GOV'T TEAM
APO 710

5 Oct. 1946

SUBJECT : Petition for removal from reparations listing (Enshu Shokki K.K., 4888 Takatsuka, Kami-mura, Hamana-gun. SCAPIN - 1133)

TO : Commanding Officer, Tokai-Hokuriku Mil Govt Region
APO 710.

1. Forwarded herewith for consideration by higher authority is petition of subject installation for removal from provisions of SCAPIN 1133 of that portion of their equipment considered necessary for minimum civilian operation.

2. It is stated that 60% of all automatic looms in the national textile industry were the patented looms of this factory and for that reason continued operation of the plant is essential to the textile industry.

3. From a total of approximately 878 machine tools, the company requests the release of approximately 207, for the manufacture of textile machinery.

FOR THE COMMANDING OFFICER:

CLARENCE S. DAVIS,
Capt., A.C.
Adjutant.

Inclosures.

Letter from Enshu Shokki K.K. (5)
Letter from Japan Textile Machine Industry Federal Association (5)
Letter from Japan Textile Association (5)
Letter from Hamamatsu Branch Chamber of Commerce & Industry Shizuoka Pref. (5)
Petition with annexes A, B, C, D. (5)
Production report 1935-45 (4)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Enclosure

HEADQUARTERS
SHIZUOKA MIL GOV'T TEAM
APO 710

5 Oct. 1946

SUBJECT: OI-1/2 Report (Enshu Shokki K.K., 4888 Takatsuka, Kami-mura, Hamana-gun --SCAPIN 1133)

TO : Commanding Officer, Tokai-Hokuriku Mil Govt Region, APO 710

1. The following report is submitted in compliance with paragraph 3c of OI 1/2 Hq. I Corps, 20 July 1946:

a. The machinery in the plant is in good condition.
b. Proper protective measures to preserve the equipment have been taken.
c. The management has complied with the provisions of OI 1/2.

2. The company is operating under a "short-form" permit issued by 30th Mil Govt Shizuoka Detachment in December 1945. Continued operation is recommended as the plant is currently repairing 150 sets of looms of its own manufacture per month which is essential to the textile industry and producing flour mills for processing grains for civilian consumption. Operation involves no conversion of equipment.

FOR THE COMMANDING OFFICER:

CLARENCE S. DAVIS,
Capt., A.C.
Adjutant.

Inclosures:

Inspection sheet - (5)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

(6)

FORM RCI-7

HEADQUARTERS
SHIZUOKA MIL GOV'T TEAM
APO 710, (Shizuoka, Honshu)

Reparations Inspection Sheet (pl 1/2)

4 Oct 1946

1. Company: Enshu Shokki K.K. 2. Plant:
3. Address: 4888 Takatsuka, Kamimura, Hamana-gun
4. Name of Custodian: T. Sakamoto, mgr.
5. Permit No: S-44 6. HQ: 30th MG Shiz. Det. Date: Dec 1945
8. Principal Pre-1941 Products:

Product	Approx. % of Production (1937-40)	(1941-45)
loom and textile machinery	68%	
Machine Tools	17%	99 1/2 %
Bullets	15%	1/2 %

10. Present Products:

Product	Amount
loom repair	150 units per month
Hand mills	5000 "
Motor driven mills	50 "
Vermicelli machines	300 "

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

* 11. Year Plant Construction completed: 1936

* 12. No. of Machines Suitable for Reparations: 600

13. Machinery Lubricated and Protected? Yes

14. Should Machinery be Centralized? No

15. Plant Posted and Guarded? Yes

* ~~16. Originally organized for Munitions Production?~~ No

* ~~17. Converted for Munitions Production Through Major Change in Volume or Character of Equipment?~~ No

18. Should Plant continue Operations? Yes

* ~~19. Should plant be removed from Reparations?~~

20. (Check According to SCAPIN 1133) OK

* Munitions Plants only

Signed _____
V W Jones Lee
Comm & Ind Sec

note. Data presented indicates that due to wide use of this firms looms in national Textile Industry consideration should be given to firms petition to have sufficient machines exempt to continue operation on a maximum basis.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

44

STATEMENT OF JAPANESE WAR INDUSTRIES DESIRING TO RECONVERT OR TO RESUME OPERATION

Date 10 Dec 1945

1. Name of firm Enshu Shokki Kabushiki Kaisha -Takatsuka Factory (Enshu Weaving Machinery Co. Ltd.)

2. Official Address (Main Office) 4,888 Takatsuka Kami-mura Hamana-gun, Sizuoka-ken.

3. Address of Factory 4,888 Takatsuka Kami-mura Hamana-gun, Shizuoka-ken

4. Date incorporated or commenced operation 5 February 1920.

5. Names of items manufactured during war Looms, winder machine tools, Bullet Aircraft parts.

6. What commodities will be manufactured? Weaving Machines, preparing machines, Agricultural machines & Wood-working machims.s (See item K of attached application.)

7. The present machinery, tools and equipment in the factory can be used, without modification or conversion in any way in the production of civilian goods.

Yes - xxxx J.E

8. The above information is acknowledged to be true and correct. I am authorized to sign for the above company.

Name of applicant: J. Inomura J. Inomura

Relationship to company making application Director

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Application for the permission of reconversion

of former war indastrial enterprise.

A. Name: Enshu Shokki Kebushiki Kaisha
(Enshu Weaving Machinery Co. Ltd.)
President Kyugoro Sakamoto.

B. Capital: ¥ 2,400,000 (paid up)

C. Ownership: (Shareholder)

Nissin-Boseki Co. Ltd.	8,000
Yahei Oishi	4,485
Nichimen-Jitsugyo Co. Ltd.	3,600
Kyugoro Sakamoto	2,660
Seijiro Miyajima	2,526
Yamashichi Limited Partnership	2,364
Jirosaku Masui	1,000

D. Relations to the government: None.

E. Date of foundation:
Feturuary ~~2nd~~ 1920.

F. Location:

Head office	4,888 Takatsuka Kami-mura Hamana-gun Sizuoka-ken.
The Takatsuka factory	ditto.
The Yamato factory (unfinished)	100 Ikedani Taima-mura Kita-katsuragi-gun Nara-ken.

G. General discription of machinery and plant:

Land	113,693 sq. meter	
Buildings	22,839 sq. meter	
Machines	Machine tools	389
	Industrial machines	47
	Electric machines	316
	Precision machines	20
	Foundry	500 ton/month

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Possessive raw materials

Pig-iron	720.0 ton
Plain steel	141.8
~~(Special steel for military use)~~	
Special steel	35.5
Electolitic copper	5.0
Zinc	0.7
Lead	1.0
Tin	1.4
Electric wire	0.08
Paints	2.2

H. Number of employees:
466 employees doing post-war affairs now, and in future they will be increase by begining manufacture.

I. Production before the war:

	Looms, Winder & their parts	
1935	2,385	
1936	2,866	
1937	3,608	(thousand yen)

J. Production during the war:

	Looms, Winder & their parts	Machine tools & their parts	Billet	Aircraft parts
1938	2,408	78	859	
1939	850	916	840	
1940	641	1,903	347	
1941	350	2,831	400	
1942	147	4,515	397	
1943	188	6,303	221	
1944		8,222	509	224
1945		664	230	221

(thousand yen)

K. Future plan of production:

The items expected to be manufactured	The quantity of each
Weaving Machine	600 sets /month
Cotton & Stable fiber	
Silk & Artificial silk	
Preparing Machine	40 sets
Warp winder	
Weft pirn winder	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

	Warping machine		
	Drying and sizing machine		
Agricultural Machine			
	Corn mill (moter drive)	3,050 sets	
	(hand drive)		
	Stone roller mill		
	Rice polishing machine		
Wood-working Machine			
	Circular saw bench	60 sets	
	Band sawing machine		
	Cross-cut sawing machine		
	Surface planing machine		
	Spindle moulding machine		
	Wood boring machine		
	Lathe		

Necessary raw materials for manufacture (during the last half 1945)

Chief raw	Plain steel	331.7	ton
	Hard steel	4.5	
	Extract shaft	43.5	
	Wood screw	4.8	
	Split pin	0.7	
	Hard steel wire	15.0	
	Iron wire	0.3	
	Spring steel	7.7	
	Pig-iron	1,420.9	
	Aluminium	3.6	
	Babbit metal	1.5	
	Gun metal	0.964	
	Copper	0.112	
	White fibre	0.187	
	Round brass	0.057	
	Brass tube	0.224	
	Sheet brass	0.438	
	Phosphor bronze wire	0.804	
	Lerther	53.21	
	Sheet iron	8.517	
	Extract steel pipe	28.242	
	Wood	13.93	cu. meter
Subsidiary raw			
	Lubricating oil	885.6	gallon
	Motor oil	22.7	
	Save oil	134.7	
	Heat treatment oil	22.7	
	Glease	9.0	
	Wood	8,506.8	cu. meter
	Nail	5.1	ton

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

	Rope	6.375 ton
	Straw-mat	3.187
Fuel	Coal	170.0 ton
	Coke	850.0

It is one's intention to acuire those raw by application for Department of commerce & industry or exchange with finished goods.

Prearranged date of begining manufacture:
As soon as delivery of the permission.

THE END

December 1st 1945

Enshu Weaving Machinery Co. Ltd.

Director J.Enomura

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

-445 V

STATEMENT OF JAPANESE WAR INDUSTRIES DESIRING TO RECONVERT
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(See item K of attached application.)

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Yes - ~~No~~ J.E.

8. The above information is acknowledged to be true and correct. I am authorized to sign for the above company.

Name of applicant: J. Enomura J. Enomura

Relationship to company making application Director

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

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President Kyugoro Sakamoto.

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C. Ownership: (Shareholder)

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Kyugoro Sakamoto	2,660
Seijiro Miyajima	2,526
Yamashichi Limited Partnership	2,364
Jirosaku Yasui	1,000

D. Relations to the government: None.

E. Date of foundation:
Feburuary ~~end~~ 1920.

F. Location:

Head office	4,888 Takatsuka Kami-mura Hamana-gun Sizuoka-ken.
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DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

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~~(6.8 military use)~~	
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Warp winder	
Weft pirn winder	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Warping machine		
Drying and sizing machine		
Agricultural Machine		
Corn mill (moter drive)	3,050	sets
" (hand drive)		
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Wood-working Machine		
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Lathe		

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	Wood	13.93	cu. meter
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	Wood	8,506.8	cu. meter
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DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

	Rope	6.375 ton
	Straw-mat	3.187
Fuel	Coal	170.0 ton
	Coke	850.0

It is one's intention to acuire those raw by application for Department of commerce & industry or exchange with finished goods.

Prorronged date of begining manufacture:
As soon as delivery of the permission.

THE END

December 1st 1945

Enshu Weaving Machinery Co. Ltd.

Director J.Enomura

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

MACHINE - (TOOLS)
(Type of Industry)

File No.

Enshu Weaving Machinery Co. Ltd.
(Name of Industry)

President
Enshu Machinery Co. Ltd.

K Sakamoto

Headquarters
25th Infantry Division, APO 25
Office of the AC of S, G-2

INDUSTRIAL SURVEY QUESTIONNAIRE

1. Date of Inspection_____ Serial Number of Installation_____

2. Inspecting Officer:_____
(Name, Rank, Unit)

3. Address: 4888 Takatsuka Kami-mura Hamana-gun Shizuoka-ken.

4. Coordinate Location:_____

5. History and Capital Structure:

a. Date of Construction: Jul. 1936

b. Date of First Operation: Jul. 1936

c. 1935-1941 Production(Annual value in Yen; quantities of principal products by unit or weight)_____

Vide the reverse side.

d. Present Capitalization in Yen 17,064 thousand Yen.

e. Changes in Capital Structure since 1935:

Increase capital amount ¥2,400,000 in Dec. 1942.

f. Name and address of parent company: None.

g. Number of shares outstanding: 48,000

h. Value of each share: 50 Yen.

i. Number of stock holders(Name of each individual owning more than 10% of total stocks)

Nissin-Boseki Co.

j. Funds received from Government (Bounties, subsidies, etc) ¥8,000---Nov. 1926. ¥10,000---Dec. 1936. ¥20,000---Jan. 1943.

List \ Year	1935		1936		1937		1938		1939		1940		1941		TOTAL	
	Number	thousand yen	Number	thousand yen	Number	thousand yen	Number	thousand yen	Number	thousand yen	Number	thousand yen	Number	thousand yen	number	thousand yen
Looms, Winder and their parts	10.314	2.385	15.833	2.866	22.484	3.608	11.089	2.405	772	850	143	641	167	350	61.202	13.105
Machine tools and their parts						6	145	241	180	897	673	1.789	841	2.805	2.185	1.838
Bullets					unknown	21	339	838	366	840	116	347	104	400		2.446

These number not hold parts number.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

6. General Description:
a. Principal Products:

(1) Wartime: Machine tools & their parts. Bullet(shell only). Aircraft parts.

(2) Present: Looms, winder & their parts. Machine tools & their parts. Agricultural machine.

(3) Planned for 1946-1947): 1946----ditto. 1947----Looms, Winder & their parts. Machine tools & their parts. Agricultural-machine. Wood-working machines.

b. Capacity:

(1) Wartime: Vide the reverse side.

(2) Present:

(3) Planned for 1946-1947:

c. Number of Employees:

(1) Wartime: 2,169

(2) Present: 399

(3) Planned for 1946-1947: 1946----900. 1947---1,500

7. Machinery and Equipment in Plant at Present:

Description	Quantity	Condition
Estates	113,693 sq.metre	
Buildings	21,493 sq.metre	
Machine tools	423 set	damage 53 set
Industrial machines	30 set	" 2 set
Foundry	500 ton/month	

8. Present stocks of raw materiels, supplies and unfinished products:

Description	Quantity	Condition
Steel	271 ton	good
Pig-iron	227 ton	"
Electric motor	147 set	"
Bearing	52,505 piece	"
V belt	6,765 piece	"

9. Present stocks of finished products:

Description	Quantity	Condition
Vertical milling machine	123 set	good
Plain milling machine	7	"
Boring machine	8	"

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

b. 1)Wartime

Machine tools & their parts	6,346	thousand yen
Bullet	376	"
Aircraft parts	528	"

2)Present

Looms, winder & their parts	9,826	
Machine tools	4,477	
Agricultural machine	5,388	

3)1946

Ditto.

1947

Looms, winder & their parts	30,240	
Machine tools	6,570	
Agricultural machines	4,080	
Wood-working machine	2,000	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

10. Present stocks of Fuel:

Description	Quantity
Coal	130 ton
Coke	20
Charcoal	0.6

11. Machinery and equipment needed for maximum civilian production(1946-1947):

Description	1946 Quantity	1947
Machine tools	400set	630set
Industrial machine	25	31
Foundry		500 ton/year

12. Raw materiels and supplies needed monthly:

a. For present capcity(6b2):

Description	Quantity
Steel 49t. Pig-iron 173t. Steel tube 3.6t. Copper alloys 1t. Leather 7t. Wood 756cu.metre. Lubricating oil 249.8gal. Cutting oil 1,203.6gal. Heat treatment oil 41.6gal. Supplies needed ¥75,000	

b. For maximum capacity (6b3):

Description	Quantity
Steel 119t. Pig-iron 422t. Steel tube 8.7t. Copper alloys 2t. Leather 17t. Wood 1,844cu.metre Lubricating oil 609gal. Cutting oil 2,933gal. Heat treatment oil 98.4gal. Supplies needed ¥183,000	

13. Fuel needed monthly (Do not include present stocks):

Description	Quantity											
	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
Coal.	4.8t	9.6	11.0	11.6	12.6	15.7	19.8	23.6	27.7	35.9	38.8	48.1
Coke.	24.0	47.4	54.9	58.3	63.2	78.5	99.2	118.	138.	180.	194.	235.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

14. Additional personnel required (not locally available):

Special Skills	Number
None.	

15. Prices (current selling price in yen of principal products):

Description	Unit		Price
Ordinarily weaving machine		1 set	6,300 yen
Machine tool			
Vertical milling machine	No.1BV	1	19,000
"	No.2BV	1	28,500
Plain milling machine	No.1BP	1	17,500
"	No.2BP	1	25,000
Agricultural machine			
Corn mill (hand drive)	SMK No.1	1	65

16. Estimate of Damage suffered:

a. Structural

(1) Percent totally destroyed: 10%

(2) Percent Damaged:

(3) Percent Undamaged: 90%

b. Machinery and equipment:

(1) Percent totally destroyed: 2.8%

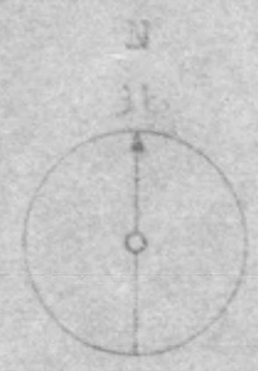
(2) Percent Damaged:

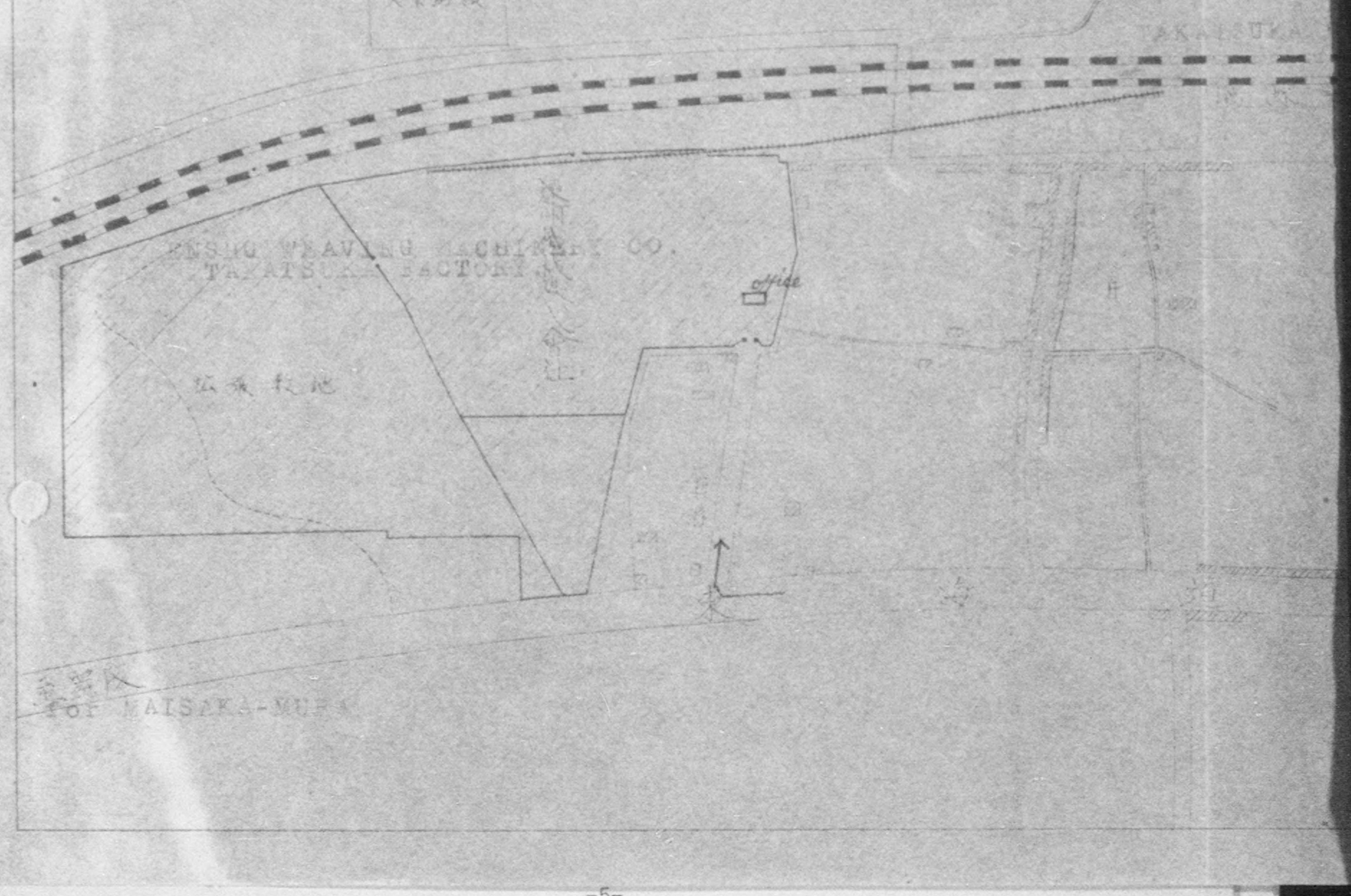
(3) Percent Undamaged: 97.2%

Corn mill (moter drive)	FM	1	6,800
Wood-working machine			
Band saw	42"	1	20,000

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

17. Space below will be used for outline sketch of plant layout showing approximate dimensions:





DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

ant layout showing approx-

織機械株式會社附近見取圖

WEAVING MACHINERY CO., LTD.

縮尺 5000分一

SUZUKI-SHIKI SHOKKI CO.

TAKATSUKA STATION

TOKAIDO

TAKATSUKA

21. L. 24

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

INSTRUCTIONS

1. Purpose of this form is to present a complete picture of the industrial installation in question.

2. If exact information is not available make estimates and mark them as such.

3. Use the reverse side of any sheet for additional space if needed or add additional sheets.

4. Where capacities or quantities are given state clearly unit of measure.

5. Wherever possible information derived from Jap sources will be checked and verified by actual physical inspections.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

C O N T E N T S

(1) Annual Production in Quantity & Value from 193? to 194?

(2) Table shewing the Installed Machines used for the production, and their percentages

x x x x x x x x x

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

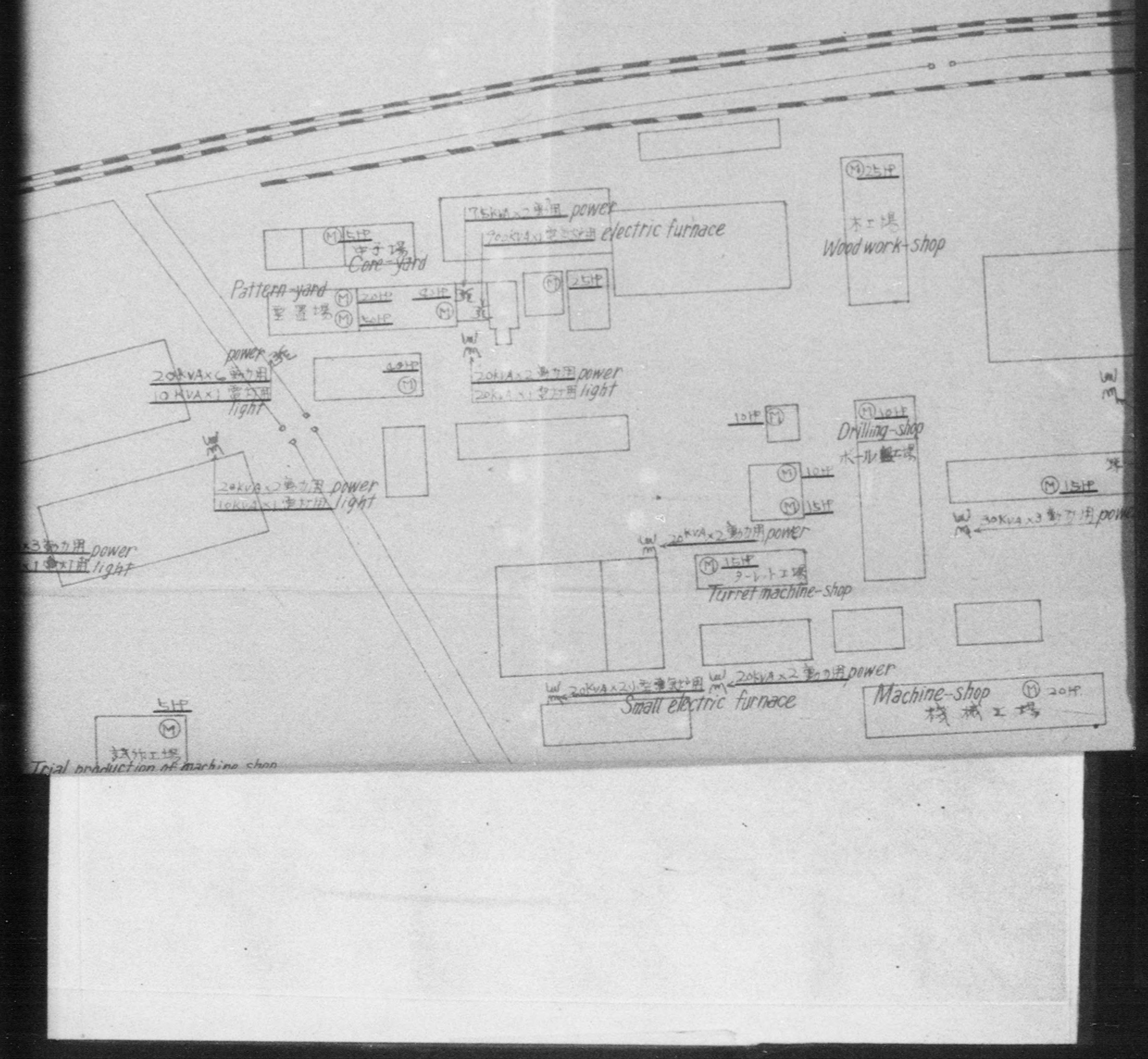
Arrangement diagram of Transformers

遠州織機株式會社

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Transformers and Main driving Motors in Enshu weaving machinery

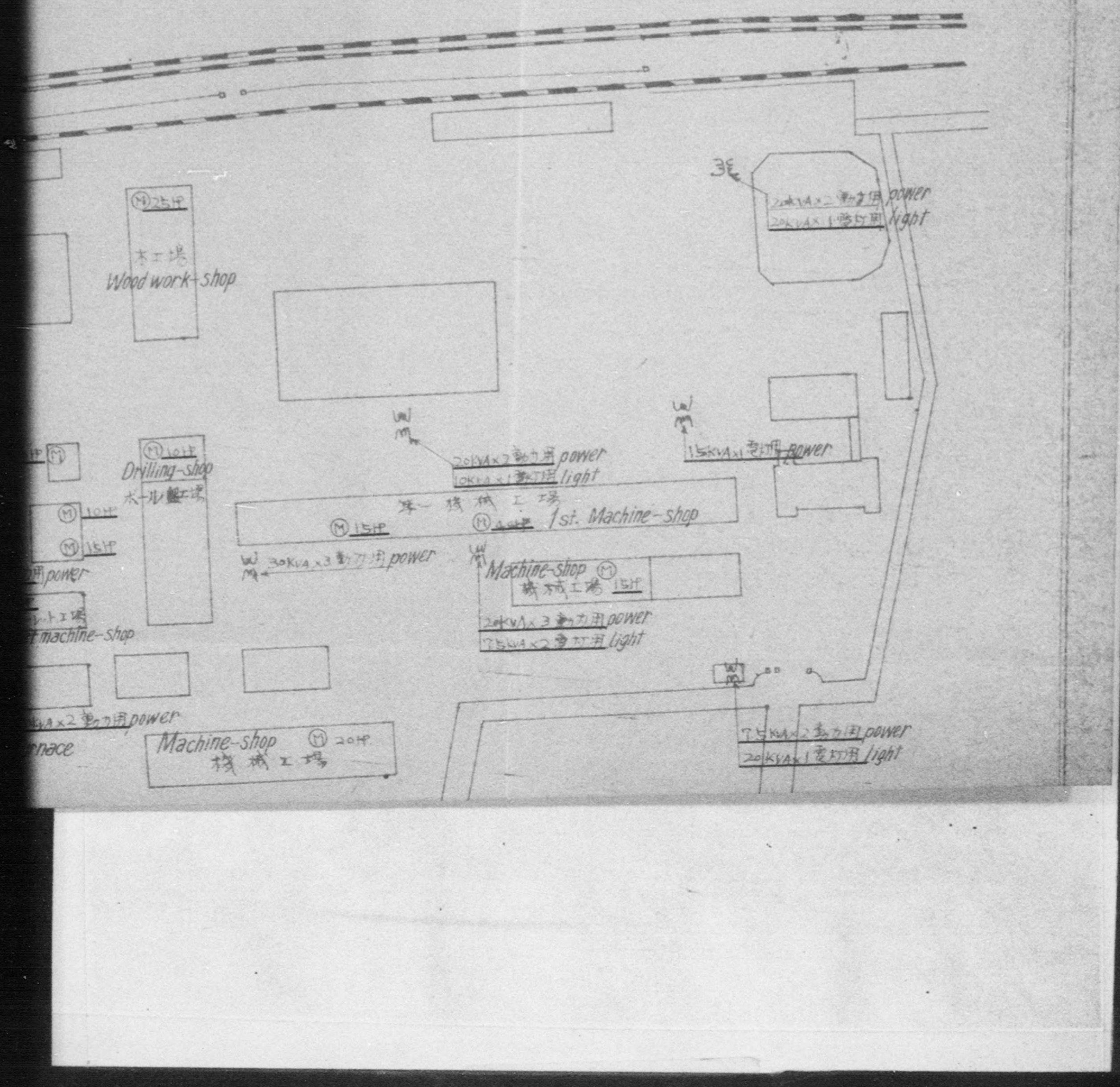
織株式會社工場變压器並原動電動機設備圖　縮尺 ¼



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

nshu weaving machinery Co. Ltd.

機設備圖　　縮尺 X200　Scale 1-1200



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

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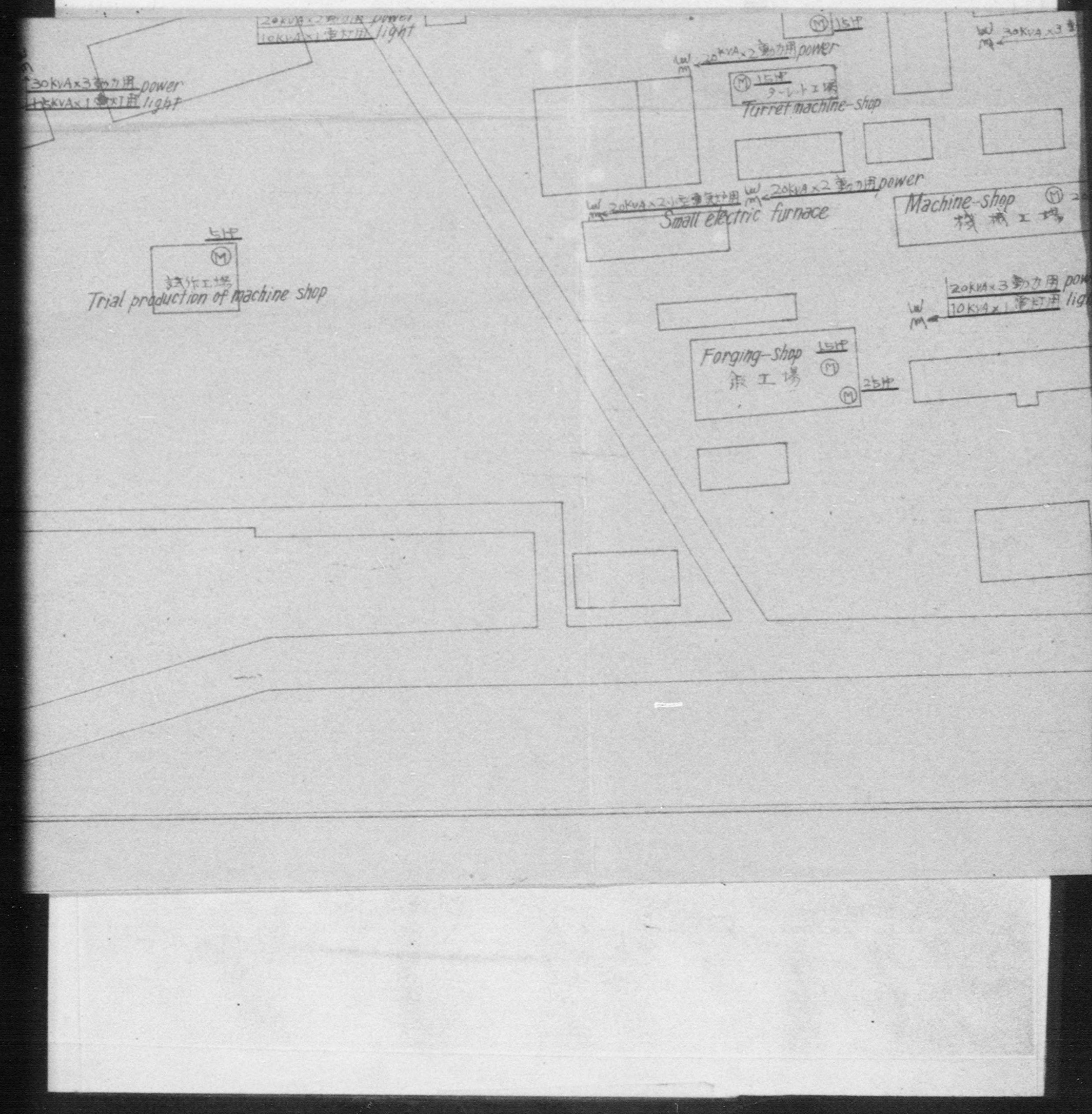

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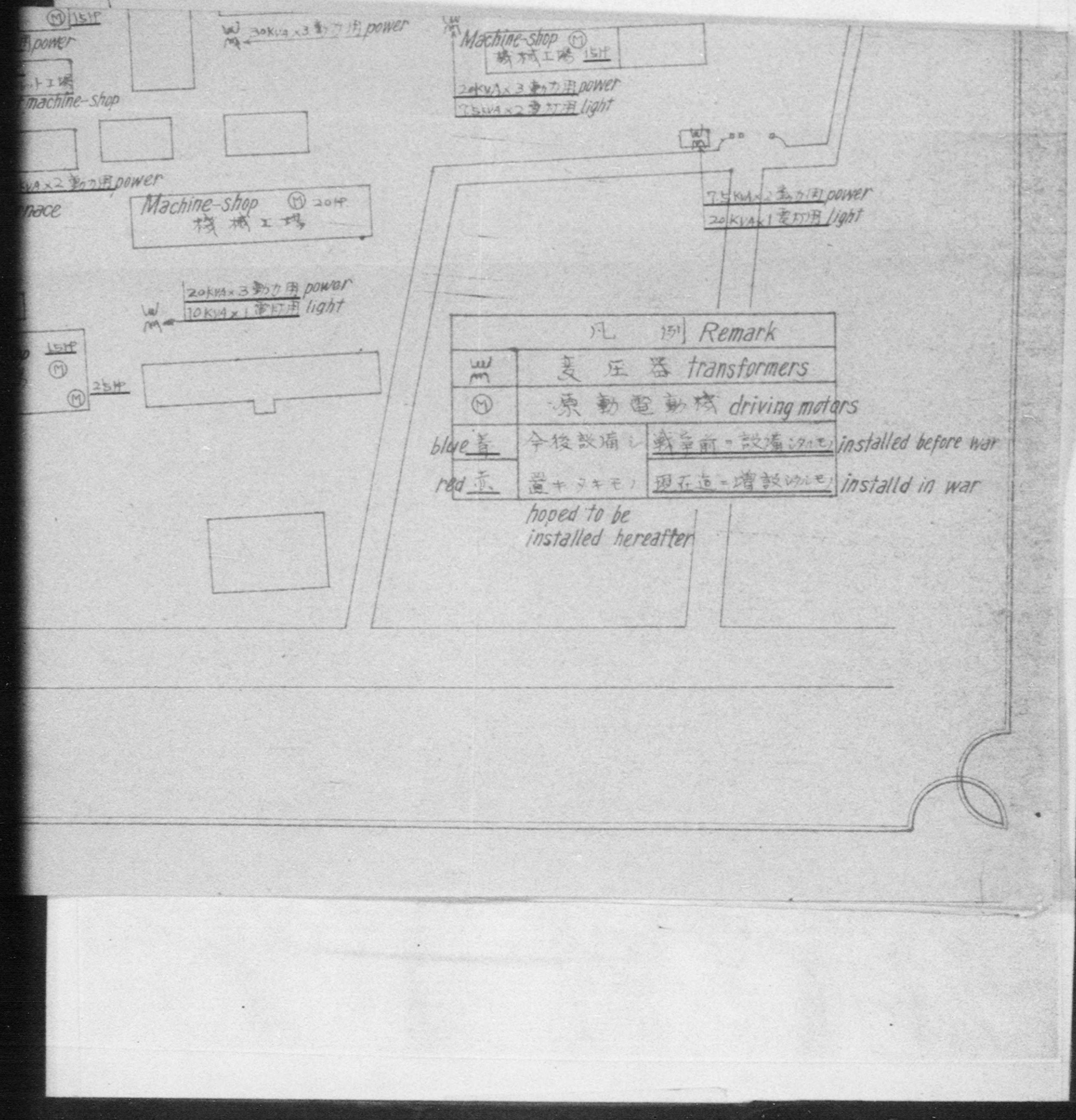

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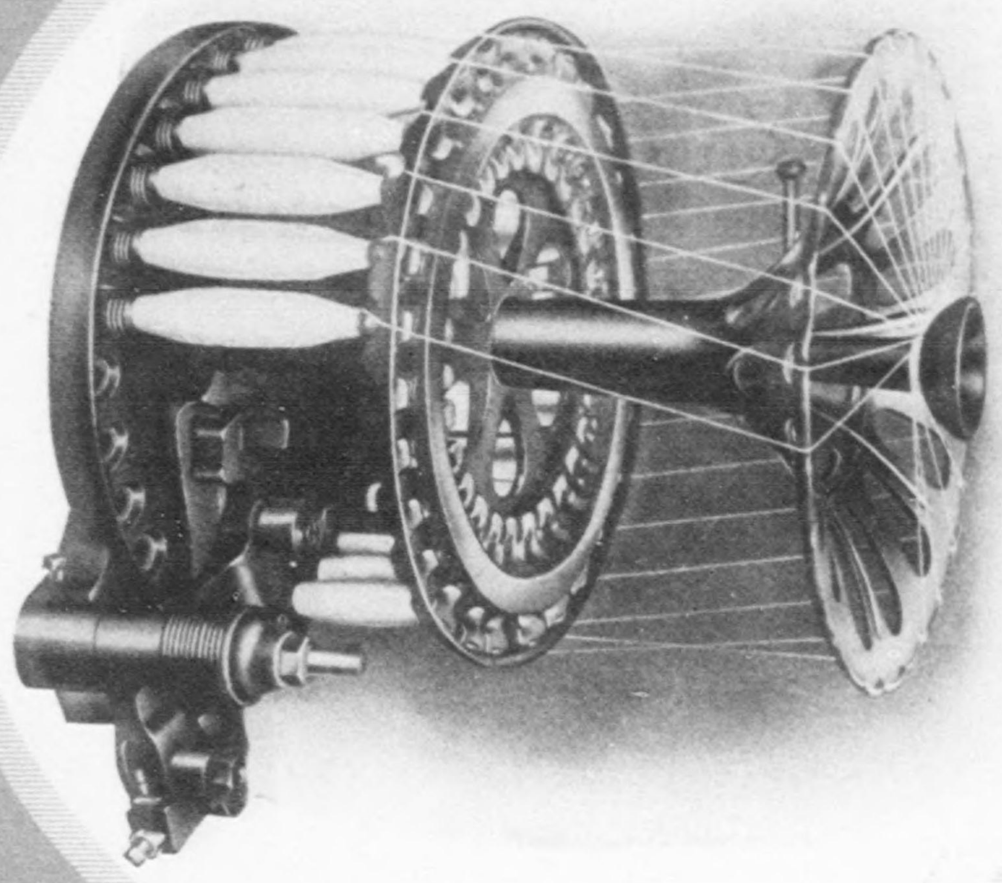
PATENT

SAKAMOTO'S

Automatic Loom

LATEST IMPROVED TYPE



ENSHU SHOKKI KABUSHIKI KAISHA

THE ENSHU WEAVING MACHINE MANUFACTURING Co.

LIMITED

HEAD OFFICE & FACTORY Hamamatsu, Japan,
BRANCH Edobori, Nishiku, Osaka, Japan.

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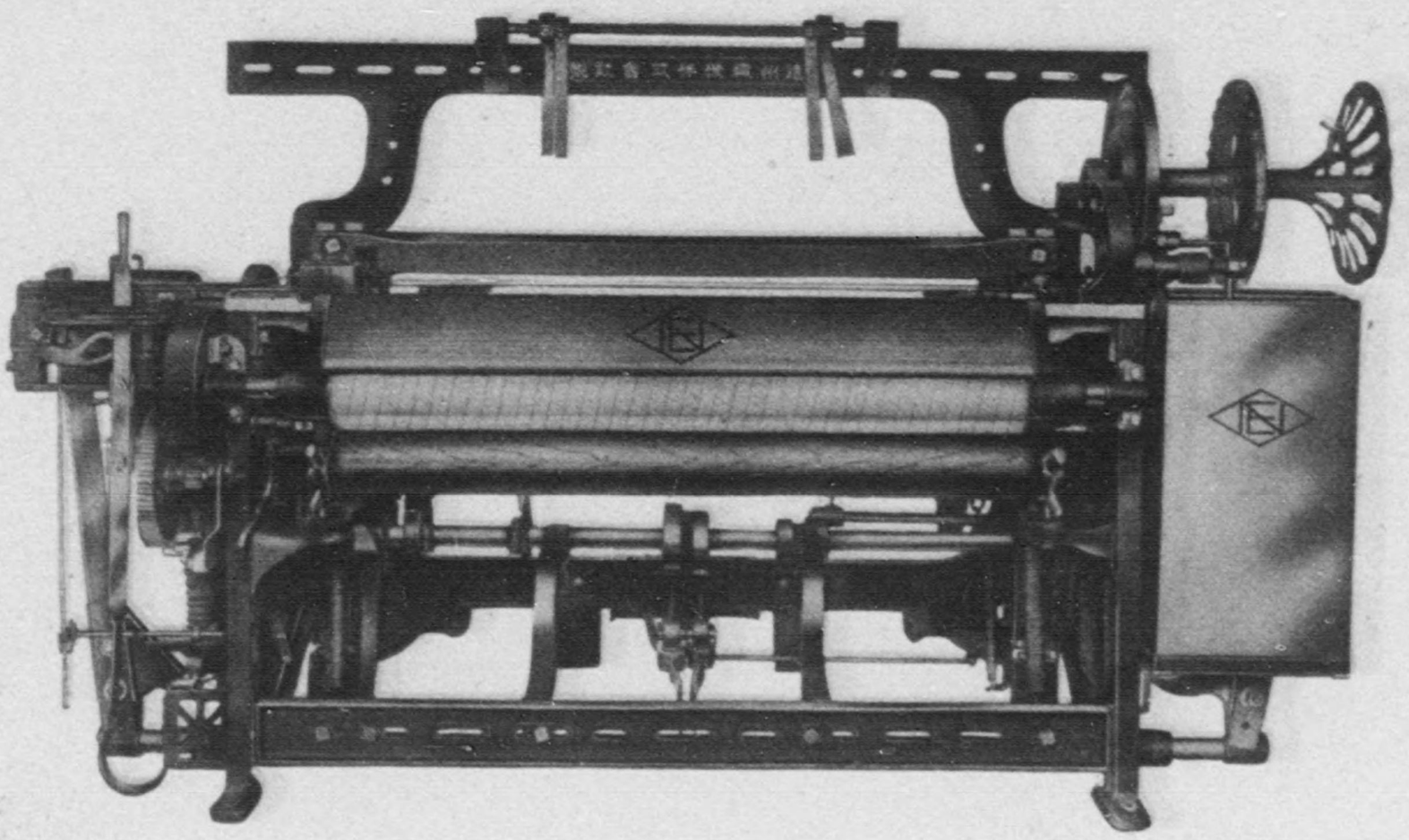
Sakamoto's Patented Automatic Loom
Front View



LATEST IMPROVED TYPE SAKAMOTO'S PATENT AUTOMATIC LOOM·

The Sakamoto's Automatic Loom, with its many patented features is the last word in the achievement of Automatic Looms.

These patents comprise over 100 Nippon, English, American, French, German, Swiss, British Indian and Canadian.

The Loom is an ideal machine perfected after many years' experiments and extensive research work.

In the selection of materials, newness od design. skilled workmanship and low price, it stands unrivalled in the field of Loom-making.

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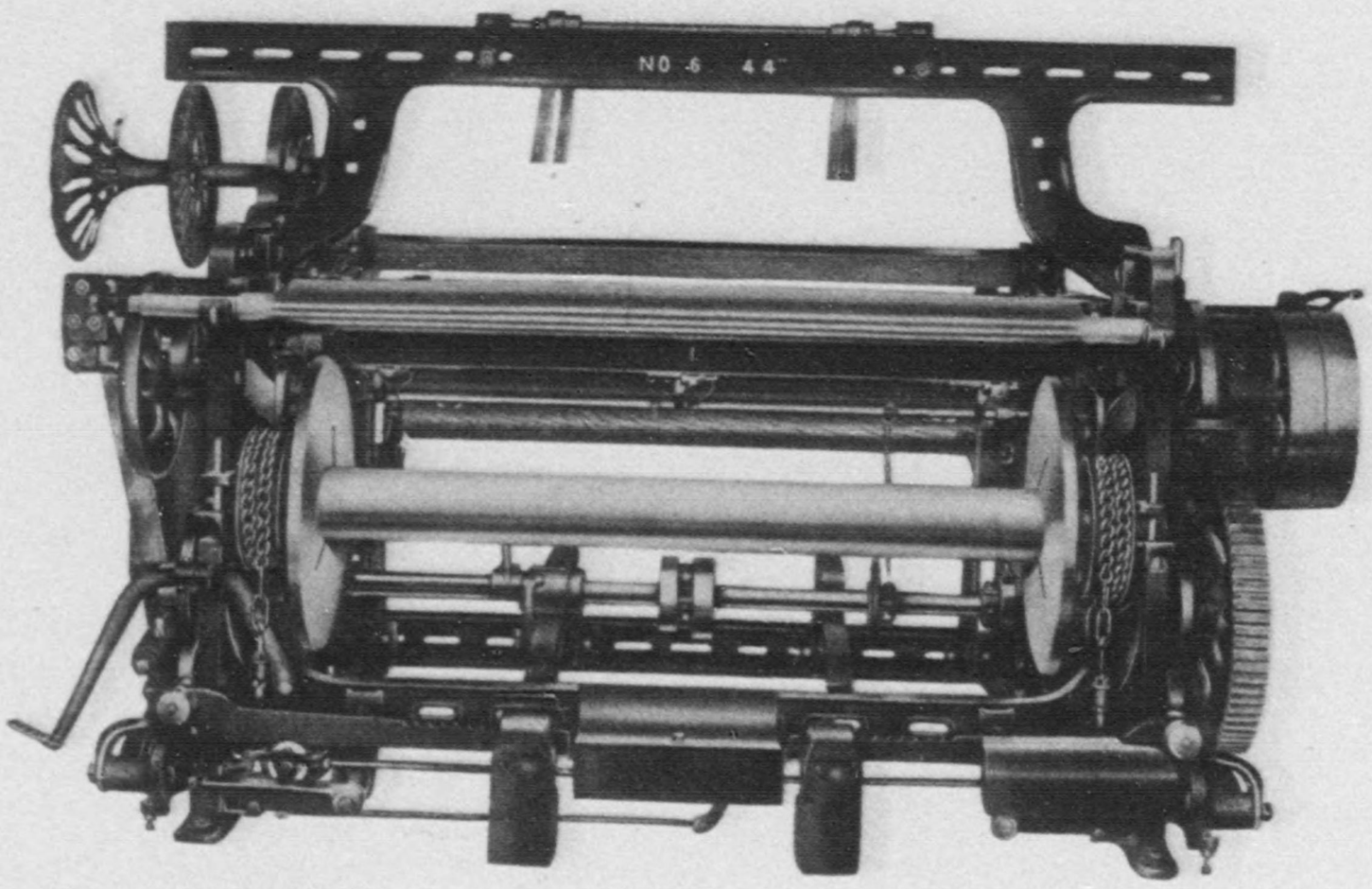
Sakamoto's Patent Automatic Loom
Back View



Principal Features:

(1) Being a Cop-change loom, a bobbin with an abundant quantity of the Weft yarn may be mounted on the Hopper.

(2) When replenishing the weft, it is not necessary to stop the running loom.

(3) Perfectly smooth running is guaranteed, being of solid and rigid construction. No skilled labour in the manipulation is required.

(4) The world-famous Weft-feeler is equipped to control the motion of Weft, and Shuttle-Feeler and Mis-Thread device will take care of the Shuttle in perfect order.

(5) To ensure the perfectly fine quality of the product, an ideal Warp-Feeder will supply the Yarn at proper tension at all times.

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(6) A special Temple-Cutter, Thread-Cutter and Fork Release Motion will produce the cloth with the finest selvedge.

(7) The Pick-Motion and Weightless Side-Lever will regulate the movements of the Shuttle to a perfect degree hitherto otherwise unattained.

(8) The Warp Stop Motion is a most up-to-date design.

These many improvements embodied in the construction of the Sakamoto's Automatic Loom increases the number of looms per operative, and decreases, at the same time, motive power consumption of all materials.

The users will be sure to derive full benefits from the economy of production cost, and from realisation of good prices for the products of the Loom.

Specification.

Floor Space:

(For a loom of working width 44″)
Right hand ..... 8′ — 5⁄8″ × 4′ —5″
Left hand ..... 7′ —8¼″ × 4′ —5″

Pulley:

For 38″ Reed Space ..... 12″ × 2⅛″
44″ ″ ″ ..... 13″ × 2⅛″
50″ ″ ″ ..... 14″ × 2⅛″

Number of Picks:

170 to 210 picks per minute.

Horse Power Required:

3 looms per horse power.

Reed Space:

38″, 42″, 44″, 50″, 60″ and 64″. 74″ 86″ 98″ 100″
104″ 110″ 120″.

12 20 / 24 / 1347 2 1/30

THE TOYODA AUTOMATIC LOOM WORKS, LTD.

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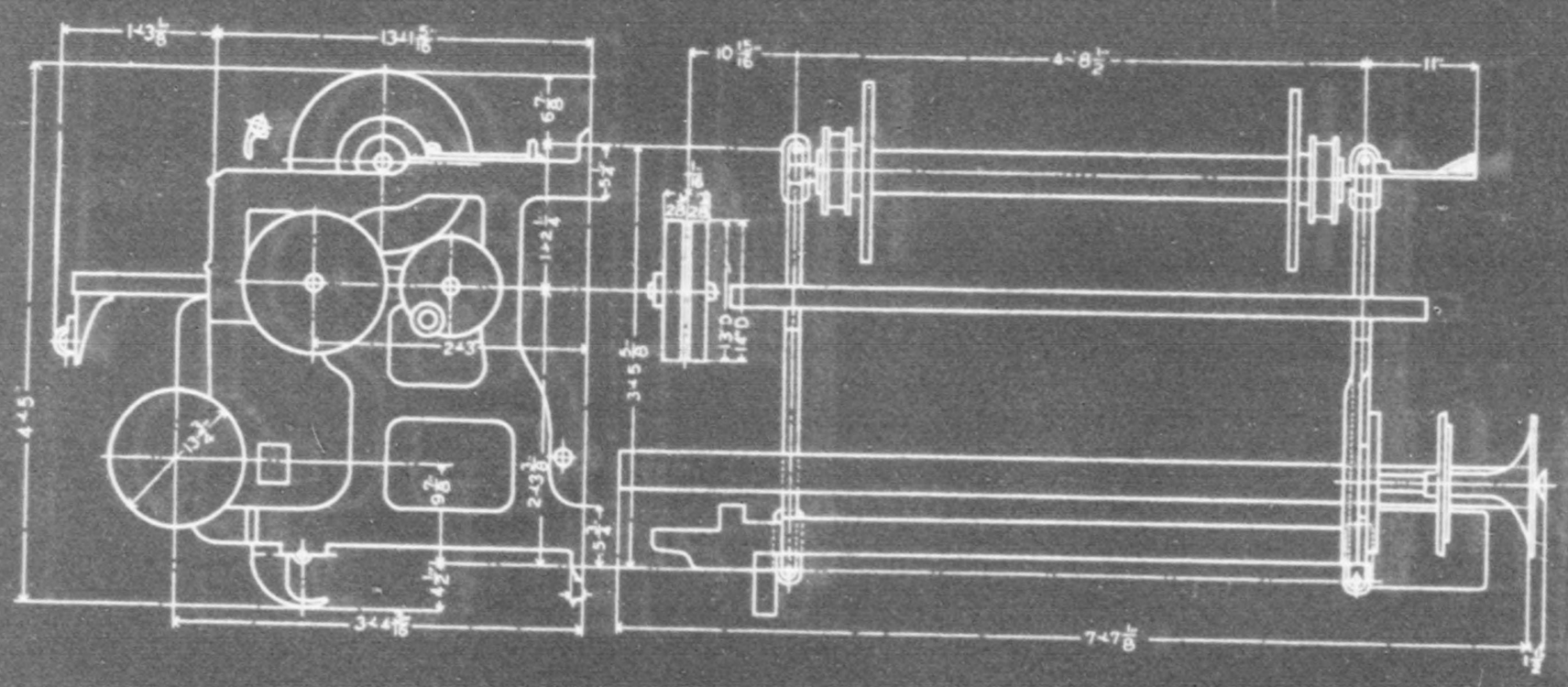
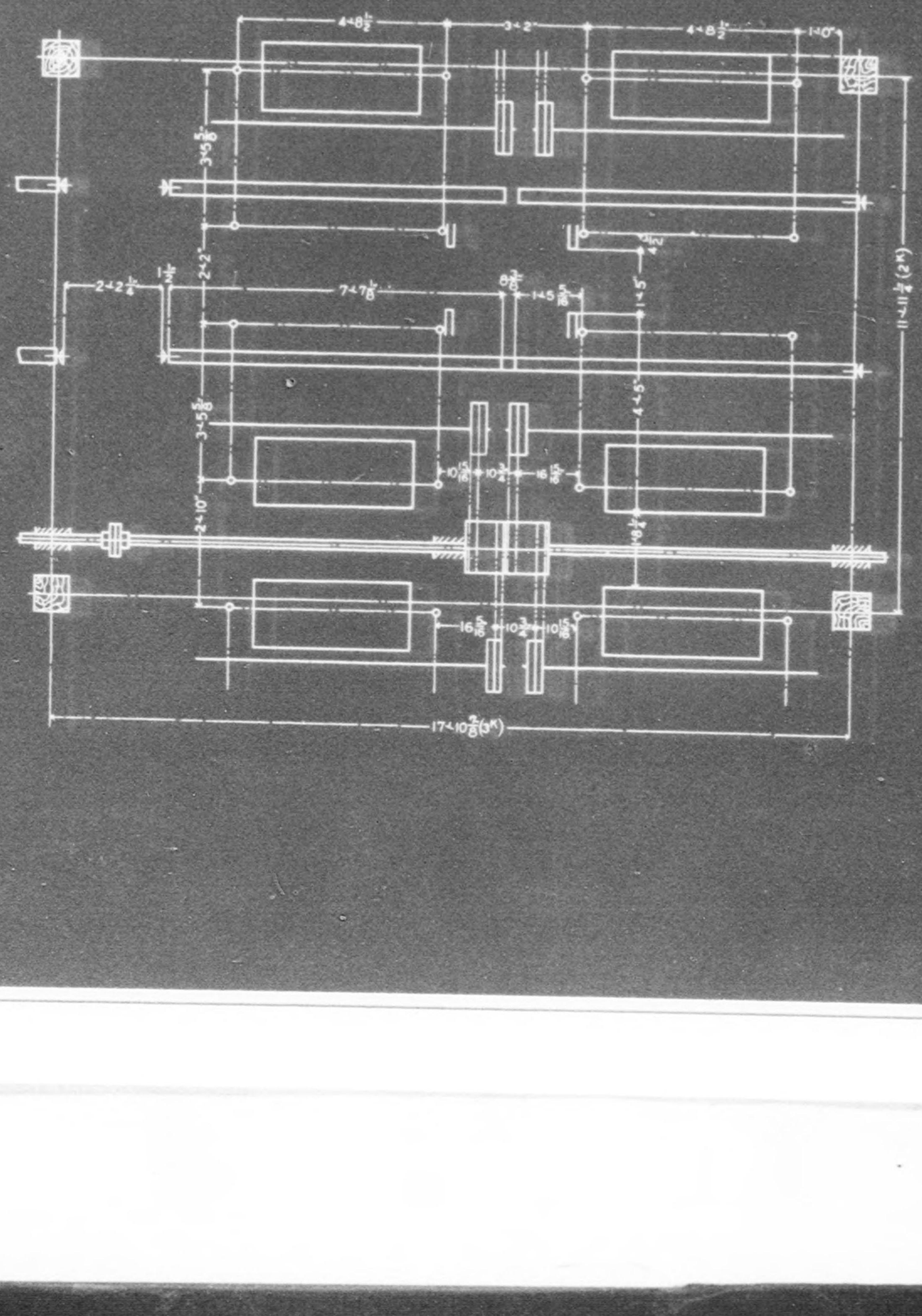
阪本式幅巾44吋自働織機据付圖

Foundation Drawing of a 44" Reed space Loom





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専賣特許

阪本式織機

PATENTED SAKAMOTO'S LOOM

SAKAMOTO'S Weaving Power Loom is able to weave all kinds of fine fabrics with its up-to-date special constructions, in respond to the requirements of present progressive times.

ENSHU WEAVING MACHINE MANUFACTURING WORKS

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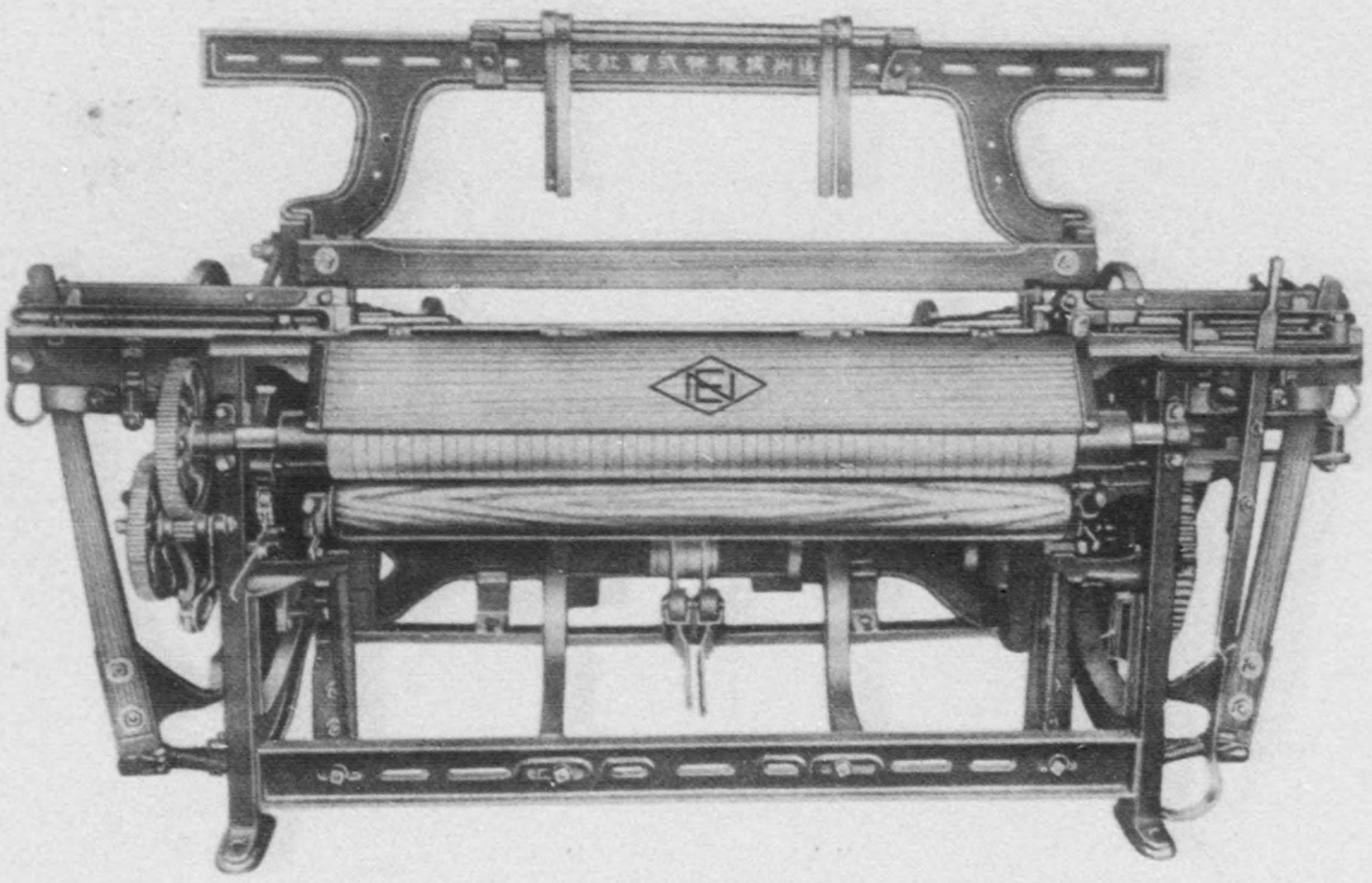
Patented Sakamoto's Loom Front View



SAKAMOTO'S POWER LOOM

SAKAMOTO'S PATENTED POWER LOOM is the result of extensive experiments and perpetual studies over ten years. Still more, in order to keep abreast with the present progressive times, the loom is accomplished as first class one with its newest constructions, improved by means of actual tests and dynamics. With good selection of materials and superior workmanship we have produced this finest looms and achieved wanderfully good reputations in the field of Loom designing.

USING: Will weave all kinds of pieces, silk, cotton, wool, flax, staple fiber, lights stuffs as well as heavy ones.

SPECIAL FEATURES:

Up-to-Date Construction. This loom is equipped with special let-off motion,

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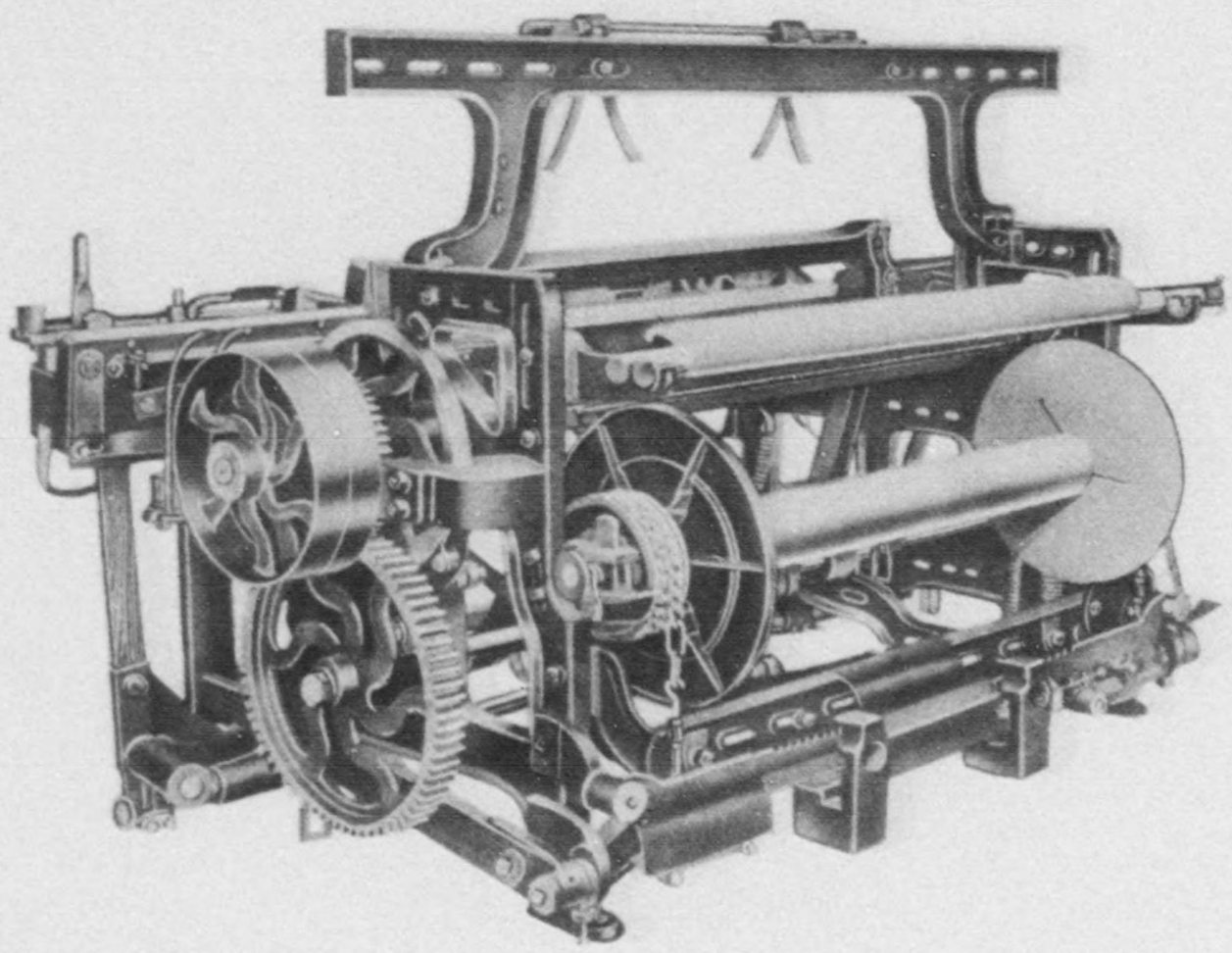
Patented Sakamoto's Loom Back & Side View



similar to the popular weight balancing system, which gives just proper tension to the warp during work. This newest system patented is automatically adjusted, and will keep the tension of the warp always right.

The picking system is provided with patent buffer, and the speed may be maintained constant by the thumb screw. Automatic warp change device and warp stop motion may be put on, without radical change of the loom.

Rigidity of Construction.

In order to avoid the wear and tear of the component parts, proper materials (Cast iron, Malleable iron and Gun metal) examined on exhaustive tests through chemical & phusical experiments, are employed in proper places according to their peculiar characteristics.

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The above Cast iron, Malleable iron and Gun metal which have been tested in hardness by Shear Hardness Testing Apparatus. And fathermore tempered or chilled wherever necessary. Enomous expenses or efforts have been paid in choosing best materials, if no products in the country, importing from abroad. All friction parts are given facility of lubrication, and nothing is left for getting durability and high speed running of the loom.

Perfect Workmanship. The life of loom, to a large extent, depends upon the workmanship. The whole process of manufacture in our plant, from drawing of designs to the last stage of finish, is supervised with utmost care. All parts are turned out on precision machines, and perfectly smooth connections between them. Jigs are employed. Screws, Shafts and holes are all drilled on limit gauges. Thus smooth running at all times is ensured, and the only minimum power necessary for operation.

Easy Manipulation. The loom is provided with the newest type negative let-off system attached with weight balancing, and is therefore, simpler handling and less disorders than positive let-off system which has been used on the most looms hitherto. The time is gone when stuffs from 40s were considered fine textiles: now 100s up to 200s yarns must be used, which necessiate the use of negative let-off system, otherwise you will be left behind times.

High Quality Turncut. Looms with positive let-off system cannot weave fine textile. The fact is well known in weaving industry. Our loom is equipped with the newest patented negative let-off system, and will weave from yarns from 100s and upwards, no matter what material, rayon, wool, real silk, cotton, flax or staple fiber. The Sakamoto's loom will weave with these yarns at high speed.

FLOOR SPACE.

Right hand frame: ..... 4′~4¼″ × 7′~7″

Left hand frame: ..... 4′~4¼″ × 7′~2⅝″

Reed Space: ..... 38″ 42″ 44″ 50″ or 60″

Pulleys: ..... Dia. 11″ × Width 2⅛″

Revolutions per minute: ..... 180 to 210

Power required: ..... 3 or 4 looms per one Horse Power.

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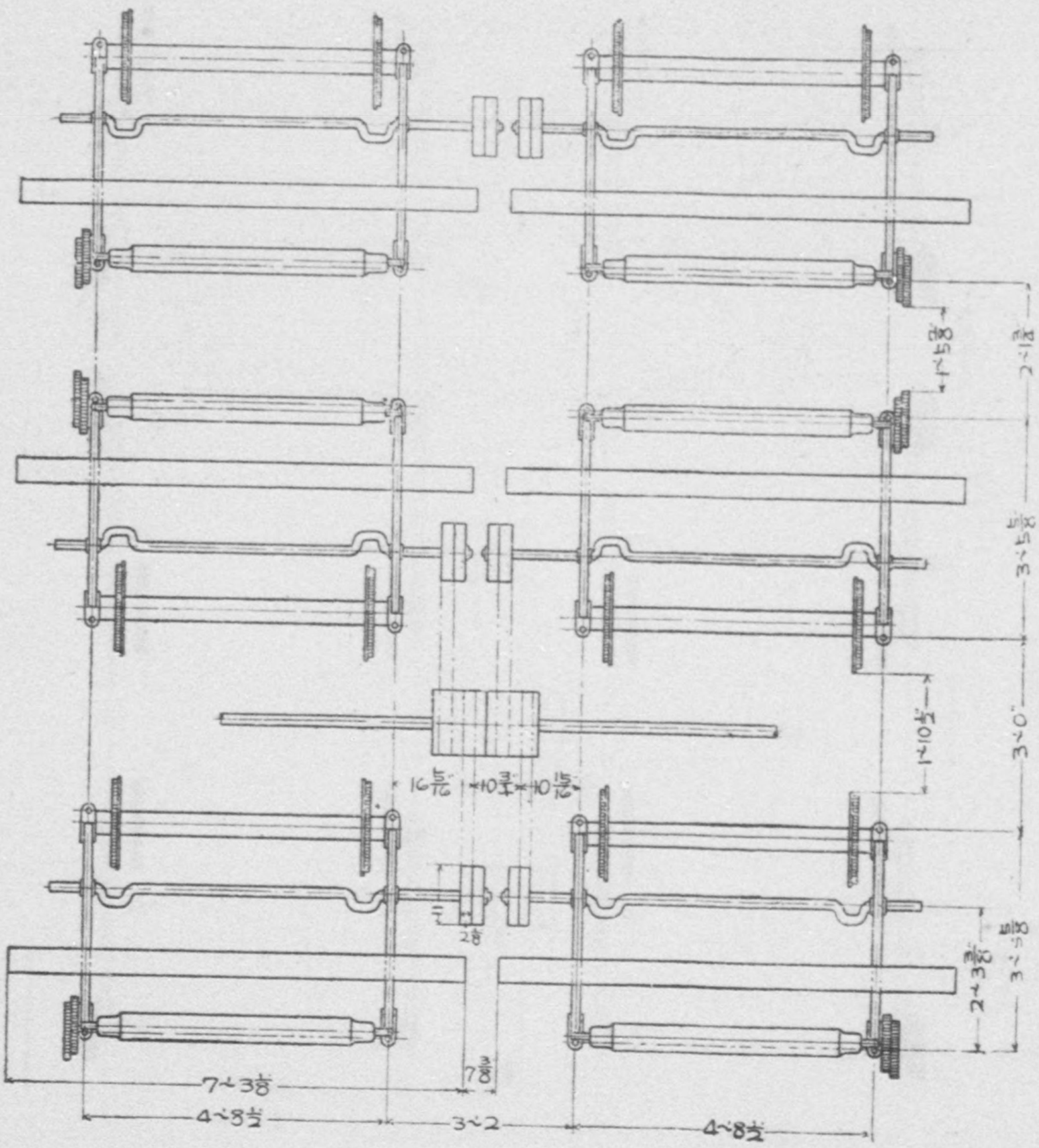
Foundation Drawing of a 44" Reed Space Loom



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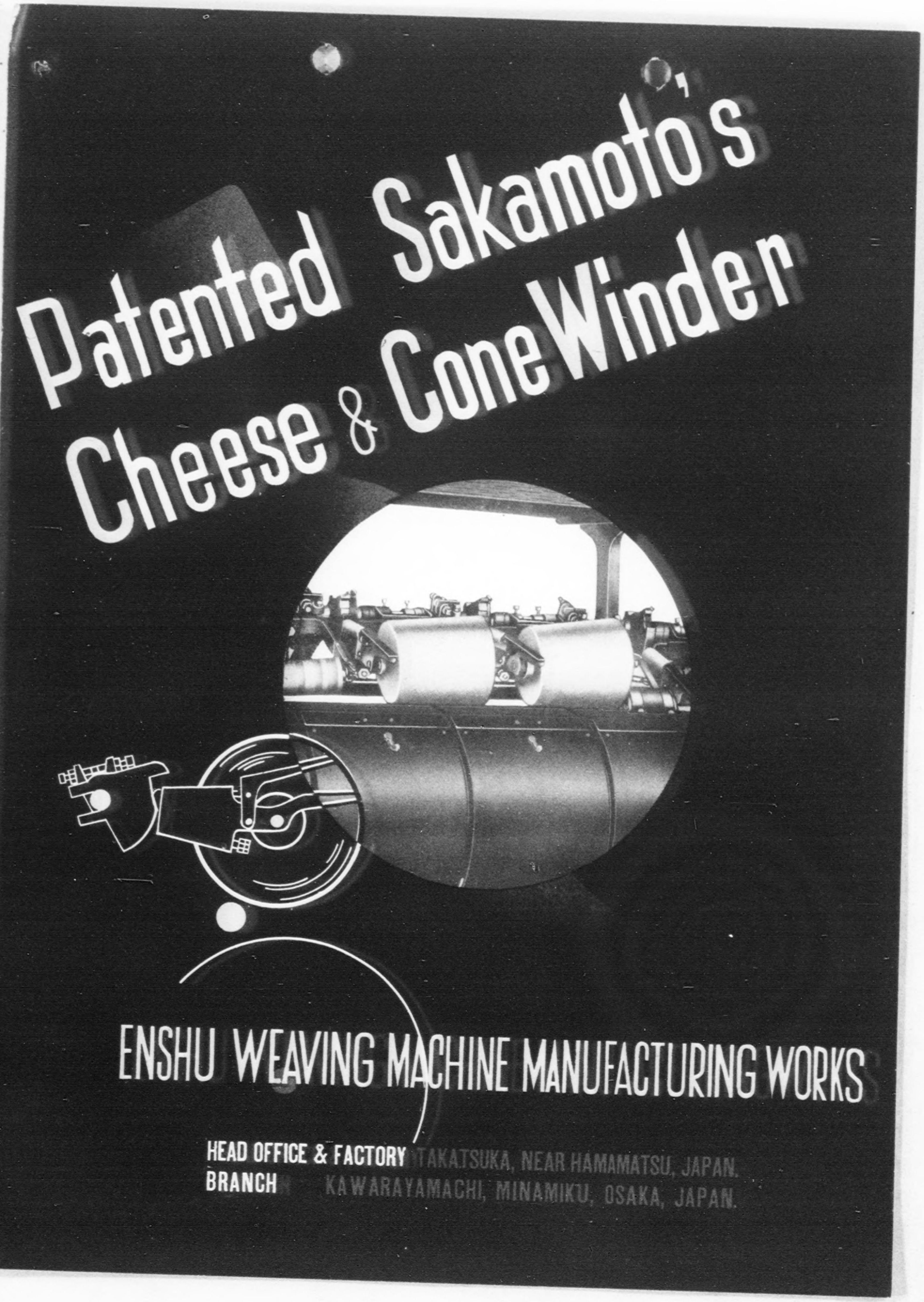

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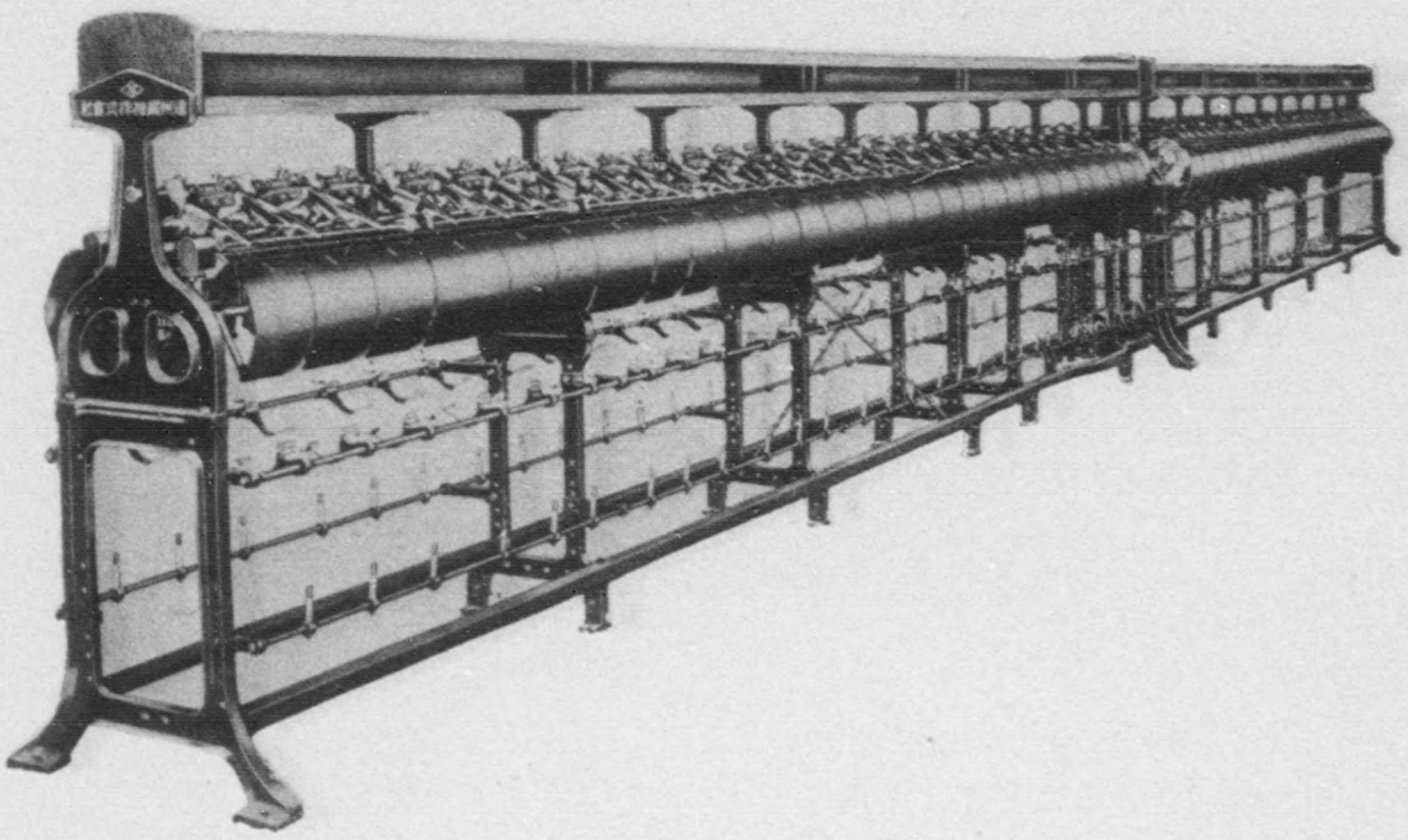

LATEST HIGH PRODUCTION WARP WINDER.

After many years' experiments and extensive research wark, considering authorities' criticism, We have made this High productive Warp winder, and it can work at the highest speed owing to the absence of traversing parts and eccentric parts which were the most disadvantageous parts of the old one, and we paied most attension to make all of its parts so as to get the construction rigidest, and the production highest.

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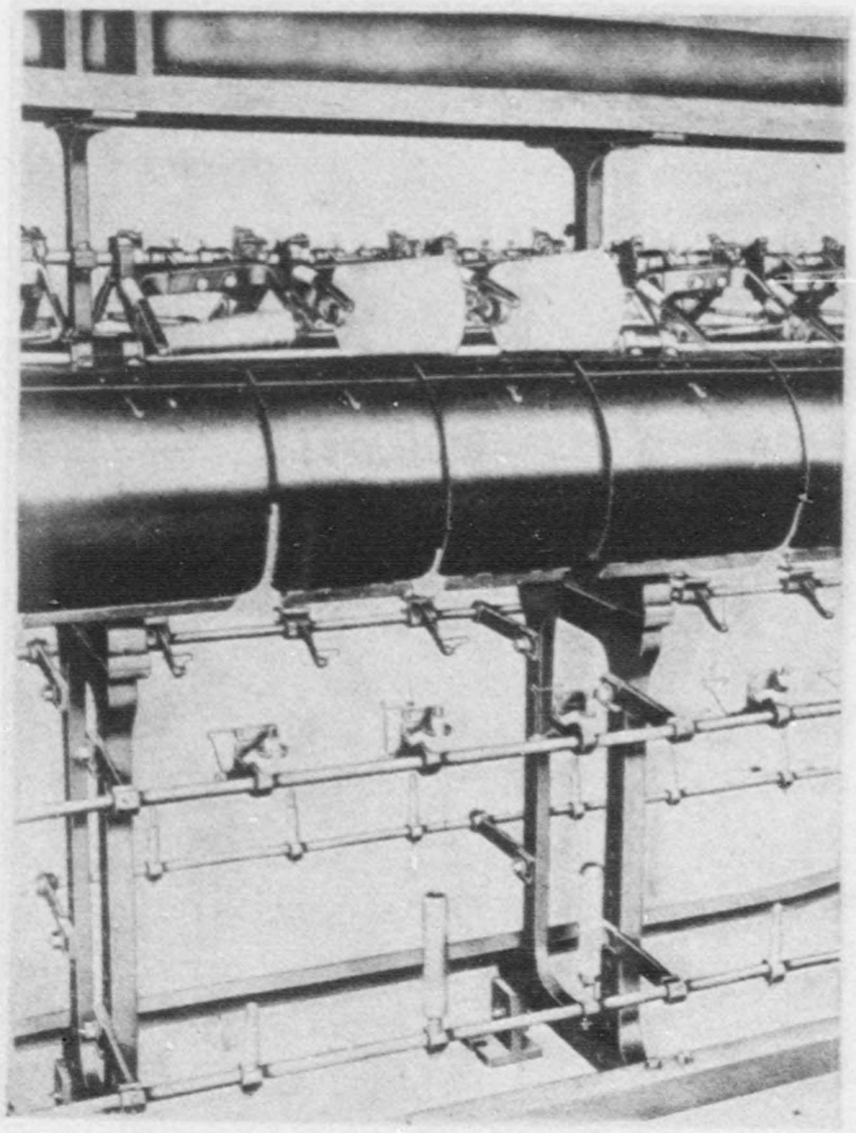
Our New Patent Warp Winding Frame with patent rotary drums is intended for winding cylindrical cheeses and cones from mule, ring spinning bobbins, or other kinds of stationary creel yarn supply of cotton, silk, rayon staple fiber, woolen, woosted and hemp etc.

As will be seen from the illustration, winding mechanism is consisted only of a winding shaft running in ball bearings and turning at a very high speed, and only of a rotary drum guide to distribute the yarn, and therefore there is not any trouble for winding yarns at the speed of more than 500 yards in a minute. The surface of the drum is almited and it treats the yarn gentlest, and as the arms of the drum are shaped so as to do fan action by their rotation, there occurs air current to eliminate the dust adhearing to the yarn.



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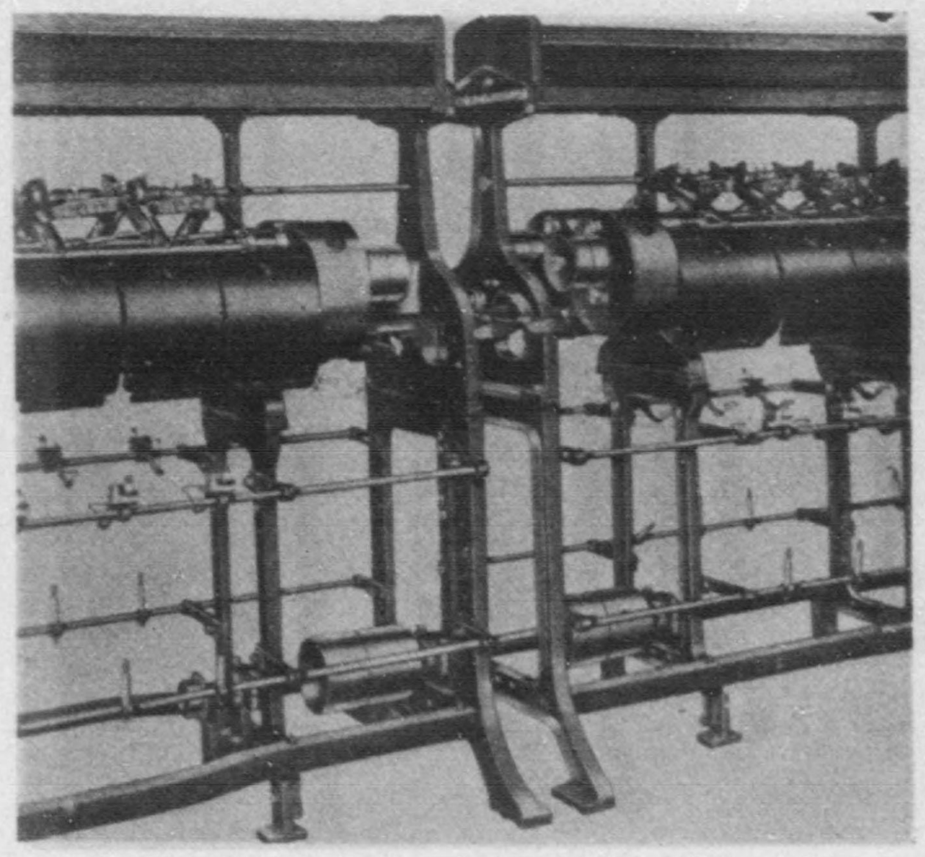
GEARINGS:

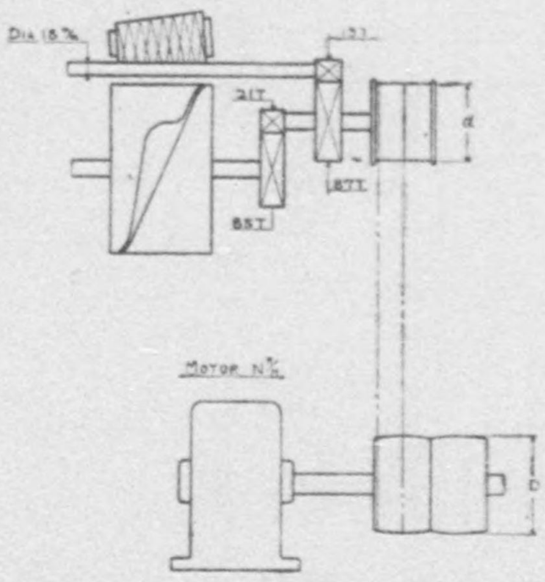


As the gears are enclosed in a gear case and a gear in a couple is made of bakelite and morever high class ball bearings are used for main shafts it can run at the highest speed noisilessly and there is no vibration on the frame.

Each winding groop of the frame is driven independently each other by using belt shifter, and therefore there is no need to stop the frame all at once for cleaning it.

The winding shaft is specially made of high class steel and it can stand at the speed of over 10,000 revolutions per minute.

The winding capacity of the frame is calculated as follows:-



$$N\frac{D}{d}\times\frac{87T\times 18\pi\times 39.375''}{19T\times 1000\text{rpm}\times 36''}$$

$$=\frac{ND}{d}\times\frac{87\times 56.55\times 39.375}{19\times 1000\times 36}$$

$$=\frac{ND}{d}\times .2832 \text{ yards per minute per drum.}$$

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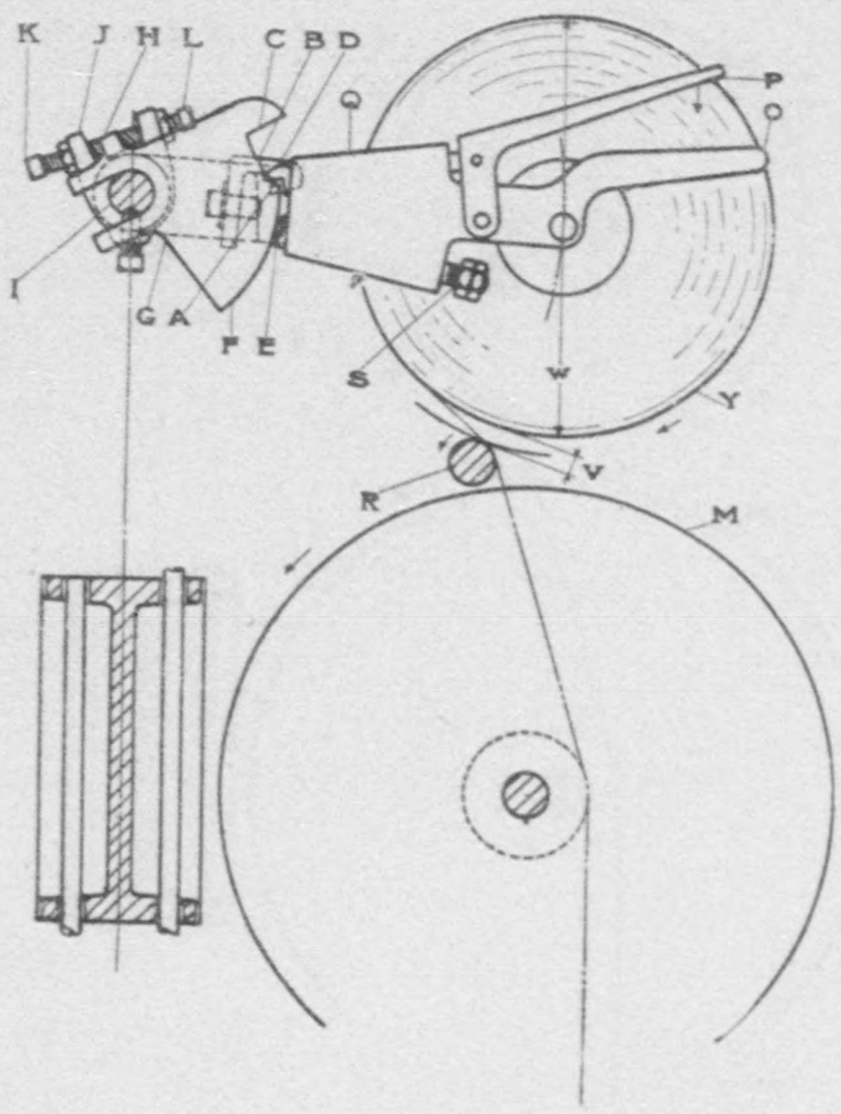

BOBBIN CRADLE:

Bobbin cradle has automatic stop motion and its adjustable apparatus, anb consequently we can get any size of cylindrical cheeses or cones without fault in shaping.

ADVANTAGES OF THE FRAME:

The advantages of our Patent Warp Winding Frame as against other systems may be summarised as follows:

1. Faultless in shaping of cylindrical sheeses and cones,
2. Perfect unwinding in the cleel of the next machine,
3. Less floor space required for a given production,

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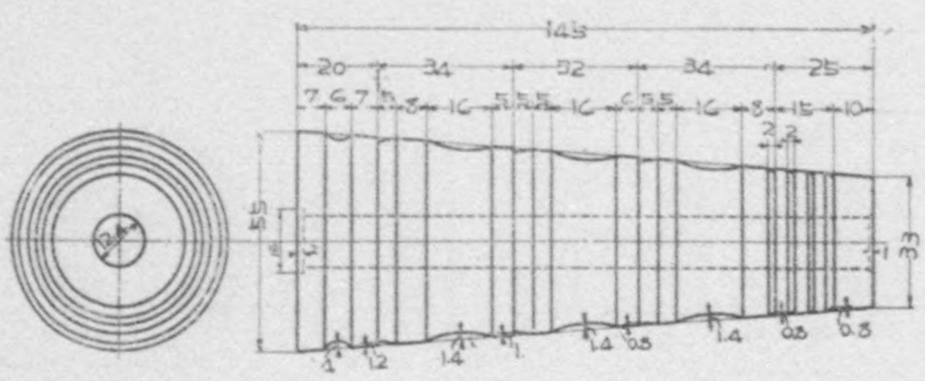
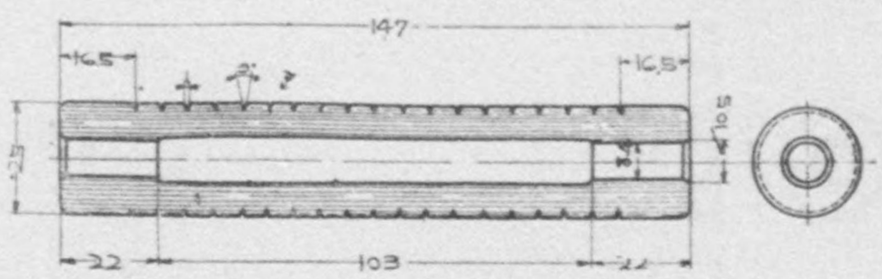
4. Reduced wage bill on account of the higher production per winder,
5. Easy attendance and handling on account of its reduced mechanism,
6. Standing high speed running as it has no traversing parts and eccentric parts,
7. Less power required,
8. Less yarn brakages,
9. Utilization for doubling yarns by attaching yarn stop motion apparatus.

BOBBINS:

TRAVERSE 5″



TRAVERSE 5″



NUMBER OF DRUMS WHICH AN OPERATIVE CAN MIND:

An operative can mind about 30 drums.

POWER REQUIRED:

1 H.P. is sufficient to drive about 36 drums of the winder.

CAPACITY:

450 yards~550 yards per minute per drum.

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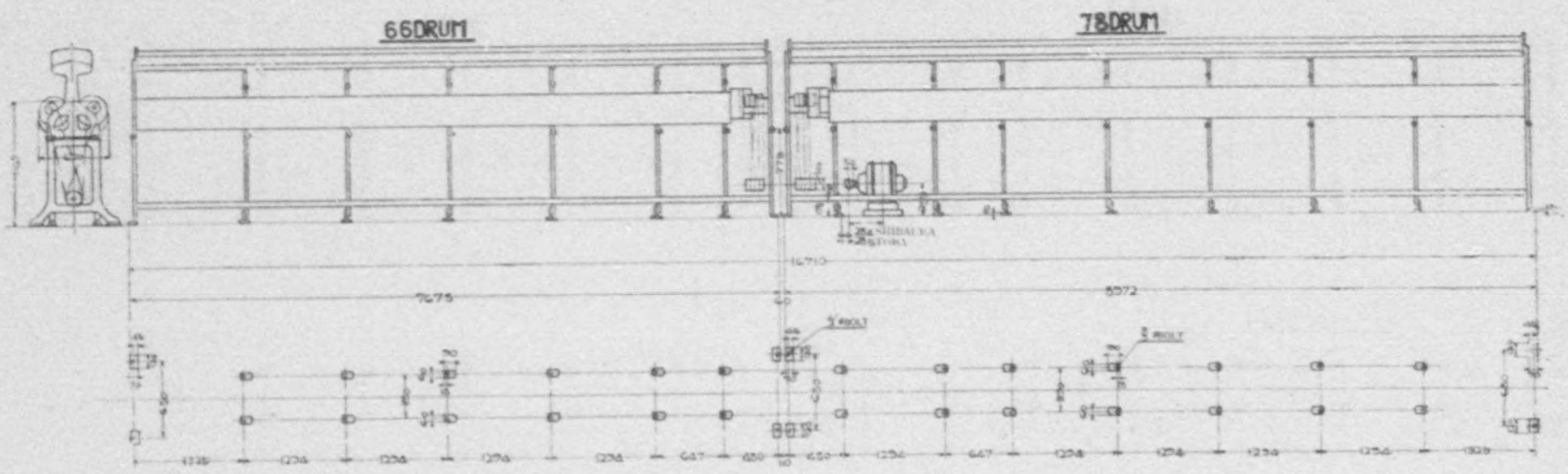
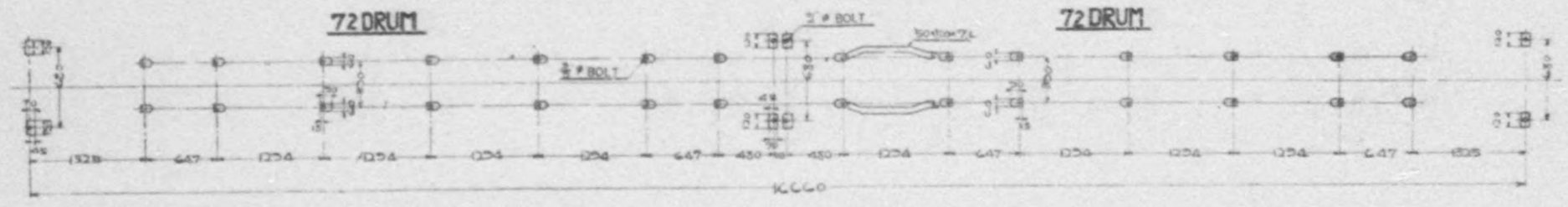
SETTING PLANS:

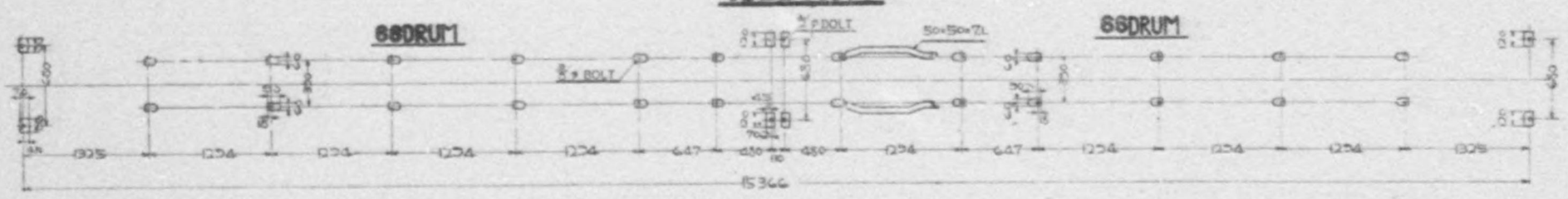
S. WINDER 144DRUM



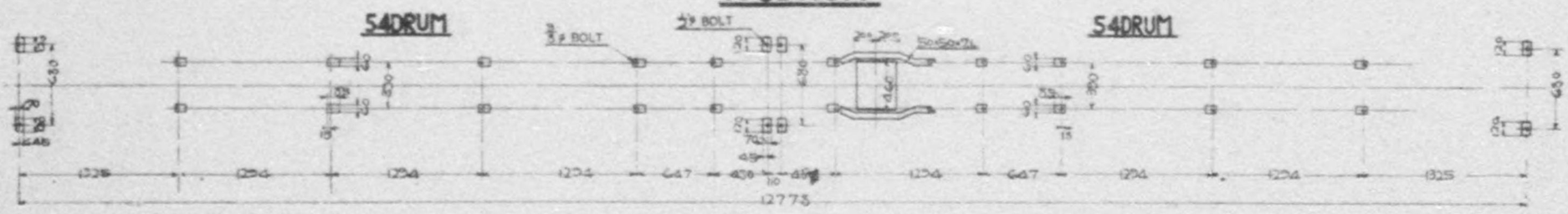
144DRUM



132DRUM



108DRUM



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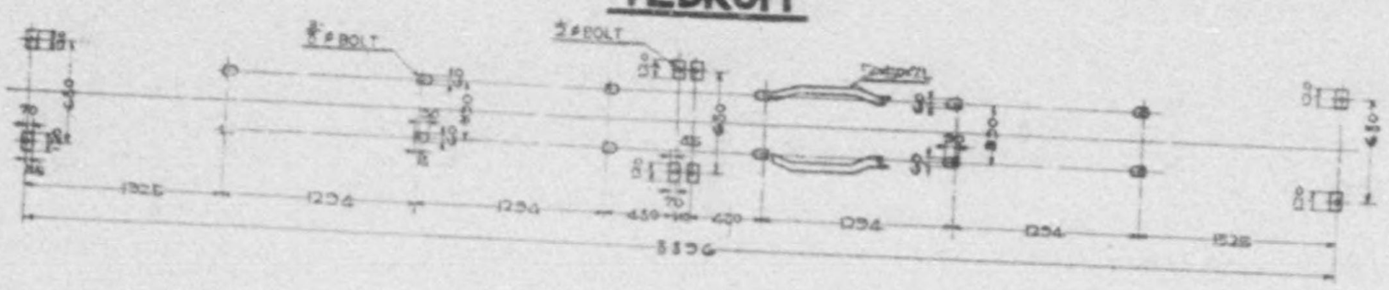
72DRUM



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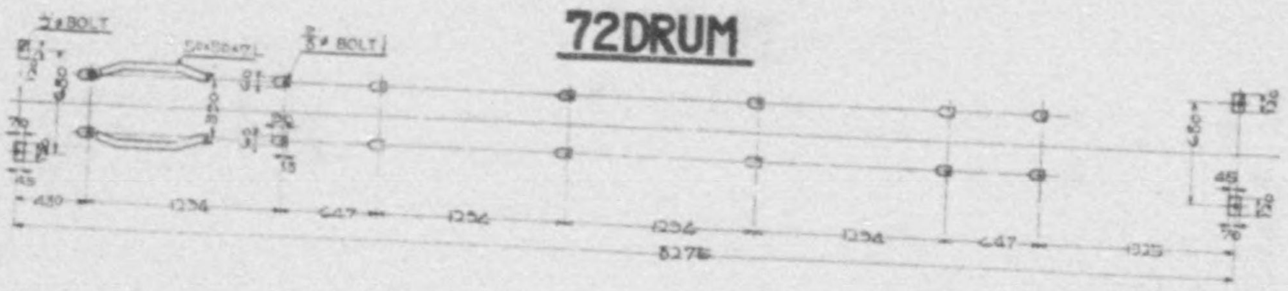

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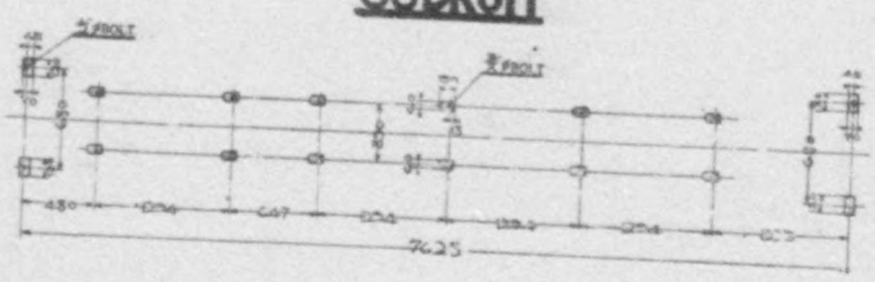

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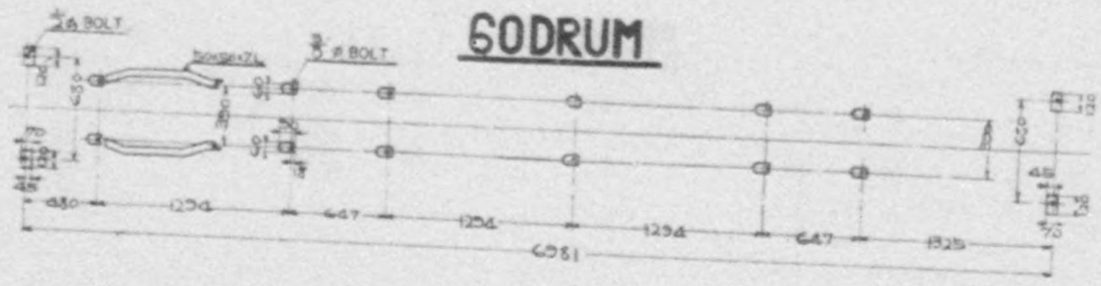

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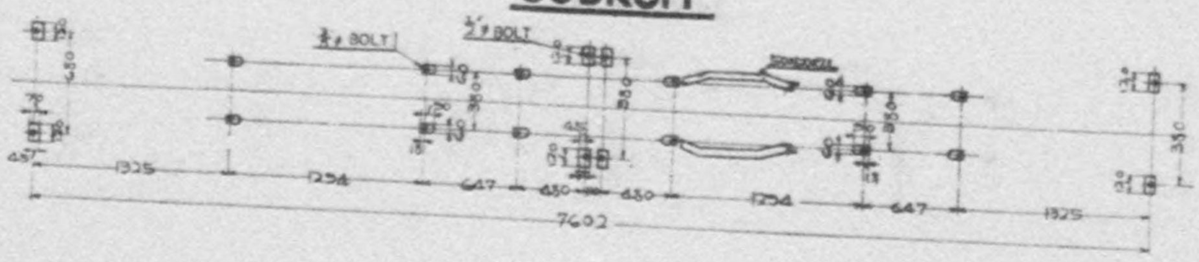

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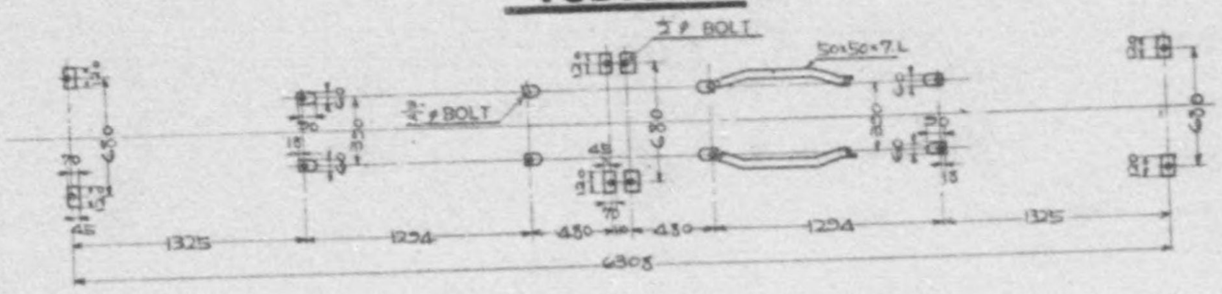
48DRUM



WEIGHTS AND VOLUMES (APPROXIMATELY)

NUMBER OF DRUMS	NETWEIGHT (LBS.)	GROSS WEIGHT (LBS.)	VOLUME (CUB.FT.)
144 IN BOTH SIDE	5 670	9,360	435
132 〃	5,280	8,570	378
108 〃	4,420	7,026	323
72 IN ONE SIDE	2,596	4,680	206
72 IN BOTH SIDE	2,843	4,700	218
66 IN ONE SIDE	2,498	4,257	203
60 〃	2,450	3,870	186
60 IN BOTH SIDE	2,685	4,542	190
48 〃	2,112	3,120	150

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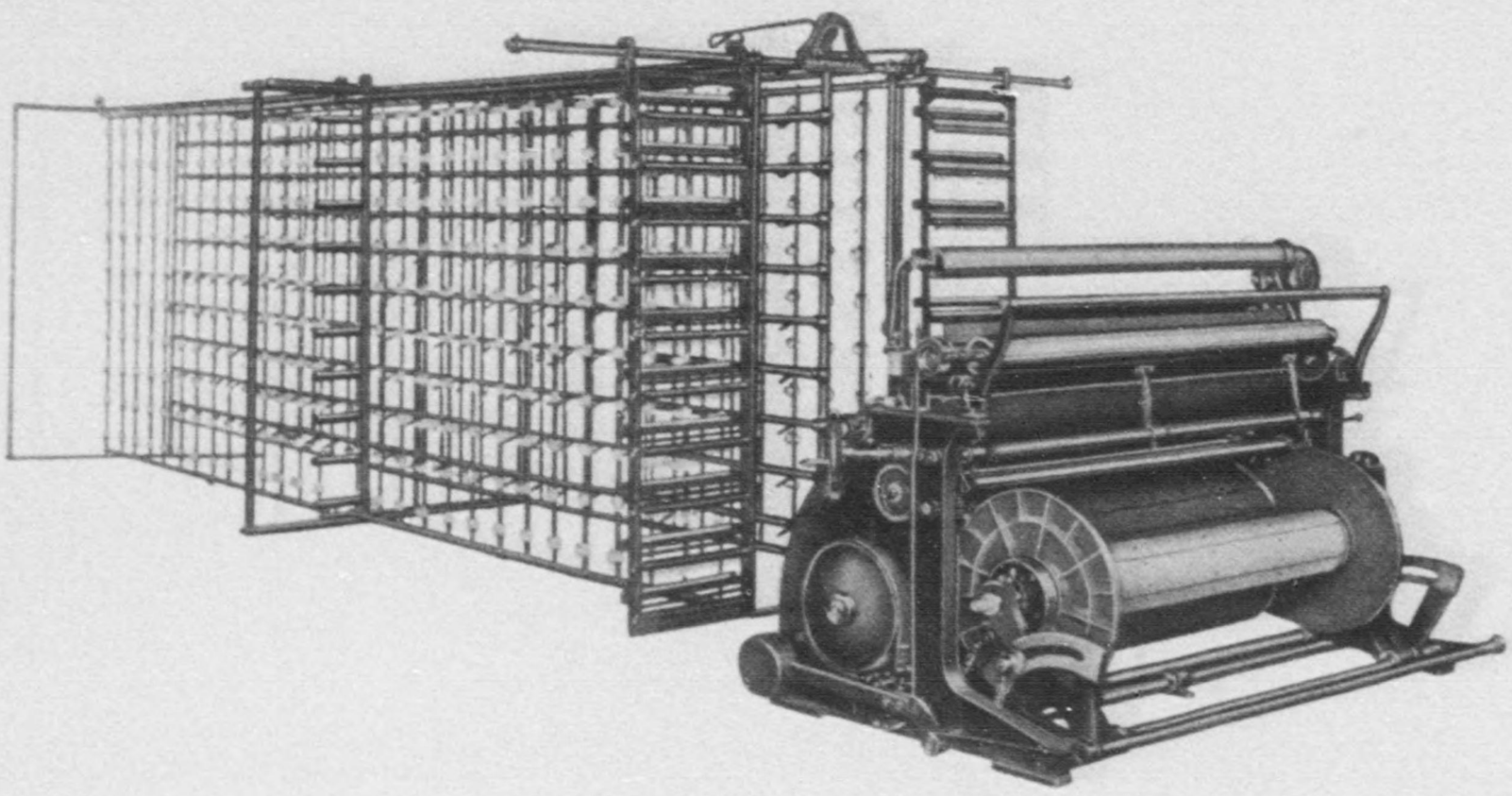

Our Latest High Speed Warping Frame was made in our factory inproving from many other maker's warping frames untill it remains no old form, which we have investigated for many years.

The strong both side frames are calculated to take well balanced beaming drum and warp beam which need smooth and high speed running. Especially, turning back of the beam has become unnecessary owing to the instantaneous stoppage of the machine at top speed, and moreover the various guide and falling rollers, also, has become useless in consequence of our peculiar electric stop motion, and therefore it is very easily attended to.

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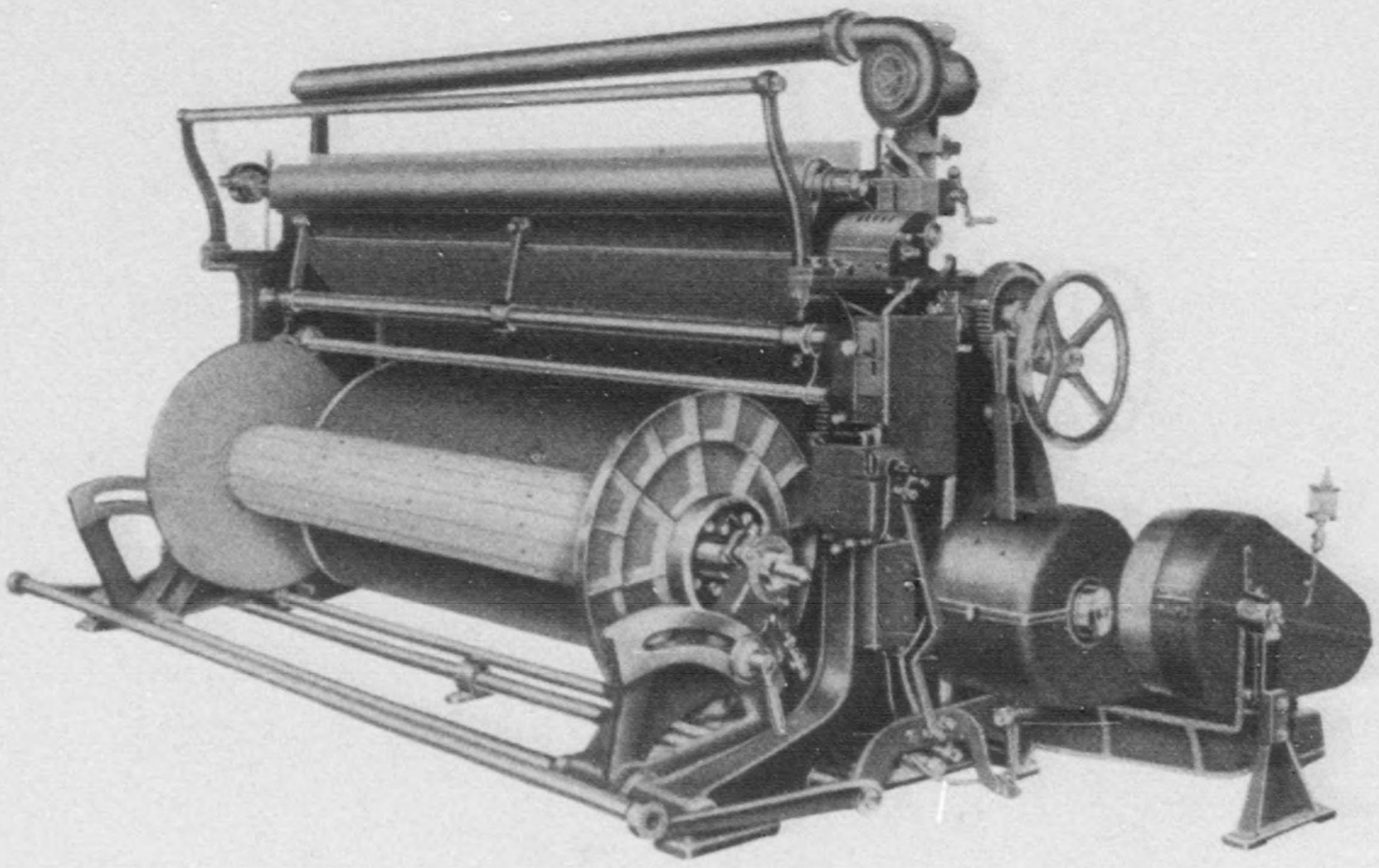

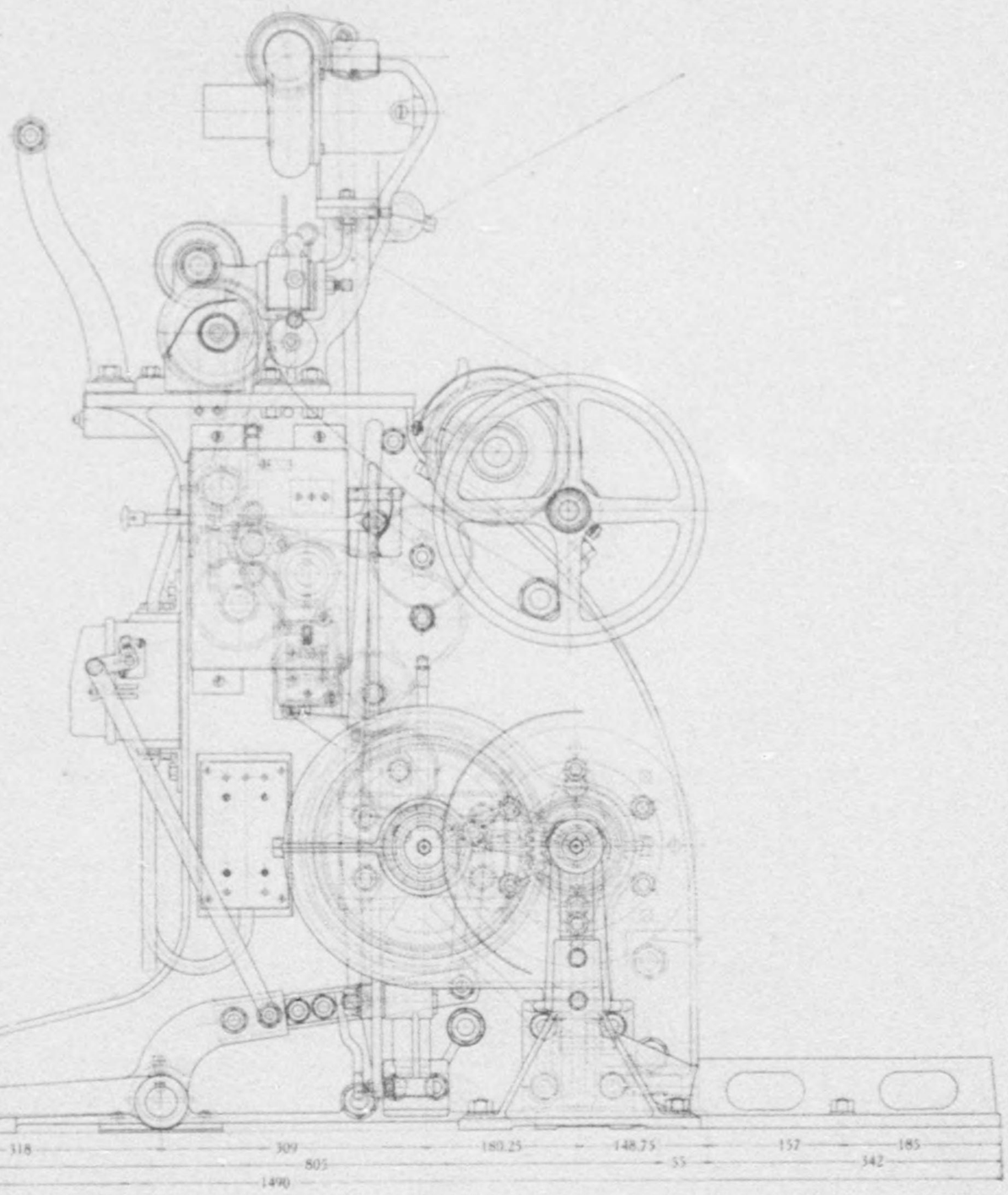

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The light almited aluminum measuring roller on ball bearings actuates the latest measuring device with big jumping figures which automatically arrests the machine when the desired length has been warped.

Beaming drum (550 m/m diameter × 1448 m/m length), which is provided with special ball bearings and beam pivots, is driven by 2 H.P. motor through sprocket wheels and chains by which the speed of the drum may be changed; and then rotate the warp beam which is also supported on ball bearing pivots. The yarn tension and the hardness of the beam are regulated by novel devices, and the beam lowering devices are actuated by a hand wheel.

The machine can be stopped at any time by pressing one of the two push -buttons on the front edges of the two frame sides, whereby the instantaneous stop motion of the machine is actuated. These stop motions, namely full beam stop motion, at any time stop motion and warp stop motion which will be stated hereafter, are actuated by an electro-magnet fitted on the right hand side frame.

An electric dusting fan of our latest oscillating type is attached over the comb to clean the yarn from the dust.

By using the frame you can get the warping speed up to 250 yards and more in a minute, maintaining strength and elasticity of the yarn.

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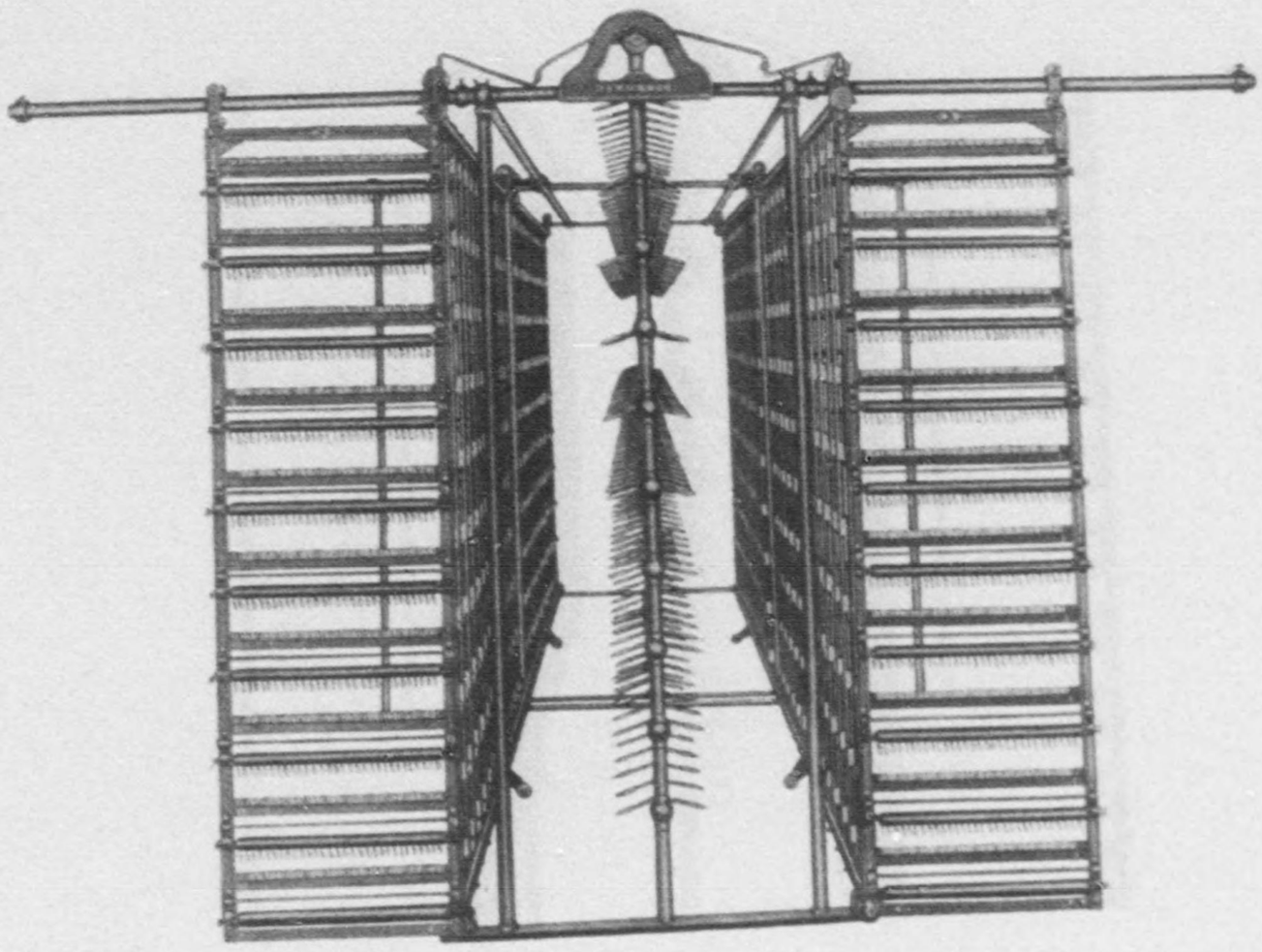

Our creel which will be employed in connection with our latest High Speed Warper is of very substantial make. It is all steel and iron, with the exception of the tension devices and the yarn guides which are made of specially strong porcelain. The surface of the porcelain bodies is rendered absolutely true by a special process, and for the distance between the cheese pegs and the tension devices we paid much attention; and therefore you can ensure the constantry even tension of the yarn along and across the beam which is of the utmost importance for perfect warping.

In front of the creel, the yarn is guided through self-threading eyelets arranged at even distance in metal frames, the ends threading themselves automatically without possibility of the yarn slipping out.

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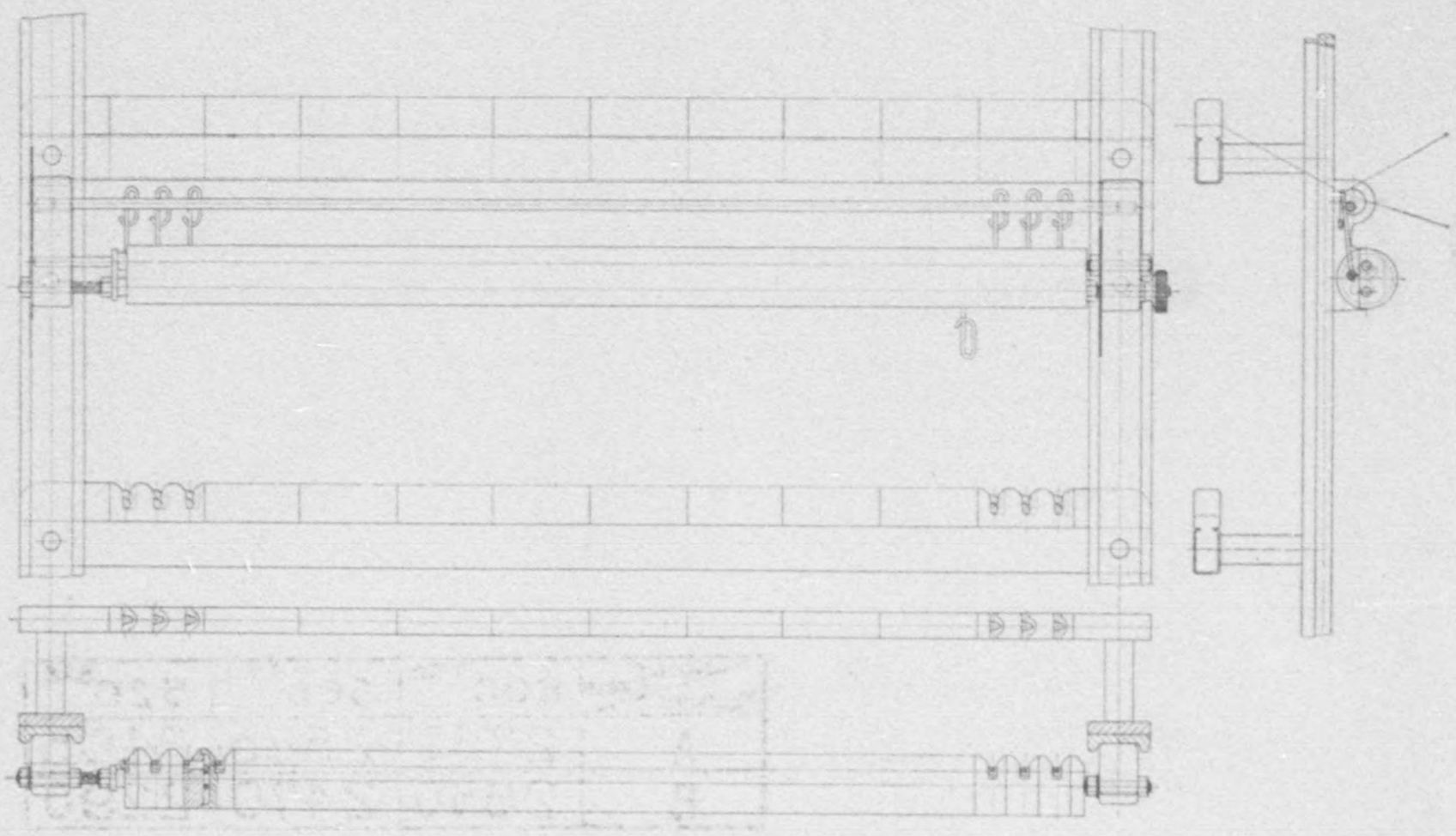

The warp stop devices are fitted near the yarn guides which initiate the automatic stoppage of the warping frame in case of breakage or failure of an end. When an end breaks, its particular hinged drop wire closes an electric circuit which causes the machine to be instantly arrested.

Electric fans are usually arranged above these creels to clean the impurities and extraneous matters stripped from the yarn; but these are not included in our specifications.

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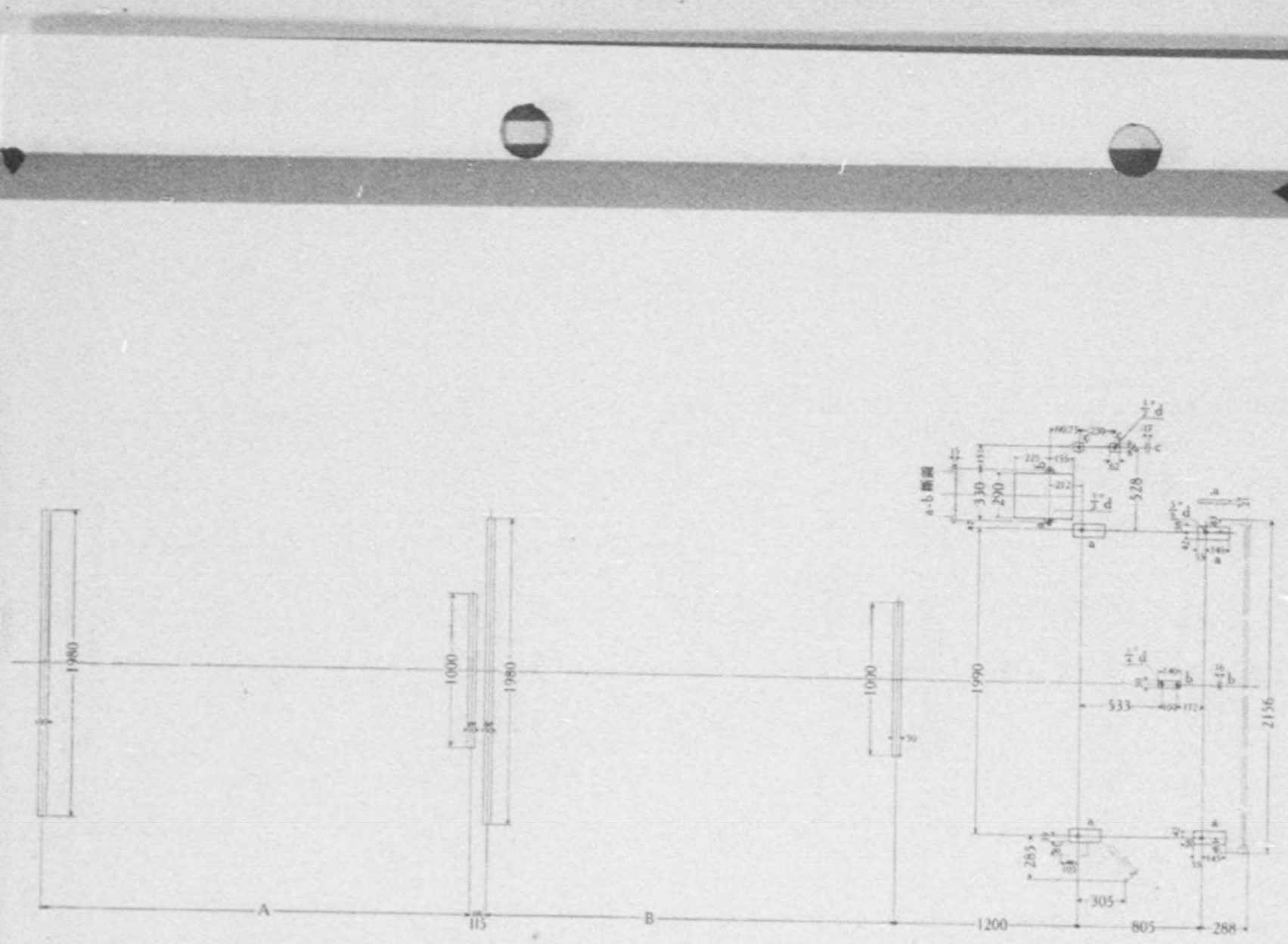

No. of Cheese / Measure	600 S.T.D.	560 S.T.D.	520 S.T.D.
A	2765	2585	2405
B	2650	2470	2290

Advantages Of The Frame:

(1) Easily attended to,

(2) Highest efficiency,

(3) Gentlest treatment of the yarn,

(4) No stretching of the yarn,

(5) Even tension of all the ends along and across the warp,

(6) Perfect running-off in sizing machine and loom,

(7) No snarls to be feared,

(8) Greatly reduced stopping times,

(9) Maintenance charges greatly reduced.

Weights And Volume Of Packing (Approximately):

Net weight	(lbs.)	3,500
Tare	(lbs.)	2,000
Gross weight	(lbs.)	5,500
Volume	(cub. ft.)	220

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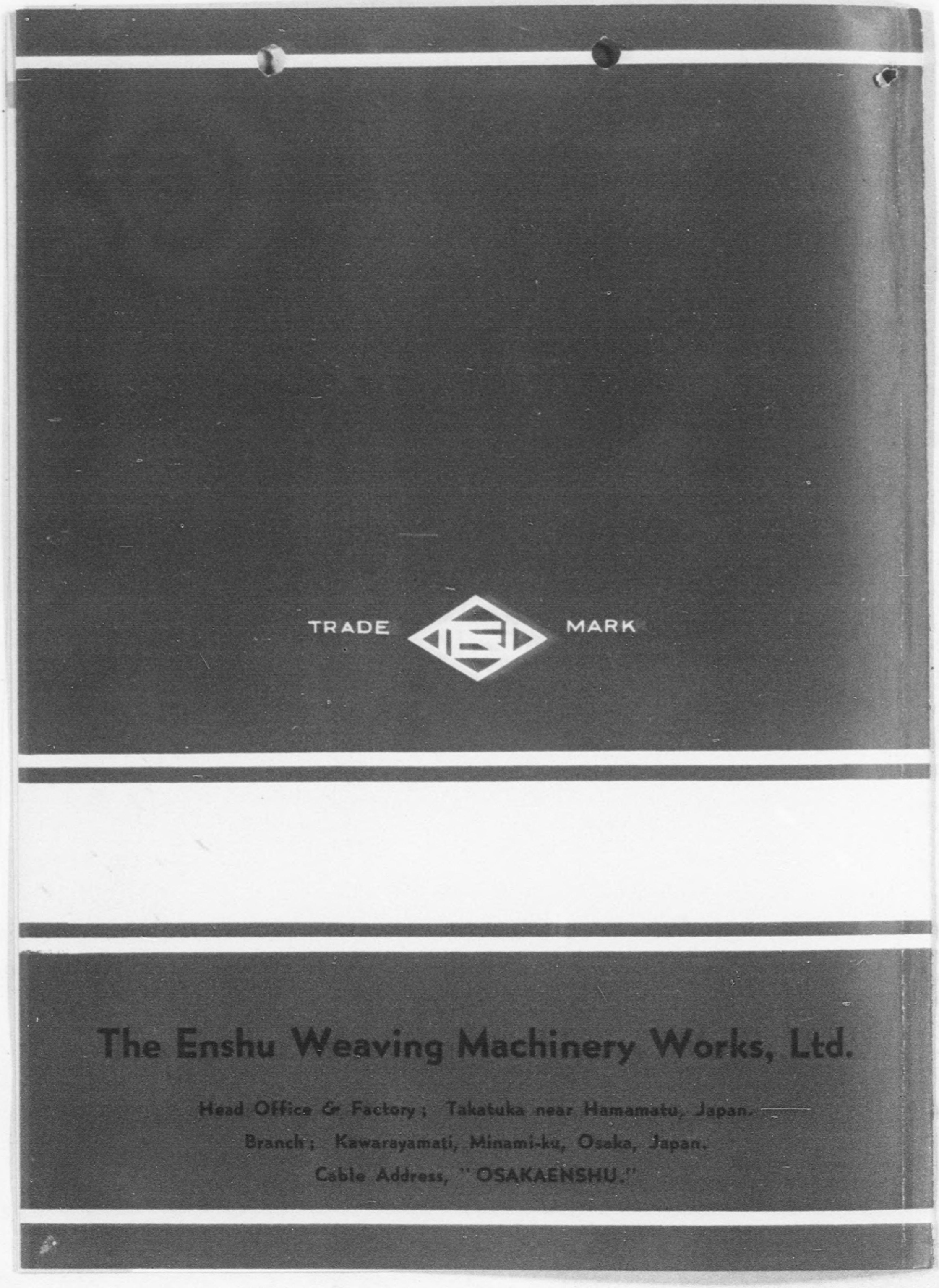

The Enshu Weaving Machinery Works, Ltd.

Head Office & Factory ; Takatuka near Hamamatu, Japan.
Branch ; Kawarayamati, Minami-ku, Osaka, Japan.
Cable Address, "OSAKAENSHU."

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THE SAKAMOTO'S "PATENT"
LATEST HIGH PRODUCTION

Weft Pirn Winder

Enshu Weaving Machine Mfg. Works

HEAD OFFICE & FACTORY HAMAMATSU. JAPAN.
BRANCH EDOBORI, NISHIKU. OSAKA . JAPAN.

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Latest High Production Weft Pirn Winder.

In almost all kinds of weft pirn winders, hitherto used, yarn has been wound by its own friction and therefore its strength weakened and its quality damaged; and moreover their productive power has been very small. Although a few kinds of these frames covered the above defects, but they were so costly that the benefit from using them were much defective against their first costs.

Considering these disadvantageous points of view we have made an ideal high productive pirn winder after many years' experiments and extensive research work; and now it stands unrivalled in the field of Winder-Making.

PRINCIPAL FEATURES:-

1. Easiest attention imaginable;

As it will be stopped automatically when the yarn brakes during winding or when it is wound up to a certain amount, there is no need to keep attention for making perfect style of winding.

2. Highest production per spindle;

These spindles are specially made so as to fit for high speed running up to 4000 r. p. m., and consequently are more productive as compared with the other-makes.

3. Highest production per operative;

As a operative can mind many spindles his production is the highest.

4. Noiseless running;

Noiseless running is ensured by the complete enclosure of the mechanism in a dust-proof oil bath with automatic oil circulation ensuring ample lubrication.

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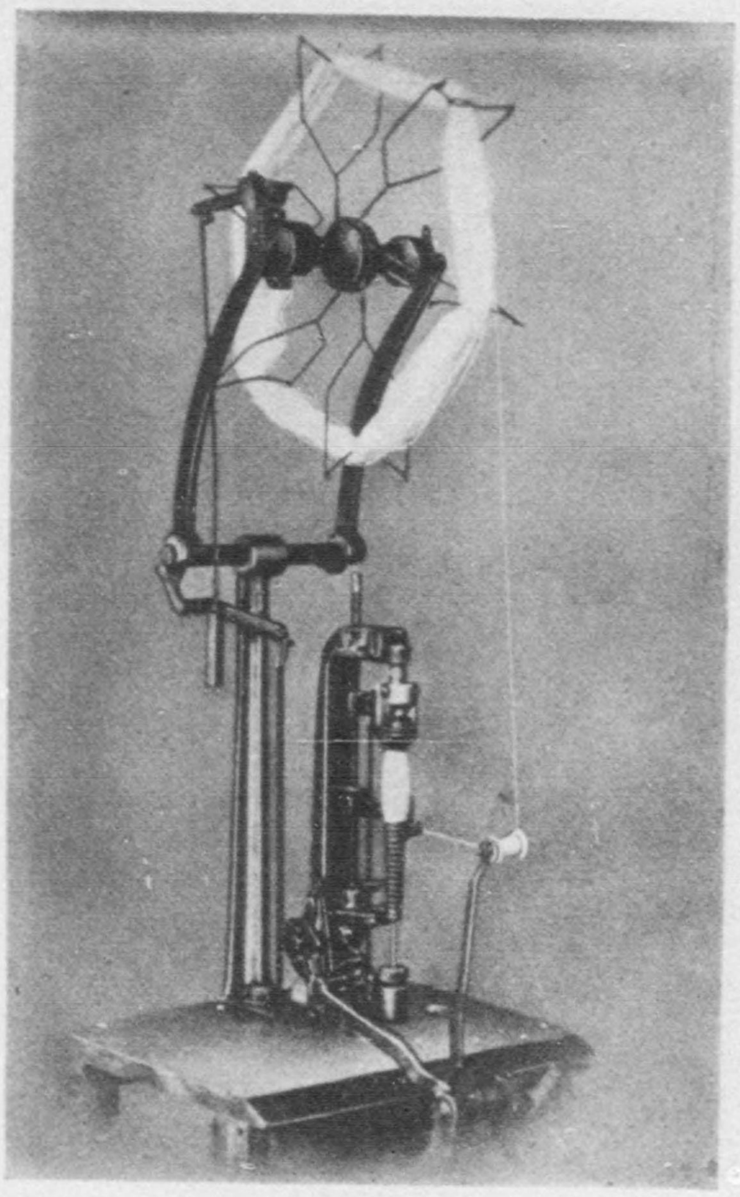
Sakamoto's Patent Weft Pirn Winder



SPECIFICATIONS:-

1. For coloured winding;

The machine can be fitted with creel arrangement for unwinding from hanks, mule cops, ring bobbins, cylindrical cheeses, conical cheeses, or for any other kind of creel supply. But as for these types please denote them at the first communication.

2. Gauge;

We build these machines with 6¼″ gauge, but when winding from hanks 7½″ gauge is recommended.

3. Driving pulley;

10½″ Dia.x3-⅛″x3-⅛″

4. Speed;

It will be determined according to the kinds of yarn; and for strong yarn we

5. Perfect style of winding;

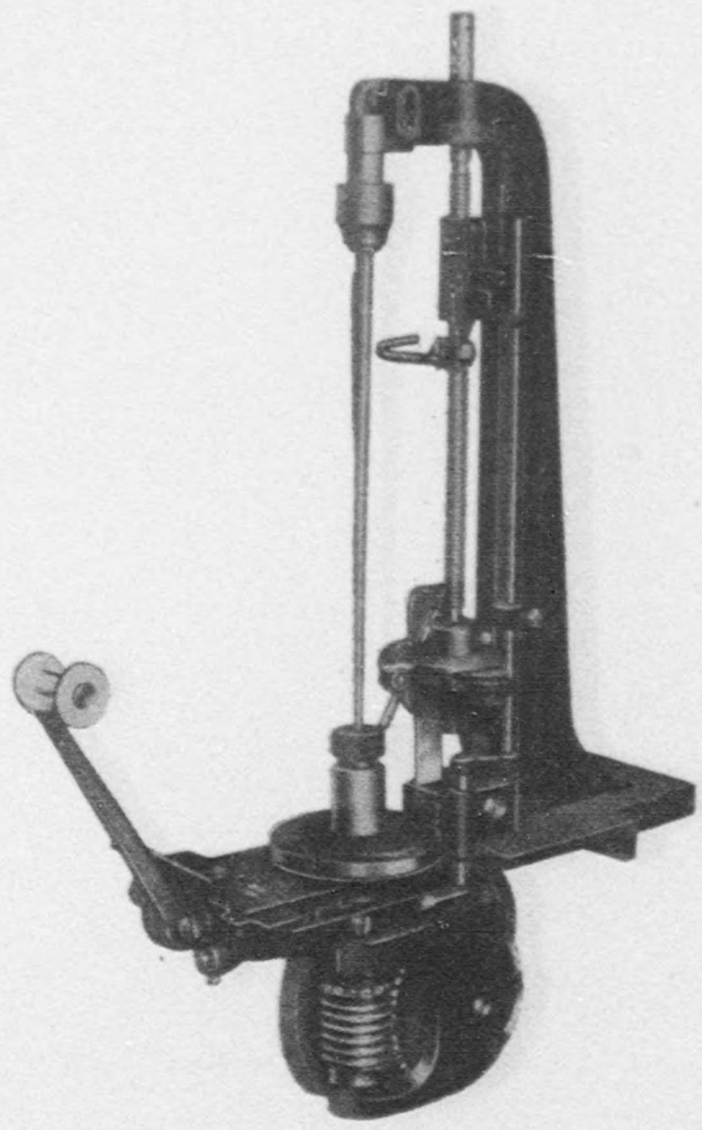
Each spindle can be separately adjusted for any desired length and diameter of pirn so that the hollow of the shuttle can be utilized to best advantage.

6. Faultless unwinding of the pirn in the loom;

Tension of the yarn at any diameter of pirn can equally be adjustable for any desired intensity by our specially made tension device, and so there is no collapses of weft bobbin nor breakages of the yarn in the loom.

7. Suitability for all kinds of yarn;

Our pirn winder is suitable for winding yarns (silk, rayon cotton, hemp, woollen and worsted, etc.) of all kinds from the coarsest to the finest counts.



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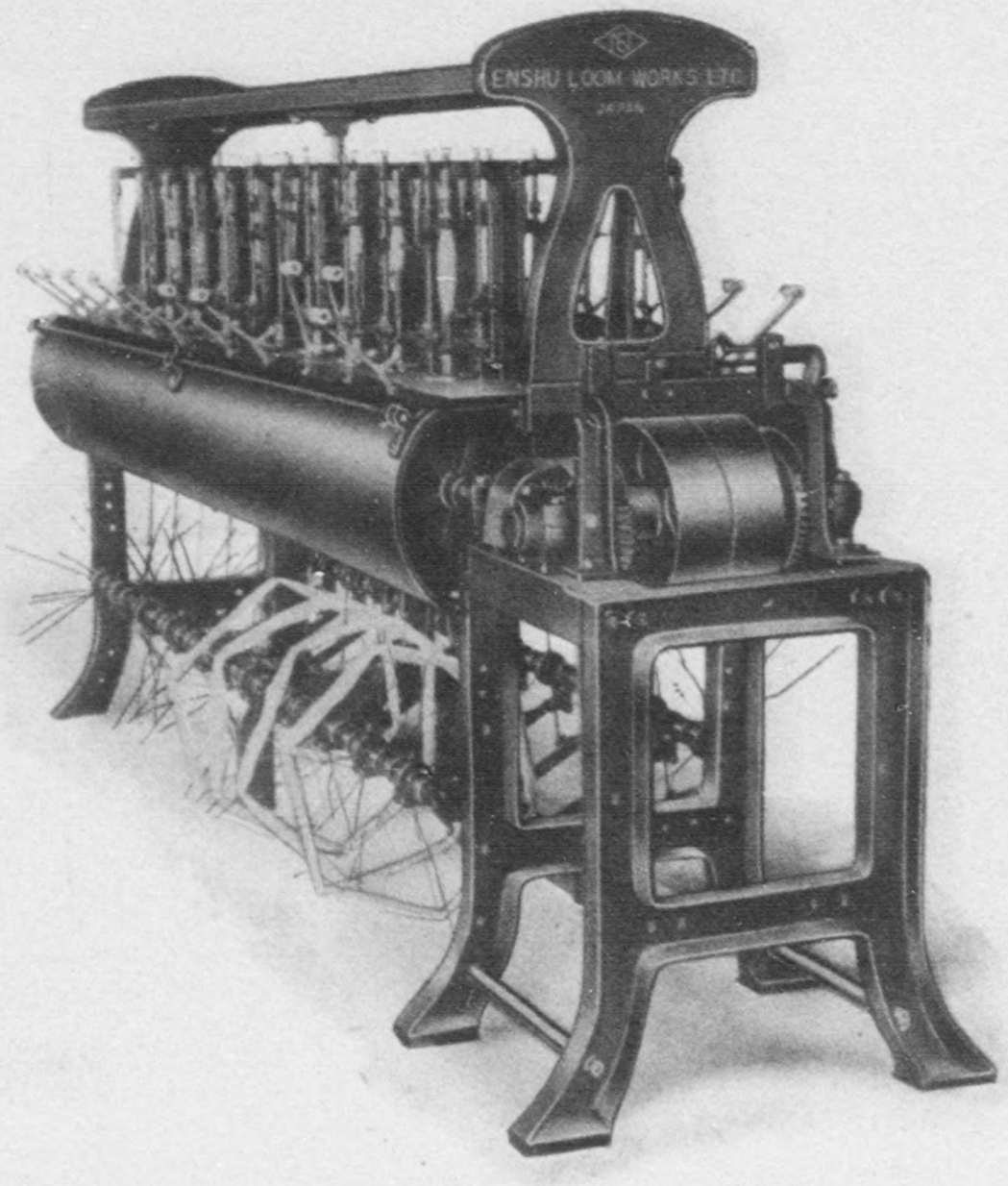
Sakamoto's Patent Weft Pirn Winder

will recommend 3000-4000 r. p. m. But when winding from hanks, it is advisable to reduce the speed somewhat in order to obviate unnecessary straining and breakages of the yarn.



5. Floor space;

Depth of frame, A. 3'-2" (when winding from cops or cheeses)
B. 3'-6" (when winding from hanks)

Length of frame, Number of spindles	For A	For B
20	7'～ 4-3/4"	8'～6-3/8"
40	12'～11-3/4"	15'～4-7/8"
60	18'～ 6-3/4"	22'～3-3/8"
80	24'～ 1-3/4"	29'～1-7/8"
100	29'～ 8-3/4"	36'～3/8"
120	35'～ 3-3/4"	42'～10-7/8"

6. Power;

1 HP is sufficient to drive 35 spindles.

7. Number of spindles which are necessary for a loom;

1 sp.～1.5 sps.

8. Number of spindles which a operative can mind;

25 sps.～40sps.

Please note that the above 7&8 will be determined according to the kinds of yarn or cloth which will be woven from.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

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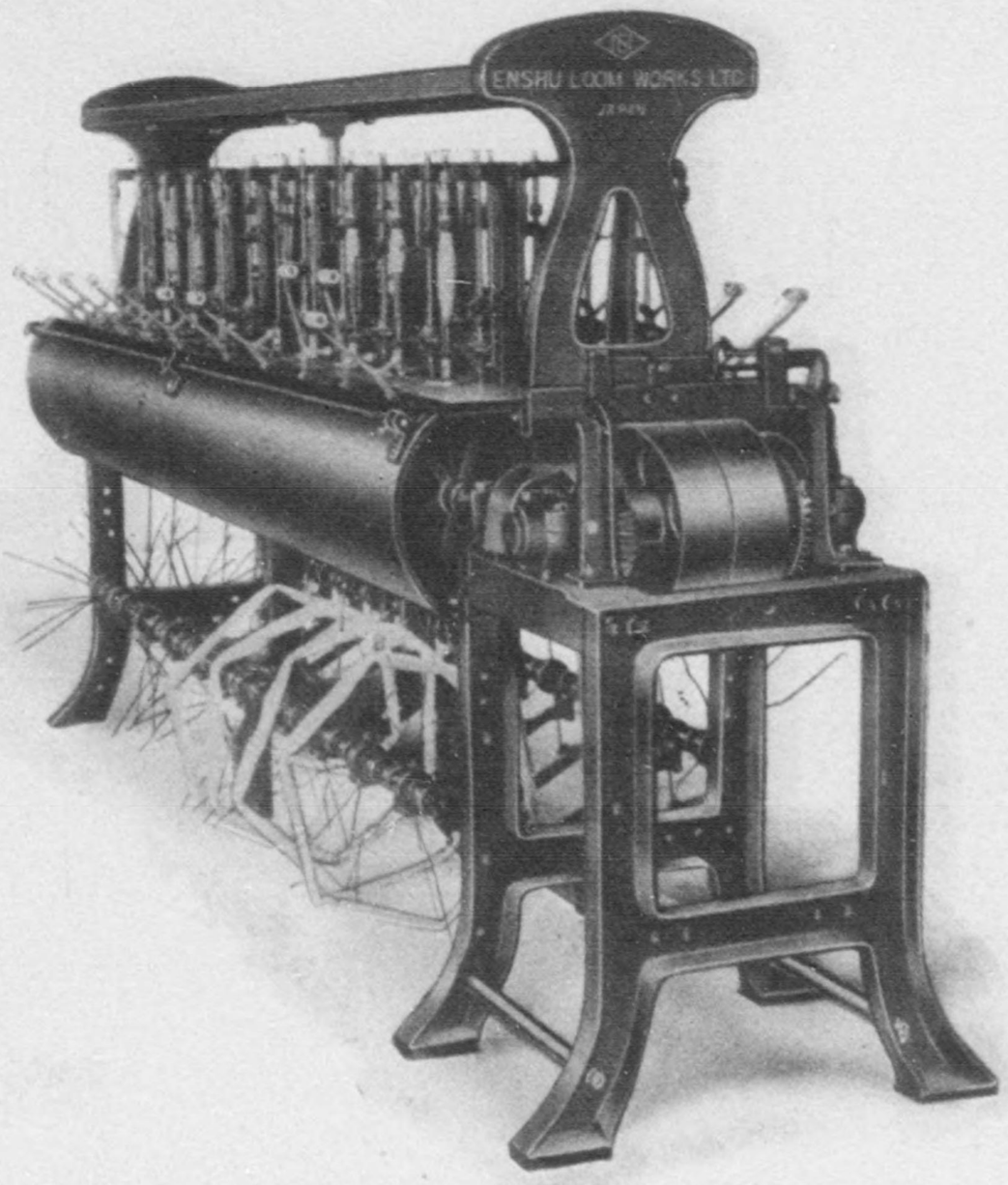

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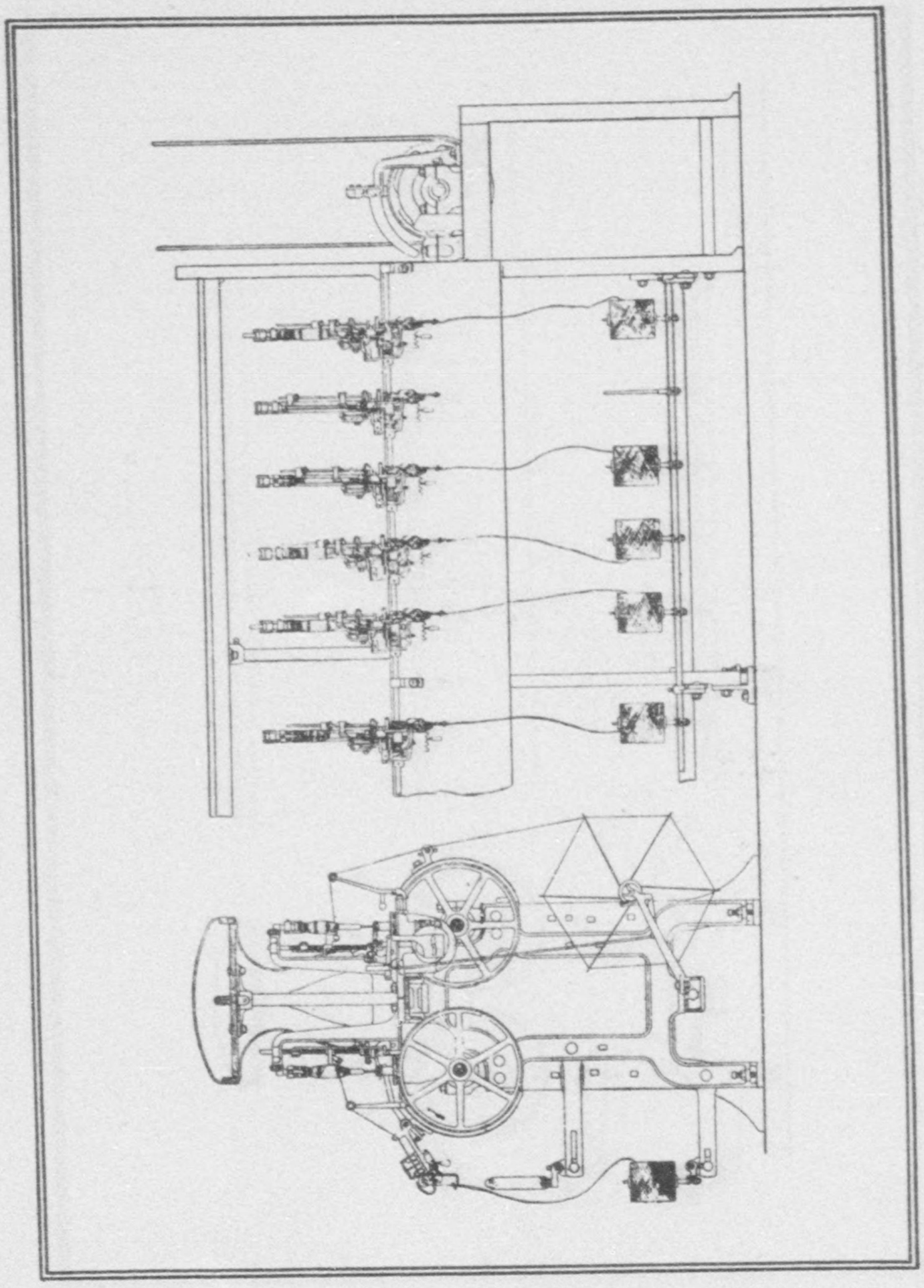

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(Annex D)

Maps of the Plant And showing the position of machines.

1. Erecting-shop
2. Stor-house
3. Wood work-shop
4. Finishing-shop
5. Machine-shop
6. Machine-shop
7. 1st Machine-shop
8. Grinding-shop
9. Machine-shop
10. Moulding-shop
11. Moulding-shop
12. Melting place
13. Erecric furnace
14. Sand Blast-shop
15. Inspect of C.I. Room
16. Shaping-shop
17. Turret machine-shop
18. Cutting-shop
19. Machine-shop
20. Heat treatment-shop
21. Forging-shop
22. Erecting-shop
23. Plaining-shop
24. Tool-shop
25. Trial production of Machine-shop
26. Arrangment diagram transformers and main driving motor

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Abbreviation	Full Name
L	Lathe
T.L	Turret lathe
B.O	Borring machine
R.D	Radial drilling machine
D	Drilling machine
V.G.S.	Bevel gear shapper
F.G.S.	Gear shapper
G.H.	Gear hobbing machine
P.	Planning machine
S.P	Shapping machine
V/S	Vertical sloting machine
G.	Grinding machine
H.M.	Milling machine
V.M.	Vertical milling machine
B.T	Broaching machine
O.W.S.M.	Oil grooving machine
J.B.	Jig borer
G.T.R.M.	Gear tooth rounding machine

Blue pointed ● machine shows existed before 1937
Red pointed ● machine shows settled since 1937
and these marked machines desired to be remain.

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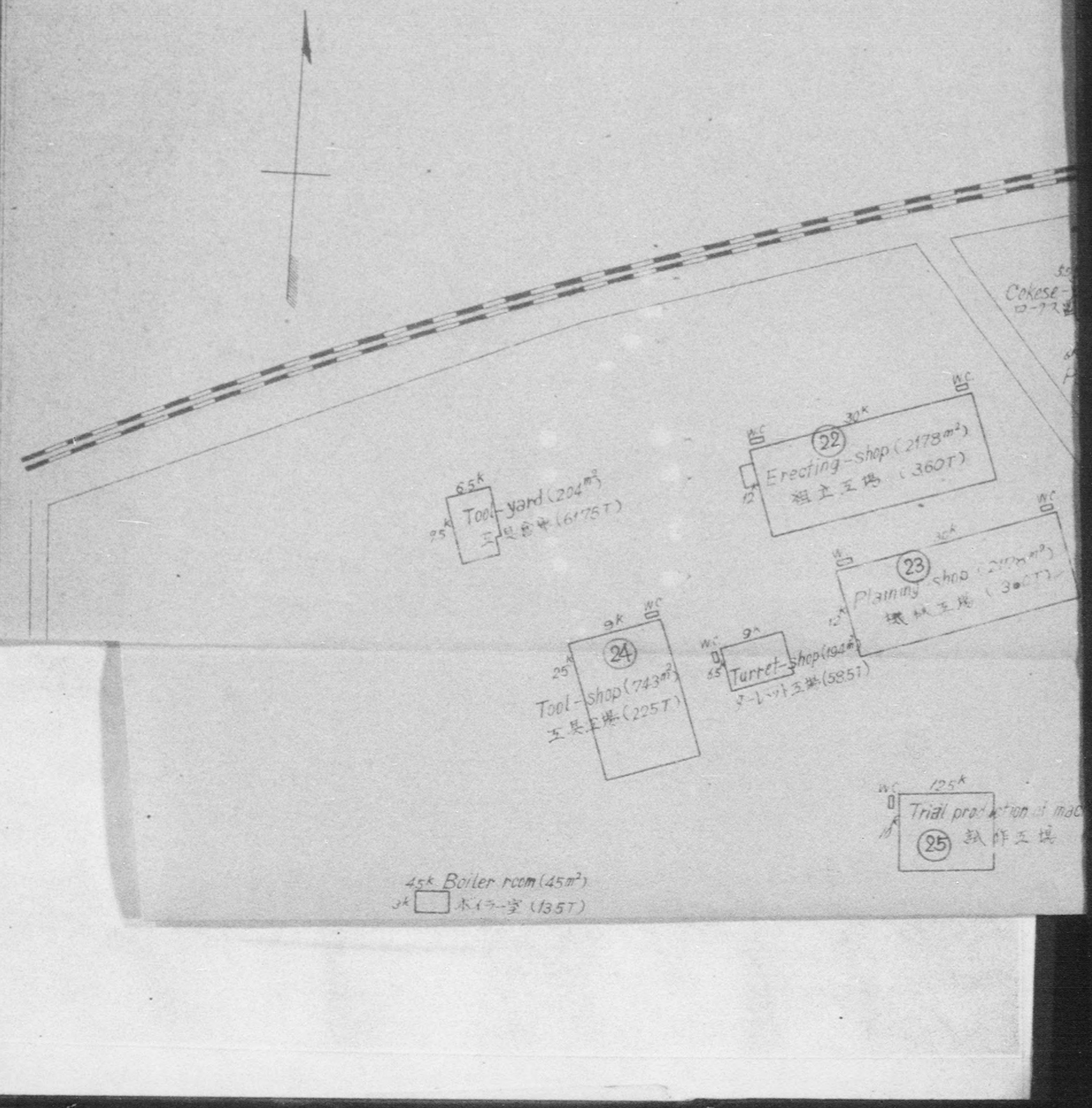
Arrangement diagram of

遠州織機株式会



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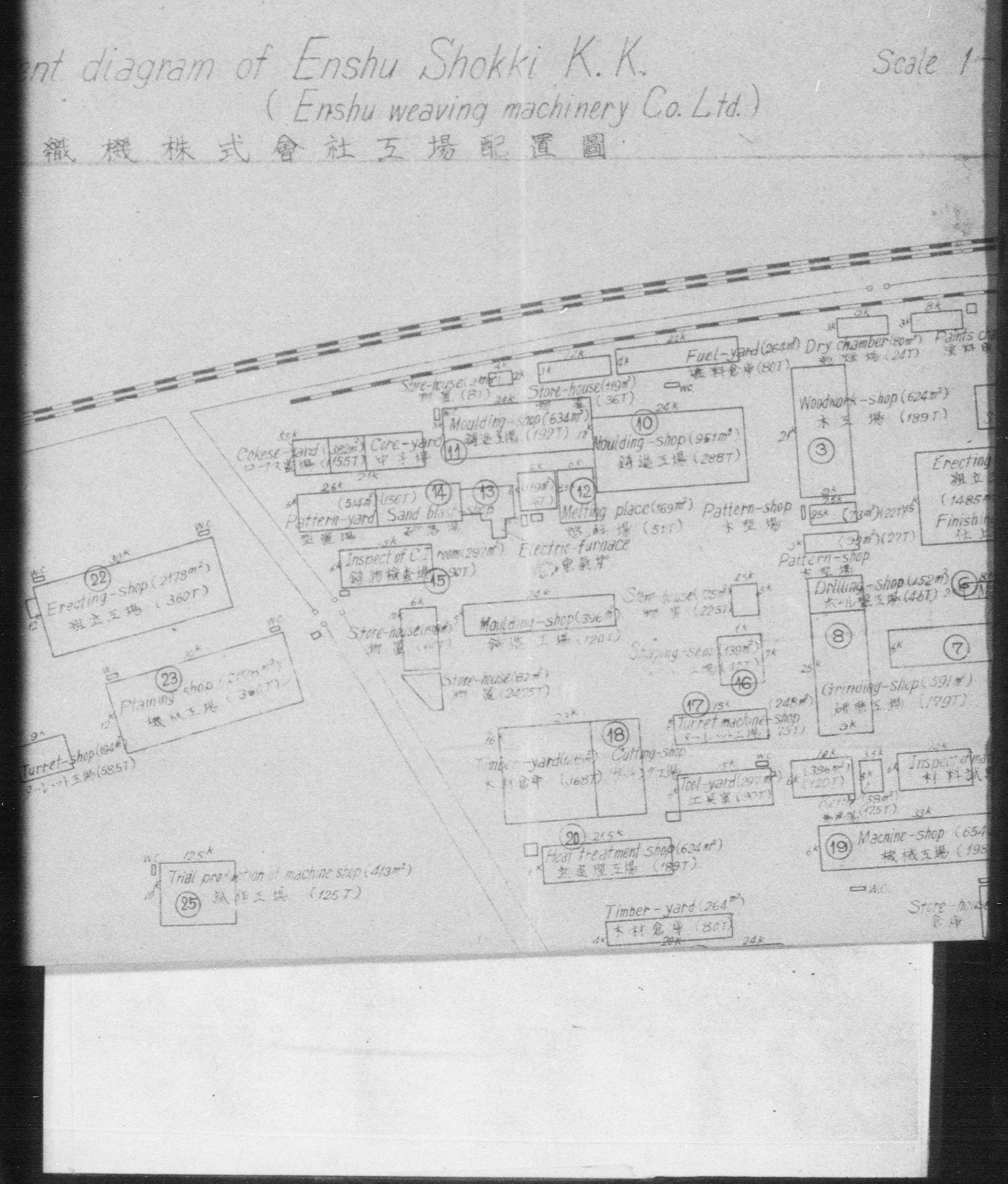
...nt diagram of Enshu Shokki K.K. Scale 1/...

(Enshu weaving machinery Co. Ltd.)

...織機株式會社工場配置圖



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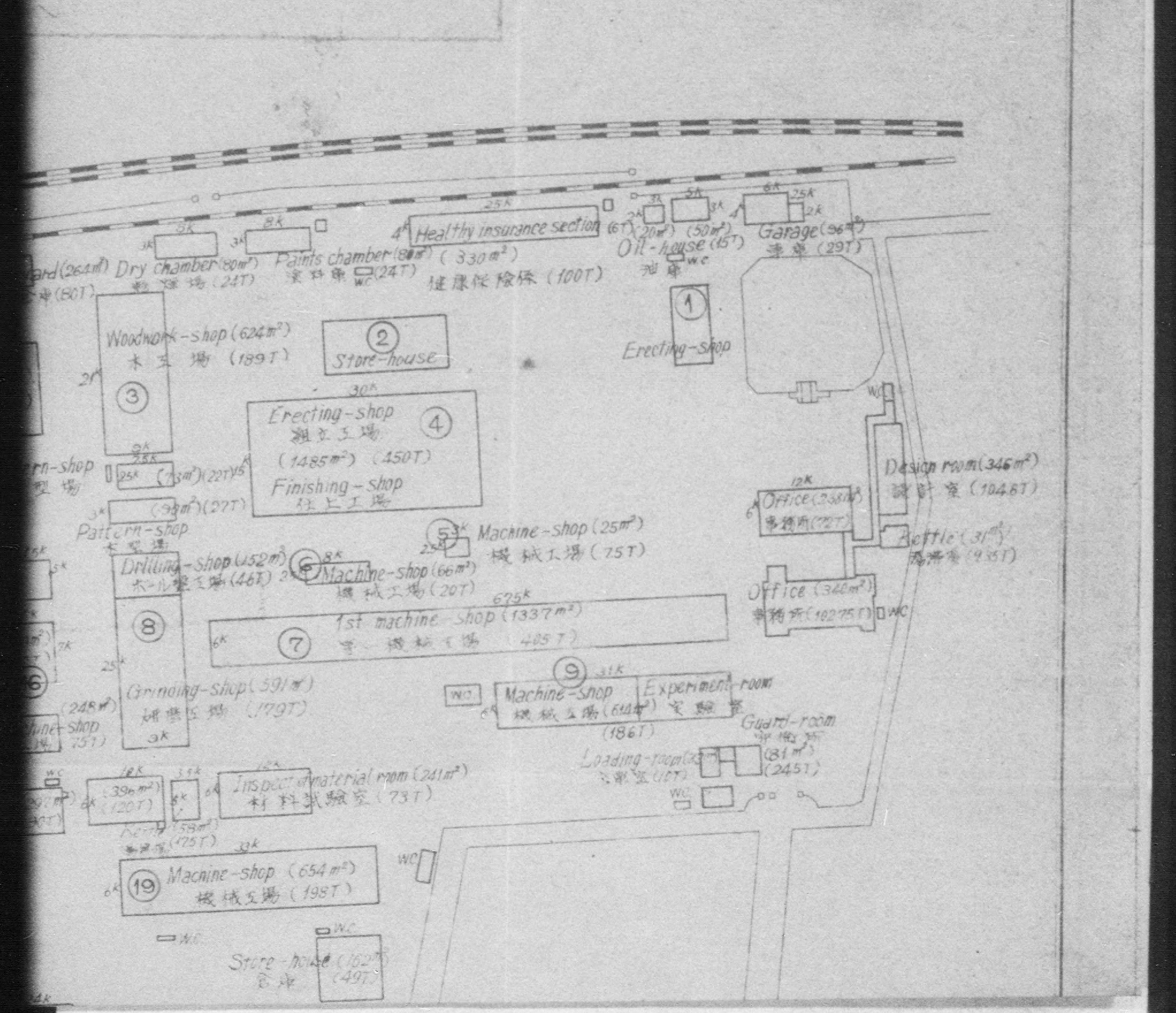
Scale 1-1200



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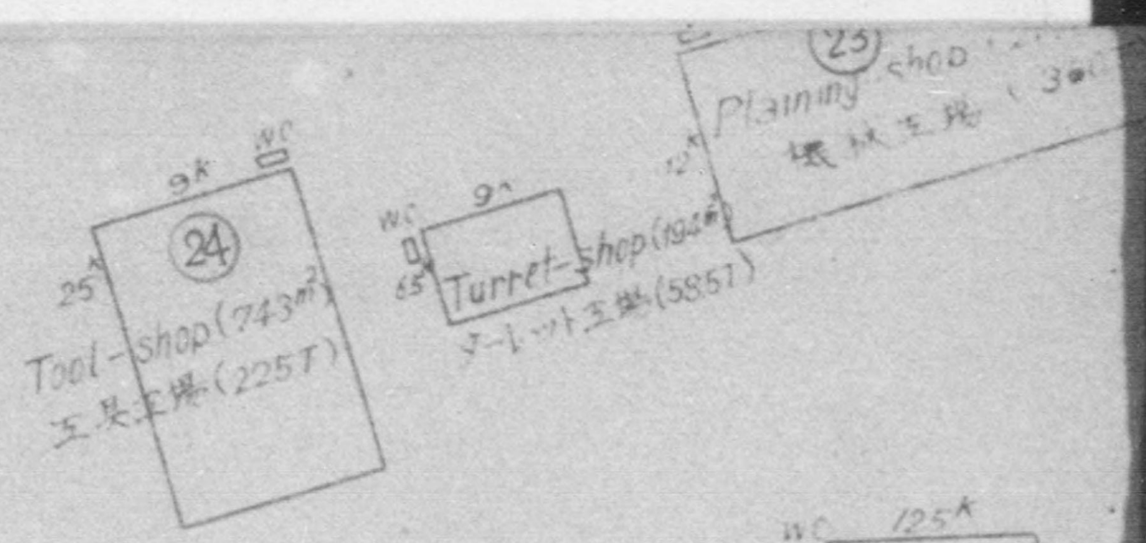

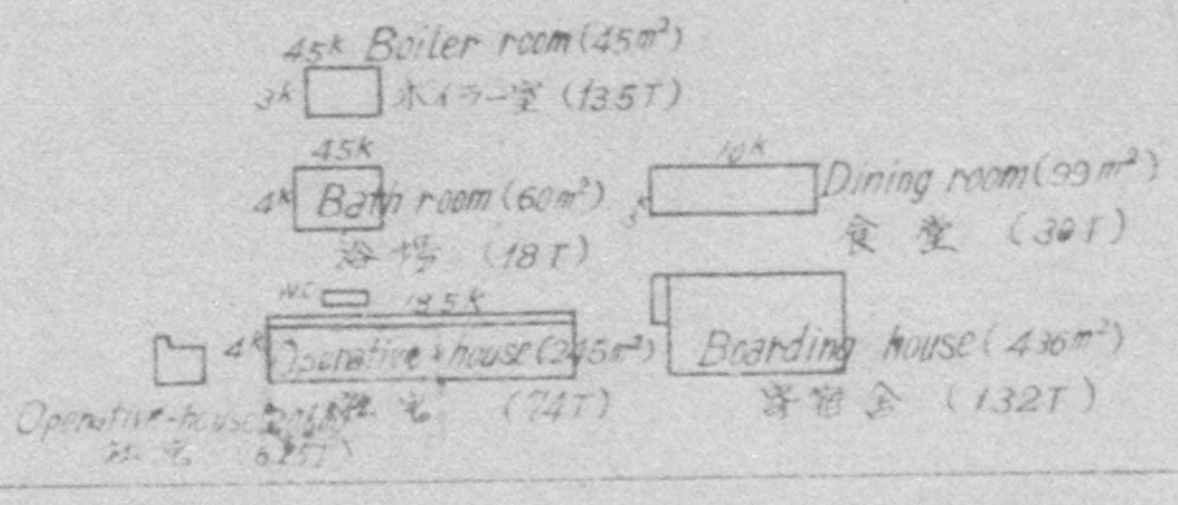

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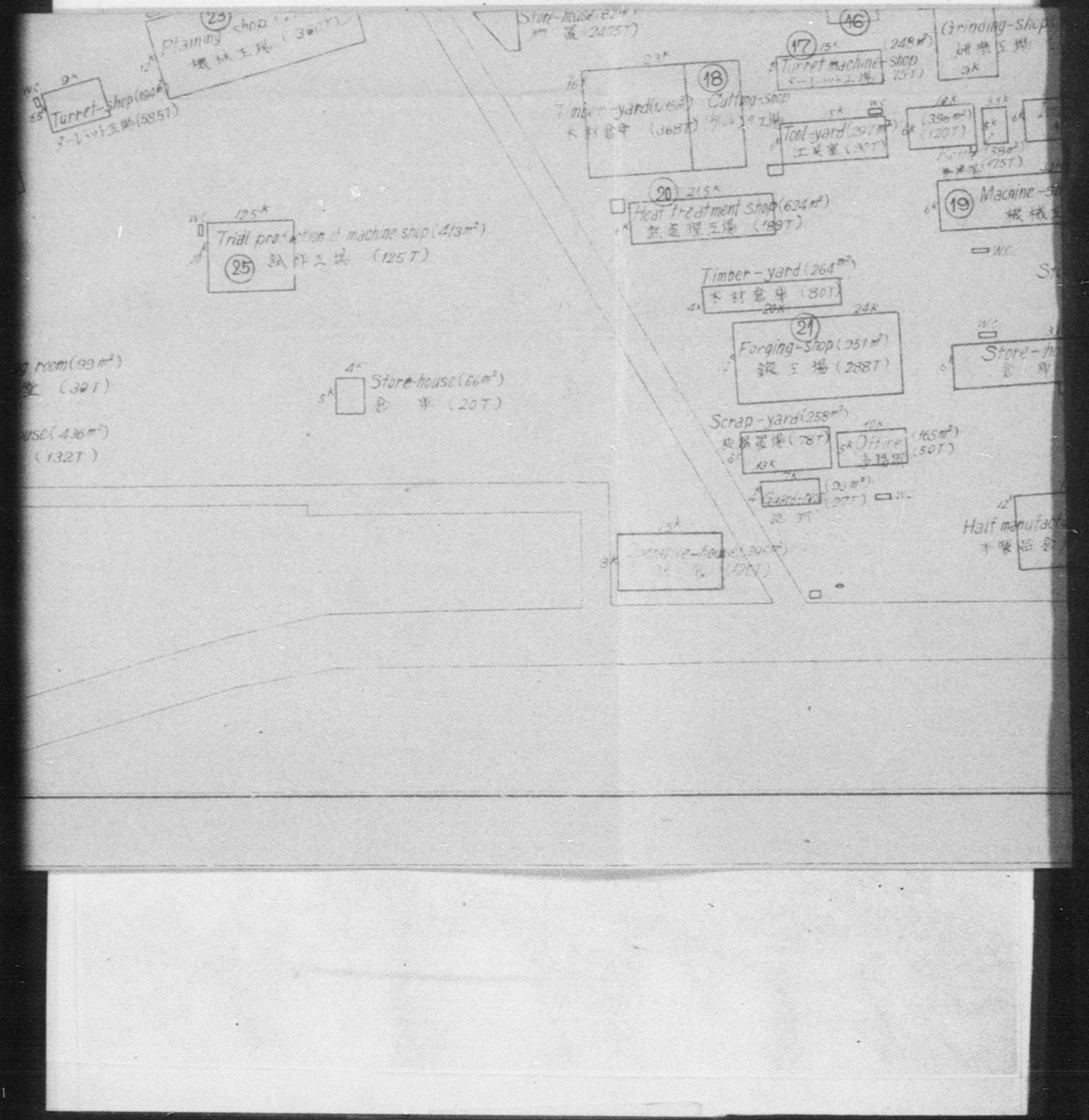

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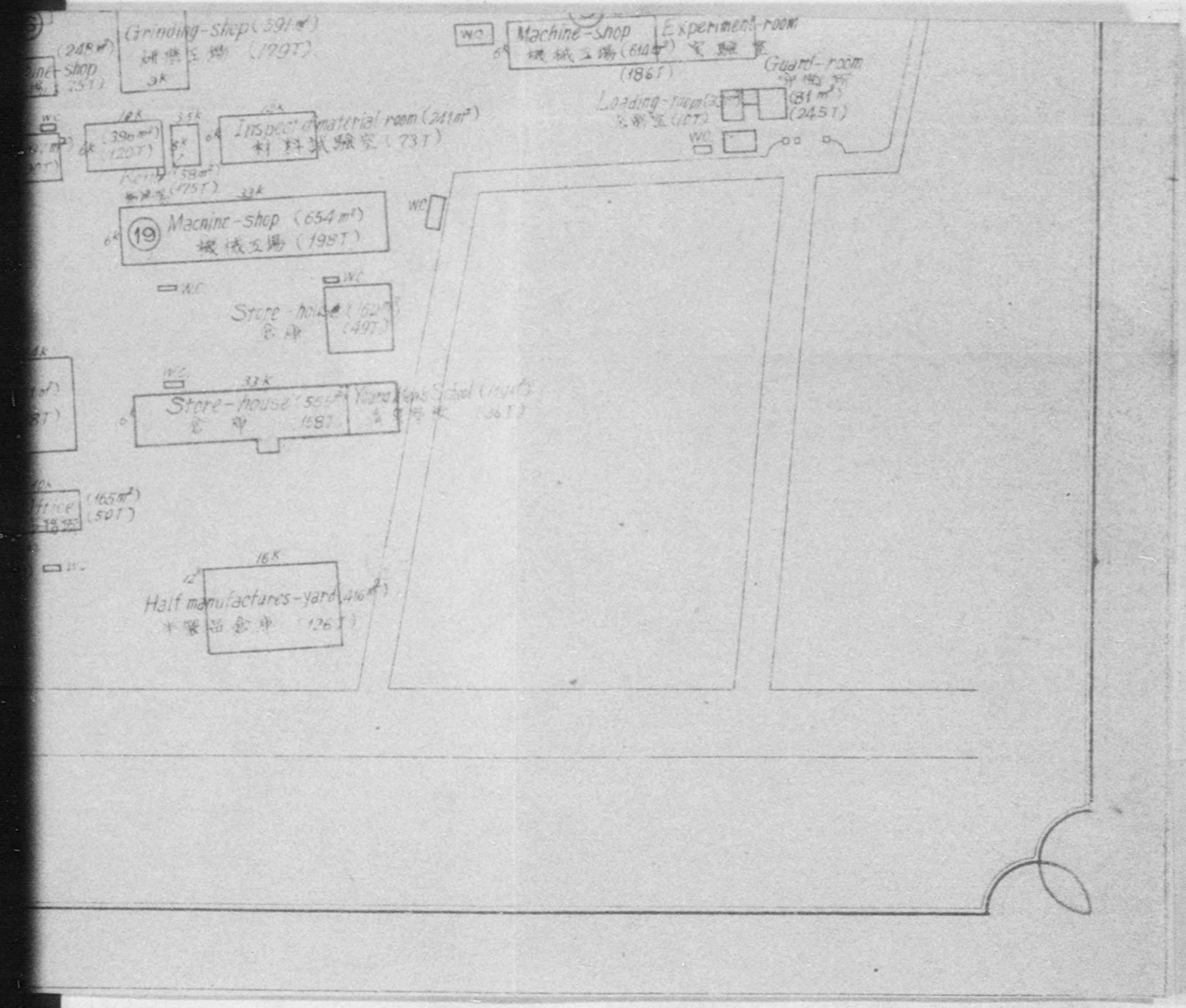

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(1) Erecting-shop

(2) Store-house

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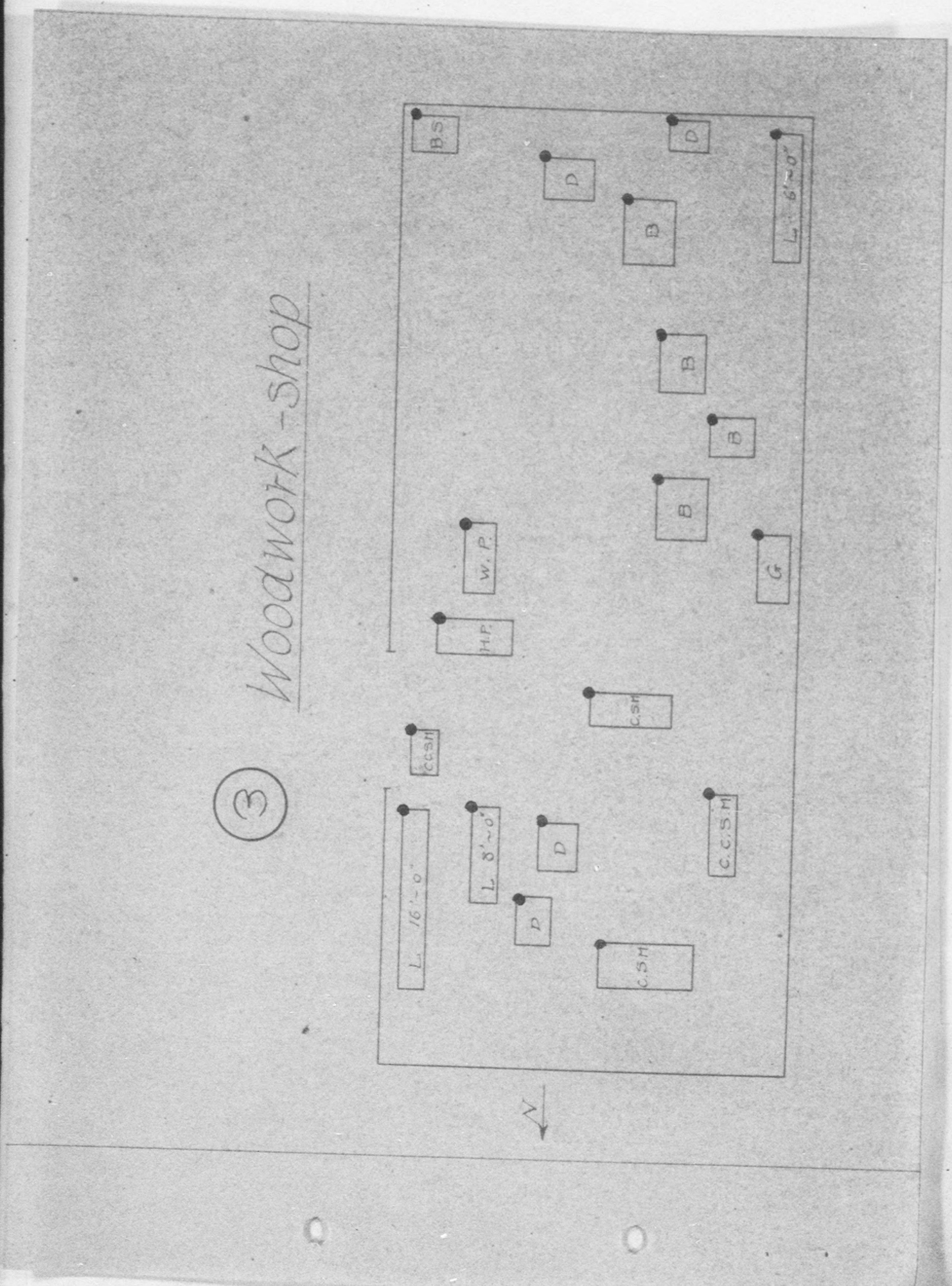

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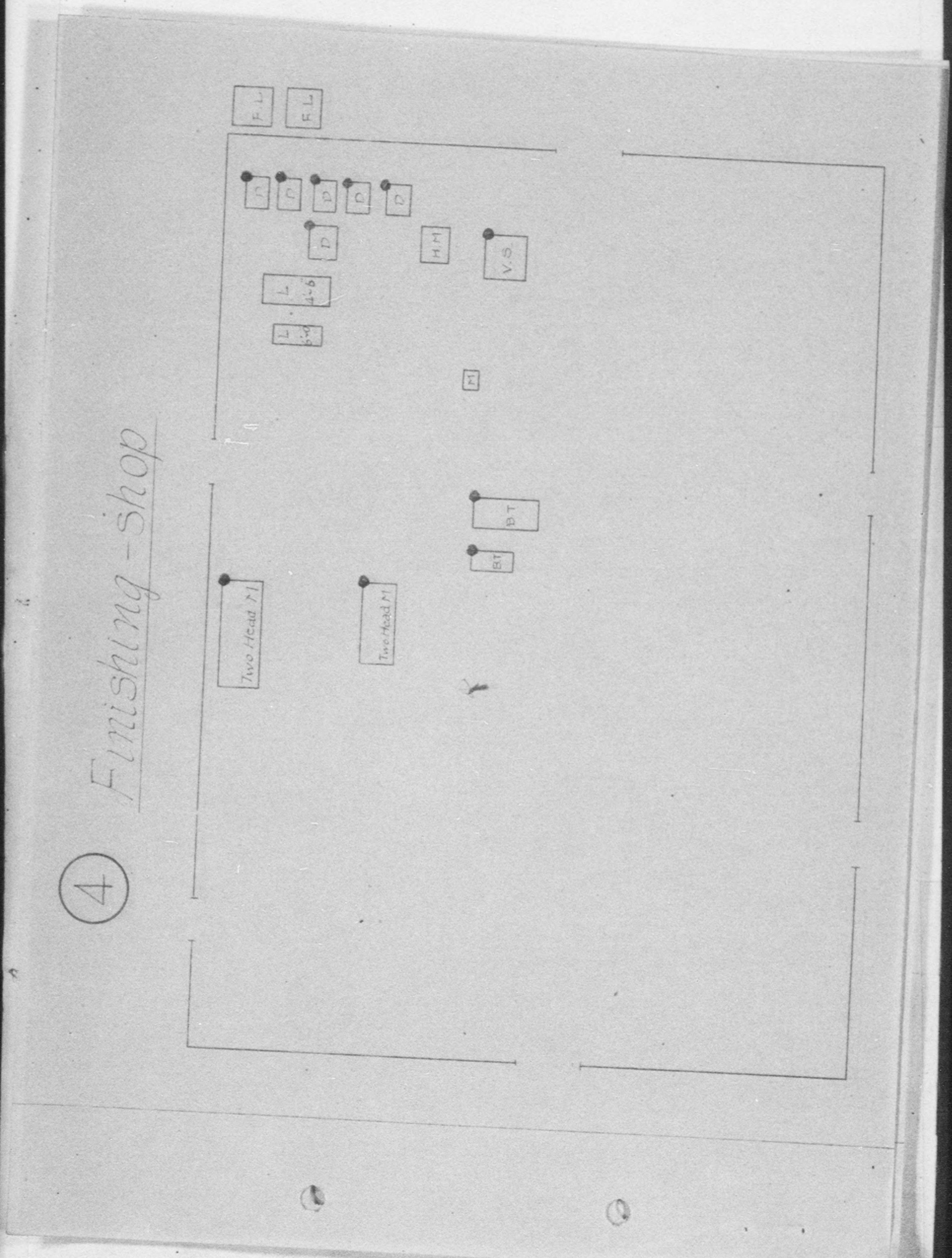

4 Finishing-shop

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(5) Machine-shop

(6) Machine-shop

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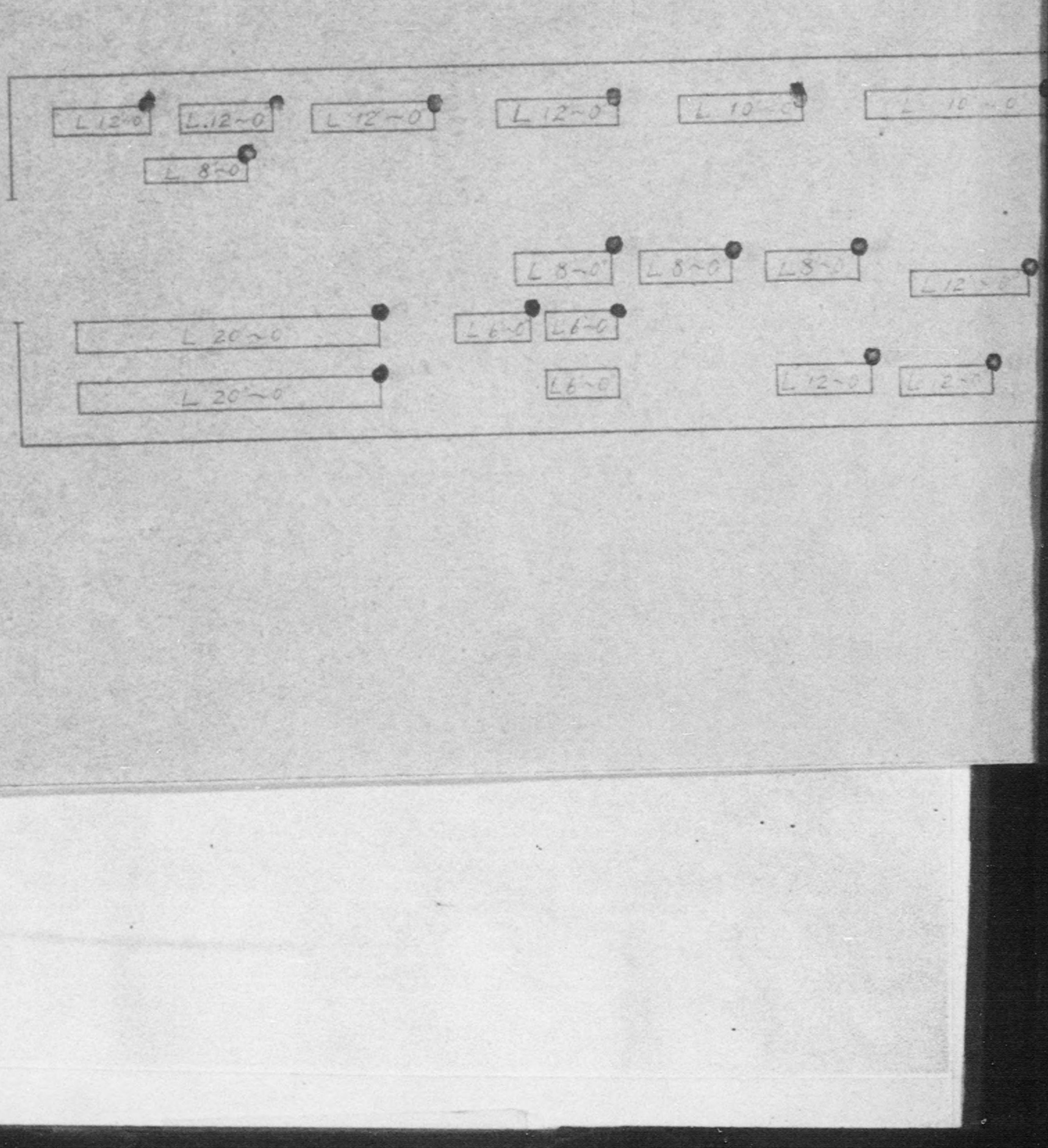

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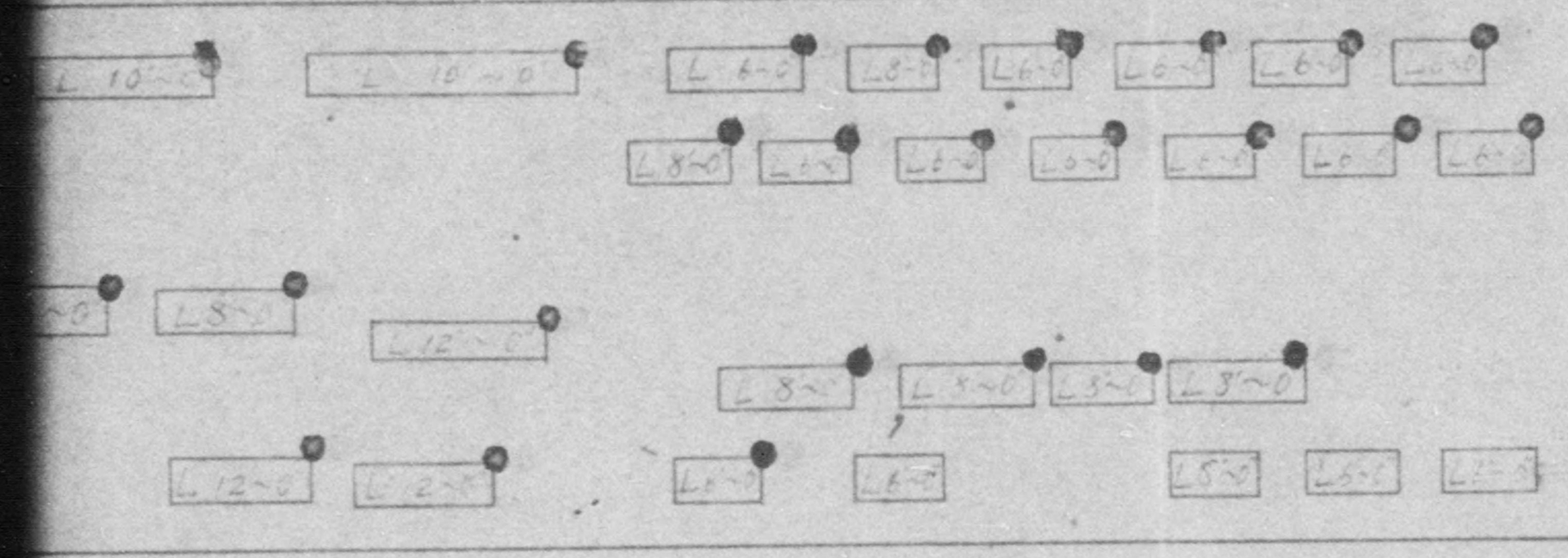
(7) 1st - Machin



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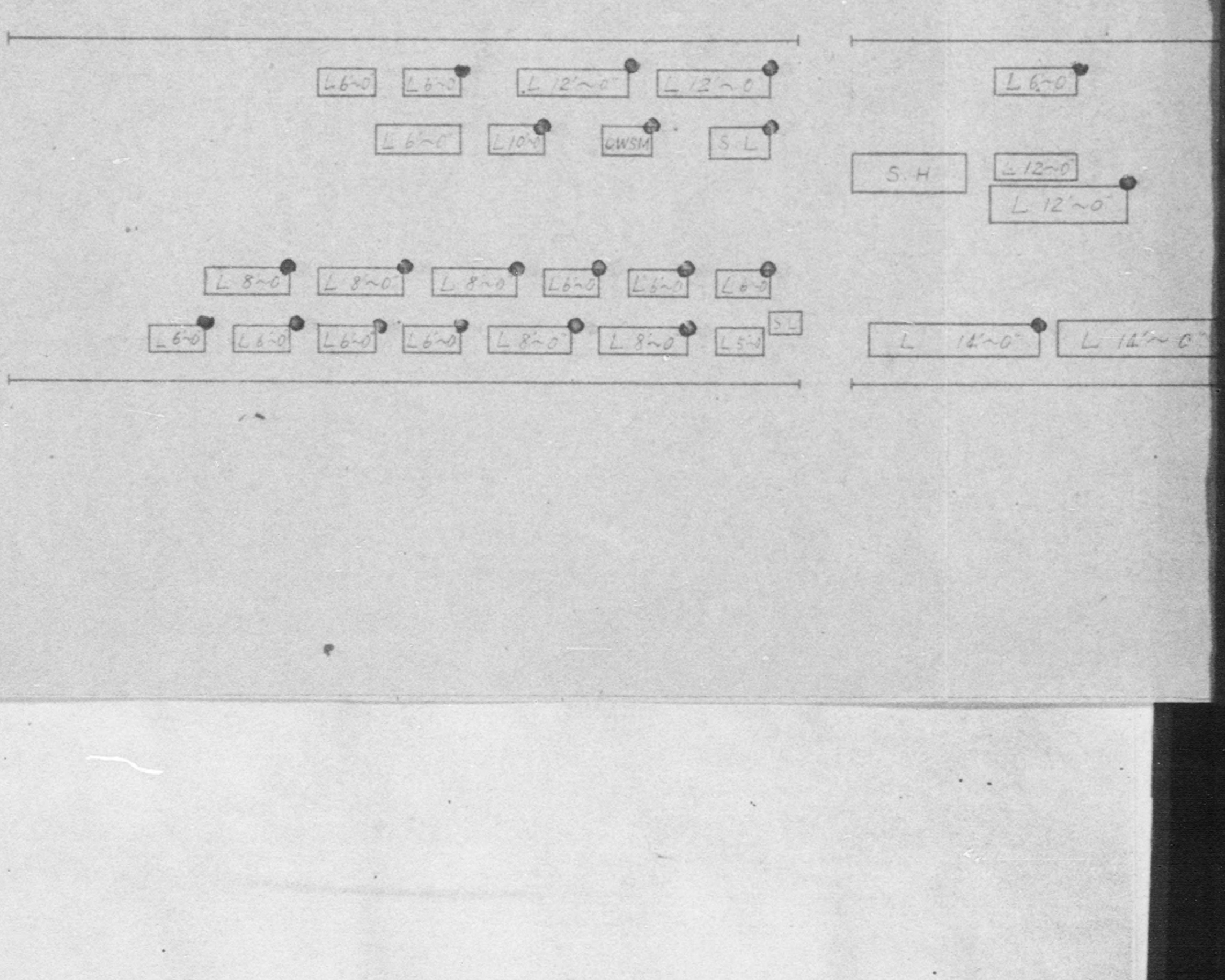
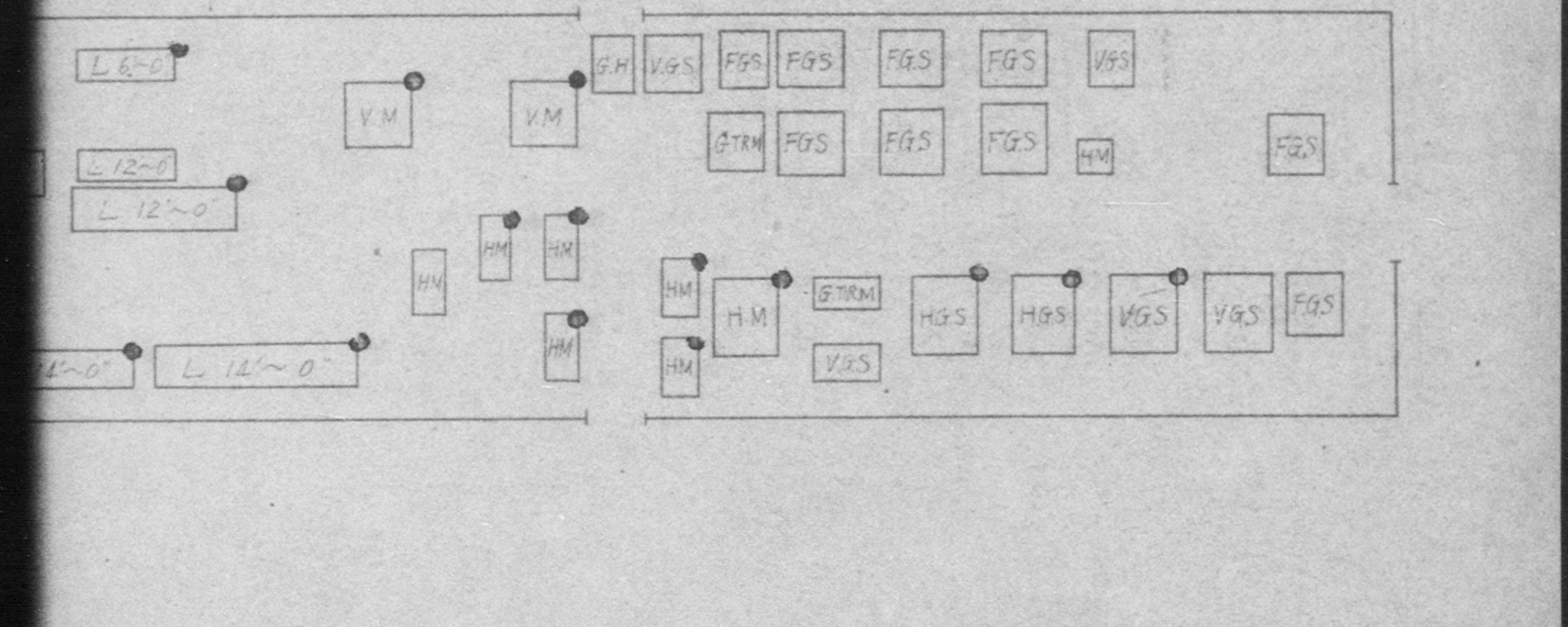
1st - Machine Shop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