

775013

METALWORKING MACHINERY

SECONDARY METAL FORMING AND CUTTING MACHINES AND EQUIPMENT.

Definition: Non-portable, power-driven machines designed to shape metal by shear, squeeze, or impact.

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
<u>Bending machines</u>		
Plate and sheet roll -bending	--	Maximum width and thick- ness of work stock
Plate and sheet roll levelers (straightening)	--	Maximum width and thick- ness of work stock
Plate and sheet press	--	Maximum width and thick- ness of work stock
Plate and sheet forming rolls	Beading, flanging, grooving, seaming, or combination of 2 or more opera- tions Automobile or locomotive tire rim forming	Maximum thickness of work stock
Shape, bar, pipe and tube bending machines (Roll type and bend- ing head type)	Structural shape, round bar, square bar, or pipe and tube	Maximum dimensions of work stock
Pipe and tube flanging and ex- panding rolls	Flanging or expanding	Maximum diameter of work stock
Press type	--	Tons pressure
Bumping hammers	--	--

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
<u>Hydraulic presses</u>		
Vertical -- forming, drawing)	
-- general utility*)	
-- forging (self-contained))	
-- forging (steam hydraulic or pneumatic))	
Horizontal -- wheel, force, arbor)	
-- piercing, drawing)	Straight side (closed side)
-- other)	Open rod
)	Arch
)	Open back
<u>Mechanical presses</u>		
1 - Point vertical)	
2 - Point vertical)	Knuckle joint
4 - Point vertical)	
End wheel vertical)	
Horizontal)	
Inclinable)	
Friction spindle)	
Other)	
<u>Manual presses</u>		
--	--	--

Tons pressure

*Forcing, assembling, forming, straightening, broaching, and other operations.

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
<u>Shearing and punching machines</u>		
Alligator shears	--	Maximum work stock
Rotary disc shears (circle)	--	--
Rotary slitting shears	. Single Multiple	--
Square shears	--	Length of cut Thickness of work stock
Combination punching and shearing	Single or double end Single or multiple operations	Maximum width of work
Double housing multiple punch	--	Tons pressure
Turret punches	--	--
Nibbling machines	--	Thickness of work stock
<u>Forging machinery</u>		
Hammers	Air, steam (single frame or double frame), board drop, rope drop, power (crank or helve) Impact stamping machines	Kilograms of falling weight Width of working area
Headers and upsetters	--	Maximum diameter of work stock
Forging rolls	--	Diameter of roll
Swagers	--	Maximum diameter of tubing

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
<u>Wire Forming machines</u>		
Die forming press for hair pins, cotter pins, and similar products	--	Maximum diameter of work stock
Stranding, twisting and braiding machines	Cable and rope or weaving and fencing	--
Spring winding machines	--	Maximum diameter of work stock
Wire straightening machines	--	Maximum diameter of work stock
<u>Miscellaneous</u>		
Thread rolling machines	--	--
Tube reducing machines	--	--
Shrinking machines (sheet metal)	--	--
Marking machines	--	--

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
<u>Welding machines</u>		
Electric	Arc: AC or DC Resistance: flash, seam, or spot	KW or amperes
Gas	--	--
Thermit	--	--
<u>Testing and measuring machines</u>		
Hardness testing	Brinell, Rockwell, Scleroscope, or Vickers	--
Pressure testing	--	Capacity
Spring testing	Tension, compression, or both	Capacity
Strength of material	Compression, fatigue, impact, tension, torsion, or combination	Capacity
Miscellaneous	Ductility, wear, abrasion, vibration	--
Structure and Composition of metals	Fluorescent, magnetic, X-ray	--
Balancing machines	Static, dynamic, both	--
Inspection testing and measuring machines	Comparators Gear measuring and testing Hob, worm, and cutter measuring	--

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
<u>Miscellaneous metal working equipment</u>		
Heat treating furnaces	Electric or other Pot, muffle, or other	--
Electroplating and anodizing	--	--
Riveting machines	Helve hammer, rotary, spinning, squeeze, or other	--
Metal heating furnaces	Electric or other	--
Metal Spraying equipment	--	--
<u>Portable metal working machines</u>		
Portable grinders	Pneumatic, electric	--
Portable drills	Pneumatic, electric	--
Portable hammers, nibblers, shears, riveters, etc.	Pneumatic, electric	--

REVISION
Aircraft Factories

X operating with permit
- " " without permit
O no files
+ No operation

TCHOKU SECTION II

YAMAGATA PREFECTURE (44)

OD 5/2 1-6

6 June 1948
Revised list

Name of Company	Address
NIPPON HIKOKI K.K. Yamagata Seisakusho	421 Teppomachi, Yamagata-shi
○ TSURUOKA KOKU KOGYO K.K. * Honsha Kojo	506 Daihoji, Tsuruoka
○ YAMAGATA KOKU KOGYO K.K. * Honsha Kojo	3015 Miya-cho, Yamagata-shi
○ YONEZAWA SANGYO K.K. (Yonezawa Industrial Co.) * Honsha Kojo	3189 Tamnoki-cho, Yonezawa-shi
○ YONEZAWA SEIITSU KIKAI * Seisa Kojo	2251 Ogura-cho, Kamihara-gawa, Yonezawa-shi

Revised List No. 1
Aircraft Factories

TOKAI & HOKUFIKU SECTION III

AICHI PREFECTURE (01)

Name of Company	Address
AICHI KOKURI K.K. (Aichi Kokuki Kogyo K.K.)	
Atsuta, Hatsudoki	Seisakusho #530, 6-chome, Ichiban-cho, Atsuta-ku Nagoya-shi
Enokido Kojo	#8, Hirashiba, Enokido, Onizaki-mura, Chita-gun
Horita Kojo	Mezuho-ku, Nagoya-shi
Inamura Kojo	Maenoike, Ima, Anjo-cho, Mekikai-gun
Ibo Kojo	Shinoibo, Honinara, Mishikano-gun
Kofu Kojo	Kokufu-cho, Koi-gun, Toyokawa-shi
* Sato (Concealed) Kojo	Mizuso-mura Higashihashugui Hatayama-mura, Nagashi Kawugai-gun
Seto Kojo	Togen-cho, Sato-shi
Tsushima Kojo	Tsushima-cho, Ama-gun
AISAN KOGYO K.K.	
* Nagoya Kojo	#1 Yobitsugi, Atsutahi-ashi-machi, Mizuno-ku, Nagoya-shi
ASAHINA TEKKOJO K.K.	
* Okochi, Seisakusho	#0 T. Ihei-jo, Higashi-Cojo, Oki-machi, Naka-jima
* Fujieda Seisa Kojo	Gigangi Fujieda-machi, Shidagun-Shizuokaken

Revised 1955
Aircraft Factories

TOKAI & HOKURIKU SECTION III

AICHI PREFECTURE (01) (CONT'D)

Name of Company	Address
CHUKOKI KOGYO K.K. (Obu Koku Kogyo)	
* Honsha Kojo	#11 Hiraagiyama, Oaza, Ofu-machi, Chitagun
CHUYO HIKOKI KOGYO K.K.	
* Komaki Kojo	#251, Komakiharashinden, Komaki-machi, Higashi, Kasugai-gun
DAIDO SEIKO K.K.	
* Hoshizaki Kojo	#66 Kuriide, Hoshizaki-machi, Minamiku, Nagoya-shi
GUNZE KOGYO K.K.	
* Toyo Hashi Kojo	#183 Maidaminami-machi, Toyohashi-shi
HOKOKU KIKAI K.K.	
* Dai Itchi (#1) Kojo	#25 Shinoto-cho, Atsuta-ku Nagoya-shi
HONA JUKOGYO K.K.	
Shinkawa Kojo	#1900 Sunaguchi, Shinkawa-cho, Nishi-Kasugai-gun
K.K. ARAI SEISAKUJO	
* Soya Kojo	Suyori, Sayamura, Kaibe-gun
KINJYO SAKUGAKI SEIZO K.K.	
* Honsha Kojo	#35, 3-chome, Tado-machi, Minami-ku, Nagoya-shi

Revised List No. 1
Aircraft Factories

TOKAI & HONSHU SECTION III

AICHI PREFECTURE (01) (CONT'D)

Name of Company	Address
KAKUA KOKUKI KOGYO	
* Okoshi Kojo —	#15 Sanjo, Okoshi-machi Nakashima-gun
MI AICHI KIKAI SENIGAKUSHO K.K.	
* Yatomi Kojo	Gouyo, Yatami-cho, Ina-gun
KANESAKI MEMORI K.K.	
Echinomiya Kojo	Ichinomiya-shi
KOBAYASHI SEIBANJUO K.K.	
* Mononoki Kojo	Mononoki, Mizuhoku, Nagoya-shi
MITSUBISHI JUNCOGYO K.K.	
Daiyon (#4) Kojo	#998 Daiko-cho, Higashi-ku Nagoya-shi
— * Dai Go (#5) Kojo	Obu-machi, Chita-gun
Daiju (#10) Kojo	#1 Hiyahigashi, Imatsuka, Nakamura-gun
Dai Nijuni (#22) Kojo	Noromo-cho, Nishi-kamo-gun
○ * Harizaki Kojo	#16 Higashi Kanji, Harizaki- machi Okazaki-shi
Ju Ni (#12) Kojo	Nishibira-jima-cho, Nishikasuga-gun
MIZUNO SANGYO K.K.	
* Chiryu Kojo	#10 Oyama, Chiryu-cho, Nekitai-gun
Tanryu Kojo	#45 Nishima-cho, Hamamatsu-shi

Revised
Aircraft Factories

TOKAI & HONSHU SECTION III

AICHI PREFECTURE (01.) (CONT'D)

Name of Company	Address
FUJIKEN DOSEKI K.K.	
* Iiai Kojo	45 Iriyama, Aiocho, Okazaki-shi
FUJIKEN HIRUCHI K.K. (Fuji Industrial Co. Ltd.)	
Atsuta Kojo	Nagoya-shi
Handa Kojo	11 Gochohama, Ukiawa, Handa-shi
Obu Kojo	Obu-cho
* Uchiyama (Branch) Kojo	11 Gochohama Okawa Handa-shi
* Yamagata (Branch) Kojo	Yamagata, Shinden, Handa-shi
Yashino Kojo	Handa-shi
OBAYASHI KOGYO K.K.	
* Kasadera Kojo	57 Tatewaki, Kasadera-cho, Minami-ku, Nagoya-shi
Ichinomiya Kojo	50 Minominegusa, Obu-cho, Kakashina-gun
* Oishi Kojo	3 chome, Tono-machi, Ichinomiya-shi
OBAYASHI DOCK & MACHINE KOGYO K.K.	
* Seto Seisakusho	11 Higashiyama-machi, Seto-shi
FUSO LIGHT METAL INDUSTRIAL CO. LTD. (Fuso Light Metal Industrial Co. Ltd.)	
* Karumi Kojo	13 Denji-yama, Karumi-cho
* Nagoya Seisoshu	500 Hon-no-machi Chitose, Minato-ku,

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Aircraft Factories

TOKAI & HOKURIKU SECTION III

AICHI PREFECTURE (01) (CONT'D)

Name of Company	Address
TOYODA JIDOSHA KOGYO K.K.	
* Kariya Kita Kojo	Nagoya Kariya-cho, Nekikai-gun
* Kariya Minami Kojo	11, Oadomeike Kariya, Kariya-machi, Awa-gun
* Karomo Kojo	13, Inayama, Shimoichiba, Karomo-machi, Mishi-gun
TOYADA JIDOSHOKI SEISAKUSHO	
Sako Kojo	11716 Yoneda-cho, Mishi-ku, Nagoya-shi, Seiso-Susho
TOYODA JIDOSHOKI SEISAKUSHO	
Obu Kojo	Obu-cho, Chita-gun
TOKAI HINOKI K.K.	
Kariya Kojo	Kariya-machi, Nekikai-gun
YAJIYA KOGYO K.K.	
Moriyama Kojo	11416 Kanaya, Omorigaito, Moriyama-cho, Higashi, Masugai-gun
Nagoya Kojo	18 Nagano-machi, Naka-ku, Nagoya-shi
Sakurada Kojo	10 Sakurada-cho, Atsuta-ku Nagoya-shi

Revised List No. 1
Aircraft Factories

TOKAI & HOKURIKU SECTION III

AICHI PREFECTURE (01)

Name of Company	Address	Reason for Change
ASHINA TEKOSHO		
Nagoya Seizosho	Nagoya-shi	Removed from List
AICHI HOKUKI K.K.		
Aotsuka Kojo	Nagoya-shi	Removed from List
Funakata Kojo	Nagoya-shi	Removed from List
Honsha Kojo	Nagoya-shi	Removed from List
Hotei Kojo	Nagoya-shi	Removed from List
Sanno Kojo	Nagoya-shi	Removed from List
Tsu (Concealed) Kojo	Mie Ken	Removed from List
HONMA JUKOGYO K.K.		
Shinkawa Kojo	#1990 Sukaguchi, Shinkawa-cho Nishi-Masugai-gun	Was Listed as (Hoa)
TEIKOKU (PACKING) KOGYO K.K.		
Ichinomiya Kojo	Ichinomiya-machi	Removed from List

Revised List No. 1
 Aircraft Factories
 TOKAI & HOKURIKU SECTION III
 AICHI PREFECTURE (01) (CONT'D)

Name of Company	Address	Reason for Chang
TOYODA JIDOSHA KOGYO K.K.		
Aichi Kojo	Nagoya-shi	Removed from List
TOYO KIKAI KOGYO		
Dai Ichi (#1) Kojo	Nagoya-shi	Removed from List
TOYADA JIDOSHOKI SEISAKUSHO		Was Listed as (Toyada Jidosha)
Sako Kojo	#1716 Yoneda-cho, Nishi-ku Nagoya-shi, Seiso-Susho	Was Listed as (Eiyu)
TOYADA JIDO SHOKUKI SEISAKUSHO		Was Listed as (Toyada Jido-kikai)
Obu Kojo	Obu-cho, Chita-gun	As above indicated

C O P Y

REFERENCE " b "

2. "Conversion" as used in paragraph 3b of the above directive is intended to apply to cases where the physical modification or conversion of the equipment or facilities of a plant is required before such plants, which were engaged in production of war materials, can begin production of consumer commodities In this case application for conversion shall be made as specified in paragraph 3b of Directive 3. A textile establishment formerly manufacturing military uniforms or blankets for military use can produce clothing and blankets for civilian use without conversion, and may immediately proceed to do so as directed in paragraph 3a of Directive 3.

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Inventory Instructions

1-13

Form I-5
(100)

N 46
S 47

AICHI MILITARY GOVERNMENT TEAM

INVENTORY INSTRUCTIONS

(Rev. 2 Sept 46)

INDEX

1. Conduct of Inventory.
2. Instructions for Inventory Sheet.
3. Standard Terminology for line "C" of Inventory Sheet and Standard Dimensions for line "J".

Plant:

Number: 01-

1946

2. Instructions for Inventory Sheet

A. Date of Inventory:

Self-explanatory.

系務一記入バス 西工 7/27 記入
 本物完了年月日

B. Code Number:

1. Code number as called for in paragraph B of the Inventory Sheet will be used to identify a machine or piece of equipment in reference to the following factors:

- a. Prefecture (Aichi - "01")
- b. Plant ⁴⁷
- c. Machinery or equipment

Code number will consist of three sets of number groups, each separated by a dash.

2. The second group of numbers identifies the individual plant, not the parent company. The cover sheet of this pamphlet has your plant number on it. (Upon approval of field representative, parenthetical letters may be used for dispersal plants.)

3. The third group of numbers will identify the piece of machinery in a plant. These numbers will be assigned consecutively to all the machinery to be inventoried within a given plant by the Japanese inventory personnel.

戦争中修文し 戦争時=入74 特殊機器関係等。(ex)ト+32
 Example:

B. Code Number: 01-⁴⁷56-165

4. Special Purpose Machinery and Equipment:

(a) Definition: All machinery, equipment, and accessories which, by virtue of initial design, construction or major structural change, are as individual items, special purpose in nature and functionally limited to use in connection with equipment or supplies for war or war-like purposes.

775013

are defined as "Special Purpose Machines and Equipment." Machines determined to be special purpose as defined above will carry the suffix "SP" to the serial number of the machine and will be painted on the machine as part of the serial number. 特殊機械、名義番号、list 737-1作

(b) Example: 18-41-148 SP

5. Machinery and Equipments installed since the occupation will be coded "EX" after approval of the Field Representative.

Example: 01-41-161 EX *apt*

C. Name of Machine:

The main type and sub types as designated in the attached lists will be entered. No other information is desired. When sub-type descriptions fail to apply, the letters NEC will be used. *main type, too*

Examples: 1. ^{BORING MACHINE} Boring Machine - Horizontal Boring Drilling Machine - Table *(Sub)*
 2. ^{LATHE} Lathe - Engine (Tool Room) - Standard *Standard*

D. Manufacturer:

Give manufacturer's name in full. Do not translate into English.

E. Country in which manufactured:

Self-explanatory. *日本 Japan etc*

F. Manufacturer's Model Number:

As usually listed in catalogs and indicated on name plates of the machine. Include the manufacturer's serial number. Example, "Model XB2-4, serial #12345." *Manufacturer or Model # or Serial # 737-17*

G. Age of Machine in Years:

Enter date of manufacture. If age cannot be so determined, give approximate year of manufacture and mark "est." Avoid years of "Showa," or other Oriental methods of year counting. *製造年 (年) Manufactured 1934*

H. Condition of Machine: (Missing motors or chucks)
(noted but will not reduce)
(category of machine.)

1. GOOD Class #1 (Requires only maintenance)

Machines in this class meet the standard of any 1st class second-hand tool, are currently in operation, or may be put into operation subject only to minor servicing.

2. GOOD Class #2 (Requires repairs)

Machines in this class do not meet 1st class standards but are economically suitable either for non-precision work or for restoration through major service or rebuildings.

3. Class #3 (Unserviceable)

Machines in this class do not meet the standards set for the two preceding classes. They are currently unserviceable and in the judgment of the examiner it would be uneconomical to undertake the necessary repairs.

4. Class #4

These machines that are obviously of only salvage value because of structural damage will be marked Class #4 on the draft copy of the Inventory Sheet and will not be given a code number.

NOTE: Part II and Part III machinery will be class I or III only, depending on whether the item can be moved and be put in operation subject only to minor replacement parts.

I. Brief Reasons Why Unserviceable:

C concise statement for Class #3 and #4 machines.

J. Operating dimensions:

Indicate principal operating specifications as outlined in list attached. No other demensions are desired.

MTR =
220
4x77
11x11
2-5
change gear
1712
KTR 30R
7
change gear
missing
137

大町元大平入

会社 2000

120-0017 徳色 1112
1112 1112
77R

1112 1112

7752 1112 30R

2000

1 2 3 空欄

Example: 75mm Boring Bar
Swing Diameter 500mm

表 21111
21112

K. Power Source: (Metal-working machinery only)

- 1. If motor driven indicate the H.P. of the principal power source and place voltage by either AC or DC.
- 2. If belt driven, mark cone if it is of multiple speed and pulley if it is single speed.

改道...
Cone Pulley
Motor
AC DC

counter-shaft drive

cone drive pulley drive

individual motor drive

L. Overall Dimension:

Self-explanatory. (When specifying weight of hammers do not include anvil.)

M. Brief Description of Machine Characteristics:

Indicate if motor or other essential part missing. If machine released to occupational forces indicate unit and cite authority. If wood-working machine, put the word "wood" in this space.

495%
1325
515
67
=114

NOTE: No entries will be made in the Code Section columns located in the right-hand side of the Inventory Sheet. These columns are for use by the Office Section, GHQ, only.

登錄用特機之賠償, 11月1日... (21112)

正例 10月1日完成

提出時說明書記一併-格77208

4/11

CLASSIFICATION OF REPARATIONS MACHINERY

CONTENTS

此表之地位 inventory 不在

(例) 鋸物設備

木工機械

I. METALWORKING MACHINERY.A. MACHINE TOOLS.

1. Boring machines
2. Broaching machines
3. Drilling machines
4. Gear Cutting and Finishing machines
5. Grinding machines
6. Lathes
7. Milling machines
8. Planers
9. Miscellaneous machine tools

B. SECONDARY METAL FORMING AND CUTTING MACHINES AND EQUIPMENT.

1. Bending machines
2. Hydraulic presses
3. Manual presses
4. Mechanical presses
5. Shearing and punching machines
6. Forging machinery
7. Wire forming machines
8. Miscellaneous
9. Other metal working machinery and equipment

C. MISCELLANEOUS METAL WORKING EQUIPMENT.

1. Welding machines, all types
2. Testing and Measuring machines, all types
3. Miscellaneous physical property testing
4. Heat Treating Equipment
5. Portable Metal Working machines

II. ELECTRICAL MACHINERY AND APPARATUS.A. ELECTRICAL ROTATING EQUIPMENT.

1. Generators
2. Motors (5 HP and over)
3. Motor Generators
4. Frequency Changers
5. Converters and Inverters
6. Generator Sets (Direct coupled to Prime Mover)

Appendix to Incl 1 to OD 5/4, Hq 8A, 22 August 1946.

CLASSIFICATION OF REPARATIONS MACHINERY

CONTENTS (Cont'd)B. PRIMARY ELECTRIC POWER TRANSMISSION AND DISTRIBUTION EQUIPMENT.

1. Transformers
2. Switch

III. GENERAL PURPOSE INDUSTRIAL MACHINERY AND EQUIPMENT.A. ENGINES AND TURBINES.

1. Steam Engines
2. Steam Turbines
3. Internal Combustion Engines

B. COMPRESSORS AND PUMPS.

1. Compressors and Dry Vacuum Pumps
2. Pumps

C. MISCELLANEOUS MACHINERY AND EQUIPMENT.

1. Power Boilers
2. Cranes

研究資料部 別紙=記載→指導

Appendix A to Incl 1 to OD No. 5/4, Hq 8A, 22 August 1946.

I. METALWORKING MACHINERY AND EQUIPMENT

A. MACHINE TOOLS. DEFINITION: Non-portable power-driven machines designed to shape metal by the progressive cutting away of stock in the form of chips or shavings, or by abrasive action.

<u>TYPE</u>	<u>SUB-TYPES</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>BORING MACHINES</u>		
Horizontal Boring, Drilling and Milling Machines.	Table. Floor. Planer. N.E.C.	Diameter of boring bar Diameter of boring bar Diameter of boring bar Diameter of boring bar
Vertical Boring and Turning Mills. (Including Vertical Turret Lathes)	-----	Swing diameter
Precision	Single and horizontal. Double end horizontal. Special horizontal. Special Vertical.	----- ----- ----- -----
Jig	-----	Table travel
Miscellaneous	Special vertical. Horizontal cylinder boring. Oil groover. N.E.C.	Diameter or length of working surface Diameter or length of working surface Diameter or length of working surface Diameter or length of working surface

Appendix A to Incl 1 to OD 5/4, Hq 8A, 22 August 1946.

<u>TYPE</u> LINE "C"	<u>SUB-TYPES</u> LINE "C"	<u>PRINCIPAL OPERATING SPECIFICATIONS</u> LINE "J"
<u>BROACHING MACHINES</u>		
Internal.	Horizontal. Vertical. Special.	Pressure (Metric tons) Pressure (Metric tons) Pressure (Metric tons)
Surface.	Single ram. Double ram. Continuous. Special.	Pressure (Metric tons) Pressure (Metric tons) Pressure (Metric tons) Pressure (Metric tons)
Combination External and Internal.	-----	Pressure (Metric tons)
Not Elsewhere Classified.	-----	Pressure (Metric tons)

Appendix A to Incl 1 to OD No. 5/4, Hq 8A, 22 August 1946.

<u>TYPE</u>	<u>SUB-TYPES</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>DRILLING MACHINES</u>		
Deep Hole. (Include rifle drilling and rifle drilling and reaming machines)	Horizontal. Vertical.	Maximum depth of hole Drilling capacity in steel or cast iron (Diameter)
Radial.	Plain. Wall. N.E.C.	Column diameter (Plain only) Maximum distance, spindle center to column (Swing or arm)
Sensitive and Power Fed Upright. (Except bench type) (one or more columns with spindles independently fed)	-----	Drilling capacity in steel or cast iron (Diameter) Distance, spindles center to column (Swing) Number of spindles or columns
Bench Type	-----	Drilling capacity in steel (Diameter)
Way and Special.	-----	Drilling capacity in steel or cast iron (Diameter of tap, bore, etc.)
Not Elsewhere Classified.	-----	Drilling capacity in steel or cast iron

Appendix A to Incl 1 to OD No. 5/4, Hq 8A, 22 August 1946.

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>GEAR CUTTING AND FINISHING MACHINES</u>		
Gear Hobbers	Single spindle.	Diameter maximum capacity
	Multi spindle.	Diameter maximum capacity
	Special.	Diameter maximum capacity
Gear Shapers.	Spur, external and/or internal.	Maximum external diameter of work
	Spur, external (Only).	Maximum external diameter of work
	Spur and helical, external (Only).	Maximum external diameter of work
	Spur and helical, external and/or internal.	Maximum external diameter of work
	Spur, helical and continuous herringbone External and/or internal (Sykes type).	Maximum external diameter of work
	N.E.C.	Maximum external diameter of work
Gear Cutters and Generators	Straight bevel, rougher.	Maximum external diameter of work
	Straight bevel, generator.	Maximum external diameter of work
	Spiral bevel.	Maximum external diameter of work
	Spiral bevel and/or hypoid (Except planer type) rougher.	Maximum external diameter of work
	Spiral bevel and/or hypoid (Except planer type) generator.	Maximum external diameter of work
	Gear planer. (Template or formed cutter type)	Maximum external diameter of work
	Gear milling or formed disc cutter type.	Maximum external diameter of work
	Gear planing generator.	Maximum external diameter of work
	Rack Cutter.	Maximum external diameter of work
	N.E.C.	Maximum external diameter of work
Gear Tooth Grinding Machines.	Generating type (specify as follows:	
	Spur.	Diameter maximum capacity
	Spur and helical.	Diameter maximum capacity
	Straight bevel.	Diameter maximum capacity
	Spiral bevel.	Diameter maximum capacity
	Spiral bevel and/or hypoid.	Diameter maximum capacity
	Internal. (All types)	Diameter maximum capacity

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>GEAR CUTTING AND FINISHING MACHINES (Cont'd)</u>		
Gear Tooth Grinding Machines. Cont'd.	Formed wheel type. N.E.C.	Diameter maximum capacity Diameter maximum capacity
Gear Finishing machines. (Except Grinders)	Lapping, external. Lapping, internal. Lapping, combination internal & external. Shaving. Enveloping generators. Burnishing. Tooth chamfering. Tooth pointing. Tooth chamfering and pointing Tooth rounding. Tooth burring. Tooth rounding, chamfering, pointing and burring (Combination). N.E.C.	----- ----- ----- ----- ----- ----- ----- ----- ----- ----- ----- -----

Appendix A to Incl 1 to OD No. 5/4, Hq 8A, 22 August 1946.

TYPE	SUB-TYPE	PRINCIPAL OPERATING SPECIFICATIONS	
		LINE "C"	LINE "J"
<u>GRINDING MACHINES</u>			
External Cylindrical. (Except Centerless)	Plain.		Swing diameter
	Universal.		Swing diameter
	Roll.		Swing diameter
	Semi and full automatic.		Swing diameter
	Crank.		Swing diameter
	N.E.C.		Swing diameter
External Cylindrical, Centerless.	-----		Swing diameter
Internal Cylindrical.	Plain or Chucking.		Swing diameter (Mfg. rating)
	Centerless.		Swing diameter (Mfg. rating)
	Automatic.		Swing diameter (Mfg. rating)
	Semi-Automatic.		Swing diameter (Mfg. rating)
	Planetary.		Swing diameter (Mfg. rating)
	Combination hole and face.		Swing diameter (Mfg. rating)
	N.E.C.		Swing diameter (Mfg. rating)
Thread.	External.		Maximum diameter & length of work
	Internal.		Maximum diameter
	Combination external internal.		Maximum diameter & length of work
	N.E.C.		Maximum diameter & length of work
Surface.	Rotary Table, horizontal.		Diameter of solid table
	Rotary table, vertical.		Diameter of solid table
	Rotary table, (Continuous operation-cored table).		Diameter of solid table
	Reciprocating table.		Length of table travel
	Reciprocating power fed face.		Length of work table
	N.E.C.		Length of table travel

Appendix A to Incl 1 to OD No. 5/4, Hq 8A, 22 August 1946.

<u>TYPE</u> LINE "C"	<u>SUB-TYPE</u> LINE "C"	<u>PRINCIPAL OPERATING SPECIFICATIONS</u> LINE "J"
<u>GRINDING MACHINES (Cont)</u>		
Special Tool and Cutter.	Tap. Keller cutter. Drill. Drill point thinners. Gear cutter. Broach. Face mill cutter. Single point tool. Shear and knife. Drill and tap. Saw. N.E.C.	----- ----- ----- ----- ----- ----- ----- ----- ----- ----- ----- -----
Universal Tool and Cutter.	-----	Maximum diameter of work
Disc, Face and Stand	Disc. Stand and Snagging. Bench. Swing Frame. N.E.C.	Horsepower Horsepower Horsepower Horsepower Horsepower
Miscellaneous. (Do not include abrasive cut-off machines)	Cam. Radius. Spline. Slot. Contour. Plate edge. N.E.C.	----- ----- ----- ----- ----- -----

Appendix A to Incl 1 to OD No. 5/4, Hq 8A, 22 August 1946.

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>LATHES</u>		
Engine (Tool Room).	Standard. Gep.	Swing diameter, center to center distance Swing Diameter
Bench Type and Light Duty. (Less than 1 horsepower)	Standard. Turret. Hand Screw.	----- ----- -----
Turret, Ram Type (Include Hand Screw Machines)	Standard. Special.	Round bar capacity Round bar capacity
Turret, Saddle Type.	Standard. Special.	Round bar capacity Round bar capacity
Automatic Chucking Machines.	Single spindle. Multi spindle.	Maximum Chucking capacity(Swing Diameter) Number of spindles
Automatic between Center Lathes. (Single Spindle, Multi Tool)	-----	Maximum swing diameter, center to center distance.
Automatic Screw Machines.	Single Spindle. Multi spindle.	Bar capacity Number of spindles and Bar capacity
Artillery, Ammunition and Boring Lathes	Shell turning. Boring.(Include gun boring & turni Cartridge case trimming. N.E.C.	Maximum diameter of finished shell Swing diameter Size of shell

N.E.C.

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TYPE	SUB-TYPE	PRINCIPAL OPERATING SPECIFICATIONS
LINE "C"	LINE "C"	LINE "J"
<u>MILLING MACHINES</u>		
Bed Type.	Single spindle, automatic, horizontal. Double spindle, (Duplex) automatic, horizontal. Vertical spindle. N.E.C.	Table travel Table travel Table travel Table travel
Knee Type, Horizontal.	Plain. Universal. Manufacturing. N.E.C.	Table travel Table travel Table travel Table travel
Knee Type, Vertical.	Standard, Size #1,2,3,4 or 5. Manufacturing. N.E.C.	Table travel Table travel Table travel
Universal Head and Ram.	-----	Table travel
Thread (Thread Hobbers).	External. Internal. External and internal. Planetary. Automatic. N.E.C.	Maximum swing diameter Maximum swing diameter Maximum swing diameter Maximum swing diameter Maximum swing diameter Maximum swing diameter
Bench and Hand.	-----	-----
Planer.	-----	Maximum height and width of work which can be machined.
Profilers and Contour. (Two Dimension Duplication)	-----	-----
Duplicate.(Three Dimensions)	-----	-----

<u>TYPE</u> LINE "C"	<u>SUB-TYPE</u> LINE "C"	<u>PRINCIPAL OPERATING SPECIFICATIONS.</u> LINE "J"
<u>MILLING MACHINES (Cont'd)</u>		
Die Sinkers.	Automatic (3 Dimensional). Non-automatic, plain. Non-automatic, universal. Non-automatic, pantograph. Non-automatic, N.E.C.	----- ----- ----- ----- -----
Cam.	----- -----	----- -----
Engraving.	----- -----	----- -----
Miscellaneous.	Spline. Routers. Drum type. N.E.C.	Maximum dimensions of work which can be machined Maximum dimensions of work which can be machined Maximum dimensions of work which can be machined Maximum dimensions of work which can be machined

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<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>PLANERS</u>		
Double Housing (Include convertible)	-----	Maximum height & width which can be machined
Open Side.	-----	Maximum height & width which can be machined
Crank.	-----	Maximum height & width which can be machined
Shaper.	-----	Maximum height & width which can be machined
Plate.	-----	Maximum height & width which can be machined
Miscellaneous.	Pit type. Breast type. N.E.C.	Maximum height & width which can be machined Maximum height & width which can be machined Maximum height & width which can be machined

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<u>TYPE</u>	<u>SUB-TYPES</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>MISCELLANEOUS MACHINE TOOLS</u>		
Shapers and Slotters. (Except Gear Shapers)	Horizontal. Vertical.	Length of stroke Maximum width
Key Seating Machines.	-----	Maximum Width
Honing and Lapping.	Honing, Lapping, Combination, Honing and Boring. Flat Surface. Cylindrical Surface, or Cylindrical Internal.	----- ----- -----
Polishing and Buffing Machines.	Bench. Floor. Speed Lathe. Abrasive Belt. Sheet. Tube. N.E.C.	----- ----- ----- ----- ----- ----- -----
Cut-off and Sawing.	Hack. Rotary. Band. Abrasive. Lathe. Pipe Cutter. N.E.C.	Maximum work size. Maximum work size. Maximum work size. Maximum work size. Maximum work size. Maximum work size. Maximum work size.
Rifle Working Machines.	Reaming, Rifling, Drilling, Chambering.	-----

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<u>TYPE</u>	<u>SUB-TYPES</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>MISCELLANEOUS MACHINE TOOLS (Cont'd)</u>		
Tapping and Threading Machines	Pipe. Bolt, or General Threading. Nut or Shell Tapping. N.E.C.	----- ----- ----- -----
Centering Machines.	Single Spindle. Double Spindle.	Size of bar. Size of bar.
N.E.C.	-----	Maximum dimensions of work.

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METALWORKING MACHINERY

B. SECONDARY METAL FORMING AND CUTTING MACHINES AND EQUIPMENT.

Definition: Non-Portable, power-driven machines designed to shape metal by shear, squeeze, or impact.

<u>TYPE</u>	<u>SUB-TYPES</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>BENDING MACHINES</u>		
Plate. <i>and Sheet Roll Bending</i>	-----	Maximum width and thickness of work stock
Plate and Sheet Roll Levelers. (Straightening)	-----	Maximum width and thickness of work stock
Plate and Sheet Press.	-----	Maximum width and thickness of work stock
Plate and Sheet Forming Rolls.	Beading, Flanging, Grooving, Seaming or combination of 2 or more operations. Automobile or locomotive tire rim forming.	Maximum thickness of work stock
Shape, Bar, Pipe and Tube Bending Machines. (Roll Type and Bending Head Type)	Structural shape, Round bar, Square bar, Pipe and tube.	Maximum dimensions of work stock
Pipe and Tube Flanging and Expanding Rolls.	Flanging or expanding.	Maximum Diameter of work stock
Press Type.	-----	Tons pressure
Bumping Hammers.	-----	-----

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TYPE	SUB-TYPES	PRINCIPAL OPERATING SPECIFICATIONS	
LINE "C"	LINE "C"	LINE "J"	
<u>HYDRAULIC PRESSES</u>			
Vertical -- Forming, Drawing -- General Utility* -- Forging (Self-contained) -- Forging (Steam Hydraulic or Pneumatic)	Straight side (Closed side). Open red. Arch. Open back.	Tons pressure	// // // // // //
Horizontal -- Wheel, Force, Arbor -- Piercing, Drawing -- Other NEC	Knuckle joint.	Tons pressure	// // // // // // // //
<u>MECHANICAL PRESSES</u>			
1 - Point Vertical.			Tons pressure
2 - Point Vertical.			// //
4 - Point Vertical.			// //
End Wheel Vertical.			// //
Horizontal.			// //
Inclinable. <i>傾斜得儿</i> <i>Crank press</i>			// //
Friction Spindle.			// //
NEC <i>eccentric</i>			// //
Other.			// //
<u>MANUAL PRESSES</u>			

* Forcing, assembling, forming, straightening, breaching, and other operations.

<u>TYPE</u>	<u>SUB-TYPES</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>SHEARING AND PUNCHING MACHINES</u>		
Alligator shears	-----	Maximum work stock
Rotary disc shears (circle)	-----	-----
Rotary slitting shears	Single Multiple	-----
Square shears	-----	Length of cut Thickness of work stock
Combination punching and shearing	Single or double end Single or multiple	Maximum width of work
Double housing multiple punch	-----	Tons pressure
Turret punches	-----	-----
Nibbling machines	-----	Thickness of work stock
<u>FORMING MACHINERY</u>		
Hammers	Air, steam (single frame or double frame), board drop, rope drop, power (crank or heive) Impact stamping machines	Kilograms of falling weight
Headers and upsetters	-----	Width of working area
Forging rolls	-----	Maximum diameter of work stock
Swagers	-----	Diameter of roll
		Maximum diameter of tubing

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>WIRE FORMING MACHINES</u>		
Die Forming Press.(For Hair Pins, Cotter Pins and Similar Products)	-----	Maximum diameter of work stock
Stranding, Twisting and Braiding Machines. Cable and Rope. Weaving and Fencing.	-----	-----
Spring Winding Machines.	-----	Maximum Diameter of work stock
Wire Straightening Machines.	-----	Maximum diameter of work stock
N.E.C. (Drawing Mach.)		
<u>MISCELLANEOUS</u>		
Thread Rolling Machines.	-----	-----
Tube Reducing Machines.	-----	-----
Shrinking Machines.(Sheet Metal)	-----	-----
Marking Machines.	-----	-----

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C. OTHER METAL WORKING MACHINES AND EQUIPMENT

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>WELDING MACHINES</u>		
Electric.	Arc.(AC or DC) Resistance.(Flash,Seam or Spot)	KW or amperes
Gas.	-----	-----
Thermit.	-----	-----
<u>TESTING AND MEASURING MACHINES</u>		
Hardness Testing.	Brinell. Rockwell. Scleroscope. Vickers.	----- ----- ----- -----
Pressure Testing.	-----	Capacity
Spring Testing.	Tension. Compression. Combination.	Capacity Capacity Capacity
Strength of Material.	Compression. Fatigue. Impact. Tension. Torsion.	Capacity Capacity Capacity Capacity Capacity
Miscellaneous Physical Property Testing machine.	Ductility. Wear. Abrasion. Vibration. Universal. (Compression, Fatigue, Tension, Torsion)	----- ----- ----- ----- -----

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<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>TESTING AND MEASURING MACHINES (Cont'd)</u>		
Structure and Composition of Metals.	Fluorescent. Magnetic. X-ray.	----- ----- -----
Balancing Machines	Static. Dynamic. Combination.	----- ----- -----
Inspection Testing and Measuring Machines.	Comparators. Gear measuring and testing. Hob, worm and cutter measuring	----- ----- -----
<u>MISCELLANEOUS METAL WORKING EQUIPMENT</u>		
Heat Treating Furnace.	Electric or other. Pot, muffle or other.	----- -----
Electroplating and Anodizing.	-----	-----
Riveting Machines.	Helve hammer. Rotary. Spinning. Squeeze. N.E.C.	----- ----- ----- ----- -----
Metal Heating Furnaces.	Electric. Other.	----- -----
Metal Spraying Equipment.	-----	-----

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<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>PORTABLE METAL WORKING MACHINES</u>		
✓ Portable Grinders.	Pneumatic <u>Electric</u>	----- -----
✓ Portable Drills.	Pneumatic. <u>Electric</u>	----- -----
Portable Hammers, Nibblers, Shears, Riveters, Etc.	Pneumatic. Electric.	----- -----

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II. ELECTRICAL MACHINERY AND APPARATUS

A. ELECTRICAL ROTATING EQUIPMENT

<u>TYPE</u>	<u>SUB-TYPES</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>GENERATORS (See also Generator Sets for direct coupled units)</u>		
Alternating Current.	Engine type (including belt driven) Steam turbine type. Water turbine type.	Voltage; Phase; Cycles; Rated KVA; RPM ----- -----
Direct Current.	Engine type (including belt driven) Steam turbine type. Water turbine type.	Voltage; Phase; Cycles; Rated KVA; RPM ----- -----
<u>MOTORS (5 HP and Over)</u>		
Alternating. <i>272</i>	Induction. Synchronous. <i>1781</i> Single phase. <i>272</i>	⁷⁶ Voltage; ^{272 HP} Phase; Cycles; Rated HP; RPM; Reduction ----- -----
Direct. <i>272</i>	Shunt. <i>1781</i> Series. <i>272</i> Compound. <i>272</i>	Voltage; Rated HP; RPM; Constant or variable speed (specify); Reduction gear ----- -----

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TYPE
 LINE "C"
MOTOR GENERATORS(DIRECT COUPLED).
 Frequency Changers.
 Converters and Inverters.
 Generator Sets.
 (Direct coupled to prime mover)

SUB-TYPES
 LINE "C"
 Use separate inventory sheet for motor and for generator. For sub-types and for specifications see MOTORS and GENERATORS above. Indicate on line "M" that the MOTOR and GENERATOR are "direct coupled". Staple the two inventory sheets together. Use only one inventory code number (line "B"). If not direct coupled report with individual code numbers.
 Same as above for MOTOR GENERATORS.
 Compound.
 Shunt.
 (a) Report Generator data on single sheet (See Generator above for types and specifications).
 (b) Report Prime Mover data on single sheet(See Prime Movers for types and specifications).
 (c) Staple the two inventory sheets together and indicate on both pages (Line "M") that the item is part of a set. (Use only one inventory code number, line "B")

PRINCIPAL OPERATING SPECIFICATIONS
 LINE "J"
 AC voltage;DC voltage;Cycles;Phases;
 KW rating;RPM

B. PRIMARY ELECTRIC POWER TRANSMISSION AND DISTRIBUTION EQUIPMENT.

Transformers.
 Indoor type or outdoor type. }
 Water cooled or self cooled. }
 Switch Gear.
 Indoor type.
 Outdoor type.
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电压
 连接
 相数
 功率
 频率
 电压;Current(Amps);Control(Remote or manual).
 Voltage rating on all taps;
 Connection (Delta or Star);
 Phases;KVA rating;Frequency rating.

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III. GENERAL PURPOSE INDUSTRIAL MACHINERY AND EQUIPMENT.

A. ENGINES AND TURBINES

<u>TYPE</u>	<u>SUB-TYPES</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
LINE "C"	LINE "C"	LINE "J"
<u>STEAM ENGINES (RECIPROCATING)</u>		
Slide Valve) Corliss Valve) Poppet Valve)	(Simple. (Compound. (Multi-expansion.	Rated HP output; Shaft RPM; Rated steam pressure in Kg/Cm ²
iflow.	Single or multi-cylinder.	
<u>STEAM TURBINES</u>		
Mechanical Drive. (Reduction Gear)	Single stage. Multi stage. (Specify no. of stages)	Rated HP output; Shaft RPM; Rated steam pressure in Kg/Cm ² ; Number of bleeds and bleed pressure.
Generator Type.	Condensing. Non-condensing.	Rated HP output; Shaft RPM; Rated steam pressure in Kg/Cm ² ; Number of bleeds and bleed pressure.
Gas.	Reaction or Impulse. Vertical or Horizontal.	Rated HP; RPM; Head of pressure.
<u>INTERNAL COMBUSTION ENGINES</u>		
Diesel) Semi-Diesel) Carburetor) Mixing Valve)	(Liquid or Air-cooled. (Two or four cycle.)-(Rated HP output; Shaft RPM; Number of cylinders

B. COMPRESSORS AND PUMPS

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS.</u>
LINE "C"	LINE "C"	LINE "J"
<u>COMPRESSORS AND DRY VACUUM PUMPS</u>		
Reciprocating.	Single or double-acting	Rated intake pressure in Kg/Cm ² (+)or(-)
Rotary.	Lobe or vane.	Rated delivery pressure in Kg/Cm ²
		Rated delivery volume in m ³ /min.
		Kind of gas compressed.
		Temperature of gas if other than room temperature
<u>PUMPS</u>		
Reciprocating.	Steam or Power driven.	Rated intake pressure in Kg/Cm ² (+)or(-)
Centrifugal.	(Number of stages).	Rated delivery pressure in Kg/Cm ²
Rotary(Cam, screw, gear, vane, other		Rated delivery volume in m ³ /min.
Hydraulic Power.		Kind of liquid pumped.
Diaphragm.	(Note: Do not include Hand Pumps).	Temperature of liquid if other than room temp.

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C. MISCELLANEOUS MACHINERY AND EQUIPMENT

<u>TYPE</u>	<u>SUB-TYPE</u>	<u>PRINCIPAL OPERATING SPECIFICATIONS</u>
<u>POWER BOILERS</u> Water Tube. Fire Tube..	Horizontal return tubular. Locomotive. Fire Box Scotch Vertical Other	Design or working pressure (state which) in Kg/Cm^2 Heating surface in m^2 Fuel. Types of firing (e.g. Hand fired, stoker fired, .., etc.)
<u>CRANES</u> Railroad	Locomotive: Steam, Internal Combustion Engine or Electric. Non-locomotive: Specify power source.	Gauge of track. Rated lifting or carrying capacity in metric tons.
Overhead Trolley. (Except Gantry & Monorail)	Travel: Hand or Electric Powered. Hoist: Hand or Electric Powered.	Width of span. Height of lift. Rated lifting or carrying capacity in metric tons.
Gantry.	Travel: Hand or Electric Powered. Hoist: Hand or Electric Power.	Rated capacity or carrying capacity. Width of span. Height of lift.
Jib. <i>Monorail</i>	Hand power. Electric power.	Rated lifting capacity in metric tons. Length of boom.

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SAMPLE INVENTORY SHEETS

1. Boring Machine
2. Power Boiler
3. Generator and
Steam Turbine

Appendix B to Incl 1 to CD No. 5/4, Hq 8A, 22 August 1946.

SAMPLE

INVENTORY SHEET
(Metal Working Plants)

A. Date of Inventory: 1 AUGUST 1946

B. Code Number: 18 41 148
(Prefecture Plant Machine)

C. Name of Machine: DORING MACHINE - Horizontal
Boring and Milling Machine - Table Type

D. Manufacturer: Sanwa Seiki Kogyo K.K. (97)

E. Country in Which Manufactured: Japan

F. Manufacturer's Model Number: X B-2-4, Serial No. 12345

G. Age of Machine in Years: 3年2ヶ月 製造 1941年 製造 1941 est.

H. Condition of Machine (Check one below):

- GOOD (Requires only Maintenance) Class 1 x
- GOOD (But requires Repairs) Class 2
- UNSERVICEABLE. (Tell why in Par. I, below) Class 3

I. Brief Reasons Why Unserviceable: _____

J. Operating Dimensions (Name each Major Dimension or Capacity and Name Unit of Measure which each is expressed in):

- (1) 75 M/M Boring Bar
- (2) _____
- (3) _____
- (4) _____

K. Power Source: ...Individual.Motor.Drive.....

- (a) Motor Driven 5 HP (b) Belt Driven Cone
AC 250 DC HP Pulley

L. Weight: 800 Kgs. Length: 1.85 Meters
Width: 0.63 Meters Height: 1.15 Meters

M. Brief Description of Machine Characteristics:

Motor is missing from this machine

SAMPLE

INVENTORY SHEET
(Metal Working Plants)

- A. Date of Inventory: 1 August
- B. Code Number: 19 6 164
(Prefecture Plant Machine)
- C. Name of Machine: STEAM TURBINE - Generator Type-Non-condensing
- D. Manufacturer: MITSUBISHI
- E. Country in Which Manufactured: Japan
- F. Manufacturer's Model Number: 10-99, SERIAL No. 34567
- G. Age of Machine in Years: MANUFACTURED 1941
- H. Condition of Machine (Check one below):
- | | | |
|----------------|-----------------------------|------------------|
| GOOD | (Requires only Maintenance) | <u>Class 1</u> |
| GOOD | (But requires Repairs) | <u>Class 2</u> |
| UNSERVICEABLE. | (Tell why in Par. I, below) | <u>Class 3 x</u> |
- I. Brief Reasons Why Unserviceable: SECOND STAGE WHEEL REQUIRES
NEW DES
- J. Operating Dimensions (Name each Major Dimension or Capacity and Name Unit of Measure which each is expressed in):
- (1) HP 250; RPM 300; 21.0 KG/CM²; NO BLEEDS;
- (2) _____
- (3) _____
- (4) _____
- K. Power Source:
- | | | | |
|------------------|----|-----------------|--------|
| (a) Motor Driven | HP | (b) Belt Driven | Cone |
| AC DC | HP | | Pulley |
- L. Weight: 750 Kgs. Length: 1.25 Meters
Width: 1.50 Meters Height: 1.50 Meters
- M. Brief Description of Machine Characteristics:
- DIRECT COUPLED TO GENERATOR.

SAMPLE

INVENTORY SHEET
(Metal Working Plants)

- A. Date of Inventory: 1 August 1946
- B. Code Number: 19 6 144
(Prefecture Plant Machine)
- C. Name of Machine: GENERATOR. Alternating current - Steam
Turbine Type
- D. Manufacturer: mitsubishi (ミツビシ)
- E. Country in Which Manufactured: Japan
- F. Manufacturer's Model Number: GA - 47. SERIAL 6789
- G. Age of Machine in Years: Manufactured 1941
- H. Condition of Machine (Check one below):

GOOD	(Requires only Maintenance)	<u>Class 1</u>
GOOD	(But requires Repairs)	<u>Class 2</u>
UNSERVICEABLE.	(Tell why in Par. I, below)	<u>Class 3 x</u>
- I. Brief Reasons Why Unserviceable: REQUIRES COMPLETE REWINDING OF
FIELD COILS
- J. Operating Dimensions (Name each Major Dimension or Capacity and Name Unit of Measure which each is expressed in):
 - (1) Voltage 200; phase 3; cycles 50; rated KVA 150;
 - (2) rpm 3000
 - (3) _____
 - (4) _____
- K. Power Source:

(a) Motor Driven	IP	(b) Belt Driven	Cone
AC DC	IP		Pulley
- L. Weight: 1000 Kgs. Length: 2.00 Meters
Width: 1.50 Meters Height: 1.50 Meters
- M. Brief Description of Machine Characteristics:
DIRECT COUPLED TO STEAM TURBINE

PAGE 1. of 2

SALPIE

INVENTORY SHEET
(Metal Working Plants)

- A. Date of Inventory: 1 August 1946
- B. Code Number: 10 6 145
(Prefecture Plant Machine)
- C. Name of Machine: POWER BOILER - Fire Tube - Horizontal
return tubing.
- D. Manufacturer: BALCOCK AND WILCOCKS
- E. Country in which Manufactured: Japan
- F. Manufacturer's Model Number: ^{Model} AEC 12 - Serial No. 12345
- G. Age of Machine in Years: Manufactured 1937.
- H. Condition of Machine (Check one below):
- | | | |
|----------------|-----------------------------|------------------|
| GOOD | (Requires only Maintenance) | <u>Class 1</u> |
| GOOD | (But requires Repairs) | <u>Class 2</u> |
| UNSERVICIABLE. | (Tell why in Part 1, below) | <u>Class 3 x</u> |
- I. Brief Reasons Why Unserviceable: All tubes badly deteriorated
complete replacement required.
- J. Operating Dimensions (Name each Major Dimension or Capacity and Name Unit of Measure which each is expressed in):
- (1) Working pressure 20.0 KG/CM²; Heating
 - (2) surface 1000 M². Crushed coal;
 - (3) Automatic stoker
 - (4) _____
- K. Power Source:
- | | | | |
|------------------|----|-----------------|--------|
| (a) Motor Driven | HP | (b) Belt Driven | Cone |
| AC DC | HP | | Pulley |
- L. Weight: 0 Kgs. Length: 10.0 Meters
Width: 2.0 Meters Height: 4.0 Meters
- M. Brief Description of Machine Characteristics:

Appendix B to Insl 1 to OD No. 5/4, Hq 8A, 22 August 1946.

Directives

1-11

HEADQUARTERS
TOKAI-HOKURIKU MIL GOVT REGION
APO 710 (Nagoya, Honshu)

LAM/hrb

4 September 1946

SUBJECT: Reparations Inventory Instructions

TO : CO, Aichi Mil Govt Team, APO 710
CO, Gifu Mil Govt Team, APO 25
CO, Ishikawa Mil Govt Team, APO 713
CO, Mie Mil Govt Team, APO 710
CO, Shizuoka Mil Govt Team, APO 710
CO, Toyama Mil Govt Team, APO 713

1. Your attention is invited to Operational Directive Number 5/4, Headquarters, 8th Army, dated 22 August 1946. All future inventory work will comply with this directive, although it is not necessary to review and amend inventories already completed. However, it is expected that some inventory sheets previously submitted will be returned to your Headquarters by GHQ SCAP for correction in accordance with this directive.

2. Only that type of machinery and equipment listed in inclosure 1 to reference directive will be inventoried, except in the case of plant laboratories which will also include the type of equipment listed in inclosure 1 to SCAPIN 1146, dated 21 August 1946.

3. It is desired that prefectural governments be informed that even though certain machinery in reparations plants is not inventoried, and it is probable that it will not be taken under the reparations program, nevertheless, the entire plant and all machinery in it is still under the custody and control of your Headquarters. As such, it may not be moved or used without the permission of Military Government. For your information, however, it is expected that a procedure for the release of such machinery will be established within the near future.

BY ORDER OF COLONEL BURNELL:

*Lee A. McDonald*LEE A. McDONALD
Captain, AUS
Adjutant

AICHI MGTM

775013

50th TECHNICAL INTELLIGENCE CO

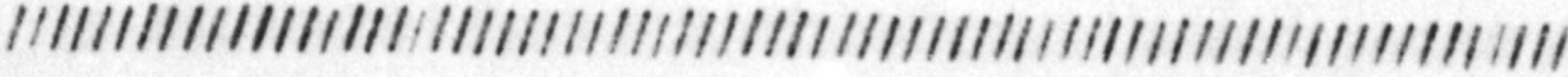
B-1 1-40

FIRST TOKYO ARSENAL

Equipment tagged and inventoried at:

SUMITOMO KINZOKU K. K. (Narumi Kojo)
 3 ENIJI-YAMA, NARUMI-CHO, AICHI-KEN.
 PLANT NO. 01 - 14

ITEM	DESCRIPTION	QUANTITY
U-1	Chemical balance	10
U-2	Pressure gauge tester	1
U-3	Microscope	1
U-4	Ballistic galvanometer	2
U-5	Block gauges	2 sets
U-6	Inside micrometers	30
U-7	Comparator	1
		Total 47



775013

5250th TECHNICAL INTELLIGENCE CO.

3-1 1-41

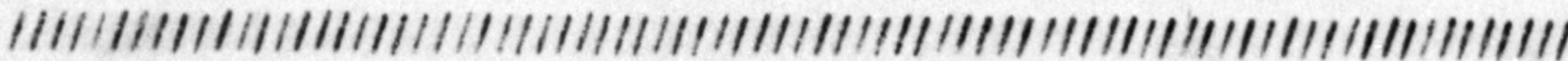
FIRST TOKYO ARSENAL

Equipment tagged and inventoried at:

NIPPPI SANGYO K. K. (Dai San-Ban)
 AICHI-KEN, NUKADA-GUN, KODA-MURA
 PLANT NO. 01 - 73

ITEM	DESCRIPTION	QUANTITY
U-1	Microscope-complete set	1
U-2	Microscopic Thread Gauge	1
U-3	Photomicrography set	4 boxes
U-4	Total Microscope	2
U-5	Scientific levels	4
U-6	Block gauges	8
U-7	Micrometer - outside	654
U-8	Micrometer - inside	62
U-9	Micrometer - inside	184
U-10	Thread Micrometer	104
U-11	Depth Micrometer	83
U-12	Cylinder Gauges	78

Total 1185 items



1-42
B-1

MACHINE TOOL INDUSTRY

These plants were taken into custody and inventoried in accordance with War Department radio from the Joint Chiefs of Staff to Supreme Commander for the Allied Powers, dated 28 May 1946.

For the purposes of this catalog a machine tool plant is defined as "a plant primarily engaged in the manufacturing of non-portable, power driven machines designed to shape metal by progressive cutting away of stock in the form of chips or shavings or by abrasive action". This definition was used to determine what plants were to be classified as a part of the machine tool industry.

This catalog presents significant data on the machine tool plants that have been made available for interim reparations claims. Data presented for individual plants are designed to supply engineers of the several claimant nations with general information which will serve as a guide in the preliminary selection of plants considered as suitable for reparation claims. Conversely it will serve as a basis for the elimination of plants that are of no interest.

It is believed that this catalog will effect economies in the expenses of the several claimant nations by reducing both the number of plants to be visited and the number of engineers required for the examination of plants of probable interest.

The information presented combines statistical data supplied by the Japanese Government and engineering data collected by officers assigned to General Headquarters, Supreme Commander for the Allied Powers. Every reasonable precaution has been taken to assure substantial accuracy.

Inventories for additional plants will be published in a subsequent catalog.

The inventories are arranged by size as measured by the number of machine tools, beginning with the largest.

DEFINITIONS OF TERMS AND ABBREVIATIONS

Abbreviations - The following abbreviations are used in this catalog:

Kg.	-	Kilogram	HP.	-	Horsepower
M.T.	-	Metric Ton	KWH.	-	Kilowatt Hour
Kg/d.	-	Kilogram per day	KVA.	-	Kilovolt Ampere
KL.	-	Kiloliter			

Plant - For the purpose of this catalog a plant is an establishment operating as a unit under one management and confined to one geographical location. It may utilize several buildings which need not be physically connected or located in a single enclosure.

Peak Month Data - When possible, the class, type and subtype are shown in terms of the U.S. Standard Commodity Classification, Volume I, Technical Paper No. 26, U.S. Government Printing Office, Washington: 1943. Principal operating dimensions are shown when available.

Production - The products shown are end items or components produced as such and utilized elsewhere.

Units - The units shown are the number of end items or components produced during the peak month of production. Components shown in this section do not include components produced for use in this plant.

Input - Section I - B includes materials and purchased components entering into the end item which are considered significant in evaluating the overall potentialities of the plant.

Iron - The iron shown under Section I-B-1-a includes purchased castings and pig iron ingots.

Steel - The steel shown under Section I-B-1-a includes steel, finished parts and forgings.

Labor - The number of workers shown under Section I-B-4-a includes maintenance workers, as well as those engaged in actual production, but excludes officials, technical personnel, and office workers. The number shown is the average of such workers employed during the month of peak production. The man-hours shown represent the total number of man-hours for the workers shown.

Subcontracting - The percent shown in Section I-C-1 represents the percent of the total output for the peak month of production which was subcontracted, the work being done outside of the plant.

DEFINITIONS OF TERMS AND ABBREVIATIONS (Cont'd)

Damage - Damage suffered subsequent to the peak month of production as shown in Section II includes all types of damages to buildings and equipment as a result of war, natural catastrophes, and causes over which the owner had no control. The percent of damage suffered is measured in terms of the effect it would have had on the production if applied to the amount shown under Section I for the peak month.

Restored - This term is used to indicate all restoration of damages, as well as improvements, that may have been made which would offset the damage suffered by the plant, in terms of effect on production when applied to that shown under Section I for the peak month.

Serviceable Equipment - The equipment shown under Section III includes both usable equipment and that which can be economically repaired. The proportion of each of these categories of equipment in the amount shown is unknown.

Cranes - The capacity shown for cranes under Section III-3-b represents the sum total of the rated horsepower of all motors installed on all units.

Unserviceable Equipment - For the purposes of this catalog unserviceable equipment has been defined as unusable equipment which cannot be economically repaired. Such equipment has not been included in this catalog.