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DEPARTMENT OF JUSTICE
WAR DIVISION
ECONOMIC WARFARE SECTION

REPORT ON
PURCHASES OF AMERICAN MACHINE TOOLS BY
TOKIO JIDOSHA KOGYO K.K.

November 3, 1943

Submitted by: Harvey B. Storch
Department of Commerce
Bureau of Foreign and Domestic Commerce
New York, N. Y.

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Economic Warfare Section
War Division
Department of Justice
Washington, D. C.

Confidential Report

November 3, 1943

Re: Purchases of American Machine
Tools by Tokio Jidosha Kogyo K.K.

Submitted by: Harvey B. Storch

Department of Commerce
Bureau of Foreign and Domestic
Commerce

New York, N. Y.

Tokio Jidosha Kogyo K. K. is the third largest automotive concern in Japan and specializes in the manufacture of military vehicles. Before the war it was engaged in the manufacturing of automobiles, buses, auto parts, and Diesel engines. The principal customers were the Department of War, Department of Navy, and other government departments. (1)

Tokio Jidosha Kogyo K. K. was formed in 1937 as a result of a merger between Jidosha Kogyo K. K. and the automotive section of Tokio Gasu Denki K. K. In 1939 Tokio Jidosha combined with Kokusan Jidosha K. K. of Korea and in 1941 went through a final re-organization and emerged as Diesel Jidosha Kogyo K. K. (2)

"The name of the company was changed to Diesel Jidosha Kogyo as a result of conferences between the automotive producers and the military in January, 1941 when the company was selected as a national policy company and appointed the sole manufacturer of Diesel vehicles. Mitsubishi, Kawasaki Sharyo, and Ikegai Jidosha agreed to furnish technical assistance and Hitachi agreed to supply fuel pumps." (3)

Although the company is known to have been manufacturing Diesel engines before and during the war, there is no mention of this fact in the files. The blueprints in the files are of small dimension parts and are probably for automotive products. However, they might be for small Diesel engines.

The factories are located at the following sites: (4)

- 1) Tokio, SHINOGAURA KU, OISAKASHITE CHO 2691 (called the Omori factory).
- 2) Tokio prefecture, KINAMITAMA GUN, HINOMACHI (called the Hino factory).
- 3) Yokohama, TSURUMI KU, SUEHIRE CHO 2 chome 4 (called the Tsurumi factory).
- 4) Kawasaki, SHIMODEN CHO, (?) 5941 (called Kawasaki factory).
- 5) JINSEN, KOREA
- 6) FUHEI, KOREA

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During the period from January 1, 1937 until late in 1941, Tokio Jidosha Kogyo K. K., purchased large quantities of machine tools from the United States. Most of these transactions were handled by the four major Japanese trading companies which had offices in this country: Mitsubishi Shoji Kaisha (MSK), Mitsui and Company, Ltd., Ataka and Company, Ltd., and Okura and Company, Ltd. The files of these concerns are now kept by the Alien Property Custodian in a warehouse at 27 Cliff Street, New York, N.Y. This report is one of a series being made after an examination of these files.

The tabulations cover purchases of machine tools made from January, 1937 to 1941. The purchases amounted to:

Mitsui	\$ 1,288,450.00
Mitsubishi	194,850.00
Ataka	65,475.00
Okura	27,250.00
Imperial Export Co.	60,900.00
Total	<u>\$1,636,925.00</u>

Whenever possible, the name of the plant for which the machine tool was purchased is given. The tabulations include machine tools purchased for Jidōsha Kogyo K. K., but do not include orders for Diesel Jidōsha Kogyo. The latter company was formed in 1941 but the orders and inquiries only include those made in the period of 1937 to the latter part of 1941.

Sources

- (1) "Industries of Japan" Volume IV, Mechanics
- (2) ""A Directory of Certain Japanese Industrial Companies"
John Williams, O.E.W., August, 1943.
- (3) Ibid.
- (4) Ibid.
- (5) Ibid.

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RACAPITULATION OF ORDERS FOR MACHINE TOOLS PURCHASED BY
TOKIO JIDOSHA KOGYO K. K.

The following tables indicate the number and type of machine tools purchased by Tokio Jidosha in the period from 1937 to 1941. Machine tools purchased by Jidosha Kogyo, the company which combined with Tokio Gasu Denki to form Tokio Jidosha are also included. No adjustment has been made for cancellations.

LATHES, SCREW MACHINES, and CHUCKING MACHINES

Bullard	1 8" multimatic lathes
Bullard	9 24" vertical turret lathes
Bullard	10 36" vertical turret lathes
Bullard	1 Vertical turret lathe
Warner and Swasey	2 #1A turret lathes
Warner and Swasey	31 #2A turret lathes
Warner and Swasey	4 #3A turret lathes
Warner and Swasey	5 #4A turret lathes
Warner and Swasey	20 #5A turret lathes
American	2 12" x 30" toolroom lathes
Seneca Falls	2 5" x 24" lathes
Wicker Bros.	2 Crankshaft lathes
Lodge and Shipley	2 16" x 30" lathes
Lodge and Shipley	3 14" x 6' lathes
Lodge and Shipley	3 12" x 6' lathes
Gisholt	1 #4 turret lathe
Gisholt	2 #5 turret lathes
Gisholt	3 Turret lathes
LeBlond	2 9" x 10" lathes
Petter and Johnston	4 Model 5-D automatic chucking machines
Cone	3 1½" 4-spindle conomatics
Cone	1 1¾" 4-spindle conomatics

TOTAL: 113

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MILLING MACHINES

Kearney and Trecker
Brown and Sharpe
Hall Planetary
Sundstrand

- 1 #1386 Simplex milling machine
- 1 #1230 Duplex milling machine
- 1 #2209 milling machine
- 9 #2H vertical milling machines
- 9 #3H vertical milling machines
- 9 #4H vertical milling machines
- 4 Milling machines
- 3 Mill grinders
- 2 #2 Universal milling machines
- 1 Milling machine
- 9 #3A Rigidmils

TOTAL: 49

GRINDERS

Norton
Norton
Norton
Norton
Norton
Norton
Norton
Norton
Wm. Sellers
Wm. Sellers
Wm. Sellers
Blanchard

- 6 10" x 36" plain grinders
- 1 10" x 46" plain grinders
- 1 10" x 48" plain grinders
- 3 10" x 72" plain grinders
- 2 14" x 36" plain grinders
- 1 24" x 96" crankpin grinder
- 1 #2 Universal and tool cutter grinder
- 4 Grinders
- 1 Crankshaft lapping machine
- 1 #2A tool grinder
- 2 #20W tool grinders
- 2 Tool grinders
- 1 #11 vertical surface grinder
- 1 Centerless grinder

TOTAL: 27

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BORING, DRILLING AND HONING MACHINES

Excello	6 #218 Senior double end boring machines
Excello	1 #61 Single end boring machine
Excello	1 #1212 boring machine
Leland Gifford	2 #2 drilling machines
Leland Gifford	1 Drilling machine
American Tool Works	3 Radial drills
Foote Burt	6 Single spindle drills
Barnes	3 #201½ drilling machines
Barnes	4 #242 drilling machines
Barnes	2 #3 drilling machines
Barnes	12 Drilling machines
Barnes	2 #120 drilling machines
Barnes	1 #306 honing machines
Lucas	1 #41 boring, drilling and milling machine

TOTAL: 45

GEAR HOBBERS and GEAR CUTTERS

Gould and Eberhardt	3 #16H gear hobbing machines
Gould and Eberhardt	3 #30H gear hobbing machines
Gould and Eberhardt	4 #36H gear hobbing machines
Gould and Eberhardt	1 Gear hobbing machine
Gould and Eberhardt	1 Gear cutting machine
Cleveland	1 Hobbing machine
Gear Grinding Co.	1 Worm gear grinding machine
Pratt and Whitney	1 10" hydraulic gear grinder
Michigan	1 Gear finishing rack
Michigan	1 #991 gear lapper
Michigan	1 Involute checker
Cross Gear	2 #35 gear tooth rounders
Cross Gear	1 #36 gear tooth rounder
Gleason	1 8" straight bevel gear generator
Gleason	3 12" straight bevel gear generators
Gleason	2 Hypoid generators

TOTAL: 27

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RECORDED IN CONFIDENTIAL FILE
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1. **LaPointe** **Machine Tools**
LaPointe **Machine Tools**
LaPointe **Machine Tools**
2. **LaPointe** **Machine Tools**
3. **LaPointe** **Machine Tools**
4. **LaPointe** **Machine Tools**
5. **LaPointe** **Machine Tools**

BROACHES

- 3 #3½L broaching machines
- 1 #4L broaching machine
- 1 #72 broach sharpeners

TOTAL: 5.

1. **LaPointe** **Machine Tools**
2. **LaPointe**
3. **LaPointe**
4. **LaPointe**
5. **LaPointe**
6. **LaPointe**
7. **LaPointe**
8. **LaPointe**
9. **LaPointe**
10. **LaPointe**
11. **LaPointe**
12. **LaPointe**
13. **LaPointe**
14. **LaPointe**
15. **LaPointe**
16. **LaPointe**
17. **LaPointe**

1. 1/2" PORTED OIL TUBE OR 1/2" O.D. NOSEPIPE
2. 1/2" PORTED NOSEPIPE
3. 1/2" PORTED NOSEPIPE
4. 1/2" PORTED NOSEPIPE
5. 1/2" PORTED NOSEPIPE
6. 1/2" PORTED NOSEPIPE
7. 1/2" PORTED NOSEPIPE
8. 1/2" PORTED NOSEPIPE
9. 1/2" PORTED NOSEPIPE
10. 1/2" PORTED NOSEPIPE
11. 1/2" PORTED NOSEPIPE
12. 1/2" PORTED NOSEPIPE
13. 1/2" PORTED NOSEPIPE
14. 1/2" PORTED NOSEPIPE
15. 1/2" PORTED NOSEPIPE
16. 1/2" PORTED NOSEPIPE
17. 1/2" PORTED NOSEPIPE

1. **LaPointe** **Machine Tools**
2. **LaPointe** **Machine Tools**

3. **LaPointe** **Machine Tools**
4. **LaPointe** **Machine Tools**
5. **LaPointe** **Machine Tools**

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FOOTNOTES

- 1) Machine tool purchased for Omori works.
- 2) Machine tool purchased for Tsurumi works.
- 3) Machine tool purchased for Kawasaki works.
- 4) Machine tool purchased for Hino works.
- 4a) Machine tool purchased for Konomo works. This tool is probably for the Konomo works of Tyoda Jidosha.
- 5) Order folder contains a blue print of the worm shaft to be machined on a Seneca Falls lathe.
- 6) Order folder contains blue prints of nuts and bolts to be machined on Conomatic screw machine.
- 7) Order folder contains blue prints of piston to be bored on an Excello boring machine.
- 8) Indicates Tokio Jidosha is connected with Kokusan Jidosha.
- 9) Folder contains blue print of a piston to be bored on Excello boring machine.
- 10) Folder contains blue print of a shaft to be machined on an Excello thread grinder.
- 11) Excello precision boring machine to be used for rough finishing and boring of pistons.
- 12) Folder contains Japanese blue prints of various parts of an automobile to be machined on a hobbing machine.
- 13) Folder contains blue prints of worms, wheels and worm shaft.

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(b) (5) (D) (E) (F) (G) (H) (I) (J) (K) (L) (M) (N) (O) (P) (Q)

- 14) Folder contains blue prints of hobs.
- 15) Machine to be used for milling the bores of the differential carrier. Many prints of the differential carrier and parts are in the folder.
- 16) Folder contains sketches and specifications of worms to be machined.
- 17) Folder contains prints of parts to be broached.
- 18) Folder contains note: "By our telegrams of April 7th and May 24th we advised you that the customer is Tokio Gas Denki." However, the order originated with Tokio Jidosha.
- 19) Order folder contains Japanese blue prints of various parts.
- 20) Folder contains blue prints of pistons before and after being machined on a Seneca Falls automatic lathe.
- 21) Folder contains many blue prints of the rear axle case. The drill is to be used for drilling holes in the gear case.
- 22) Honing machine to be used for finishing engine cylinder bores, 90 mm. inside diameter x 200 mm. long.

TOKIO JIDOSHA

MITSUI ORDERS

Order No.	Date	Manufacturer	No.	Product	Price
3207 (Note 1)	9/7/38	Bullard	2	36"vertical turret lathes	17,600.00
3207 (Note 2)	9/7/38	Bullard	1	36"vertical turret lathe	8,800.00
3207 (Note 3)	9/7/38	Bullard	1	36"vertical turret lathe	8,800.00
3052	3/31/38	Bullard	2	36"vertical turret lathes	16,650.00
3074 (Note 2)	4/9/38	Bullard	4	24"turret lathes	25,222.50
3119 (Note 3)	6/8/38	Bullard	1	8"multi-matic lathe	27,439.25
3212 (Note 2)	9/6/38	Bullard	4	24"turret lathes	26,397.80
3544 (Note 1)	1/11/39	Bullard	1	24"turret lathe	6,634.70
3873 (Note 2)	8/21/39	Bullard	1	Vertical tur- ret lathe	12,153.00
3543 (Note 1)	1/11/39	Bullard	4	36"vertical turret lathes	36,540.60
3027	3/10/38	Warner & Swasey	2	#5 turret lathes	7,728.40
3028	3/10/38	Warner & Swasey	2	#5 turret lathes	5,755.20
3029	3/10/38	Warner & Swasey	2	#5 turret lathes	8,014.40
3150 (Note 3)	8/5/38	Warner & Swasey	1	#5 turret lathe	5,568.20
3151 (Note 3)	9/27/38	Warner & Swasey	9	#5 turret lathes	32,783.75

Order No.	Date	Manufacturer	No.	Product	Price
3152(Note 1)	7/27/38	Warner & Swasey	4	#5 turret lathes	12,898.50
3153(Note 1)	8/3/38	Warner & Swasey	4	#3 turret lathes	9,873.60
3157(Note 3)		Warner & Swasey		Miscellaneous die heads	
3206	9/10/38	Warner & Swasey	2	#5 turret lathes	7,184.40
3210(Note 3)	9/5/38	Warner & Swasey	1	#4 turret lathe	2,597.60
3314(Note 3)	10/5/38	Warner & Swasey	15	#2A turret lathes	80,122.50
3314 Add (Note 1)	10/5/38	Warner & Swasey	4	#2A turret lathes	23,264.00
3314 Add (Note 2)	10/5/38	Warner & Swasey	3	#2A turret lathes	16,500.00
3659	3/17/39	Warner & Swasey	6	#2A turret lathes	37,649.80
3660	3/17/39	Warner & Swasey	3	#4 turret lathes	11,390.10
3660	2/23/39	Warner & Swasey	4	#4 turret lathes	14,391.20
3661(Note 2)	5/20/39	Warner & Swasey	2	#1A turret lathes	10,092.00
3822(Note 3)	8/3/38	Warner & Swasey	2	#5 turret lathes	7,000.00
3872(Note 2)	8/24/39	Warner & Swasey	3	#2A turret lathes	20,525.40
3327(Note 3)	2/15/40	American Tool	1	12" x 30" tool-room lathe	3,340.35
3205(Note 3)	11/8/38	Seneca Falls (Note 5)	2	5" x 24" Model U lathes	8,514.20

Order No.	Date	Manufacturer	No.	Product	Price
5378	11/8/38	Cone Automatic	3	1 $\frac{1}{2}$ " 4-spindle conomatics	28,019.55
3165(Note 1)	8/16/38	Cone Automatic	1	1 $\frac{1}{4}$ " 4-spindle conomatic	7,936.21
3072	4/9/38	Kearney & Trecker	1	mill grinder	1,881.00
3145	7/13/38	Kearney & Trecker	1	Milwaukee #1386 Simplex miller	4,994.55
3155(Note 2)	8/1/38	Kearney & Trecker	1	#1250 Milwaukee Duplex miller	4,949.50
3577(Note 1)	10/25/38	Kearney & Trecker	2	#1407 Duplex millers	16,092.00
3655(Note 3)	3/15/39	Kearney & Trecker	4	" 2H vertical milling machines	25,281.20
3656	3/17/39	Kearney & Trecker	1	" 2H vertical milling machine	5,284.55
3657(Note 1)	3/17/39	Kearney & Trecker	5	" 4 vertical milling machines	34,672.50
3658(Note 1)	3/17/39	Kearney & Trecker	5	" 2H vertical milling machines	19,840.50
3662(Note 2)	2/27/39	Kearney & Trecker	2	" 4H vertical milling machines	15,853.70
3759(Note 2)	4/20/39	Kearney & Trecker	1	Milwaukee mill grinder	1,881.00
3805(Note 2)	6/5/39	Kearney & Trecker	1	" 2 milling machine	5,575.25
3843	4/9/38	Kearney & Trecker	1	milling machine	4,126.00
3874(Note 2)	3/23/39	Kearney & Trecker	130	milling cutters	1,022.21
			40	Shell end mills	
3874(Note 2)	8/21/39	Kearney & Trecker	2	Model H vertical milling machines	9,057.60

Order No.	Date	Manufacturer	No.	Product	Price
3875A (Note 2)	8/24/39	Kearney & Trecker	2	Model 2H plain milling machines	6,044.40
3877	8/24/39	Kearney & Trecker	1	1/2H vertical milling machine	5,910.75
3878 (Note 2)	8/24/39	Kearney & Trecker	2	1/4H plain mill- ing machine	11,499.50
3879 (Note 2)	8/24/39	Kearney & Trecker	3	1/8H plain mill- ing machine	16,543.25
3880 (Note 2)	8/24/39	Kearney & Trecker	1	1/8H Universal milling machine	6,587.51
5662 (Note 2)	5/5/39	Goddard & Goddard	60	Milling cutters	1,199.50
5662 Add 5		Goddard & Goddard		Milling cutters	.91.39
5662 Add 2	6/28/39	Fellows Gear Shaper		Gear cutters	1,266.20
3880	9/20/39	Goddard & Goddard		End mills	400.00
3779	9/19/39	Goddard & Goddard		End mills	1,252.70
3778 Add	9/20/39	Goddard & Goddard		End mills	1,300.00
3314-1 Add 2	1/14/39	Goddard & Goddard		Cutters	3,600.00
3874 (Note 3)	12/15/39	Goddard & Goddard	160	spiral end mills	722.95
3658 (Note 1)	5/17/39	Goddard & Goddard	900	End mills	1,782.20
3875 (Note 2)	8/24/39	Goddard & Goddard	17	End and side mills	279.54
3875 Add (Note 2)	9/20/39	Goddard & Goddard	110	End mills	393.12
5655 (Note 3)	4/18/39	Goddard & Goddard	105	Side mill cutters	1,550.00
3148 (Note 2)	7/27/38	Norton	1	10"x46" plain grinder	6,349.55
3204 (Note 1)	9/3/38	Norton	2	10"x36" plain grinders	12,069.70

Order No.	Date	Manufacturer	No.	Product	Price
3030	5/10/38	Norton	2	10"x36" plain grinders	11,781.00
3037 (Note 1)	5/16/38	Norton	1	10"x72" plain grinder	7,027.60
3035	5/31/38	Norton	1	Grinding machine	12,642.50
3656	5/17/39	Goddard & Goddard		Cutters	1,252.00
3203 (Note 1)	9/2/38	Norton	1	10"x72" Type C plain grinding machine	659.60
3380 (Note 1)	10/25/38	Norton	1	24"x96" crankpin grinding machine	17,444.22
3478	12/1/38	Norton	1	10"x72" plain grinding machine	7,733.94
3479 (Note 1)	12/1/39	Norton	1	10"x48" plain grinding machine	7,377.20
3545 (Note 1)	1/11/39	Norton	2	14"x36" grinding machines	9,504.24
3546 (Note 1)	1/11/39	Norton		Equipment for #2 Universal tool and cutter grinder	209.61
3789 (Note 1)	5/26/38	Norton	1	10"x36" plain grinder	4,927.84
3790	12/6/37	Norton	1	#2 Universal tool and cutter grinder	1,499.40
3480 (Note 1)	12/1/38	Norton	1	10"x36" plain grinder	7,068.45
3052 (Note 2)	5/10/38	Excello	1	#218 senior double end boring machine	4,446.00
3077 Add (Note 2)	4/2/38	Excello	3	Additional equipment for boring machines	2,698.43

<u>Order No.</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No. Product</u>	<u>Price</u>
3033 (Note 2)	3/10/38	Excello	1 #218 senior double end boring machine	4,448.00
3078 Add (Note 2)	4/4/38	Excello	1 Additional equipment	2,075.04
3149 (Note 3)	8/8/38	Excello	2 #25A hydraulic power units	1,986.40
3211 (Note 1)	9/8/38	Excello	1 #35. thread grinder	12,261.12
3330 (Note 5)	2/15/40	Excello (Note 7)	1 #218 senior double end	10,545.00
3351 (Note 6)	2/15/40	Excello (Note 8)	1 #61 single end boring machine	19,202.50
3379 (Note 4)	10/25/38	Excello (Note 11)	1 #12L2 boring machine	6,584.26
3482 (Note 2)	12/1/38	Excello	1 #218 double end boring machine	6,712.08
3482 A	3/7/39	Excello	1 #25 hydraulic power unit	1,537.15
3936	11/21/40	Excello	Additional equipment for boring machines	2,045.00
3970 (Note 1)	9/21/39	Excello	1 Tool grinder	1,534.85
3542 (Note 1)	1/11/39	Gould & Eberhardt	4 #36H Universal gear hobbing machines	26,156.00
3876 (Note 2)	3/24/39	Gould & Eberhardt	1 #16H Universal gear hobbing machine	4,845.00
3813	10/11/38	Gould & Eberhardt (Note 13)	5 #30 hobbing machines	32,190.00
3824	10/8/38	Gould & Eberhardt (Note 14)	2 #18H gear hobbing machines	9,690.00

Order No.	Date	Manufacturer	No.	Product	Price
3201(Note 3)	9/19/38	Hall Planetary (Note 15)	1	Milling Machine	10,805.00
3213(Note 3)	9/15/38	Gear Grinding (Note 16)	1	WG-1 worm grinding machine	27,897.10
5483	12/12/38	Cleveland Hobbing (Note 12)	1	Hobbing machine	4,591.53
3992	4/15/41	National Broach	50	Gear cutters	11,050.00
3324(Note 2)	11/4/38	Barber-Colman		Hobs	1,670.00
3971	1/8/41	Barber-Colman	4	Gear hobs	246.91
3805 Add (Note 2)	6/5/39	Barber-Colman		Gear hobs	Cancelled
3542(Note 2)	3/4/39	Barber-Colman		Hobs	1,263.50
3481(Note 1)	12/15/38	Leland-Gifford	1	Drilling Machine	4,788.00
3031	3/10/38	LaPointe	1	#3½L broaching machine	4,221.87
3031 Add.	6/1/38	LaPointe		Additional broaches	1,247.16
3073(Note 2)	4/9/38	LaPointe	1	#72 broach sharpener	2,559.37
3154(Note 1)	8/1/38	LaPointe	1	#4L broaching machine	5,409.37
3163(Note 1)	8/10/38	LaPointe	1	#3½L broaching machine	4,241.87
3164(Note 2)	8/10/38	LaPointe	1	#3½L broaching machine (Note 17)	4,200.00
3973(Note 2)	1/8/41	LaPointe	5	Broaches	610.00
3985(Note 2)	3/4/41	LaPointe		Broaches	15,004.97
3985(Note 1)	5/6/41	LaPointe		Broaches and cutter bars	3,465.65

Order No.	Date	Manufacturer	No.	Product	Price
3993 (Note 2)	4/15/41	LaPointe		Broaches	541.50
5377 Add. (Note 3)	5/4/39	LaPointe		Broaches	2,285.00
3652 (Note 1)	5/15/39	LaPointe		Broaches	9,112.39
5209 (Note 3)	9/5/38	Foote Eurté	6	Single spindle drilling machine	10,746.00
3328 (Note 3)	2/13/40	American Tool	1	3' radial drill	4,040.01
3208 (Note 2)	9/5/38	American Tool	2	3' 11" radial drills	6,572.80
3659 (Note 3)	4/18/39	Morse Twist	100	Drills for conomatics	
3972	1/8/41	Morse Twist	240	Drills for Leland-Gifford drilling machine	549.12
3071 (Note 3)	5/24/38	Hannifin Mfg. Co. (Note 18)		Yoke riveters	3,560.00
3551	1/17/39	Chambersburg Eng. Co. (Note 19)	2	60 GT trimming press	13,865.00
			1	80 GT trimming press	
			1	160 GT trimming press	
3624	2/16/39	Chambersburg Eng.	1	1000 lb. drop hammer	53,665.00
			1	1500 lb. drop hammer	
			1	2500 lb. drop hammer	
			1	3500 lb. drop hammer	

MITSUI INQUIRIES

Inquiry No.	Date	Manufacturer	No.	Product
TE 3282		Barber-Colman		H.S.S. all ground hobs
TE 3818E A (Note 3)	8/20/39	Barber-Colman		Hobs
TE 3706 (Note 2)	6/21/39	Barber-Colman		Hobs
TE 3415	8/20/40	Barnes		Vertical boring machine

Inquiry No.	Date	Manufacturer	No. Product
TE 3288 (Note 4)	6/15/40	Bryant	26" heavy duty hole grinder
TE 3258 (Note 1)	3/7/39	Bullard	24" vertical turret lathe
TE 3059 EA	11/10/39	Bullard	24" vertical turret lathe
TE 3059 EB		Bryant	#16A internal grinder
TE 3059 EC (Note 2)		Excello Warner & Swasey	#34 thread grinder #4 turret lathe
TE 3059 ED		Excello	#28 hydraulic power unit
TE 3059 EE		Norton	10"x48" plain grinding machine
TE 3283 (Note 4)	6/6/40	Bullard	12" multi-a-matic single indexing machine
TE 3282 (Note 4)	6/5/40	Cone	Conomatic machine
TE 3189	3/7/39	Excello	#71 lapping machine
TE 3816 EB (Note 3)	8/9/39	Excello	Ball bearings
TE 3537 (Note 2)	2/22/41	Excello	Ball bearings
TE 3731 (Note 1)	6/29/39	Excello	Norton grinding wheels
TE 3705 (Note 2)	6/20/39	Excello	Ball bearings
TE 3416	8/20/40	Excello	Boring machine
TE 3262 (Note 3)	2/27/39	Michigan Tool	Gear shaving cutters
TE 3816 (Note 3)	8/29/39	Michigan Tool	Ball bearings

Inquiry No.	Date	Manufacturer	No. Product
TE 3136 EA	3/4/40	Norton	12"x36" Type C grinder
TE 3833 EC	11/1/39	Seneca Falls (Note 20)	Automatic lathes
TE 3816 EA (Note 3)	8/29/39	Warner & Swasey	Ball bearings
TE 3136 EC ED EE EF	3/4/40	Excello Norton Kearney & Trecker Kearney & Trecker	#35 precision thread grinder 12"x72" plain grinder #4 milling machine Face mill grinder
TE 3818 EB	8/30/39	Fellows	Gear shaper cutters
TE 3711	6/22/39	Goddard & Goddard	Milling cutters
TE 3710 (Note 2)	6/22/39	Goddard & Goddard	Milling cutters
TE 3253 (Note 2)	6/26/40	Hall Planetary	Milling cutters
TE 3753 (Note 2)	8/18/39	Hall Planetary	Cutters
TE 3259 (Note 1)	3/7/39	Hannifin	Yoke riveters Generator
TE 3275	5/21/40	Kearney & Trecker	3H Universal milling machine
TE 3816ED	11/6/38	Kearney & Trecker	Ball bearings
TE 3256	3/6/39	Kearney & Trecker	2H vertical milling machine
TE 3729	6/28/39	Landis	Chasers
TE 3016 (Note 2)	11/21/38	LaPointe	Broaches
TE 3136 EB	3/4/40	LaPointe	72" broach sharpener
TE 3689	6/15/39	LaPointe	Spline broaches
MF 3616	1/15/40		Gun turning lathes
MF 3616	1/18/38		Stud setters

MITSUBISHI ORDERS

Order No.	Date	Manufacturer	No.	Product	Price
9280	1/4/40	Wicker Bros.	2	34" x 11" crank-shaft lathes	16,320.50
				Extra tool bits	706.51
8508	11/14/38	Lodge & Shipley	2	16" x 30" manufacturing lathes	6,682.50
			3	14" x 6' manufacturing lathes	9,233.55
8917	6/27/39	Lodge & Shipley	3	Turret lathes	10,972.69
			1	#4 Universal turret lathe	4,167.19
8180	3/31/38	Gisholt	2	#3A rigidmills	8,891.00
8079	8/11/39	Gisholt	3	#3A rigidmills	19,830.30
			2	#5A rigidmills	8,925.00
8487	11/3/38	Sundstrand		Spare parts for rigidmills	1,013.62
8177	3/23/38	Sundstrand	2	#35 tooth rounders	5,844.00
9039	9/6/39	Sundstrand		#36 gear tooth rounders	337.50
9039A	12/22/39	Sundstrand		#3 centerless grinder	6,463.11
				Attachments for #3 Cincinnati grinder	Cancelled 837.11
9563	2/9/40	Andrews & George			Cancelled
863-A	3/6/40	Andrews & George	1	Gear finishing rack	1,305.00
8168	3/18/38	Michigan Tool	1	#991 gear lapper	3,757.50
9161	11/4/38	Michigan Tool	1	Involute checker	2,450.00
8041	12/7/37	Michigan Tool			

Order No.	Date	Manufacturer	No. Product	Price
8406	9/19/38	Barnes	2 #120 single and double spindle horizontal boring machine	26,118.11
8179	3/24/38	Barnes	6 Drilling machines	7,295.25
8458	10/27/38	Barnes	3 Drilling machines	4,125.37
8915	6/27/39	Barnes	2 #242 drilling machines	4,218.00
8916	6/27/39	Barnes	3 #201 $\frac{1}{4}$ drilling machines	4,125.37
9025	8/20/39	Barnes (Note 21)	2 #242 drilling machines	4,721.50
9025 A	12/6/39	Barnes	Attachments	5,391.00
9026	8/30/39	Barnes	1 #3 drilling machine	5,272.50
9075	9/26/39	Barnes	2 #2 drilling machines	7,353.00
9296	1/11/40	Barnes	3 Drilling machines	4,431.75
9298	1/11/40	Barnes (Note 22)	1 #306 honing machine	4,377.12 Cancelled
9402	2/29/40	Lucas	1 #41 boring, drilling, 10,455.00 and milling machine	Cancelled
9402 B	3/1/40	Lucas	4 Boring bars	286.00 Cancelled
9298 B	5/9/40	Micromatic Hone	Honing tools	652.25 Cancelled
8197 A	4/7/38	Cleveland Twist	99 Twist drills	1,151.63
8196 A	3/22/38	Westinghouse	3 H.P. motors	123.20
9402 A	2/28/40	Westinghouse	Motor	123.25
9280 A	1/4/40	Westinghouse	Electrical equipment for Wicker lathe	523.00

<u>Order No.</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No. Product</u>	<u>Price</u>
9296 A	5/5/40	Westinghouse	3 Motors for Barnes drills	205.59
9298 A	5/1/40	Westinghouse	2 Motors for Barnes drills	229.46
8508 A	11/14/38	Union	2 #264-L-1 chucks	162.00
3917 A	6/27/39	Union	3 #264-L-1 chucks	243.00
<u>IMPERIAL EXPORT ORDERS</u>				
<u>Order No.</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No. Product</u>	<u>Price</u>
13/533	3/15/38	Potter & Johnston	1 Model 5D automatic chucking machine	6,682.50
13/534	3/15/38	Potter & Johnston	1 Model 5D automatic chucking machine	6,682.50
13/569	5/30/38	Potter & Johnston	2 Model 5D automatic chucking machines	12,966.50
13/569 A	9/21/38	Potter & Johnston	1 Tooling	1,550.00
14/740	7/22/39	Potter & Johnston	1 Tooling	3,063.60
<u>OKURA ORDERS</u>				
<u>Order No.</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No. Product</u>	<u>Price</u>
S-503	2/14/40	Le Blond	2 9" x 10" lathes	4,890.60 Cancelled
12069	11/15/39	Blanchard	1 #11 vertical surface grinder	3,820.00 Cancelled
555	5/11/40	Sellers	2 Tool grinders	3,399.45 Cancelled
555 Rev.1	6/11/40	Sellers	1 20-W tool grinder	1,843.80 Cancelled
555 Rev.2	6/11/40	Sellers	1 20-W tool grinder	1,749.30 Cancelled

Order No.	Date	Manufacturer	No. Product	Price
25220	4/24/39	Sellers	1 #2A tool grinder	
12093	11/16/39	Pratt & Whitney	1 10" hydraulic gear grinder	10,420.00 Cancelled
11569	12/17/37	Klyskens	300 Electric fuel pumps	1,143.45
4643	1/20/38		2 Sets dynamometers 2 Sets generators	

ATAKA ORDERS

Order No.	Date	Manufacturer	No. Product	Price
5580	3/16/38	Brown & Sharpe	1 #2 Universal milling machine	3,631.60
5583	3/18/38	Brown & Sharpe	1 #2 Universal milling machine	4,213.00
5117	3/24/37	Gleason	3 Spiral bevel gear cutters	327.37
5337	9/6/37	Gleason	2 Finishing tools	25.82
5565	3/11/38	Gleason	Cutters and finishing tools	1,248.67
5750	9/17/38	Gleason	1 12" straight bevel gear generator	8,255.52
5751 (Note 3)	9/17/38	Gleason	2 12" straight bevel gear generators	16,674.31
5752 (Note 2)	9/17/38	Gleason	1 8" straight bevel gear generator	6,525.70
5758 (Note 2)	9/17/38	Gleason	Spiral bevel finishing cutters	249.49
5757 (Note 2)	9/17/38	Gleason	Cutters	249.49
5756 (Note 1)	9/17/38	Gleason	Finishing tools	1,254.70

JIDOSHA KOGYO

MITSUI ORDERS

Order No.	Date	Manufacturer	No. Product	Price
3495	12/23/36	American Tool	Lathe	
3658(Note 2)	9/9/37	Barber-Colman	Hobs	168.00
3655		Barber-Colman	Hobs	374.00
3642	6/14/37	Barber-Colman	1 Hob cutter	109.40
3653(Note 2)	3/20/37	Barber-Colman	1 Hob	70.29
3516(Note 2)	2/6/37	Barber-Colman	4 Hobs	259.42
3681(Note 2)	9/9/37	Barber-Colman	1 Hob	91.38
3688(Note 2)	9/9/37	Excello	1 #218 senior boring machine	8,967.33
3528	2/17/37	Leland-Gifford	2 #2 drilling machines	2,176.00
3481	2/18/36	Gould & Eberhardt	1 Gear hobbing machine	
3527(Note 2)	2/17/37	Gould & Eberhardt	1 #36BM gear cutter	4,475.25
3496	12/24/36	Kearney & Trecker	Milling machines	
3662 Tsurumi	9/9/37	Kearney & Trecker	12 Vises	750.00
3510	1/7/37	Kearney & Trecker	1 #2209 milling machine	7,606.05
3526	2/17/37	Kearney & Trecker	1 Mill grinder	1,574.62
3036	3/16/38	Norton	1 Grinder	6,447.25
3480	12/18/36	Norton	1 Grinder	

<u>Order No.</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No. Product</u>	<u>Price</u>
3614	9/9/37	Norton	1 Grinder	8,249.94
3682(Note 2)	5/25/37	Norton	1 Crankshaft lapping machine	4,262.44

MITSUBISHI ORDERS

<u>Order No.</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No. Product</u>	<u>Price</u>
7368	12/30/36	Sundstrand	2 #3A rigidmils	7,641.50
'368A	8/24/37	Sundstrand	2 Arbors	106.25
7355	12/28/36	Lodge & Shipley	2 12" x 6' toolroom lathes	
7355A	3/17/37	Lodge & Shipley	Parts for lathes	
9086	10/6/39	Gisholt	2 #5 turret lathes	9,272.93

MITSUBISHI INQUIRIES

<u>Inquiry No.</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No. Product</u>
NY 554	10/19/36	Avey Drill	Drilling machine
NY 615	11/30/36	Sundstrand	8" automatic stub lathe
NY 690	1/18/37	Barnes	Drilling machines
NY 710	1/30/37	Barnes	Drilling machine
NY 1407	2/10/38	Wickes	Crankshaft lathe

ATAKA ORDERS

<u>Order No.</u>	<u>Date</u>	<u>Manufacturer</u>	<u>No. Product</u>	<u>Price</u>
5961(Note 4A)	2/6/39	Skinner Chuck	100 #51 tapper chucks	999.60