

# Table of Main Facilities

## ■Blanking Factory Main Facilities

Name	Unit	Manufacturer/Model	Description
1,500ft Continuous Blanking Press Line	1	Aida Engineering PL4-150	max sheet length 9mm, width 1,525mm max capacity 1,500tf, 20~50 strokes per minute, feed length 50~1,200
2,200ft Continuous Blanking Press Line	1	Aida Engineering PDA-2200	max sheet length 14mm, width 1,525mm max capacity 2,200tf, 20~50 strokes area 18,000 X 15,650, approx weight 2,500T, number of coils 150
Coil Stockyard	1	Shimizu Corporation	31T with rotating lifter
Overhead Traveling Crane	1	Okura	2.8T with lifting magnet
Scrap Crane	1	Okura	2.8T with lifting magnet
Fully Automated Shot Blasting Machine	1	Nichu AF-1002	100H X 800W, with 2 units of product stacking robot AW-8100

## ■Stamping Factory Main Facilities

Name	Unit	Manufacturer/Model	Description
2,000ft Hydraulic Press	1	Amino SDP20WB	capacity 2,000tf, bolster area 3,000mm X 2,400mm
1000T Press	1	Aida Engineering FMX 1000	capacity 1000tf bolster area 1,400mm X 1,000mm
800ft Hydraulic Press	1	Fukui Machine HSS-800	capacity 800tf, cushion 350ft bolster area 1,400mm X 2,000mm
600ft Mechanical Press	3	Aida Engineering PS-60	capacity 600tf bolster area 1,200mm X 1,400mm
500ft Double Crank Mechanical Press	1	Sato Tekko DCP-500-250-150	capacity 500tf bolster area 2,500mm X 1,500mm
300ft Mechanical Press	1	Aida Engineering S1-300	capacity 300tf, bolster area 1,000 X 985
200ft Mechanical Press	2	Aida Engineering NC(1)-200	capacity 200tf, bolster area 1,390 X 840
150ft Mechanical Press	1	Aida Engineering NC(1)-15	capacity 150tf, bolster area 1,170 X 800
500ft Hydraulic Bender	1	Toyo-Kogyo HYB-50050	capacity 500tf
450ft Hydraulic Bender	1	Toyo-Kogyo	capacity 450ft
200ft 3-Point Bender	1	Maru Kikai	capacity 200tf
300ft Hydraulic Bender	1	Kanzaki Kogyo	capacity 300tf, bolster area 800 X 1,400
300ft Hydraulic Bender	1	Toyo-Kogyo	capacity 300ft
Fully Automated Shearing Machine	1	Kansai Tekko 13 X 3,050 gap shear	with product stacking robot AW-8060
Material Handling Robot	1	FANUC R-2000JA/165F	
Inspection Robot	1	FANUC R-2000JA/165F	
Overhead Traveling Crane	1	Daiya Machine	5T
Overhead Traveling Stacker Crane	1	Okura	6T rotating angle 360°

## ■Machining Factory Main Facilities

Name	Unit	Manufacturer/Model	Description
Machining Center	1	Shin Nippon Koki RBB-2.5VM	table size 2,500 X 8,000 5 face machining, with 2 pallet changer
Machining Center	1	Okuma MCM-25	table size 2,100 X 4,100 5 face machining, with 2 pallet changer
Machining Center	1	Okuma MCVB	table size 2,100 X 4,100 5 face machining
Machining Center	1	Okuma MCBVAE	table size 625 X 1,200 5 face machining, with 2 pallet changer
Machining Center	2	Okuma MCBVAE	table size 625 X 1,200 5 face machining, with 2 pallet changer
Machining Center	1	Toshiba Machine TMD16	table size 1,150ft X 2,000p 24 ATC, with 2 pallet changer
Machining Center	1	Okuma MA-550VB	table size 560 X 1,300 with six surface pallet changer
Machining Center	2	Fuji Seiki FMC-15/20VA	table size 1,500 X 2,000
Horizontal Machining Center	1	Okuma MA-600HB	table size 630 X 630
Double End Milling Cutter	1	Kotobuki Industries	
NC Precision Automatic Lathe	2	Okuma/Nippon Seiki LB25/TF20	swing over bed 480
All-Purpose Milling Machine	1	Niigata Power System 6UMA	Y-axis 1,400, X-axis 720 Z-axis 620, table size 2,500 X 575
Plastic Production Milling	1	Niigata Power System 3BMV	Y-axis 1060, X-axis 450 Z-axis 900, table size 1,600 X 500
NC Milling Cutter	1	Okuma	Y-axis 920, X-axis 435 Z-axis 500, table size 1,300 X 450
Groove Machine	2	Shinx VK3000, VK2000	
NC Radial Drilling Machine	1	Aichi Tokei Denki NR-18	Y-axis rotation 45°, X-axis stroke 1,220 Z-axis stroke 400
Radial Drilling Machine	1	Okuma DRAJ-1600	swing arm 1,600 table size 2,710 X 1,180
Vertical Drilling Machine	3	Furuta Tekko, others	table size 570, etc.
Drill Grinder	3	Fujita works, others	drill dimension 570, etc.
Overhead Traveling Crane	4	Okura	10T 2.8T 5T
Wall Mounted Jib Crane	3	Okura	1T
Deburring Machine	2	Toban	

## ■Structural Welding Factory Main Facilities

Name	Unit	Manufacturer/Model	Description
Arc Welding Industrial Robot	2	Panasonic AW400	rated input 18K VA wire dimension 0.9 1.2
Welding Robot	1	Panasonic AW-01DA	welding length 3,500mm width 10mm
Fully Automated Seven-Axis Arc Welding Robot	1	Panasonic VR008AI, YD500RF	with positioner
Fully Automated Seven-Axis Arc Welding Robot	1	ShinMaywa Industries RJ620, YM500RM	with positioner, carrying capacity 1.0T
Six-Axis Plasma Cutting Robot	1	Panasonic	
Blade Welding Robot	2	Kobelco	
CO2 Arc Welding Machine	20	Mitsubishi Electric	350A~500A
Shielded Metal Arc Welding	7	Daihen	250A~500A
Spot Welding Machine	1	Panasonic	50KVA
Frame Turnover Machine	1	KBK	turnover weight 2,000kg
Positioner	6	Koike Sanso	table length 380p, loading weight 150kg
Positioner	3	Chiba Machine Industry, others	turnover weight 2,000kg rotating angle 360°

Hydraulic Straightening Press	1	KBK	max pressure capacity 500tf, stoke length 300mm, bed area 1,400 X 1,450
Hydraulic Straightening Press	1	KBK	max pressure capacity 200tf, stoke length 200mm, bed area 1,200 X 1,000
Overhead Traveling Crane	6	Okura	2T 2.8T 3T 5T 10T
Stud Welding Machine	1	Nippon Stud	
Bending Roll	1	Kanzaki Kogyo	3 rolls

## ■Die Equipment Technology Center

Name	Unit	Manufacturer/Model	Description
Die Setter	1	Tsukishima Kikai / KBK	capacity 30ft, table size 2,640 X 2,000 die height 1,200, reverse angle 180°
Centre Lathe	2	DAINICHI	admin between center 1,500, swing 350
Radial Drilling Machine	1	Okuma	table size 1,200 X 500, arm swing 1,250
Fully Automated Sliding Machine	1	HELLER	Y-axis 1,000, X-axis 355 Z-axis 100, table size 2,000 X 450
Rotary Polishing Machine	1	Toshiba Machine KRTC-11A	table size 1,080, table height (electromagnet as center) 0-300
Bandsaw Machine	1	Amada V-500	table size 740 X 740 cutting width 500 X 300
Surface Polishing Machine	1	Nicco	table size 500 X 1,200
Upright Drilling Machine	1	Yoshida Tekko	
Saver	1	Yamaguchi Iron Works	

## ■Steel Plate Processing Factory Main Facilities

Name	Unit	Manufacturer/Model	Description
6KW Laser Cutting Machine (With grooving function)	1	Nissan TANAKA LMXVII240-TF6000E	max capacity 6.0KW, 4,200 X 26,250
6KW Laser Cutting Machine	1	Nissan TANAKA LMXIII-TF6000B	max capacity 6.0KW, 3,000 X 57,600
4KW Laser	1	Nissan TANAKA LMXVII30-TF4000E	effective cutting length 2,800 X 25,900
NC Tracer Automated Shape Cutting Machine	1	Nissan TANAKA KT-650	36 gas cutting nozzles, 2,438 X 12,192 max width 6,500, with marking device
NC Tracer Automated Shape Cutting Machine	1	Nissan TANAKA KT-650	26 gas cutting nozzles, 2,438 X 12,192 max width 5,500
NC Tracer Automated Shape Cutting Machine	2	Nissan TANAKA KT-650	36 gas cutting nozzles, 2,438 X 12,192 max width 5,500
Eye Tracer (Robocut System Q mounted type)	1	Nissan TANAKA KT-650 CT-30	18 gas cutting nozzles, 2,438 X 12,192 max width 5,500
Eye Tracer (Robocut System Q mounted type)	4	Nissan TANAKA KT-570 V2	10 gas cutting nozzles, 2,438 X 9,144 max width 2,438
Eye Tracer (Robocut System Q mounted type)	1	Nissan TANAKA KT-570	12 gas cutting nozzles, 2,438 X 6,096 max width 2,438
NC Arm Cutting Machine	1	Nissan TANAKA	max work 500 X 12,192

7-Axis Gas Cutting Robot	3	Panasonic AW7000	
Shot Blasting Machine	2	Kawaguchi	throughput 400kg
Overhead Traveling Crane	6	Okura	15T 10T 10T 7.5T 2.8T
Wall Mounted Jib Crane	5	Ishizawa	1.5T 1T
Hydraulic Straightening Press	2	KBK	max pressure capacity 200tf, stoke length 200mm, bed area 2,060 X 1,000
Deburring Robot	1	FANUC M-16IB/20	

## ■Laser Factory Main Facilities

Name	Unit	Manufacturer/Model	Description
Laser Cutting Machine	1	Nissan TANAKA LMXIII-TF3500D	max capacity 3.5KW, 2,438 X 6,096
Laser Cutting Machine	5	Nissan TANAKA LMR2	max capacity 2.5KW, 2,438 X 6,096
LAN System	1	Nissan TANAKA TALK	
Overhead Traveling Crane	1	Okura	10T
Overhead Traveling Stacker Crane	1	Okura	3T
Overhead Traveling Stacker Crane	4	Okura	1.4T 0.5T
Warehouse Rack	1	Daifuku	53 X 7 X 2

## ■Plasma Factory Main Facilities

Name	Unit	Manufacturer/Model	Description
NC Plasma Cutting Machine	1	Koike Sanso TECHNOGRAPH-	max capacity 400A, 4,890 X 40,950
Overhead Traveling Crane	1	Okura	10T

## ■Powder Painting Factory Main Facilities

Name	Unit	Manufacturer/Model	Description
Powder Painting Line	1	Anesta Iwata FP-1632	11 conveyors for hanging, max 720kg per conveyor
Shot Blasting Machine	1	Nichu AF-1601	max size of pretreated product 2100W X 3175L X 1100H, max weight 2,000kg
Overhead Traveling Crane	2	Okura	2T 2.8T

## ■Steel Plate Forming Factory Main Facilities

Name	Unit	Manufacturer/Model	Description
NC Tracer Automated Shape Cutting Machine	1	Nissan TANAKA KT-650	30 gas cutting nozzles
Eye Tracer (Robocut System Q mounted type)	2	Nissan TANAKA KT-570 V25	10 gas cutting nozzles, 2,438 X 9,144 max width 2,438
Angle Bender	3	Kanzaki Kogyo NK-3 others	capacity L-shape steel outward bending 13 X 100 X min length φ 1,000 flat steel outward bending 25 X 100 min length φ 2,000, others
Edge Arm Forming Roll	1	Shonan Seiki	roll long surface 800, roll length upwards φ 190 downwards φ 150 X 2
Vertical Bending Roll	1	Kanzaki Kogyo TPV-14 X 1550	3 rollers roll, capacity: SS400/113 X 1500w
Horizontal Bending Roll	1	Kanzaki Kogyo TPB-25 X 1100	3 roller roll, capacity: SS400/25 X 1000w
Hydraulic Straightening Press	1	KBK	max pressure capacity 200tf, stoke length 300, bed size 870 X 1,100
Straightening Machine	2	Shinjuku Iron Works	hydraulic mechanical type
Machining Center	1	Fuji Seiki FMC12/17VP	table size 1,300 X 1,400
Milling Machine	1	Kuraki CM-5	
CO2 Welding Machine	4	Panasonic	340A~500A
Shot Blasting Machine	1	Kawaguchi	throughput 400kg

Overhead Traveling Crane	2	Okura With Lifting Magnet	20T 7.5T
Wall Mounted Jib Crane	3	Ishizawa	1.5T
4KW Laser	1	Nissan TANAKA LMXVII45-TF4000E	effective cutting length 4,200 X 25,900
Groove Robot	1	Panasonic AW-01A	
NC Milling Cutter	1	Okuma	Y-axis 710, X-axis 305 X-axis 410, table size 1,350 X 360
500ft Mechanical Press	1	Aida Engineering S1-500	capacity 500tf, bolster area 1,200 X 1,215
4 Rollers Roll Machine	1	ISEL	processing capacity 1 12 X 1,000 length
Ring Forming Machine	1	Amada	table external form 1,270mm
Flash Butt Welder	1	Nichiyo	welding capacity 1 26 X 50 length, 400V AC
Excess Metal Cutting Machi	1	Chiba Machine Industry	exclusive use only
Upright Drilling Machine	2	Yoshida Tekko	table size 570, others
Bandsaw Machine	2	Amada H-650HD HA-250B	
Groove Machine	1	Shinx VK2000	
Overhead Traveling Crane	2	Okura With Lifting Magnet	10T 2.8T

## ■Other Main Facilities

Name	Unit	Manufacturer/Model	Description
Truck Scale	1	Tanaka Scale	10~40,000kg
Bridge Crane	1	Okura	5T
Universal Testing Machine	1	Shimadzu UH-200KNA	
Hardness gauge	4	Matsuzawa Seiki, others DRH-M	rockwell hardness gauge, shore hardness gauge
Sprinkler Head Pressure Resistance and Pneumatic Testing Machine	1	Yamaha Seiki	exclusive use only
Micro Hite 3D	1	Mitutoyo CX-652	
Ultrasonic Testing Machine	1	Tokyo Keiki SM101	
Thickness Measuring Instrument	3	Tokyo Keiki UTM20	
Luminous Composition Analyzer	1	Shimadzu OES-5400	

## ■Ryugasaki Factory Main Facilities

Name	Unit	Manufacturer/Model	Description
NC Tracer Automated Shape Cutting Machine	3	Nissan TANAKA KT-650	25 gas cutting nozzles
Eye Tracer (Robocut System Q mounted type)	1	Nissan TANAKA KT-590	12 gas cutting nozzles
Laser Cutting Machine	1	Nissan TANAKA LMXII-TF3500	max capacity 3.5KW
Groove Robot	2	YASKAWA ELECTRIC VS-SK45-C000 Panasonic YA-IAM011	
Groove Machine	1	Shinx VY2000	
Radial Drilling Machine	1	Shin Nippon Koki RM-16	
Multi Spindle Tapping/Drilling Machine	4	Kojima Seisakusho Brother BT8-331	
Bandsaw Machine	1	Amada H-650HD	
Deburring Machine	1	Tanaka Seisakusho	
Shot Blasting Machine	1	Kawaguchi	
Overhead Traveling Crane	3	Okura With Lifting Magnet	15T 10T 5T