

namco



nothing is impossible



Plate Mill Catalogue

Mild, Alloy and Stainless Steel



At Namco, our business philosophy makes us the best suited for the changing world. Over the last decade, India has lived up to its promise of being a Vibrant, Dynamic, Evolving economy. Steel, as in any part of the world is the backbone of a country's infrastructure. Our 1.2 MTPA plate mill complex is a small attempt to be a part of this growth story. It helps that we aim to be the best in what we do whether it be in Customer Relations, Employee Satisfaction, Corporate Governance or Quality Products.

About Ourselves

Namco Industries Private Limited (NIPL) is part of the NAMCO GROUP. After consolidating our position as a leading trader of Steel in India, we have expanded our business to several other spheres.

NAMCO is set to vault itself even higher on the domestic and global stage through diversified investment strategies, gaining a foothold in high growth markets and continuously pursuing opportunities in its core areas.

Steel Production

NIPL is operating a state of the art 1.2 million ton capacity steel plant at Khopoli, Maharashtra. Equipped with modern machinery, the plant boasts of world-class production facilities and is regularly supplying steel products adhering to domestic and international specifications.

NAMCO CORP LTD.

Headquartered in Indore India, the company has offices all over the country and has established strong sourcing partnerships from five continents. We trade in both flat and long steel products and carry a stock of all products at all times. The company specializes in the retail segment of the

industry, which help it add value to its sales by targeting direct customers and equipment manufacturers.

NAMCO COMMODITIES

Namco Commodities is the groups generic trading division. Primarily focusing on coal, the division aims to also trade in all basic commodities. Incorporated in 2011, the division is rapidly growing and already accounts for 5-7% of the groups turnover.

NAMCO SERVICE CENTERS

The Namco Group has many specialized steel service centers around India. The basic aim of these service centers are to be run as independent profit centers who add value to our trading products(steel). From offering basic facilities such as cut to length, side shearing, corrugation, pickling and straightening the service centers are capable of processing up to 500,000 tons of cargo every year. At present the group operates service centers in Indore - Madhya Pradesh, Talaja - Maharashtra, Kandla- Gujarat and the NCR region.





Namco Plate Mill Complex

Plate Mill

In continuation of its philosophy of bringing in the best and latest technologies and products for the benefit of the industry and nation, NIPL has commissioned India's first port based Plate Mill which can produce plates of upto 2.5 meter width.

Namco's Plate Mill (capacity 1.2 MTPA) commenced commercial production in May 2012. Namco Plates have generated a strong level of interest and demand from major consuming segments of the domestic industry and export markets.

Namcos Plate Mill is capable of producing plates in thickness of 6 to 150mm & widths of 850 to 2500mm in various steel grades as per Indian and International Standards such as EN, DIN, BS, ASTM, JIS, etc.

Production and Supply of plates in general engineering grades, structural grades, hi-tensile and Micro-alloyed grades, pressure vessel & boiler quality grades and line pipe grades is already underway.

Namco is continuously putting in efforts towards development of wide ranging applications for its products and improving product quality while maintaining the highest possible service to its valued customers.

Manufacturing facilities & Production Process

Namco's Hot Rolled Plates are produced
in a state of the art Mill where quality
is strictly controlled
to meet customer requirements

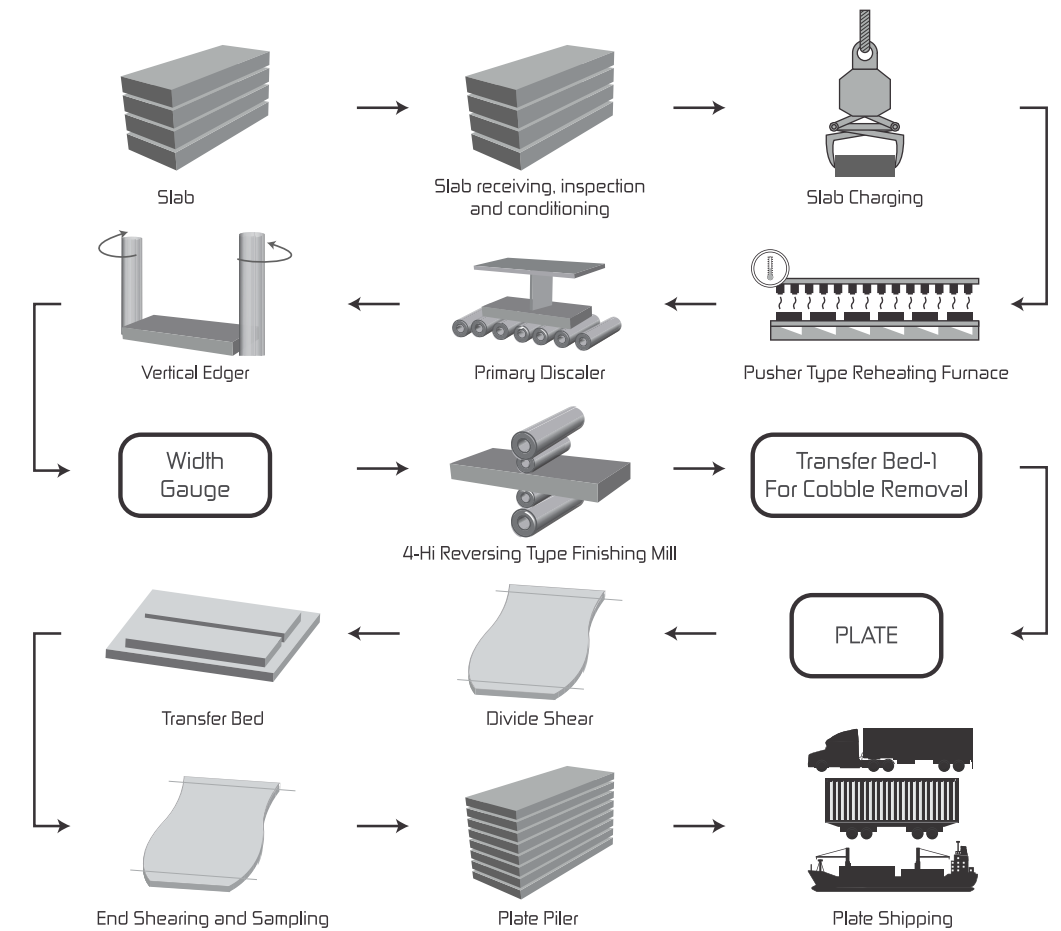


Namco Plate Mill Complex

Namco's plate mill is equipped with a pusher type re-heating furnace. Slabs are re-heated to a temperature of 1400 degrees celsius in this furnace and rolled in a 4-hi reversing type mill. High pressure descalers are provided at the entry and exit side of both strands to ensure excellent surface quality. The mill is equipped with an auto level 2 width and thickness controlling system. Fully equipped inspection facilities are available from slab charging slate to plate production and finishing stage.

Salient features of mill

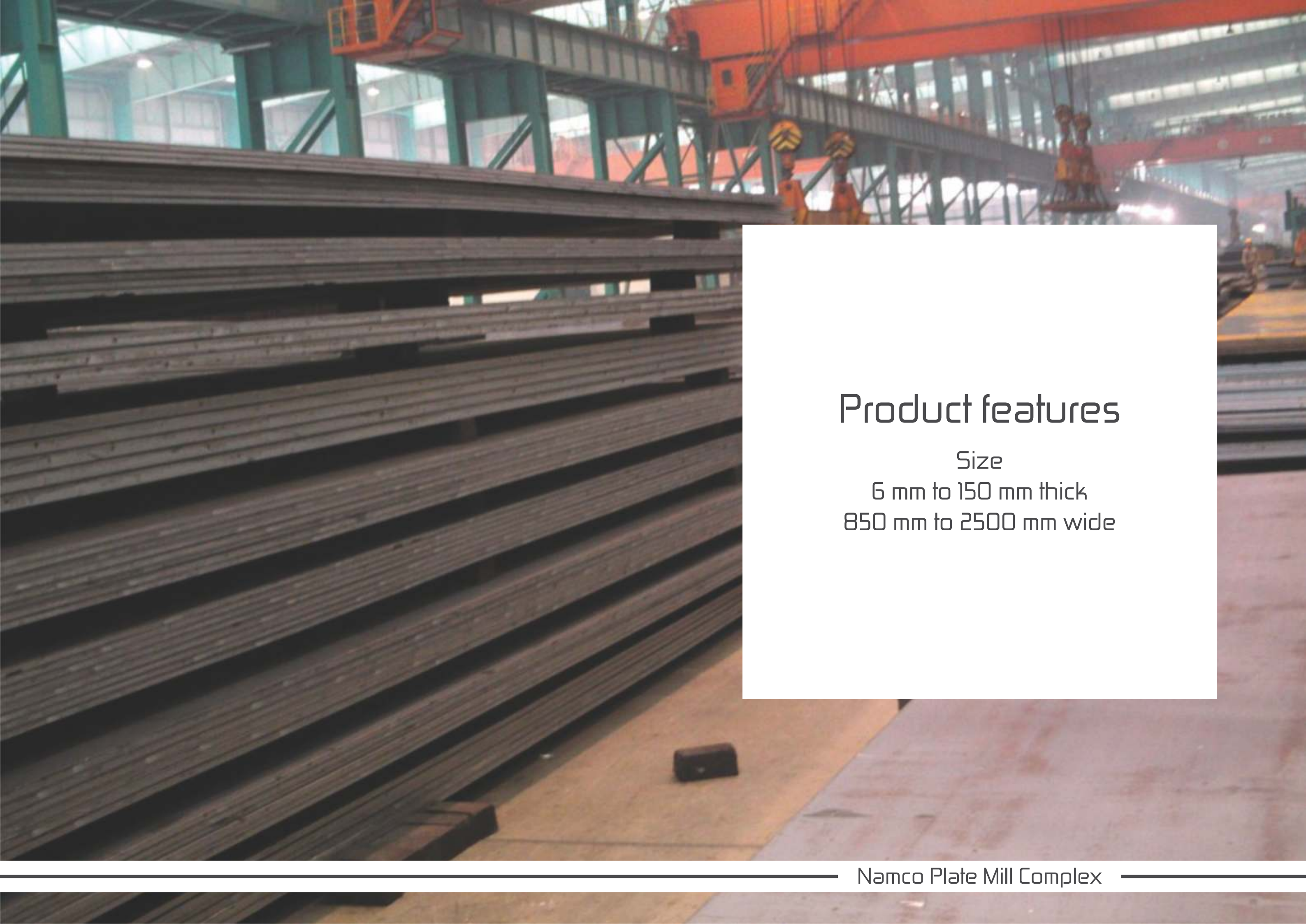
- Fully automatic top & bottom fired pusher re-heating surface with Level 2 automation. Re-heating Furnace is dual-fired (Gas & Oil) with close control on atmosphere and temperature.
- High pressure (200 bar) primary & secondary de-scalers with hydraulically operated header heightcontrol facility for different slab thickness
- Slab turning device before and after mill (CROSS ROLLING)
- Vertical edger at entry side of the roughing mill, with hydraulically operated automatic width control System.
- Automatic slab squaring before mill
- 4-hi reversing type roughing mill with hydraulic auto gauge control system
- Accelerated Water-Cooling System (ACC) after finish rolling to control metallurgical parameters, achieve Good surface quality and adequate finishing & coiling temperature.



For Plate Production

- On-line dividing shear to cut rolled metal into plate of required lengths. Plates upto 40 mm thickness can be cut in the dividing shear
- Final end shearing of the plates to achieve ordered length and cut edges.
- Online sample shear for testing.





Product features

Size

6 mm to 150 mm thick

850 mm to 2500 mm wide

Qualities

Low Strength Plain Carbon Standard/Structural Grades

- IS2062 A, B, C
- IS1079
- IS5986
- IS8917 EDD
- ASTM A36, ASTM A283/285
- BSEN10025 S235/275
- BS4360 GR 40B/40C/43B/43C
- DIN 17100 ST 37.2/ST37.3/ST44.2/ST44.3

Precipitation hardened HSLA Grades

- IS8500 FE440/490
- SAILMA350 EQUIVALENT
- IS 10748
- ASTM A 572 GR 50/ GR 60
- BSFN 10025 S355JO/JR/J2G3
- BS4360 GR50B/C/D
- DIN 17100 ST52.3
- S54012A-E34, E38, E42, BSK46

High Strength Plain Carbon Solution Strengthened Grades

- IS1570 C45
- EN8, EN9
- SAILHARD EQUIVALENT
- TISCRALE EQUIVALENT

Pressure Vessel and Boiler Quality Grades

- IS2002 GR/II
- ASTM A515/516 GR/D, ASTM A204
- ASTM A537, A568, A573

Control - Rolled "Line Pipe" Grades

- API 5L GR A
- API 5L GR B
- API 5L GR X-42 to X-80

Corrosion Resistant Grades

- IRSM41 97
- Corten Equivalent
- ASTM A588
- ASTM A242

Ship Building Grades

- LRS GR A, B, D, AH/DH 27, AH/DH 32, AH/DH 36,
- ABS GR A, B, D, E, AH/DH/EH 27, AH/DH/EH 32,
- DNV A, B, D, A/D 27, A/D 32, A/D 36, A/D 40,
- GL A, B, D, A/D 32, A/D 36, A/D 40

Inspection and Testing

NAMCO Testing Facilities are equipped with

- Fully equipped sample preparation workshop
- Computerized Tensile Testing machine
- Digitalized Hardness Tester
- EN & ASTM Impact Testing Machines
- Direct Reading Optical Emission Spectrometer with gas analytical channel
- Online Ultrasonic Testing Machine
- Drop Weight Tear Test (DWTT) machine

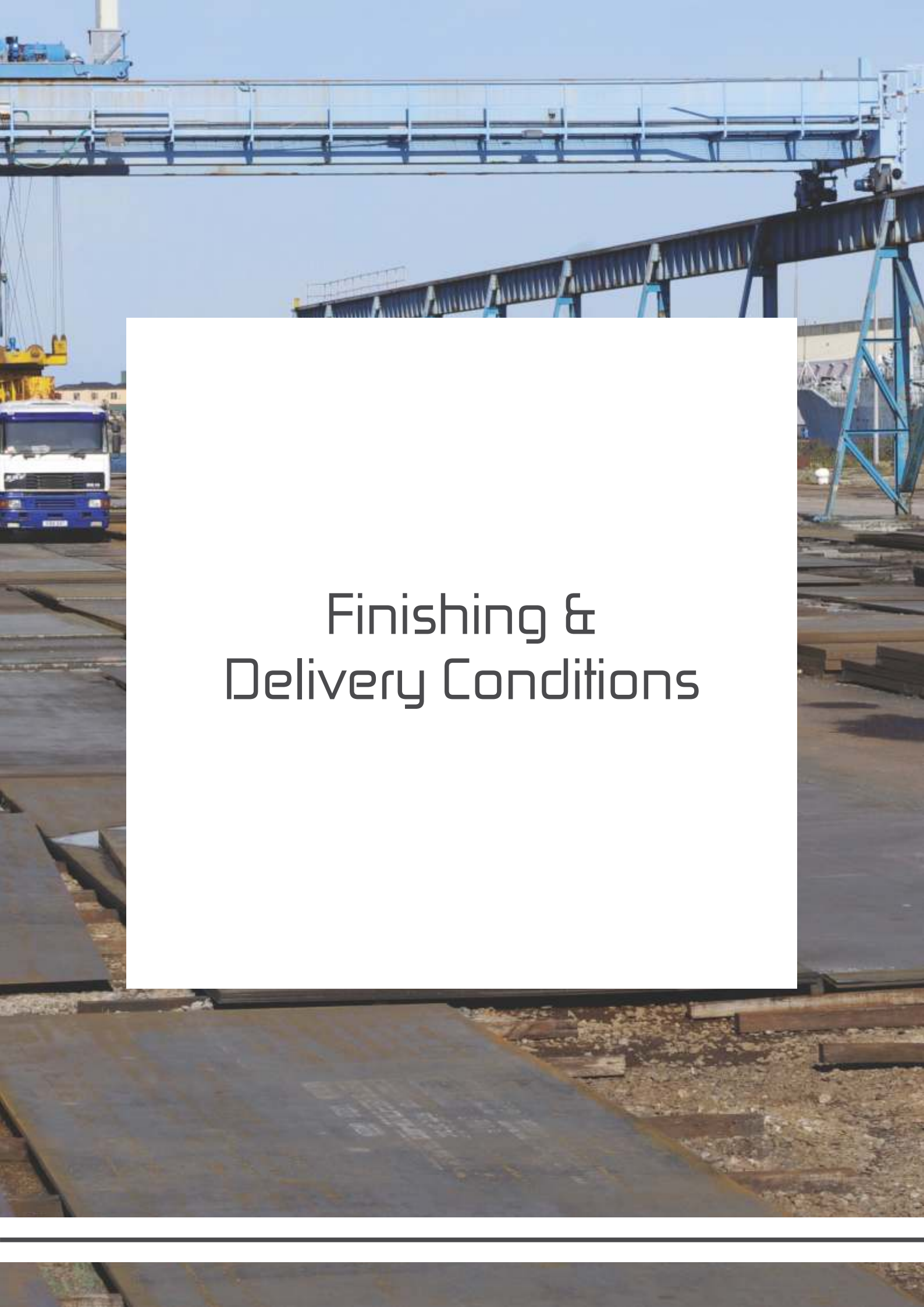
Mechanical testing such as Tensile test, Impact test, Bend test, Hardness test, Chemical analysis, Microstructure examination / Grain size determination are done in accordance with standard Specifications as per order.

Namco produces steel plates under proper metallurgical quality control and product inspection at each stage. All plates are assigned a unique plate number.

Ultrasonic testing

As per standard practice, ultrasonic testing of plates is done by Namco on most of the steel plates on random basis. However, 100% ultrasonic testing can be done on request.
(Charges to be borne by customer.)





Finishing & Delivery Conditions

- The surface of plates are furnished in the "As Rolled" condition or "Temperature controlled rolling" condition and are subject to 100% visual inspection. The steel plates are free of injurious defects and have a good working finish to confirm to the requirements of the specifications under which it is produced.
- Minimum acceptable quantity per size per grade is 50 MT for domestic orders and minimum 100 MT for export orders
- Delivery tolerance is +/- 5% in quantity per size and in total quantity or minimum +/- 1 piece
- Namco plates are furnished with "Mill edge" as rolled (untrimmed edges)
- Invoicing shall be as per actual weight for domestic orders and as per theoretical weight for export orders as per the basic weight of 7.85kg/dm³.
- Plates shall be delivered bare and loose.
- Marking : Unless otherwise specified, Namco plates are stenciled with white paint on top surface of every plate as below

Namco
Specification & Grade
Dimensions
Heat No. / Plate No.
Made in India

Stenciling details can be amended per mutual agreement.

- Color coding at top right hand corner of each plate on the width as per related material grade/specification or as per mutual agreement can be arranged.



Technical Data

Mild Steel

Hot Rolled Mild Steel Plates

Prime, annealed and pickled Mild Steel plates are produced after Hot rolling of Mild Steel Slabs.

Grade : IS 2062 / 1999-A-B-C, SAILMA-300 300HI 350 350HI 410 410HI 450 450HI,
ASTM-A-36, DIN 17100-ST 52.3

Thickness : 6 to 150 mm

Width : Upto 2500 mm

Length : Cut into desired lengths

Cut : Shear Cut

Mild Steel

Manufacturing Range

Product	Thickness (mm)	Width (mm)	Length (mm)	Surface Finish	Edge Condition
Hot Rolled Plate	6 to 150 mm	850-2500 mm	Upto 16000 mm	Hot Rolled	Sheared/Mill Edge

Dimensional Tolerances

Product	Thickness Tolerance	Length Tolerance	Width Tolerance
Hot Rolled Black	+0.50 /-0.25 for 5 to 10 mm +0.75/-0.25 for 10 to 25 mm +1.0/-0.25 for 25 to 40 mm +1.5/-0.25 for Above 40 mm	+30/-0 mm (Mill Edge) +10/-0 mm (Trim Edge)	+100/-0 mm (Mill Edge) +20/-0 mm(Trim Edge)

Surface Finish and Condition

ASTM A 480 / BS 1449 Part 2	DIN 17 400	Description	Surface Condition
No. 0 Finish/HR Black	I c or b	Hot Rolled	Layer of Mill Scale
No. 1 Finish	II a or c1 II a or c2	Hot rolled annealed and pickled	Mechanically and chemically clean

Chemical Composition

Specification	Grade	%C		%Mn		%P		%S		%Si		%CE		%Nb+V+Ti		Al%	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
IS 2062/1999	A	-	0.23	-	1.50	-	0.050	-	0.050	-	0.40	-	0.42	-	-	-	-
	B	-	0.22	-	1.50	-	0.045	-	0.045	-	0.40	-	0.41	-	-	-	-
	C	-	0.20	-	1.50	-	0.040	-	0.040	-	0.40	-	0.39	-	-	-	-
	Mode of deoxidation : Grade A - Killed or Semi Killed, Grade B and C - Killed. Cu between 0.2 and 0.35% for copper bearing quality.																
SAILMA	300	-	0.25	-	1.50	-	0.055	-	0.055	-		-	-	-	0.30	-	-
	300 HI	-	0.20	-	1.50	-	0.040	-	0.040	-		-	-	-	0.30	-	-
	350	-	0.25	-	1.50	-	0.055	-	0.055	-		-	-	-	0.30	-	-
	350 HI	-	0.20	-	1.50	-	0.040	-	0.040	-		-	-	-	0.30	-	-
	410	-	0.25	-	1.50	-	0.055	-	0.055	-		-	-	-	0.30	-	-
	410 HI	-	0.20	-	1.50	-	0.040	-	0.040	-		-	-	-	0.30	-	-
	450	-	0.25	-	1.50	-	0.055	-	0.055	-		-	-	-	0.30	-	-
ASTM-A-36		-	0.25	0.80	1.20	-	0.040	-	0.050	0.15	0.40	-	-	-	-	-	-
		-	0.25	0.80	1.20	-	0.040	-	0.050	0.15	0.40	-	-	-	-	-	-
DIN 17100	ST 52.3	0.20	0.22	-	1.60	-	0.040	-	0.040	-	0.55	-	-	-	-	0.02	-

Mechanical Properties

Specification	Grade	Yield Strength Mpa Min			Ultimate Tensile Strength Mpa Min	Elongation % Min GL 5.65 /S ₀
		< 20	20-40	> 40		
IS 2062/1999	A	250	240	230	410	23
	B	250	240	230	410	23
	C	250	240	230	410	23
SAILMA	300	300			440-560	20
	300 HI	300			440-560	21
	350	350			490-610	20
	350 HI	350			490-610	21
	410	410			540-660	19
	410 HI	410			540-660	20
	450	450			570-720	18
ASTM-A-36		250			400-550	200 mm - 18, 50 mm - 21
		250			400-550	200 mm - 18, 50 mm - 21
DIN 17100	ST 52.3	0.16 mm	>16 0 40	>40 0 63	490-630	18

Stainless Steel

Hot Rolled Stainless Steel Plates
Prime, annealed and pickled Stainless Steel plates are produced after hot rolling of Stainless Steel Slabs. We offer Plasma edge cutting for 90 degree sharp cuts.

Grade : AISI 201, AISI 202, AISI 204, AISI 301,
AISI 303, AISI 304, AISI 304L, AISI 310,
AISI 316, AISI 316L, AISI 321,
SIL 1 (1% Nickel Max), SIL 4 (4% Nickel Max)

Thickness : 8 to 50 mm
Width : Upto 2500 mm
Length : Cut into desired lengths
Cut : Shear Cut



Namco Plate Mill Complex



Stainless Steel

Manufacturing Range

Product	Thickness (mm)	Width (mm)	Length (mm)	Surface Finish	Edge Condition
Hot Rolled Plate	8 to 50 mm	1000-1500 mm	Upto 8000 mm	Hot Rolled Annealed and Pickled	Sheared / Mill Edge

Dimensional Tolerances

Hot Rolled Black and Hot Rolled Annealed and Pickled Plate	+0.50 /-0.25 for 5 to 10 mm		
	+0.75/-0.25 for 10 to 25 mm	+30/-0 mm (Mill Edge)	+100/-0 mm (Mill Edge)
	+1.0/-0.25 for 25 to 40 mm	+10/-0 mm (Trim Edge)	+20/-0 mm(Trim Edge)
	+1.5/-0.25 for Above 40 mm		

Surface Finish and Condition

ASTM A 480 / BS 1449 Part 2	DIN 17 400	Description	Surface Condition
No. 0 Finish/HR Black	I c or b	Hot Rolled	Layer of Mill Scale
No. 1 Finish	II a or c1 II a or c2	Hot rolled annealed and pickled	Mechanically and chemically clean

Chemical Composition

AISI - ASTM Grade	%C Max	%Mn Max	%Si Max	%P Max	%S Max	% Cr	% Ni	% Mo	%N Max	% Cu Max	% Others
201	0.15	5.5 - 7.5	1.00	0.06	0.03	16.0 - 18.0	3.5 - 5.5	-	0.25	-	-
202	0.15	7.5-10.0	1.00	0.06	0.03	17.0-19.0	4.0-6.0	-	0.25	-	-
301	0.15	2.00	1.00	0.045	0.030	16.00-18.00	6.00-8.00	-	0.10	-	-
304	0.08	2.00	0.75	0.045	0.030	18.00-20.00	8.00-10.50	-	0.10	-	-
304L	0.03	2.00	0.75	0.045	0.030	18.00-20.00	8.00-12.00	-	0.10	-	-
304LN	0.03	2.00	0.75	0.045	0.030	18.00-20.00	8.00-12.00	-	0.10-0.16	-	-
310S	0.08	2.00	1.50	0.045	0.030	24.00-26.00	19.00-22.00	-	-	-	-
316	0.08	2.00	0.75	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	0.10	-	-
316L	0.03	2.00	0.75	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	0.10	-	-
316 LN	0.03	2.00	0.75	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	0.10-0.16	-	-
316 Ti	0.08	2.00	0.75	0.045	0.030	16.00-18.00	10.00-14.00	2.00-3.00	0.10	-	Ti=5(C+N) Min./0.70 Max.
321	0.08	2.00	0.75	0.045	0.030	17.00-19.00	9.00-12.00	-	0.10	-	Cb=10X (%C Min.)/1.00 Max.
347	0.08	2.00	0.75	0.045	0.030	17.00-19.00	9.00-13.00	-	-	-	Ti=6X(C+N) Min./-0.75 Max.
410	0.15	1.00	1.00	0.040	0.030	11.50-13.50	0.75max	-	-	-	-
410S	0.08	1.00	1.00	0.040	0.030	11.50-13.50	0.60max	-	-	-	-
430	0.12	1.00	1.00	0.040	0.030	16.00-18.00	0.75max	-	-	-	-
420	0.15min	1.00	1.00	0.040	0.030	12.00-14.00	0.75max	-	-	-	Mo=0.50 Max

Mechanical Properties

AISI Grade	TensileStrength Mpa(Min.)	YieldStrength Mpa(Min.)	Elongation %(Min.)	Hardness BHN(Max)	Hardness RB(Max)
201	515	275	40	-	-
202	515	205	40	-	-
301	515	205	40	217	95
304	515	205	40	201	92
304L	485	170	40	201	92
304LN	515	205	40	201	92
310S	515	205	40	217	95
316	515	205	40	217	95
316L	485	170	40	217	95
316 LN	515	205	40	217	95
316 Ti	515	205	35	217	95
321	515	205	40	217	95
347	515	205	40	201	92
410	450	205	20	217	96
410S	415	205	22	183	89
430	415	205	22	183	89
420	690	-	15	217	96

Equivalent Specifications:

Grade	IS India	AISI USA	DIN Germany	AFNOR France	JIS Japan	BS Britain	SIS Sweden
SS 301	X 10 Cr 17 Ni 7	301	1.4310	Z 12 CN 17-08	SUS 301	301 S 21	142331
SS 304	X 02 Cr 19 Ni 10	304	1.4301	Z 6 CN 18-19	SUS 304	304 S 15	142333
SS 304L	-	304 L	1.4306	Z 2CN 18-10	SUS 304 L	304 S 11	142352
SS 310S	-	310 S	1.4845	-	SUS 310 S	-	142361
SS 316	X04 Cr 17 Ni 12 Mo 2	316	1.4401 1.4436	Z6 CND 17-11	SUS 316	316 S 31	142347 142343
SS 316L	X02 Cr 17 Ni 12 Mo 2	316 L	1.4404 1.4435	Z 2 CND 17-12 Z 2 CND 17-13	SUS 316 L	316 S 31	142338 142353
SS 321	X04 Cr 18 Ni 10 Ti 20	321	1.4878	Z 6 CNT 18-12	SUS 321	321 S 31	142337
SS 409	-	409	1.4512	Z 5 CT 12	SUS 409	409 S 17	-
SS 410S	-	410 S	-	-	-	-	-
SS 430	X 07 Cr 17	430	1.4016	Z 8 C 17	SUS 430	430 S 17	142320
SS 409M	-	-	1.4003	-	-	HYFAB3 /12	-

Grade	UNS	UNI Italy
SS 301	S 30100	X 12 Cr Ni 1707
SS 304	S 30400	X 5 Cr Ni 1810
SS 304L	S 30303	X 2 Cr Ni 1811
SS 310S	S 31008	X 6 Cr Ni 2520
SS 316	S 31600	X 8 Cr Ni Mo 1713
SS 316L	S 31603	X 2 Cr Ni Mo 1712 X 2 Cr Ni Mo 1713
SS 321	S 32100	X 6 Cr Ni Ti 1811
SS 409	S 40900	-
SS 410S	-	-
SS 430	S 43000	X 12 Cr 17 C
SS 409M	-	-

Alloy Steel

Hot Rolled Alloy Steel Plates

Prime, annealed and pickled Alloy Steel plates are produced after hot rolling of Alloy Steel Slabs.

We offer Plasma edge cutting for 90 degree sharp cuts.

Grade : IS 2002/1992 -1 -2- 3, ASTM-A 515 M-60-65-70,ASTM-A516 M-60-65-70, IS 6240/1999, JIS G 4051-S45C, EN10025- S275 JR-S275 JO-S355 JR-S355 JO, BS 970-EN45-EN 8-EN 9-EN 16-EN 19, DIN 17100-C-35-C-45-C-55, DIN 17210-16MnCr5-20MnCr5, SAE 1970-8620.

Thickness : 6 to 120 mm

Width : Upto 2500 mm

Length : Cut into desired lengths

Cut : Shear Cut



Alloy Steel

Manufacturing Range

Product	Thickness (mm)	Width (mm)	Length (mm)	Surface Finish	Edge Condition
Hot Rolled Plate	6 to 120 mm	1000-2500 mm	Upto 16000 mm	Hot Rolled Annealed and Pickled	Sheared / Mill Edge

Dimensional Tolerances

Product	Thickness Tolerance	Length Tolerance	Width Tolerance
Hot Rolled Black	+0.50 /-0.25 for 5 to 10 mm +0.75/-0.25 for 10 to 25 mm +1.0/-0.25 for 25 to 40 mm +1.5/-0.25 for Above 40 mm	+30/-0 mm (Mill Edge) +10/-0 mm (Trim Edge)	+100/-0 mm (Mill Edge) +20/-0 mm(Trim Edge)

Surface Finish and Condition

ASTM A 480 /BS 1449 Part 2	DIN 17 400	Description	Surface Condition
No. 0 Finish/HR Black	I c or b	Hot Rolled	Layer of Mill Scale
No. 1 Finish	II a or c1 II a or c2	Hot rolled annealed and pickled	Mechanically and chemically clean

Chemical Composition

Specification	Grade	%C		%Mn		%P		%S		%Si		%CE	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
IS 2002/1992	1	-	0.18	0.50	1.20	-	0.035	-	0.040	0.15	0.35	-	0.44
	2	-	0.20	0.50	1.20	-	0.035	-	0.040	0.15	0.35	-	0.44
	3	-	0.22	0.50	1.20	-	0.035	-	0.040	0.15	0.35	-	0.44
ASTM-A 515 M	60	0.24	0.27	-	0.90	-	0.035	-	0.035	0.15	0.40	-	-
	65	0.28	0.31	-	0.90	-	0.035	-	0.035	0.15	0.40	-	-
	70	0.31	0.33	-	1.20	-	0.035	-	0.035	0.15	0.40	-	-
ASTM-A 516 M	60	0.21	0.23	TH 12.5 and below-.60 - .90	For TH above 12.5-.60 - .90	-	0.035	-	0.035	0.15	0.40	-	-
				-	0.90	-	0.035	-	0.035	0.15	0.40	-	-
	65	0.24	0.26	0.85	1.20	-	0.035	-	0.035	0.15	0.40	-	-
	70	0.27	0.28	0.85	1.20	-	0.035	-	0.035	0.15	0.40	-	-
IS 6240/1999	-	-	0.16	0.30	-	-	0.030	-	0.030	-	0.25	-	-
JIS G 4501	S45C	0.42	0.48	0.60	0.90	-	0.030	-	0.04	-	-	-	-
EN10025	S275 JR	-	0.21	-	1.50	-	0.045	-	0.05	-	-	-	0.42
	S275 JO	-	0.21	-	1.50	-	0.040	-	0.040	-	-	-	0.42
	S355 JR	-	0.24	-	1.60	-	0.045	-	0.05	-	0.55	-	0.47
	S355 JO	-	0.24	-	1.60	-	0.040	-	0.040	-	0.55	-	0.47
BS 970	EN45	0.50	0.60	0.70	1.00	-	0.050	-	0.050	1.50	2.00	-	-
	EN 8	0.35	0.45	0.60	1.00	-	0.060	-	0.060	0.050	0.35	-	-
	EN 9	0.50	0.60	0.50	0.80	-	0.060	-	0.060	0.050	0.35	-	-
	EN 16	0.30	0.40	1.30	1.80	-	0.050	-	0.050	0.10	0.35	-	-
	EN 19	0.35	0.45	0.50	0.80	-	0.050	-	0.050	0.10	0.35	-	-
DIN 17100	C-35	0.32	0.39	0.50	0.80	-	0.045	-	0.05	0.15	0.35	-	-
	C-45	0.42	0.50	0.50	0.80	-	0.045	-	0.05	0.15	0.35	-	-
	C-55	0.52	0.60	0.60	0.90	-	0.045	-	0.05	0.15	0.35	-	-
DIN 17210	16MnCr5	0.14	0.19	1.00	1.30	-	0.035	-	0.04	0.15	0.40	-	-
	20MnCr5	0.17	0.22	1.10	1.40	-	0.035	-	0.04	0.15	0.40	-	-
SAE 1970	8620	0.18	0.23	0.70	0.90	-	0.040	-	0.04	0.15	0.3	-	-

Alloy Steel

Specification	Grade	Al%		Cu%		Mo%		Cr%		Ni%	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
IS 2002/1992	1	-	0.022	-	0.10	-	-	-	-	0.15	-
	2	-	0.022	-	0.10	-	-	-	-	0.15	-
	3	-	0.022	-	0.10	-	-	-	-	0.15	-
ASTM-A 515 M	60	-	0.020	-	0.020	-	-	-	-	0.15	-
	65	-	0.020	-	0.020	-	-	-	-	0.15	-
	70	-	0.020	-	0.020	-	-	-	-	0.15	-
ASTM-A 516 M	60	-	0.020	-	-	-	-	-	-	-	-
	65	-	0.020	-	-	-	-	-	-	-	-
	70	-	0.020	0.020	-	-	-	-	-	-	-
IS 6240/1999	-	-	0.020	-	-	-	-	-	-	-	-
BS 970	EN 16	-	-	-	-	0.20	0.35	-	-	-	-
	EN 19	-	-	-	-	0.20	0.40	0.90	1.50	-	-
DIN 17210	16MnCr5	-	-	-	-	-	-	0.80	1.10	-	-
	20MnCr5	-	-	-	-	-	-	1.00	1.30	-	-
SAE 1970	8620	-	-	-	-	0.15	0.25	0.40	0.60	0.40	0.70

Mechanical Properties

Specification	Grade	Yield Strength Mpa Min			Ultimate Tensile Strength Mpa Min	Elongation % Min	
		<20	20-40	>40		GL 5.65 /S ₀	
IS 2002/1992	1	235	225	215	360-480	24	
	2	265	255	245	410-530	22	
	3	290	285	280	460-580	21	
ASTM-A 515 M	60	220			415-550	200 mm	50 mm
	65	240			450-585	21	25
	70	260			485-620	19	23
ASTM-A 516 M	60	220			415-550	17	21
	65	240			450-585	21	25
	70	260			485-620	19	23
IS 6240/1999		240			485-620	17	21
JIS G 4051	S45C				350-450	25	
EN10025	S275 JR	235			410-560	22	
	S275 JO	235			410-560	20	
	S355 JR	315			490-630	22	
	S355 JO	315			490-630	20	
BS 970	EN 45	As per contractual obligation					
	EN 8				40-50	22	
	EN 9				45-55	18	
	EN 16				45-55	22	
	EN 19				50-60	22	
DIN 17100	C-35	33			55-70	20	
	C-45	38			63-78	17	
	C-55	43			71-86	15	
DIN 17210	16MnCr5	65			90-120	9	
	20MnCr5	75			110-140	7	
SAE 1970	8620						

Plate Size Matrix

	WIDTH (mm)							
	850	1000	1250	1500	1800	2000	2200	2500
Thickness (mm)	Finished Plate Standard Lengths (meters)							
10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10
12	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10
14	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10	6.3/8/10
16	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
18	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
20	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
22	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
24	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
25	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
28	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
30	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
32	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
35	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
36	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
40	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
45	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
50	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
56	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
60	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
63	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
70	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
75	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
80	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
90	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
100	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5
110	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5	6.3/8/10/12/12.5



Customer Registration Form

Kindly fill in your details and send this page to the below address.

Company Name : _____

Contact Name : _____

Email Id : _____

Address : _____

City : _____

State : _____

Zip Code : _____

Country : _____

Phone : _____

Fax : _____

Website : _____
(<http://www.example.com>)

Product Category : _____

Business Proposal : _____

Corporate Office : Namco Corp, 525 Vyapar Bhawan, P. Dmello Road, Carnac Bunder,
Masjid East, Mumbai - 400 009
PH : (022) - 40236500, FAX : (022) - 22850269



Namco Plate Mill Complex



Vendor Registration Form

Kindly fill in your details and send this page to the below address.

Company Name : _____

Contact Name : _____

Email Id : _____

Address : _____

City : _____

State : _____

Zip Code : _____

Country : _____

Phone : _____

Fax : _____

Website : _____
(<http://www.example.com>)

Business Type : _____

Business Proposal : _____

Corporate Office : Namco Corp, 525 Vyapar Bhawan, P. Dmello Road, Carnac Bunder,
Masjid East, Mumbai - 400 009
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Namco Plate Mill Complex



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PH : (731) - 4026666 / 4036666 / 3917000

FAX : (731) - 4037252

namco@namcocorp.com

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Namco Corp

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Masjid East, Mumbai - 400 009.

PH : (022) - 40236500,

FAX : (022) - 40236501

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Survey No. 316,

Nanchirai Chowkari

Ta - Bhachau, Kutch 370140.

AHMEDABAD OFFICE

504 A Nirman Complex, Opp Navrangupura

Havmore Restaurant, Navarangoura,

Ahmedabad - 360009.

PH / FAX : (079) - 40278925

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Pushp Ratan Building,

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FAX : (731) - 4249 006