



Certificate Reg. no. 04100 2004 7182-E3



#8, 27th Cross, Banashankari 2nd Stage, Bangalore-560 070, India Tel:+91-80-2671 7078, 2671 1733, Fax: +91-80-2671 3138
Email: mail@armaticengineering.com, Web: www.armaticengineering.com



- A Established in 1968
- Leading designers of custom-built material handling equipment in India
- Expertise in design and innovation of new products
- A Mainly cater to steel industry
- A About 60% market share in India
- A Designed and manufactured equipments upto 180 ton capacity (spreader beam – supplied to Essar steel, Hazira)
- A Large product profile and customer base

PRODUCT RANGE



- ▲ C-hooks with rotation, container loading etc
- ▲ Vertical Coil tongs single and double rim
- ▲ Coil lifters rack and pinion & parallelogram
- ▲ Convector plate lifters
- ▲ Transfer Cars electrical and battery operated
- ▲ Slab, Ingot, Billet, Bloom Tongs
- ▲ Up-down enders (tilters) mechanical & electro hydraulic
- ▲ Electro-hydraulic Cactus and rope grabs
- A Sheet pack & plate lifters
- A Spreader Beams
- ▲ Truck mounted hydraulic cranes
- ▲ Stack turnover device Hydraulic
- A Roll lifting tong
- ▲ Job rotators

C-Hooks

Material: Hot rolled, cold rolled, color coated, slitted coils, etc *Capacities:* Upto 45MT, *Temperature:* Upto 800°C











Vertical Coil Tongs

Material: Hot rolled, cold rolled, color coated, slitted coils, etc *Capacities:* Upto 40MT, *Temperature:* Upto 800°C





Convector Plate Lifter

Material: Convector Plates *Capacities:* Upto 5MT, *Temperature:* Upto 250°C





Coil Lifter

Material: Hot rolled, cold rolled, color coated, slitted coils, etc *Capacities:* Upto 32MT, *Temperature:* Ambient









Parallelogram Coil Lifter

Material: Hot rolled, cold rolled, color coated, slitted coils, etc *Capacities:* Upto 20MT,



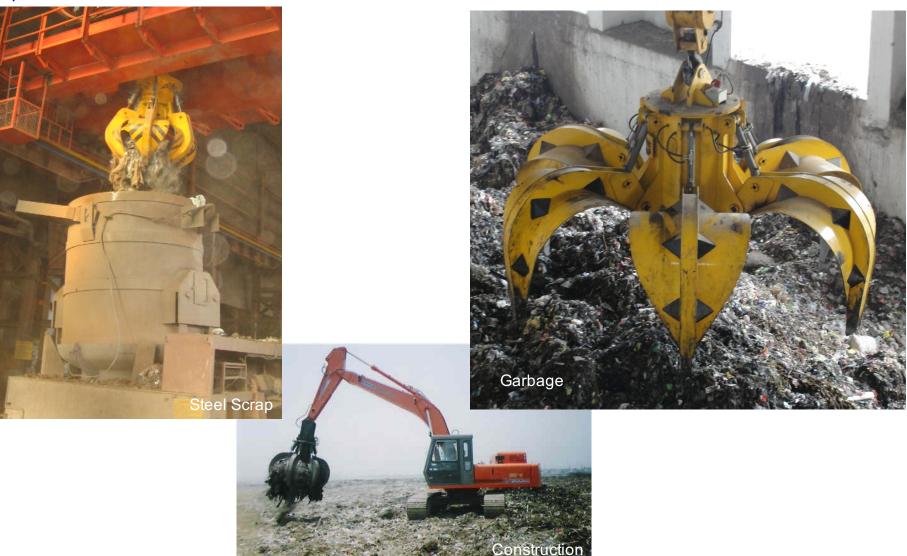




Electro-Hydraulic Cactus Grab

Material: Steel Scrap, *Capacities:* Upto 8CbM, *Temperature:* Ambient





Miscellaneous Grab

Material: Miscellaneous, *Capacities:* custom built *Temperature:* Ambient





Hot plate stack lifter & trolley

Material: Stainless Steel Plates, *Capacities:* Upto 25MT, *Temperature:* Upto 1200°C



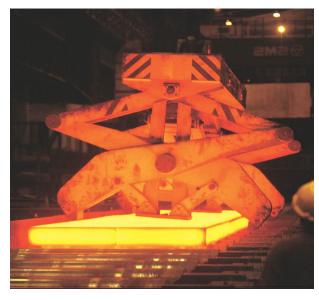




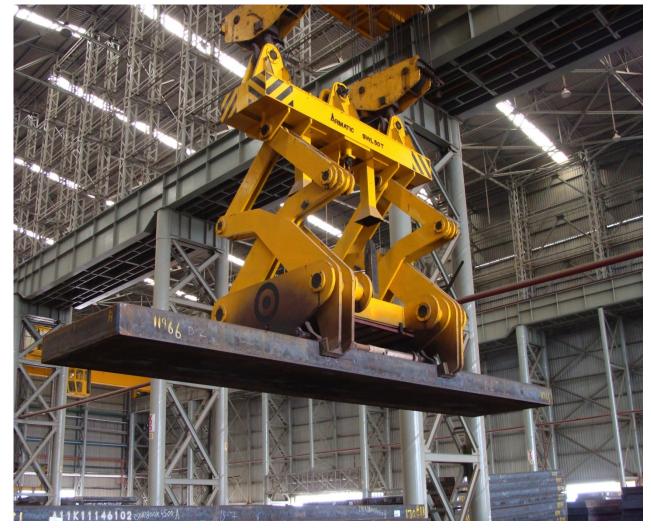


Slab Tong Material: Steel Plates, Capacities: Upto 30MT, Temperature: Upto 1200°C









Motorised Sheet Pack Lifter

Material: Sheet Packs, *Capacities:* Upto 15MT, *Temperature:* Ambient











Tripoid Grab *Material:* 5.5M diameter forged rings, *Capacities:* Upto 10MT, *Temperature:* Upto 1200°C









Coil Transfer Cars

Material: Coils, sheets, etc *Capacities:* Upto 85MT, *Temperature:* Ambient









Transfer car with scissor lift

Material: Coils, Rolls, etc *Capacities:* Upto 10MT, *Temperature:* Ambient





Battery operated Transfer car

Material: Coils, sheets, etc *Capacities:* Upto 40MT, *Temperature:* Ambient





Pipe and Billet Transfer Cars

Material: Pipes, Billets, etc *Capacities:* Upto 85MT, *Temperature:* Ambient





Coil Transfer Cars

Material: Coils, *Capacities:* Upto 35MT, *Bottom open to facilitate coil car to lift coils*







35T Coil Transfer car

Up-down enders (tilters)

Material: Coils, sheets, etc *Capacities:* Upto 40MT, *Temperature:* Ambient











Spreader Beams

Material: Sheets, plates, tubes, etc Capacities: Upto 185MT, *Temperature:* Ambient









Miscellaneous Tongs and beams

Material: Stone, Rails, sheets, etc Capacities: Custom built, Temperature: Ambient

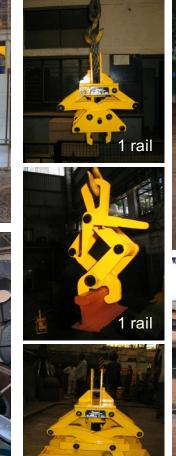














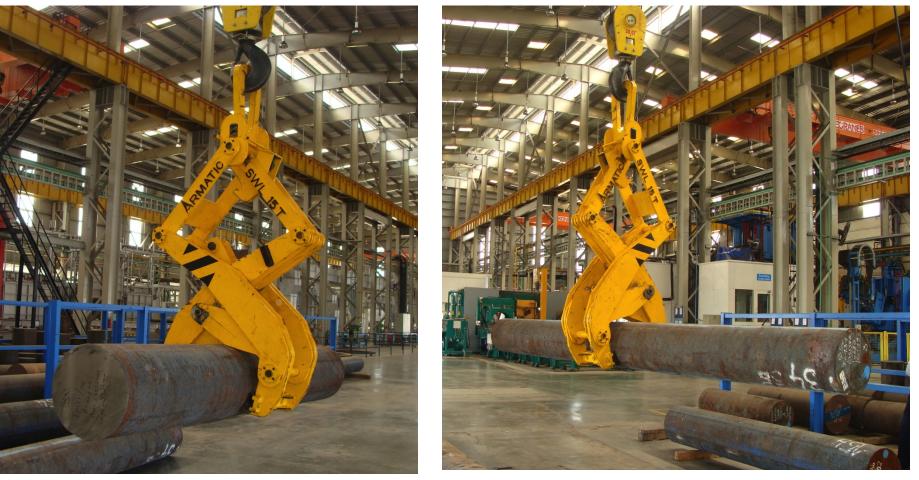
120T lifting beam

3 rails

Ingot / Billet Tongs

Material: Steel Ingots / Billets, Capacities: Upto 25 MT, Temperature: Upto 900°C





Ingot / Billet Tongs

Material: Steel Ingots / Billets, Capacities: Upto 10MT, Temperature: Upto 900°C









Crucible lifting Tong

Material: Crucible ladle Capacities: Upto 17.5TMtr, *Temperature:* Upto 600°C





Roll Tong *Material: Work roll and back up roll Capacities:* Upto 40MT, *Temperature:* Ambient





Ladles and Charging Buckets

Material: Steel scrap Capacities: Upto 16MT, *Temperature:* Ambient







Graphite Handling *Material: Graphite Electrodes Capacities:* Upto 12MT, *Temperature:* Upto 1200°C







Stack Turnover Device

Material: Sheets Capacities: Upto 10MT, *Temperature:* Ambient







Plate Clamps

Material: Steel Plates Capacities: Upto 12MT, *Temperature:* Ambient









REAL REPRESENTATE LIMITED







Equipments ready for despatch







Equipments ready for despatch





Equipments ready for despatch





Equipment's loaded on trucks













Equipment's loaded on trucks













Manufacturing Unit



Other sectors:



Automobile sector:

Tata Motors

Toyota

Nissan

Ford

Suzuki

Renault

Consultants:

Mecon M N Dastur Larsen and Toubro

Inspection Agency:

Rites SGS Quest

Engineering sector:

Sumikin Busan - Japan India steel sumit – Sumitomo group - Japan Daneili - Italy Kone Cranes - Finland SMS Demag - Germany SMS Siemag - Germany Posco – Korea MHE demag – Malaysia & Singapore

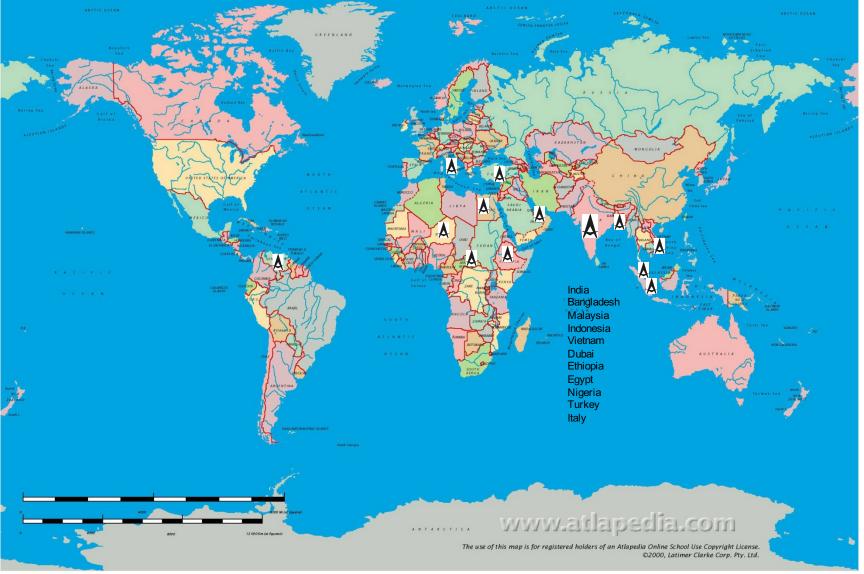
Government agencies:

Hindustan Shipyard Indian institute of Science Indian Institute of Astrophysics BHEL Railways, Defense





Customer base



ISO Certificate





ISO 9001 : 2000

are fulfilled. The certificate is valid until 20 July 2007

Certificate Registration No. 04100 2004 7182 - E3



CERTIFICATE

Management system as per DIN EN ISO 9001 : 2000

In accordance with TÜV CERT procedures, it is hereby certified that

ARMATIC ENGINEERING PRIVATE LIMITED 8, SIST Industrial Area, 27th Cross, Banashankari II Stage, Bangalore – 560 070, India



applies a quality system in line with the above standard for the following scope

Design, Manufacture and Supply of Material Handling Equipments

Certificate Registration No. 44 100 047182-E3 Audit Report No. 2.5-2610/2004 Valid until 20.07.2010 Initial certification 21.07.2004

TÜV CERT Certification Body at TÜV NORD CERT GmbH

Mumbai, 26.11.2007

This certification was conducted in accordance with the TÜV CERT auditing and certification procedures and is subject to regular surveillance audits. TUV India Pvt Ldt, 801, Raheje Plaza - 1, Le S. Marg, Ghatkopar (W), Murrbai - 400 086, India www.tuvindia.co.in





Machinery list



 Conventional centered geared Lathe Shaping – stroke 600mm – Radial Drilling – MT5 	2 nos. 2 nos.
spindle 2.5"	1 no.
spindle 1.5"	1 no.
Co2 Welding 600 amps	4 nos.
 Hacksaw cutting 300mm 	2 nos.
 Profile cutting 	3 nos
Bench Grinder	3 nos.
 40KVA diesel generator 	1 no.
• Fly press	3 nos
 Crane weighing scale 20T 	1 no.
Air Compressor	1 no.
 EOT crane 5T capacity 	2 no.
• EOT crane 16T capacity	5 no.
Hand grinding machine AG 7	10 nos
 Measuring Instruments 	
(micrometer, vernier, dial vernier,	
depth guage, height guage etc)	15 nos.
Ultrasonic flaw detector	1 no.

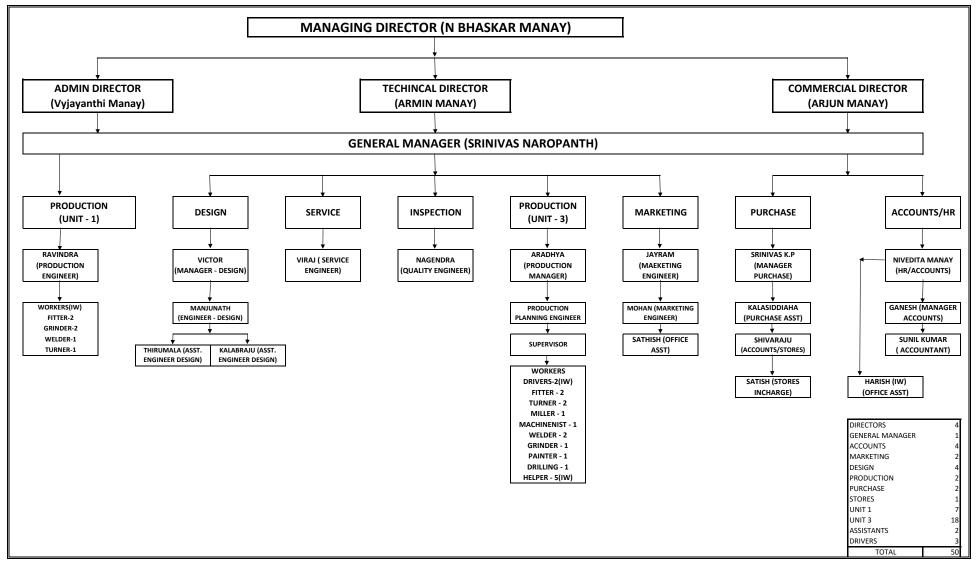
 Universal Milling machine 	
(900 & 700 bed size)	2 nos
 Arc welding machine 600 amps 	4 nos.
 8 shapped rolling machine 	1 no.
• Drilling 1/2"	2 nos.
 Double wheel bench grinder 1 no. 	
 82.5KVA generator 	1 no.
 Welding transformer 	5 no.
 Avery weighing Scale 	
(300 kgs & 1000 Kgs)	1 no. each
 Electric Hoist 5T & 2T 	1 no. each
 Chain Pulley block (5T & 2T) 	1 no. each
•Hardness tester	1 no.

Area of existing manufacturing unit $12M \times 18M = 216.0 \text{ SqM} - \text{Unit } 1$ $36M \times 48M = 1728 \text{ SqM} - \text{Unit } 2$

Kindly refer to our new unit in slide 34

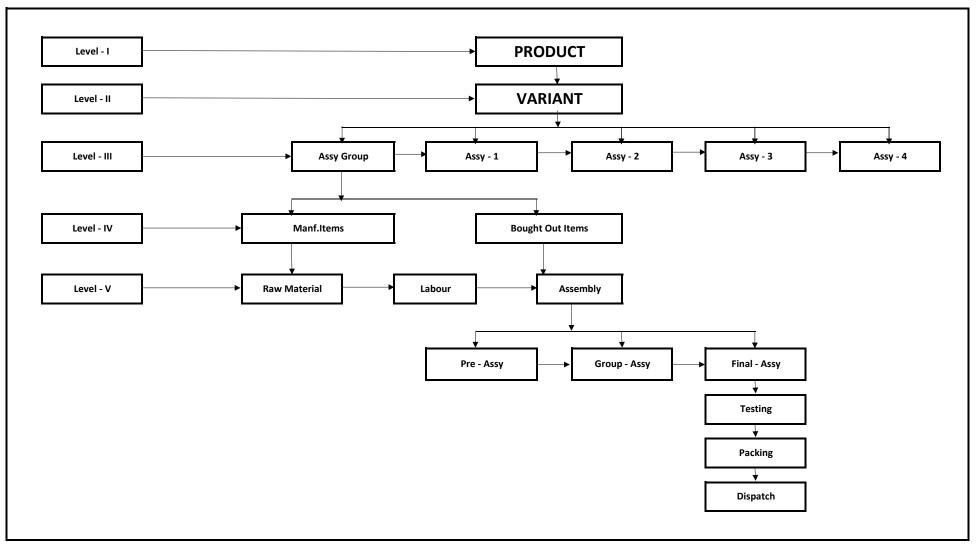


ORGANISATION STRUCTURE





MANUFACTURING FLOW CHART



Management and labour

Top Management	4 Directors
Middle management	7
Engineers:	4
Supervisors:	5
Workers:	
Machine operators:	8
Skilled:	7
Junior fitter:	5
Unskilled:	12
Helpers:	7
TOTAL	59



Suppliers and vendors and their capabilities.

- We have a variety of suppliers of raw materials viz, steel plates, alloy steel, hydraulics, electrical, consumables like oil, welding electrodes, grinding wheels, fasteners, etc.
- Similarly we also have sub-contractors who do the fabrication of equipments at site and machining of various items like wheels, gears, pinions, shafts etc.
- In Bangalore there are good sub-contractors with heavy machining capabilities with excellent accuracy on German / European CNC machines.

SAIL

STEEL AUTHORITY OF INDIA LIMITED BHILAI STEEL PLANT RESEARCH & CONTROL LAB. (MECHANICAL TESTING LAB.)

LEST CERTIFICATE FOR STRUCTURAL STEEL SAIL - MA

PAGE NO. 3

To Ms BM BSO HANGALORE (SYD) BAIYAPPNAHALLI BANGALORE

MTL-IVQR-2 Test Certificate No.:RCL/MTL//PLM/SY30-9022_DATE:17-11-07 WAGON/TRAILER ND : NWR21110651104 D.A.No :-SY30-9022_DATE:-17-11-07

Specification: SAILMA 350 HI - 1990 (KILLED) TEMP.CONTROLLED ROLLED

We certify that the Material mentioned below against the respective heat ros, have satisfied the requirement of Chemical composition and/or Mechanical tests of the respective specification(s). As found in the respective sample selected from them.

			TES	ST RESULT	'S									
SECTION (mm) (NOMINAL SIZE)	1		PCS		MECHANICAL PROPERTIES									
THICK X WOTH X LENGTH JF PLATE	HEAT No.	PLATE No.		YS. In MPa	UTS in MPa	%Elong on G.L 6.65vso	CHARF Impact T	IMPACT						
25 2600 6300 40 2500 7100 40 2500 9300	31977 37266	444836 462625	1	408 418	527 528	30 26	82 46	72 42	76 54	77 48	L	-20		
40- 2500 9300	37266	462624	1-	416	528	26	48	42	54	48	L	-20		

Bend Test : OK (M.DIa 3T)

ULTRASONIC TEST IN AS ROLLED CONDITION AS PER A-578 96(2001) LB: SATISFACTORY

3

Total Pieces Page/TC : SALE ORDER NO., :SPP0711610019

CHEMICAL ANALYSIS (LADLE)

Heat No	C%	5%	P%	Мп%	SI% -	AI%	Cu%	Cr%	Ni%	Mo%	V%	NB36	T/%	Ceq	
31977	0.15	0.022	0.019	1.45	0.32	0.020					0.020			0.40	
		0.030										0.046			
												0.046		0.39	

Research & Control Laboratory BHILAI STEEL PLANT

RMATIC ENGINEERING PRIVATE LIMITED

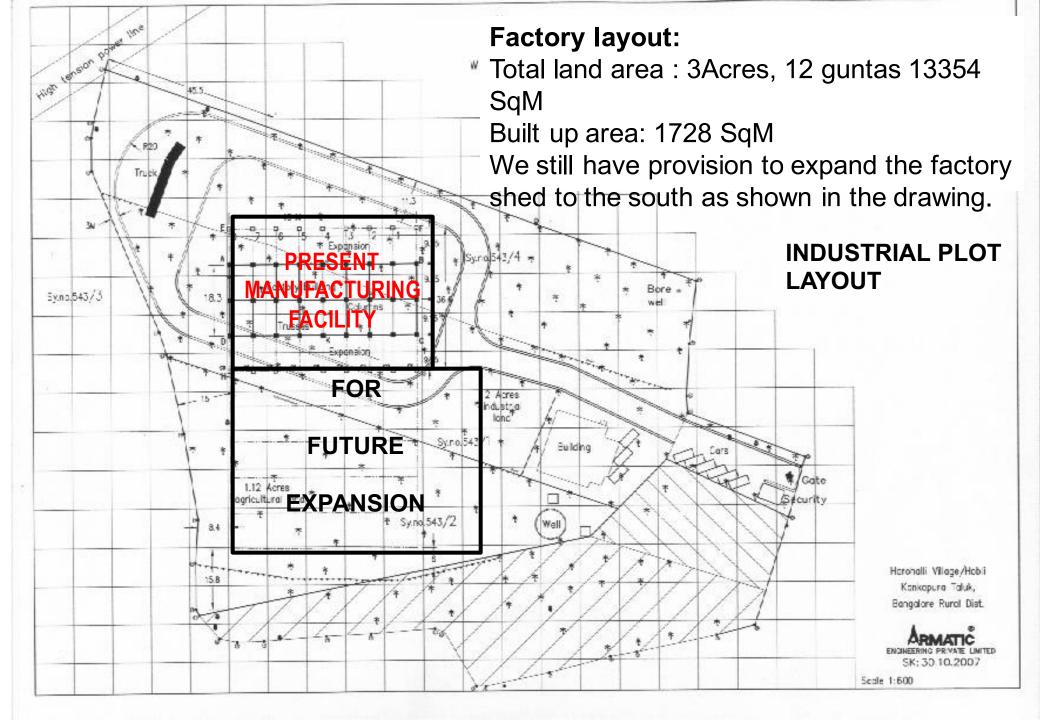
Material certificate

The materail shown is known as ST 52 / FE 540 / Sailma 350 Hi.

It is basically a high tensile weldable plate used for application like lifting equipments and hydraulic cranes.

The material is available in thickness starting from 6mm upto 40mm.

The plates will be supplied with Test certificates for chemical, tensile properties and ultra.







THANK YOU