



# Belt Splice Mechanical Elevator Bolts Plate Fasteners

Technical Specifications

*Conforming IS 10288*



**Fasten Belting Worry-Free !**

Alta apretón de acero Perno correa Sujetadores

مشابك الحزام بولت حديد دقة بضة عالية

Hautde préhension acier boulon courroie Visserie

**HIC**  
**UNIVERSAL**  
True Performance Rubbers





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## Specification of Steel Bolt Fasteners

*Classified under HS Code 8428*



### About HIC

HIC International Co Inc, formed in 1988 manufacturing industrial **steel and rubber** products **ISO 9001** certified producer of **Conveyor Elevator belt bolt fastener, Power Transmission** belts coupling pulley, **Hydraulic** hose valve, **Safety** rubber sheet mat quality exporters of HIC **Universal brand** to industrial traders distributors of USA, Australia, UAE, Singapore, China, South Africa, UK, Germany, Taiwan having manufacturing factories in Delhi and Ghaziabad UP of India.

***Total Quality Management principles are followed and True Performance is thus assured.***



## Why HIC Universal Conveyor Belt Fastener & Elevator Bolts?



### High Tensile Strength

Chamfered Steel Metal Plate Ensures Friendliness

### Minimizes Maintenance Time

And Maximizes Belt Conveyor Uptime

### Fast Jointing and Super Grip

Design Apt for High Tension Applications

### Food Safe

SS 304 Material Single Piece Design for Fixed Tension

### Long Life

Reliable Belt Splice Solution

**Belt-conveyor materials movement gets safe using belt fastener and elevator bolt made in India by HIC Universal.**

HIC Universal Euro bolts and plate conveyor fasteners are Original Choice by mining conveyor system and crusher manufacturers in India, USA, China, UK, Italy, Argentina, Colombia, Greece, Kenya, Congo, Mauritius, South Africa, Tunisia, Namibia, Cameroon, Australia, New Zealand, Indonesia, Turkey, Israel, Saudi Arabia and other Asian countries.



## RANGE of Fasteners and Bolts

### Conveyor and Elevator Belting HIC Splicing System



Solid Plate Conveyor Belt Fastener HAWK Type



Ready Set Staple Belt Fastener



Euro Elevator Bolt As per DIN 15237



Fang Type Bucket Elevator Bolts



Steel Belt Lacing

- ❖ Solid Plate Fasteners Hawk Type for jointing of 5mm to 24mm thick belts in sizes number 1, 140, 190, 1-1/4, 1-1/2, 2, 2-1/4, 2-1/2, 3.
- ❖ Staple Belt Lacing Steel Fastener Alligator Shape Crocodile Type for jointing of 1.5mm to 6mm thick belts in sizes RS62, RS125, and RS187.
- ❖ Euro Bolts DIN 15237 for jointing of Bucket Elevator Belts in sizes M6 x 20/25/30, M7 x 20/25/30/35, M8 x 20/25/30/35/40/45/50, M10 x 25/30/35/40/45/50, M12 x 40/50/60/70.
- ❖ Reference 70 Elevator Bucket Bolts with oval or domed or large flat washer in metric thread for Whitworth thread sizes M6, M8, M10, M12 and ¼ inch x ¾ or 1, 5/16 inch x 1 or 1-1/4 or 1-1/2, 3/8 inch x 1-1/4 or 1-1/2.
- ❖ Norway Elevator Bolts of zinc plated steel material in sizes ¼ inch x 1 or 1-1/4 or 1-1/2 or 2, 5/16 inch x 1 or 1-1/4 or 1-1/2 or 1-3/4 or 2, 3/8 inch x 1 or 1-1/4 or 1-1/2 or 1-3/4 or 2.
- ❖ Fang Elevator Bolts for grain industry in sizes M6 x 25 mm head, M8 x 30mm head, M10 x 35mm head.
- ❖ Oval Type Belt Fasteners in steel material for lap and saddle back joints in sizes ¼, 5/16, 3/8.
- ❖ Wire Hook Type Belt Lacing Fastener for jointing of 8.5mm to 14.5mm thick belts in size P14 containing 36 combs per box.
- ❖ Clipper Belt Lacing in stainless steel material in sizes 1/8 inch to 5/32 inch thick belts.
- ❖ Steel Belt Lacing single-piece fastener strip for jointing of 3mm to 12mm thick belts in sizes 15, 20, 25, 27, 35, 45, 55, 65.
- ❖ Jointing Tool for Conveyor Belt Splicing

- ❖ Allen Hex Key Wrenches in alloy steel material with black oxide finish in sizes 1.5mm to 32mm and 1/16 inch to 1 inch.
- ❖ Conveyor Belt Jointing Vulcanizing Machine

## Sizes of Hawk Conveyor Belt Fastener Manufactured

### *HIC Aggregate Mining Solid Plate Steel Fasteners*

Hawk conveyor belt fasteners heavy duty use comes chamfered with steel square shank bolt and nut with mechanical fastener ratings from 150 P.I.W. up to 2,000 P.I.W. equal to 350 kN/m, used by metal mining equipment and aggregate crusher conveyors manufacturers.

Hawk conveyor-fastener produced for up to 10 mm, 15, 20, 22, 25, above 25mm rubber belt thickness respectively in size 1, 1-1/2, 2, 2-1/4, 2-1/2, 3, with respective P.I.W. 150, 300, 440, 620, 450, 560, Belt fastener be used on conveyor-installation having respective belt minimum pulley diameter size MM 300, 450, 750, 920, 1050, 1200.

## Staples Type Belt Fastener

### *Fishmeal Seafood Freezer Conveyor System Fasteners*

Fast splicing single piece design Staples pre-inserted conveyor belt fasteners are used by seafood freezer conveyors manufacturers, fishmeal equipment manufacturers, airport baggage handling system makers suited for 3 mm, 4.50, 6 mm belt thickness respectively, manufactured in sizes RS62, RS125, RS187, respective staple system mechanical fastener Ratings up to P.I.W.100, 160, 200, respective minimum Pulley diameter INCH 2, 3, 4, male-female strips in food quality stainless steel and alloy steel fasteners.



## Euro Bolt

### *Bucket Elevator Conveying Systems Bolts*

Euro bolt stainless steel ss 304, ss 316 zinc plated and flat washers, used by bucket elevator conveyor system manufacturers.

Euro elevator bolt manufactured in sizes M6, M7, M8, M10 x 35, M10 x 40, M10 x 90.



## Fang Bolt

### *Grain Elevator Equipment Nut Bolts*

Fang elevator bolts that locks elevator bolt in place while nut is tightened, advantage being that are rip-proof having large flat bolt head, used by grain elevator equipment manufacturers.

Fang bolt metric for bucket elevator belting manufactured in sizes M6, M8, M10.





## Crocodile Design Belt Lacing

### *Packaged Food Conveyor Belt Fastener*

Steel belt lacing low profile splice metal fastener alligator type advantage being that are single piece crocodile design secured with teeth that embed lengthwise on belt that needs applying just hammer and no special tools, used by packaged food conveying system manufacturers and pharmaceutical belts conveyor-manufacturers.



Conveyor-belt steel lacing crocodile shape Alligator design manufactured in [sizes 1, 7, 15, 20, 25, 27, 35](#), respective lacing sizes mechanical fastener Ratings up to P.I.W. 45 = 7.8 kN/m, 50, 65, 95, 100, 150, suitable for respective Belt Thickness MM 1.6 to 2.3, 2.4 to 3.6, 3 to 3.9, 4 to 4.7, 4.8 to 5.5, 5.6 to 7, 7.1 to 8, respective minimum Pulley diameter INCH 1-1/2, 2, 2-1/2, 3, 4, 5, 7, respective Strip Length MM 152, 152, 305, 305, 305, 305, 305.

## Gripwell Fastener Manufactured by HIC

### *Textile Machinery Leather Belt Fastenings*

Gripwell leather transmission belting fastenings system, used by spinning textile machinery manufacturers.



Leather belting fastener manufactured [sizes 47 to 147 mm length](#).



## Oval Washer Belt Fastener

### *Grains Transport Incline Hopper Belt Fasteners Systems*

Oval washers belt fastener systems, used by incline hopper conveyor system manufacturers.

Oval washers manufactured in sizes 1/4, 5/16, 3/8 inches.



## Walker Belting Fastener

### *Railways Driving Dynamo Flat Belt Fasteners*

Walker train lighting transmission belting fastener K-136 where dynamo or brushless alternator is driven from axle through flat belting, used by government owned railways contractors.

Walker belting fastener sizes produced as per railways RDSO India drawings.



## Clipper Wire Hook

### *Garment Warehousing Conveyor System Mechanical Fastener*

Clipper wire hook Quick-fit Low Profile Splicing light duty used by laundry clothes overhead conveyor system manufacturers and garment warehousing conveyor manufacturers.

Clipper hook manufactured with mechanical fastener ratings up to 125 P.I.W. = 21 kN/m suited for MM 2.1, 3, 4, 4.50, 5.50, 6.50, 7.5 mm belt thickness respectively in size 30, 36, 1, 2, 3, 4, 5.

Jointing-tool for belt fastener also manufactured including Wrench Allen hex key.



## Order Quantity Minimums

### *Numbers or Boxes of HIC Conveyor Belt Fasteners and Elevator Bolts Supplied*

Belt fasteners Minimum order quantity of 500 numbers in each size.

Elevator euro bolts Minimum order quantity of 2,000 numbers in each size

Packed in box containing 25 nos. or pieces and then master carton fasteners packing.

## Nomenclature of HAWK Type Conveyor Belt Fastener

### Sizes and PIW of Solid Plate Type Fasteners: Technical Data



Fastener size no.	Belt-thickness range		For belt with mechanical fastener rating up to		Recommended minimum pulley diameter (operating tension 75% -100% of belt rating)	
	inch	mm	p.i.w	kn/m	in.	mm
1	3/16-7/16	5-11	150	30	12	300
140	3/16-7/16	5-11	225	40	14	350
190	5/16-9/16	8-14	330	60	18	450
1-1/4	1/4 to 3/8	8 to 12.5	300	50	14	350
1-1/2	7/16-11/16	11-17	300	50	18	450
2	9/16-13/16	14-21	440	75	30	750
2-1/4	9/16-1-3/16	14-30	620	105	36	900
2-1/2	3/4-1	19-25	450	75	42	1050
3	15/16 & over	24 & over	560	100	48	1200

\* Fastener sets requirement are approximately up to 5% roughly of belt width.

## Euro Elevator Bolts

Sizes and Torque of Fully Threaded Zinc Plated Steel Bolt Conforming DIN 15237 and ISO Grade 5.8:  
Technical Specifications

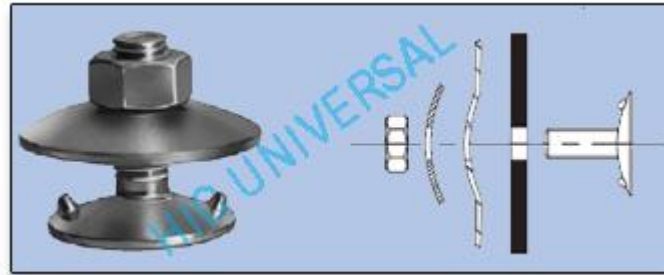


Bolt Size(mm)	Head Diameter Ø(mm)	Max. Torque(Nm)	Quantity Numbers per Package	Weight Approx. per Pack of 100(kg)
M6 x 20	21	8	100	0.97
M6 x 25	21	8	100	1.04
M6 x 30	21	8	100	1.07
M7 x 20	23	13	100	1.34
M7 x 25	23	13	100	1.47
M7 x 30	23	13	100	1.61
M7 x 35	23	13	100	1.75
M8 x 20	30	19	100	2.17
M8 x 25	30	19	100	2.26
M8 x 30	30	19	100	2.46
M8 x 35	30	19	100	2.59
M8 x 40	30	19	100	2.73
M8 x 45	30	19	100	2.86
M8 x 50	30	19	100	2.98
M10 x 25	35	38	100	3.76
M10 x 30	35	38	100	3.99
M10 x 35	35	38	100	4.20
M10 x 40	35	38	100	4.45
M10 x 45	35	38	100	4.74
M10 x 50	35	38	100	5.03
M12 x 40*	42	66	100	6.68
M12 x 50*	42	66	100	7.47
M12 x 60*	42	66	100	8.30
M12 x 70*	42	66	100	9.26

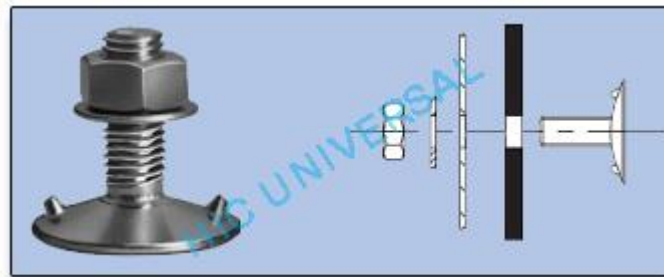
\* Stainless Steel Not Produced

- Installed Bolt Torque Rating Depends on Buckets and Belt Size

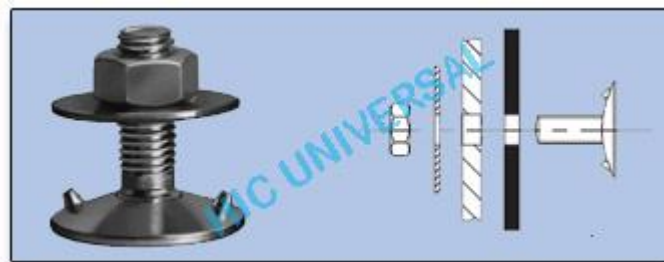
- Not Suitable for Flat Back Plastic Elevator Bucket



For steel buckets with recessed hole use:- bolt, hexagon nut and large domed washer.



for steel buckets with plain hole use:- bolt, hexagon nut and small flat washer.



for plastic buckets use:- bolt, hexagon nut and large flat washer.

## Reference 70 Elevator Bolts

Sizes and Torque of Whitworth or Metric Concave Bolt Head in Steel Material: Technical Specifications



Ref	Head φ (mm)	Max Belt Torque (Nm)	BOLT LENGTH (measured from under the bolt head ) Kg/100								
			1/2"	3/4"	1"	1 1/4"	2"	1 1/2"	1 3/4"	2 1/4"	2 1/2"
			12mm	20mm	25mm	30mm	40mm	45mm	50mm	55mm	65mm
1/4" M6	17	8	1.04	1.18*	1.24*	1.35	1.56	-	-	-	-
5/16" M8	23	20	-	2.24	2.50*	2.66*	2.82*	-	3.30	-	-
3/8" M10	27	36	-	-	3.94	4.06*	4.30*	4.64*	4.88*	5.15	5.54
1/2" M12	35	65	-	-	-	8.56	8.86	9.10	9.96	10.14	-

# Fang Bolts

Sizes, Torque and Length of Food Grain Industry Apt Fanged Elevator Bolt in Steel/Zinc Plated: Technical Specifications



Ref.	Head φ (mm)	Max. Bolt Torque (Nm)	BOLT LENGTH (measured overall)						
			20(mm)	25(mm)	30(mm)	35(mm)	40(mm)	45(mm)	80(mm)
<b>M6</b>	25	8	1.56	1.82	-	-	-	-	-
<b>M8</b>	30	20	-	2.74	3.14	-	3.42	-	-
<b>M10</b>	35	36	-	-	4.62	4.90	5.26	5.14	-

Self color and stainless options available to special order

## 4B EASIFIT BOLTS

Ref.	Head φ (mm)	Max. Bolt Torque (Nm)	BOLT LENGTH (measured overall)						
			¾"	1"	1 ¼"	1 ½"	1 ¾"	2"	
<b>1/4"</b>	25	12	1.82	1.88*	2.04	-	-	-	
<b>5/16"</b>	30	25	2.98*	3.28*	3.36	3.58	3.68	-	
<b>3/8"</b>	32	46	-	4.30	4.70*	5.10*	5.50	5.90	



## Norway Elevator Bolts

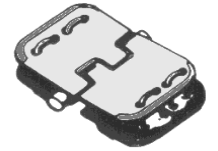
Sizes and Torque of Zinc Plated Steel Square Shoulder Bolt Conforming Grade 2 U.S. Standards Food Grain Industry Apt: Technical Specifications



Size (in.)	Head Diameter Ø (in.)	Max. Torque (ft. lbs.)	Package Quantity	Package Weight (lbs.)
1/4 x 1	1	6	100	2.40
1/4 x 1-1/4	1	6	100	2.55
1/4 x 1-1/2	1	6	100	2.85
1/4 x 2	1	6	100	3.80
5/16 x 1	1-3/16	13	100	4.10
5/16 x 1-1/4	1-3/16	13	100	4.45
5/16 x 1-1/2	1-3/16	13	100	4.80
5/16 x 1-3/4	1-3/16	13	100	5.20
5/16 x 2	1-3/16	13	100	5.60
3/8 x 1	1-1/4	23	100	6.00
3/8 x 1-1/4	1-1/4	23	100	6.60
3/8 x 1-1/2	1-1/4	23	100	7.10
3/8 x 1-3/4	1-1/4	23	100	7.60
3/8 x 2	1-1/4	23	100	8.10

# Staple Belt Lacing Steel Fastener

## Galvanized Steel/Food Grade SS 304 Pre-inserted Staples Fastener Strip : Technical Specifications



STAPLE FASTENER SIZE	MIN PULLEY DIAMETER (MM)	KN/M	MAX BELT-THICKNESS (MM)	HINGE PIN DIAMETER (APPROX.)
RS62	50	17	1.5 to 3	2
RS125	75	28	3 to 4.7	3.6
RS187	102	35	4.7 to 6	5.2

- RS125- 1 Box contains 1200 mm length M/F-8 numbers strips
- RS187- 1 box contains 1500mm Length Male-Female- 8 numbers strips Equals 4 sets of jointing 1500mm Width belts
- Jointing Tool also manufactured

# P14 Wire Hook Type Lacing Fastener

## Medium Duty Conveyor Belt Fastener: Technical Specifications



ORDERING INFORMATION			
FASTENER TYPE	BELT THICKNESS(MM)	MAX WORKING TENSILE	
		PIW	KN/M
MM12	8.0mm – 11.0mm	350	63
P14	8.5mm-14.5mm	450	80

**Disclaimer:** Information's, written and verbal are provided by HIC, relative to its products which it determines to be reliable & no liabilities of whatsoever nature in regards to its uses. The purchaser of UNIVERSAL brand industrial products should determine for itself the suitability of such products.

Vendor Data: [www.hic-india.com](http://www.hic-india.com) | Customers List: [www.universaldelhi.org](http://www.universaldelhi.org) | Catalogue: [www.rubber-steel-industrial-products.com](http://www.rubber-steel-industrial-products.com)

## Purchase Enquiry Info

### Conveyor Belt Fastener and Elevator Bolt Min. *Information* to Be Sent

(Email at: [belts@universaldelhi.org](mailto:belts@universaldelhi.org) ; [universal@hic-india.com](mailto:universal@hic-india.com) or Call +91 11 2874 5120)

HIC ships elevator bolt conveyor belt fastener clipper conforming IS 10288 tailor-made to buyer's order specifications to different countries including India. Please send following information in English to quote prices:

1. Bolt or fastener **Size**
2. **Type**, elevator or conveyor or plate hawk or staples
3. Rubber belt or PVC conveyor **belt Thickness** to hook
4. **Quantity** numbers



## Shipment Handling and Delivery Time

Bulk quantity orders are packed in sea-worthy jute or HDPE in Rolls or Bags shipped via sea in less than container loads (LCL) /FCL or by air. Sea freight (BL) or Air freight (AWB) charges payable at destination.

Small orders are shipped overseas via **DHL** or **FedEx** or **Aramex courier**, for which your Authorization Account number be sent to be booked on "Freight To Collect" basis, together with complete acceptable physical address and phone or mobile number.

**Domestic orders** are dispatched to any destination in **India** by Road Transport, Gati or TCI or ARC or Jaipur Golden on **COD** basis.

**Shipping Time**, generally within 4-6 weeks or as stipulated in quote and accepted order.

## Installation Method of Belt Fastener

*Non Stop Materials Transportation, HIC Safe Conveying*



Place the squared ends of the belt together and nail the template into position, taking care that the plugs on the template are inserted between the belt ends. Bend the nails outwards to prevent the template rising from the belt-surface. Punch the holes, using the appropriate size of special HIC Universal straight sided belt punch.



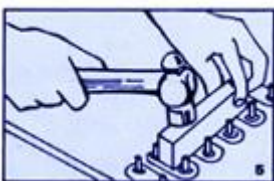
Remove the template. Push the bolt ends through the punched holes ends through punched holes from the underside of the belting.



Place the top plates in position and apply the slotted nuts loosely by hand. Ensure plates are positioned accurately.



Run down each nut evenly with a brace or hand wrench (also produced by HIC Universal).



Hammer the plates into the belt surface using a metal block placed across the fasteners and between the nuts. Again then re-tighten, using the wrench until the top plate is fully bedded into the belt surface.



Break off the protruding ends of the bolts using pair bolt breakers (also manufactured by HIC Universal). Rivet over the ends of the bolts.

## Organization Structure

Industrial supply manufacturing company having dedicated team of 63 skilled work forces includes Rubber Technologist, Chemists, Engineers and Skilled Labor's, Management Experts viz., Plant Manager, Quality Control Inspector, Lab In charge and I.T specialists. Majority of operations are automatic.

## Production Capacity of Conveyor Transport Products

	Approximate Qty. per annum
1. <u>Conveyor Belt Fasteners, Elevator Bucket Bolts</u>	1,00,000 numbers
2. <u>Rubber Conveyor Belts, Elevator Belting, Food Grade PVC Belt</u> <a href="http://www.rubber-steel-industrial-products.com/conveyor-belts-manufacturer/index.htm">http://www.rubber-steel-industrial-products.com/conveyor-belts-manufacturer/index.htm</a>	72,000 meters
3. <u>Conveyor Idlers, Steel Conveyor Rollers</u> <a href="http://www.rubber-steel-industrial-products.com/conveyor-rollers-manufacturer/index.htm">http://www.rubber-steel-industrial-products.com/conveyor-rollers-manufacturer/index.htm</a>	60,000 nos.
4. <u>Conveyor Pulleys, Drive Roller Steel</u>	1,200 nos.

Visakhapatnam Steel Plant (721354), NALCO (3072),  
Subhash Projects (EM-10,18), Heavy Engg. Corp.(6003),  
Bokaro Steel (72621), Salem Steel(000155),  
Gujarat State Road(000118), ACC (944),  
Army Base(512/ABW-LP/76), NTPC(H8267), etc.

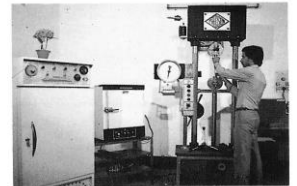
\* Price List & terms on specific enquiry please.

## Quality Assurance Plan

### *HIC Bolts Fastener Testing Parameters*

Quality conveyor-belt fasteners and elevator bucket bolts manufactured in ISO 9001 certified HIC factories in India with Production Supervisors conducting routine pre-manufacture checks and post-manufacture tests as to :

- 100% **Physical checks** with respect to dimensions,
- 100% **Chemical checks** w.r.t. MOC,
- 20% **Random physical tests**



Tensile Strength & Elongation  
Testing Machine

## Test Certificate & Warranty

### *HIC Manufacturer's Lab TC of Belt Fastener Bolts Supplied*

Quality belt fastener conforming IS 10288, DIN 15237, ISO grade 5.8 – HIC manufacturers in-house modern Test Lab Certificate issued with respect to Allowable Working Tension Rating in P.I.W, besides other tests.

Warranty of one year against any manufacturing defects in HIC-manufactured fastener bolt product.

**Third Party Inspections** by DNV, RITES, EIL, QSS, SGS, also arranged in HIC's fastener factory or by Government Approved Laboratory, Test Certificate issue fee charges directly reimbursed by buyers.

**Legalization** by Embassy or Chambers of Commerce **Attestation** of export shipping Invoice and other documents also provided towards export of Indian Origin fasteners products if demanded on actual fee remitted by importers directly to HIC-Universal and or cost added up in Invoice.

## Manufacturing & Testing Equipments



**Belt Press**

Exporters-Importers of industrial products having latest manufacturing machinery and advanced testing equipments.

## Conveyor Products Production Machinery



**Belting Calander**

Banbury Rubber Mixer, Dispersion Kneader(s), Mixing Mill(s) 2 Roll, Calander Machine (3Roll), Jointing Machine, Rubber Bale Cutter, Hydraulic Presses (2 daylight), Hydraulic Press (single daylight), Hydraulic Finishing Press, Belt Endlessing M.C.(Vulcaniser), Sundry Machines viz. Lathes, Shaper, Generator sets, Hydraulic Jacks, etc.

## Rubber Products Quality Testing Apparatus as per ISO :



**Manufacturing Hydraulic Press**

B.O.D. Incubator (seasoning chamber), Hot Air Ageing Oven, Physical Balance, Tensile Testing Machines, Abrasion Tester(as per DIN), Drum Friction Tester (as per Canadian stds), Scott Flex Tester (as per railways), Dumbbell Dies, Yarn Testing Machine, etc. **Calibrated** periodically. Indigenous technology with latest technical Indian knows how, however, no collaboration made so far.

## Quality Control

It is in between process checks that are strongly checked & lodged in register to ensure finished rubber product meeting quality standards.

Test Certificate (TC) of our Lab, wherever, applicable, is **forwarded** along with the supply.



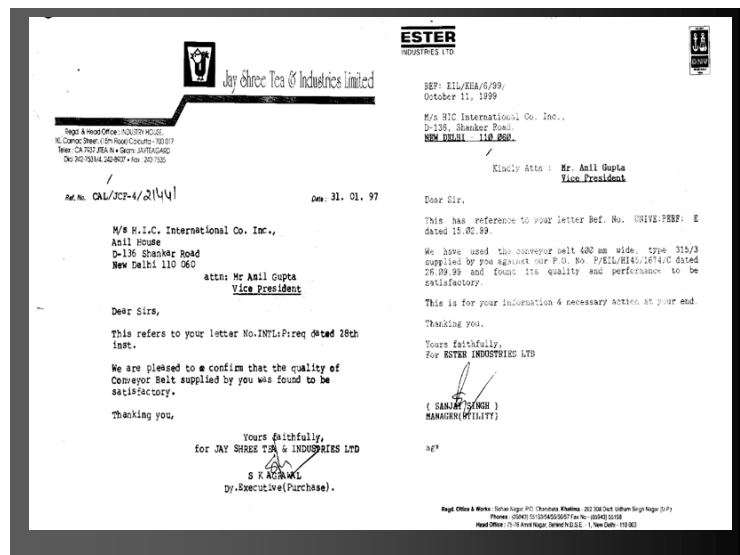
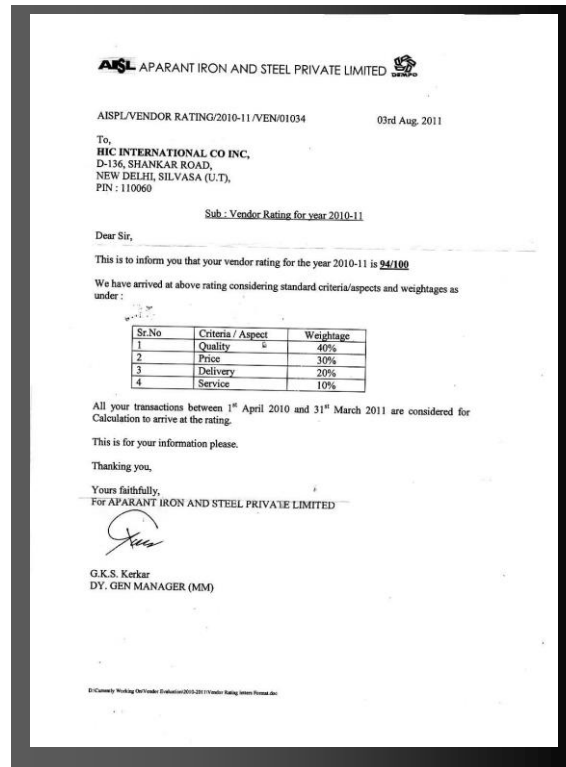
# Performance Certificates



Export Excellence Award  
during Feb 1997



ISO Certificate



# Many more certificates available as feedbacks are constantly monitored for providing highest customer's satisfaction.

## Total Quality Management Principles Followed



# Super-Grip.

# Quick-Fix.

# Food Safe.

## Steel Bolt Fasteners

*TRUSTED BY MACHINERY OEMs OF CRUSHER, RICE MILL, FOOD GRAIN, SEA FOOD, SINCE 1988*

[www.hicbeltfasteners-africa.com](http://www.hicbeltfasteners-africa.com) | [www.pvcbeltjointingmachine.com](http://www.pvcbeltjointingmachine.com)

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*HIC India Headquarters*

