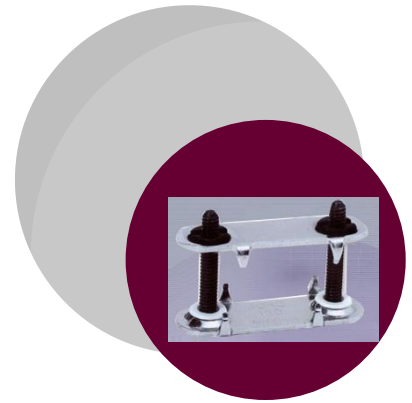
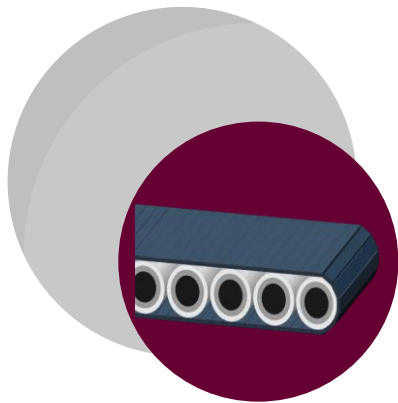


HIC UNIVERSAL

Bulk Transport Conveyor Rubber, PVC Belts and Steel Fasteners



Made in India

Manufactured by HIC INTERNATIONAL CO INC



Technical Specifications





Optimum Production Solutions



and more.....

About HIC

HIC International Co Inc, formed in 1988 manufacturing industrial **rubber and steel** products ISO 9001 certified producer of **Conveyor belt roller idler, 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.



Transport Materials Non-Stop!

Why HIC Universal Conveyor Rubber Belts?



Wear Resistant

to Heat, Fire, Abrasion and Oil

Superb Bonding Synthetic Rubber

Reinforced with EP or Nylon Fabric Ply

No Joint Failure

of Vulcanized Endless Belts

Highest Physical Properties

for Successful Material Handling

Longer Life Transport

Bulk Lumps and Foodstuffs Conveying Solution

Materials handling and goods movement gets safe using conveyor belt made in India by HIC Universal.

HIC Universal rubber conveyor belts are Original Choice by bulk conveyor system manufacturers in India, China, USA, UK, Germany, Mexico, Russia, Turkey, Peru, Canada, Taiwan, Malaysia, Sweden, Tunisia, South Africa, Djibouti, Senegal, Japan, Thailand, Sri Lanka and other Asian countries.

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Manufacturing RANGE and SIZES

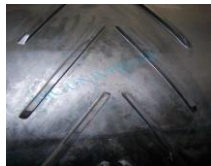
Conforming IS 1891, BS 490, DIN 22102, ISO 4195, IS 3181

CAN/CSA M422 -M87 Type CFRAS - C grade quality standards

Classified under HS Code 4010



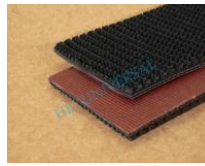
Smooth Surface
Rubber Conveyor
Belt



Chevron Belting
C15 Pattern



Chevron Pattern
YT Cleat Belt



Rough Top
Conveyor Belt



Bucket Elevator
Belt



Hygienic Food Grade
Rubber Belt

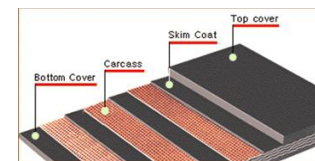
- ❖ Nylon conveyor belts M - N grade rubber 3- 8 ply, 3 x 1.5 mm thick covers min. & above up to 2400 mm W
- ❖ Polyester textile EP Fabric Ply M- N grade belts up to 20mm thick
- ❖ Hygienic Food grade Nylon 3, 4 ply conveyor belting up to 1200 mm W
- ❖ Heat Resistant conveyor belts with 4 x 2 mm thick rubber covers min. & above of HR 120 C
- ❖ Fire Resistant conveyor belts with 3 x 3 mm thick rubber covers min. & above
- ❖ Rough Top belts 3 ply with 3 mm ruff min. thick on top up to 1000 mm W
- ❖ Endless size conveyor belts up to 90 metres max. single length
- ❖ Elevator rubber belts in 2 equal roll lengths
- ❖ PVC Food grade conveyor belts up to 2000 mm W
- ❖ Rough Grip, Ribbed PVC conveyor belts
- ❖ Oil Resistant PVC conveyor belts up to 3000 mm W
- ❖ Conveyor Belt Fasteners Solid Plate Hawk type

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Nomenclature of Conveyor Belt

Tensile Rating and Belt Weight-Widths to Support Load: Technical Data

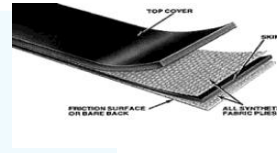


Conveyor Belt Designation EP or NN	Allowable Maximum Belt Tension (ABT) (kN/m)	Nominal Carcass Thickness (mm)	Nominal Carcass Weight (Kg/m ²)	Max. belt Width (mm) for satisfactory load support for material bulk density up to (t/m ³)			Min. belt Width (mm) for Adequate Troughing of Empty Belt		
				1.0	1.6	2.5	20° idlers	30° / 35° idlers	45° idlers
200/2	20	2.2	3.54	650	500	400	250	300	350
250/2	25	2.6	3.90	800	650	500	300	350	400
315/2	31	2.6	4.00	800	650	500	300	350	400
400/2	40	3.2	4.96	1000	800	650	350	400	450
500/2	50	3.8	5.28	1000	800	650	350	400	450
630/2	63	4.6	6.20	1200	1000	800	400	500	600
250/3	25	2.8	3.79	1000	800	650	350	400	450
315/3	31	2.8	3.93	1000	800	650	350	400	450
400/3	40	3.4	4.29	1000	800	650	350	450	500
400/4	40	3.9	5.24	1200	1000	800	400	500	600
500/3	50	3.4	4.44	1200	900	800	350	450	500
500/4	55	4.7	5.72	1400	1200	1000	400	500	600
630/3	63	4.0	5.07	1200	1000	800	400	500	600
630/4	70	4.7	5.92	1400	1200	1000	400	500	600
630/5	70	6.0	7.15	1800	1600	1400	400	650	550
800/4	90	5.5	6.76	1600	1400	1000	450	600	750
800/5	90	6.0	7.40	1800	1600	1400	500	650	750
1000/3	100	6.8	8.34	1600	1400	1200	450	550	650
1000/4	110	6.7	7.36	1800	1600	1400	500	650	800
1000/5	110	7.0	8.45	1800	1800	1600	650	800	900
1250/4	140	8.9	10.36	1800	1800	1600	650	800	900
1250/5	140	8.5	9.20	2000	1800	1800	650	800	900
1400/4	155	9.3	11.12	1800	1800	1600	650	800	900
1400/5	155	11.3	12.95	2000	1800	1800	800	900	1000
1500/5	165	11.3	12.95	2000	1800	1800	800	900	1000
1500/6	165	10.3	11.04	2000	2000	1800	800	900	1000
1600/4	180	10.4	12.36	2000	1800	1600	650	750	900
1600/5	180	11.8	13.90	2000	1800	1800	800	900	1000
1600/6	180	13.7	15.54	2400	2000	2000	1000	1200	1400
1800/6	200	13.7	15.54	2400	2000	2000	1000	1200	1400
2000/4	220	11.8	14.48	2000	2000	1800	800	1000	1200
2000/5	220	13.2	15.45	2400	2000	2000	1000	1200	1400
2000/6	220	14.3	16.68	2400	2000	2000	1000	1200	1400

Wear-proof

Strong

Heat Protected


HIC
UNIVERSAL
 True Performance Rubbers


Rubber Cover Grades

Conveyor Belt Service Material Rubber Coatings: Technical Specifications

Rubber Belt Grade	Conforming To Standards	Applications			Belt Physical Properties		
		Belt Characteristic	Industrial Materials Handling Reference	Material Temperature Range	Av. Tensile Strength Belt (Min) Kg/Cm	Av. Elongation (Min.)%	Rubber Abrasion (Max.) mm ³
Belt Conveyor Mine, Belt Coal Conveyor, Rubber Belt, Limestone Quarry Conveyor		GENERAL PURPOSE					
M-24 ('M', 'A')	IS: 1891 (Part I) BS: 490(Part I)	High tensile strength and superior in abrasion cut and gauge resistance. Recommended for transporting highly abrasive materials.	Metallic Ore, Coke stone, Copper Ore Limestone, Broken glass, etc.	(-)45°C to + 60°C	245	450	150
Fly Ash Conveyor Belt, Husk Conveyor Belt, Shot Blaster Belt		GENERAL PURPOSE					
N-17 (N or S)	IS: 1891 (Part I) BS: 490 (Part I)	Recommended for transporting moderately abrasive and non-abrasive materials.	Coal, Wood chips, Fine ores, Clay Unground, Cement etc.	(-)35°C to + 60°C	175	400	200
Fine Sand Conveying Belt, Hard Rock Mining Belt		GENERAL PURPOSE					
W				(-)45°C to + 60°C	180	400	90
X					250	450	120
Y					200	400	150
Z					180	400	90
RMA 1					170	400	150
RMA 2					140	400	250
Synthetic Rubber Conveyor Belt, Urea Handling Belt		SPECIAL PURPOSE					
H-TEX (SAR)	Mfd. to our Universal Standards	Moderate tensile strength and excellent in abrasion resistance exclusively manufactured by us.	Copper ore, Fertilizers, Sand, etc.	(-)45°C to + 80°C	110	400	100
Hot Belt, Clinker Handling Belt, Feeder Belting		HEAT RESISTANT					
Universal BLAZE (HR)	IS: 1891 (Part I) T1	Super in heat and abrasion resistant.	Cement, Chemicals, Soda ash, etc.	+ 65°C to + 120°C	130	350	250
Universal BETAPLUS (Super HR)	IS: 1891 (Part II) T2	Heat and abrasion resistant.	Cement clinker, Foundry Sand, Sintered ore, etc.	+ 65°C to + 150°C	130	350	250
Universal SUN (Superior HR)	Mfd. to our Universal Standards	Surface of rubber cover hardens by heat and shallow cracks occasionally. <i>* Also, Ultra Heat Resistant up to 200°C manufactured with minimum 7 x 3 mm cover thickness recommended</i>	Iron pellet, Hot coke, Burnt limestone, etc.	+ 65°C to + 180°C	110	350	250
Conveyor Belting		OIL RESISTANT					
OR	IS: 1891 (Part III)	Excellent resistance to mineral, vegetable and animal oils.	Materials with crude petroleum Tar sand, Oil sand, etc.	(-)25°C to + 60°C	125	250	350
Food Quality Rubber Belt, CTC Tea Processing Machine Belt White Color		HYGIENIC FOOD					
HYGIENIC	IS: 1891 (Part IV)	Non-toxic, tasteless and odourless. Recommended for handling foodstuffs.	Tea, Coffee, Pharmaceuticals, etc.	(-)20°C to + 60°C	100	350	350
Industrial Conveyor, Power Station Rubber Belt, Coking Machinery Belt		FIRE RESISTANT					
FR	ISO 284	Fire resistance and anti static.	Coal, Coke, Sulphur, etc.	(-)45°C to + 60°C	110	400	200

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(Remarks)* Testing method of abrasion as per DIN22101 #sub to (-20% tol.)

Special cover grades have also been developed depending upon service conditions, viz., Chemical Resistant & HTR rubber grade.

** Weight of rubber cover (approx.) = 0.034 kg / 25 mm width / per 1 mm thick / per meter length.

*** Manufactured upto **2400 mm** widths

Weight of nylon conveyor belt of **650 mm** wide x 315/3 x 3/1.5 mm covers of 100 mtr. long = **600 kgs** approx. @ Conveyor carrying capacity of 800 mm wide belt is approx 140 tons/hour at belt speed of 45 mtr / min.

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.

Installation Method of Conveyor Belts

Safe Materials Handling, HIC Nonstop Conveying Tips

- **Pulley Size** of head 400mm & tail 315mm min be used up to 5.5mm inner thickness of 3/4ply belt and not less than min. diameter suggestions else ply separation & slippage problem can happen.
- **Materials Build-up** on pulleys & idlers should be removed periodically to avoid belt damage & misalignment.
- **Endlessing** be done in **V-shaped** using **Hot Vulcanizing compound joined squarely**; else belt will run to one side or off-center. Use fasteners only on 25% more strength belt, else life will reduce
- **Water Sprinkling** for **HR** grade belts (using thicker cover) is done at tail pulley for **better life** & never stop belt loaded with hot malt.
- **Unhampered Production** even if **Blemishes** or patches are visible at times, nothing to interfere performance. Similarly, **Wrinkles** are also **not inner ply fabric** used but liner cloth & cellophane paper impression marks of belt curing press, be left unattended.
- **Edges** mfd are **cut** for NN&EP fabric and **moulded** type for Cotton.
- **Joints** in fabric ply at times are used of usually **higher strength**.
- **Belt Rating** of 3ply Nylon fabric min.(type315/3) up to 800 kg/m³ material bulk density for **max. 800mm** belt width & min. **4ply NN** (strength**630/4** KN/m) upto1500kg/m³ mbd for **max. 1200mmW** be used though carrying capacity, speed, etc factors are considered.
- **Cover Grade** of M24 with **min. top 3mm & 1.5mm** bottom for **abrasive** materials, for **hot materials >65C up to 120C** temp 4x2mm min **BLAZE (HR)** & for malt **up to 150C** 6x2.5mm min. **BETAPLUS(SHR)** be used.

* **Size Variation** (+, -1.5% Width; +, -10% Thickness; +5%,-1% Length) as per mfg tolerances should be acceptable.

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Purchase Enquiry Info

EP or Nylon Conveyor Rubber Belt Min. Information to Be Sent

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

HIC ships rubber conveyor belt made of EP fabric or Nylon textile Ply layers conforming IS 1891 tailor-made to buyer's order specifications to different countries including India. Please send following information in English to quote prices:

1. Belt **Width** mm
2. Belt **Strength Rating** class
3. **Ply**
4. **Top** rubber cover thickness mm
5. **Bottom** rubber mm
6. Rubber quality **Grade**
7. **Application** of transport material characteristics-lump size-operating temperature
8. **Quantity** Open Ends roll lengths in meter or Endless loop length



Transfer Food-stuffs Toxic-Free !

Why HIC Universal PVC Conveyor Belts?



Highest Wear Resistance

Non-Toxic Food Grade
Ensures Safe Transfer of Eatables

Smell and Stains Free
Transfer Being Fats Resistant

Light Weight
Helps Easy to Install

Long Life
Reliable Light Materials Conveying Solution

Food products transfer like vegetables, mineral oils, meat, other food-stuffs conveying gets safe to eat using PVC conveyor belts made in India by HIC Universal.

HIC Universal PVC conveyor belt and PU belt are **Original Choice** by food machinery conveyor belt system manufacturers in India, China, USA, UK, Germany, Finland, Sweden, New Zealand, Mauritius, Algeria Africa, Fiji, Japan, Singapore, Indonesia, UAE, and other Asian countries.



Manufacturing RANGE and SIZES

Conforming FDA, BS 2890, DIN 22102, AS 1332 quality standards

Classified under **HS Code 3926**



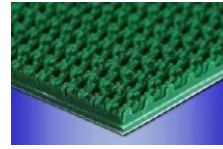
PVC White Top Diamond Bottom Food Grade Belt



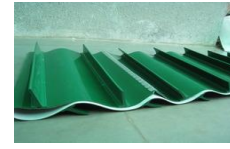
2 Ply PVC Food Quality Belt



Green PVC Conveyor Belt



Rough Top Grip Green PVC Belt



Cleated PVC Conveyor Belt



PU Belt

- ❖ 2-ply white PVC belt, thickness 2 mm
- ❖ 2-ply white PVC belt, thickness 2.6 mm, **cross-stiff**
- ❖ 2-ply white PVC belt, thickness 3.1 mm, underside negative pyramid profile (NP)
- ❖ 3-ply white PVC belt, thickness 4.2 mm, **cross-stiff**
- ❖ 2-ply blue-green PVC belt, thickness 2 mm, antistatic
- ❖ 2-ply blue-green PVC belt, thickness 2.6 mm, **rigid**, antistatic
- ❖ 2-ply green PVC belt, thickness 2.7 mm, underside negative pyramid profile (NP)
- ❖ 3-ply green PVC belt, thickness 4 mm, **cross-stiff**
- ❖ 3-ply green PVC belt, thickness 4.2 mm, underside negative pyramid profile (NP), **cross-stiff**
- ❖ 2-ply grey PVC belt, thickness 2.7 mm, top grip structure "minigrip"
- ❖ 2-ply green PVC belt, thickness 5.4 mm, **top grip** structure
- ❖ 2-ply green PVC belt, thickness 3 mm, top grip structure "longitudinal ribs"



Nomenclature of PU White Conveyor Belt

Tensile Strength and Total Thickness to Support Load: Technical Data

	Units	Data
Technical Characteristics		
Construction		PU + Polyester Mono-Filament fabric
No. of Plies		2
Total Thickness	mm	1.5
Standard Width	mm	1,950
Total Weight	Kg/sq.m	1.56
Tensile Strength	N/mm	120
Load at 1% Elongation	N/mm	6
Temperature Resistance	0	-10 ~ +100(Short time MAX. 150)
Food Suitability		Meet the stipulations of FDA
Top Cover		
Material	-	PU
Color	-	White
Surface	-	Gloss
Hardness	°Shore A	90
Underside Finish		
Material		Polyester Mono-Filament Anti-Static Fabric
Surface		Fabric
Min. Pulley Dia		
Normal Flexing	mm	30
Back Flexing	mm	40

PVC Conveyor Belt Rough Top

Tensile Strength, Total Thickness for Tyre Industry: Technical Specifications

	Units	Data
Technical Characteristics		
Construction		PVC + Polyester Mono-Filament fabric
No. of Plies		2
Total Thickness	mm	5.0
Standard Width	mm	2000
Total Weight	Kg/sq.m	5.00
Tensile Strength	N/mm	200
Load at 1% Elongation	N/mm	11
Temperature Resistance	0	-10 ~ +100(Short time MAX. 150)
Food Suitability		NO
Top Cover		
Material	-	PVC
Color	-	Petrol Green
Surface	-	Rough Top
Hardness	°Shore A	90
Underside Finish		
Material		Polyester Mono-Filament Anti-Static Fabric
Surface		Fabric
Min. Pulley Dia		
Normal Flexing	mm	70
Back Flexing	mm	90

ALL VALUE HAS TOLERANCE.

HIC BELIEVE THIS INFORMATION IS THE BEST CURRENTLY AVAILABLE SPECIFICATION AND ABOVE AVERAGE OF OUR TEST RESULT.

HIC MAKE NO GUARANTEE OF RESULTS AND ASSUMES NO OBLIGATION OR LIABILITY WHATSOEVER IN CONNECTION WITH THIS INFORMATION.

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Purchase Enquiry Info

PVC Conveyor Belting and PU Belts Min. *Information to Be Sent*

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

HIC ships PVC conveyor belting conforming BS 2890 tailor-made to buyer's order specifications to different countries including India. Please send following information in English to quote prices:

1. Belt **Width** mm
2. Thickness mm
3. **Ply**
4. **Bottom** PVC or bare fabric
5. **Colour** - green or black or white x PVC or PU quality
6. **Grade** Food grade FDA or Rough Top surface or non-food oil resistant
7. **Quantity** - Open Ends roll lengths in meter or Endless loop length





Fasten Belting Worry-Free !

Why HIC Universal Conveyor Belt Fastener & Elevator Bolts?



High Tensile Strength

Chamfered Steel Metal Plate Ensures Friendliness to Belt Scraper

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.

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Manufacturing RANGE and SIZES

Conforming IS 10288, DIN 15237, ISO grade 5.8 quality standards

Classified under HS Code 8428



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 3/4 inch x 3/4 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 3/4 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 3/4, 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



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

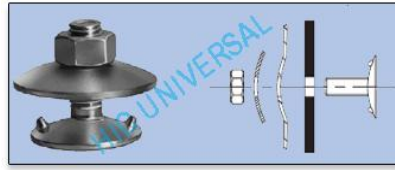


Bolt Size(mm)	Head Diameter Ø(mm)	Max. Torque(Nm)	Quantity Numbers per Package	Weight Approx. per Pack of 100(kg)
M6 x 20	21	8	100	0.97
M6 x 25	21	8	100	1.04
M6 x 30	21	8	100	1.07
M7 x 20	23	13	100	1.34
M7 x 25	23	13	100	1.47
M7 x 30	23	13	100	1.61
M7 x 35	23	13	100	1.75
M8 x 20	30	19	100	2.17
M8 x 25	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

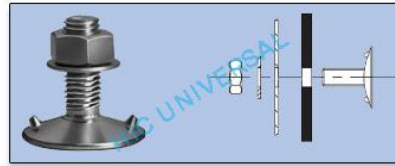
* Stainless Steel Not Produced * Installed Bolt Torque Rating Depends on Buckets and Belt Size * Not Suitable for Flat Back Plastic Elevator Bucket

Vendor Data: www.hic-india.com | Customers List: www.universaldelhi.org | Catalogue: www.rubber-steel-industrial-products.com





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								
			12mm	20mm	1"	1 ¼"	2"	1 ½"	1¾"	55mm	65mm
			25mm	30mm	40mm	45mm	50mm	55mm	65mm		
¼" 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
½" 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)
M6	25	8	1.56	1.82	-	-	-	-	-
M8	30	20	-	2.74	3.14	-	3.42	-	-
M10	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"
1/4"	25	12	1.82	1.88*	2.04	-	-	-
5/16"	30	25	2.98*	3.28*	3.36	3.58	3.68	-
3/8"	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

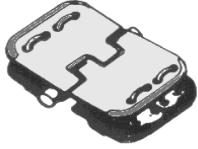


Size (in.)	Head Diameter Ø (in.)	Max. Torque (ft. lbs.)	Package Quantity	Package Weight (lbs.)
1/4 x 1	1	6	100	2.40
1/4 x 1-1/4	1	6	100	2.55
1/4 x 1-1/2	1	6	100	2.85
1/4 x 2	1	6	100	3.80
5/16 x 1	1-3/16	13	100	4.10
5/16 x 1-1/4	1-3/16	13	100	4.45
5/16 x 1-1/2	1-3/16	13	100	4.80
5/16 x 1-3/4	1-3/16	13	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.



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.



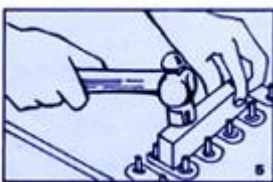
Remove the template. Push the bolt ends through the punched holes ends through punched holes from the underside of the belting.



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.



Purchase Enquiry Info

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

(Email at: belts@universaldelhi.org ; 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



Quality Assurance Plan

HIC Conveyor Belts, PVC Belts & Steel Fasteners Testing Parameters

Quality Rubber Conveyor Belts, PVC Belts and Steel Fasteners 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

Note: Test Certificate of HIC's Lab forwarded along-with supplies. Fully geared up to provide Third Party Inspection at buyer's cost.

Production Capacity of Conveyor Transport Products

	Approximate Qty. per annum
1. Conveyor Belts, Heat Resistant Rubber Belt Food Belt http://www.rubber-steel-industrial-products.com/conveyor-belts-manufacturer/index.htm	72,000 meters
2. Belt Fasteners, Mechanical Fasteners	1,00,000 numbers
3. Conveyor Idlers, Steel Conveyor Rollers http://www.rubber-steel-industrial-products.com/conveyor-rollers-manufacturer/index.htm	60,000 nos.
4. Conveyor Pulleys, Drive Roller Steel	1,200 nos.

Vendor Data: www.hic-india.com | Customers List: www.universaldelhi.org | Catalogue: www.rubber-steel-industrial-products.com





Performance Certificates

IKVQA **ISO 9001**

Certificate of Registration

(Quality Management System)

KVQA CERTIFICATION SERVICES PVT. LTD.

This is to certify that the Quality Management System of **HIC INTERNATIONAL CO INC**
D-136, Shankar Road, New Rajinder Nagar,
New Delhi-110060, India

Has been found to be of the Quality Management System Standard
NS-EN ISO 9001:2008/ISO 9001:2008

This certificate is valid for the following product or service range
Dealing into Industrial Conveyor Belts Idlers, Drive Couplings Pulleys, Hydraulic Hoses Valves, Rubber Sheets.

Certificate No: IQSC-1960
Date of Issue: 01, June, 2010
Valid until: 31, May, 2013

1st Surveillance Date on: 24/05/2011
2nd Surveillance Date on: 05/05/2012

Issued by: [Signature]

Authorised signatory: KVQA

The certification body's accreditation is accredited by the Norsk Akkreditering of Norway with reference to the Parliamentary Proposition no 186 (1989/90) and Norsk Akkreditering's the status laid down in Royal Decree of 27th October 1993. Accredited by a member of IAF's MLA for Quality Systems.

इंदियन ऑयल कॉर्पोरेशन लिमिटेड
Indian Oil Corporation Limited
DEWARATARI BLDG, P.O. DEWARATARI, DEWARATARI, DELHI-110060
PHONE : 261184, 260568, 261100 BUNGLO. DEWARATARI, DELHI-110060

Reference: GDR/TB/18/58/09/70/95/24 date July 19, 1999

To: M/S HIC International Co., Inc. Attn: Mr. Anil Gupta, Vice President
Bangalore Road, New Delhi-110060
Fax No: (011) 875 5000

Subject: Rubber Conveyor Belt of DCU at Guwahati Refinery

Dear Sir,

Agsn: our purchase order reference no. BQ/9832542/1/750 dated 15/01/99, the conveyor belt supplied by you has been put to use. The date the performance is satisfactory. However, on review it is been noticed that the belts used to be procured with the following specifications earlier. The performances of the belts were very good. In view of the above, please let us know whether you can take up manufacturing as per this specification or not.

- SMM 'Debarat' Brand Cotton Fabric Rubber Conveyor Belt
- 700 mm wide S 200 type fabric 3200
- 4.0 mm top & 1.0 mm bottom rubber cover
- Croche '10"

Thanking you,

Yours truly,
For & on behalf of IOCL
Guwahati Refinery
[Signature]
O. S. Aithya
Engineering Services Manager

Andhra Cements Limited
Raghu Chitra & Factory, BURGA CEMENT WORKS, Ruggudem
Dabhapalli - 522 414, Guntur Dist. (A.P.)
Phone : (08549) - 57429, 57556, 57430. Fax: (08549) - 57429 Guntur, Ruggudem.

ICM/SR(MECH)/99-99/47
December 26, 1998

M/S H.I.C. International Co., Inc.
Bangalore Road
New Delhi - 110 060.

Kind Attn: Mr. Anil Gupta
Vice President

Dear Sir,

Kindly refer your letter No. INTL-PERF dated 10th Dec. 98 addressed to our Vice President (Mech) regarding performance of Rubber conveyor belting supplied by you against our PO No. ACL/PO/935 dated 17/11/98. In this connection, we would like to inform you that the conveyor belting which you had supplied is working satisfactorily and upto our expectation.

We would request you to kindly send us the literature/pamphlets regarding V-belt, Rubber hoses, SS bellon hoses, Idlers, V-belt pulleys, Tyre couplings and Ball valves which you are manufacturing.

Thanking you,

Yours faithfully,
For ANDHRA CEMENTS LIMITED
[Signature]
H. GOPALAKRISHNAN
SR MANAGER (MECH)

SAKTHI SUGARS LIMITED
Sakthi Sugars Limited, Sakthi Sugars Limited, Sakthi Sugars Limited, Sakthi Sugars Limited

LETTER OF AWARD

To: M/S H.I.C. INTERNATIONAL CO INC Attn: Mr. Anil Gupta, Vice President
Bangalore Road, New Delhi-110060

From: R. N. PANDA
Dy. Manager - MATERIALS
CELL: 09937991063

Ref: Your letter dated 11.3.2008.

We refer to the above, we state here that we had placed on you a purchase order for the material of quantity of 18 metric tons, vide our Purchase order No. CCT/PS/24/2008/05 dated 23.3.2008. The above order had been supplied by you on 25.11.2008 and the same had placed in use of our letter above. The performance of the belt applied by you is satisfactory.

Thanking you,

Yours faithfully,
[Signature]
GENERAL MANAGER

Kerala Co-operative Milk Marketing Federation Limited
Cattle Feed Plant, Pattanamal P.O., Alleppey - 689 531

No. CCT/PS/24/2008/05 18.10.2008

To: M/S H.I.C. INTERNATIONAL CO INC Attn: Mr. Anil Gupta, Vice President
Bangalore Road, New Delhi-110060

Re: Your letter dated 11.3.2008.

We refer to the above, we state here that we had placed on you a purchase order for the material of quantity of 18 metric tons, vide our Purchase order No. CCT/PS/24/2008/05 dated 23.3.2008. The above order had been supplied by you on 25.11.2008 and the same had placed in use of our letter above. The performance of the belt applied by you is satisfactory.

Thanking you,

Yours faithfully,
[Signature]
GENERAL MANAGER

SHARAT HEAVY ELECTRICALS LTD. (Jhansi)
(A Government of India undertaking)
P.O. BHEL, JHANSI - 226139
Ph. 0517- 2412669, 2412674. FAX 2412120 Email: tkverma@bheljhs.co.in

MATERIAL MANAGEMENT
Supplier Development Cell

To: M/S H.I.C. INTERNATIONAL CO. INC. H90710
H.C.D. ANIL HOUSE, D-136
SHANKAR ROAD
NEW DELHI-110060
NEW DELHI 110060

Ref: GDC/PM/24
Date: 16-JUN-09
Subject: Supplier Performance Rating

Dear Sir,

Supplier Performance is evaluated by considering weightage for quality as 60% for delivery as 30% and for service as 10%. Based on rating thus obtained, categories are made as A (preferred supplier) for score between 90 and 100 - A for 90 and 97, B between 75 and 87, C between 60 and 74 and D below 60.

Your VENDOR PERFORMANCE RATING is as under:

Rating Factors	QR	DR	SR	Total = QR + DR + SR
Points Obtained	60	30	10	100

Rating: A1

You are requested to please consider above as a feedback on your performance. The period for calculation of SPR is previous year or period for last 3 executed PO's whichever is more.

Note: In case supplier needs any assistance from BHEL for improvement, Concerned Buying Group (PM Deptt) may be contacted.

With best Regards,
Y. K. VERMA
SR PURCHASE OFFICER (GDC)

This is a computer generated output, signature is not required.

APARANT IRON AND STEEL PRIVATE LIMITED

ASPL/VENDOR RATING 2010-11/VEN/0104 08th Aug 2011

To: HIC INTERNATIONAL CO INC, D-136, SHANKAR ROAD, NEW DELHI, DELHI-110060, INDIA.

Sub: Vendor Rating for year 2010-11

Dear Sir,

This is to inform you that your vendor rating for the year 2010-11 is **54/100**.

We have arrived at above rating considering standard criteria/ aspects and weightage as under:

Sl. No.	Criteria/Aspect	Weightage
1	Quality	40%
2	Price	30%
3	Delivery	20%
4	Service	10%

All your transactions between 1st April 2010 and 31st March 2011 are considered for calculation to arrive at the rating.

This is for your information please.

Thanking you,
Yours faithfully,
For APARANT IRON AND STEEL PRIVATE LIMITED
[Signature]
G.K.S. Karkar
DY. GEN MANAGER (M&M)

ESTER INDUSTRIES LIMITED
Rajabhai Veda Industries Limited

Ref: GDR/TB/18/58/09/70/95/24 date July 19, 1999

To: M/S H.I.C. INTERNATIONAL CO. INC. Attn: Mr. Anil Gupta, Vice President
Bangalore Road, New Delhi-110060

Re: Your letter dated 11.3.2008.

We refer to the above, we state here that we had placed on you a purchase order for the material of quantity of 18 metric tons, vide our Purchase order No. CCT/PS/24/2008/05 dated 23.3.2008. The above order had been supplied by you on 25.11.2008 and the same had placed in use of our letter above. The performance of the belt applied by you is satisfactory.

Thanking you,

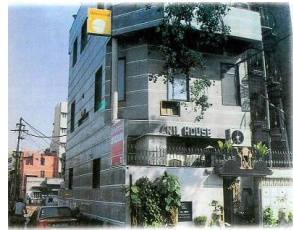
Yours faithfully,
For ESTER INDUSTRIES LIMITED
[Signature]
S. K. VERMA
Sr. Manager (Purchase)

Total Quality Management Principles Followed

Vendor Data: www.hic-india.com | Customers List: www.universaldelhi.org | Catalogue: www.rubber-steel-industrial-products.com



NO MORE
CONVEYORS
MATERIAL MOVEMENT STANDSTILL!



HIC India Headquarters

HIC International Co Inc

D-136, Shankar Road
New Delhi 110060 India | Asia

Phone: + 91 (011) 2874 5120, 6547 2400, 3296 1400

Fax: 009111 28742791

E-mail: universal@hic-india.com, belts@universaldelhi.org

Contact Person: Mr Anil Gupta - President, Ms Priyum - Exports Head

Skype ID: anilguptahic