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All information and indications given in this brochure are correct to the best of our knowledge and represent a true reflection of our current technology and experience. Due to ongoing developments, however, certain details may soon become obsolete. We can accept no responsibility for errors or omissions in recommendations given in the brochure.

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**TEXTILE CONVEYOR  
BELTING AND  
ACCESSORIES**





a b o u t . . .



C o n v e y o r B e l t R a n g e



FORECH-HILTON is the Brand for a group of Companies, focused on meeting the needs of the Mining & Mineral Processing and



Cheyyar, Tamilnadu

construction Industry related to bulk material handling; wear protection and environment management.

The Group started its activities in the year 1972 with initial focus on Conveyor Belts. Gradually, with the



Dhaturi, Haryana

induction of new technologies and systems its activities have grown, to cover the rubber based needs of the above industry segment specifically in Crushing, Screening & Material Handling area.

FORECH-HILTON Conveyor Belts are produced at two locations of the company, with a production capacity of 9000 tons / annum.

Our products include a comprehensive range of Conveyor Belts, Rubber Lining materials both for Wear and Chemical Resistance, composites made of Metals, Ceramics, Textiles and Rubbers, Repairs and Splicing materials required for the above industrial segment. The continuous growth which



Rai, Haryana

FORECH-HILTON have shown in the past is a result of efficient production processes and keeping a close contact with all the areas where these products are being used. Today

the group exports its products to



over 50 countries around the world, which constitute to almost 55% of its turnover and endeavors to become a one-stop-shop to meet all the rubber related needs of the mining and mineral processing industry.

The group holds its prominent position in this field on account of a constant search for improvement and further development based on customer needs and responses.



In search of excellence the group has also been assisted by global brand leaders in their respective fields of Conveyor Belts, Wear Resistant Components, Rubber Sheeting, Repair and Splicing Systems.

**FORECH-HILTON** Conveyor Belts are offered in a standard range manufactured in two to six plies. This enables selection of the most appropriate construction for every conceivable application.

**FORECH-HILTON** has modern mixing Plants with automatic Carbon and Process Oil feeding system to take care of not just the product quality, but the environmental concerns as well.

**FORECH-HILTON** Conveyor Belting complies with all known international standards. It can work in areas of bulk material handling from the lightest to the most difficult of the working conditions, be it in the Stone Quarrying or Earth moving industry, in the Steel, Cement or Mining Industry.

**Special Low Rolling Resistant Belts**

Increasingly, energy costs are going up and are expected to go up even further in the future. FORECH-HILTON offers Low Rolling Resistance (LRR) compound for all general purpose applications and FR applications, which has reduced rolling resistance and hence the energy consumption of the belt while traveling gets reduced considerably. Details of this are available on request.

**Belt Carcass**

The carcass consists of wholly synthetic fabrics covering both Polyamide-Polyamide (NN) and Polyester-Polyamide (EP) and Aramid construction. Cotton Cotton constructions are also available.

Special fabric weaves are also offered for applications requiring high anti-tear and high flex properties. Specially designed carcass belts are offered by FORECH-HILTON for special application considerations.

For applications where tear is a concern, Textile or Steel Rip-Check Breakers are available

The interply rubber layers are of a special resilient rubber offering maximum resistance to impact and to cope with all mechanical and thermal requirements.

**Belt Width**

The belts are available in standard widths in full ply width upto 2400mm.

**Belt Edges**

Belt edges can be given in both cut and sealed (moulded) edges.

**Cover Qualities**

The top and the bottom covers provide protection to the carcass. Cover quality is always selected according to the material to be conveyed and the service conditions. FORECH-HILTON offers a wide range of cover qualities conforming to Indian & international standards to suit various application areas.

<b>General Purpose</b>	X - DIN 22102 Y - DIN 22102 W - DIN 22102 Z - DIN 22102	M-24 IS 1891- I N-17 IS 1891- I M/N AS 1932 M/N SABS/1173	H - ISO 10247 D - ISO 10247 L - ISO 10247	RMA GR I & II
<b>Heat Resistant</b>	T1 100 - 120 Deg C	IS 1891 - II	ISO-4195 - 1 & 2	
	T2 125 - 150 Deg C	IS 1891 - II	ISO-4195 - 1 & 2	
	T3 150 - 200 Deg C	FORECH-HILTON STANDARD	ISO-4195- 1& 2	
<b>Oil &amp; Grease Resistant</b>	G-DIN	IS 1891 - III		
<b>FDA Compliant Food Grade Antistatic White Nitrile</b>		IS 1891 - IV		
<b>Fire and Flame Resistant</b>	CSA-M422-M87	IS 1891 - V	ISO 340 ISO 284	AS 4606

Low Rolling Resistant belt covers are also available for general purpose as well as fire resistant grades.



We have in-house testing facilities in labs approved by NABL

## BELT SELECTION CHART NYLON/NYLON (NN) BELTS

Belt Type	Maximum Recommended Working Tension kN/m	Nominal Carcass Thickness (mm)	Carcass Weight (kg/m <sup>2</sup> )	Pulley Diameters (mm) *			Min. Belt Width (mm)	Maximum Belt Width for Satisfactory Load Support. (mm) **			
				A	B	C		Material Weight in Tons/m <sup>3</sup>			
								<0.75	0.75 - 1.5	1.5 - 2.5	2.5 - 3.2
FH250/2	25	2.5	2.60	315	250	200	300	800	600	-	-
FH315/2	31.5	2.7	2.90	315	250	200	400	800	800	-	-
FH315/3	31.5	2.7	3.20	400	315	250	400	1000	800	650	-
FH400/3	40	3.2	3.50	400	315	250	400	1200	1000	800	-
FH400/4	40	3.8	4.50	500	400	315	650	1400	1200	1000	-
FH500/3	50	3.5	4.00	500	400	315	500	1200	1000	800	-
FH500/4	50	4.2	4.80	500	400	315	650	1600	1400	1200	1000
FH500/5	50	4.9	5.60	630	500	400	650	1600	1400	1200	1000
FH630/3	63	3.8	4.50	500	400	315	500	1400	1200	1000	800
FH630/4	63	4.8	5.40	630	500	400	650	1600	1400	1200	1000
FH630/5	63	5.7	6.10	630	500	400	800	2000	1800	1600	1400
FH800/3	80	4.8	5.10	500	400	315	650	1600	1400	1200	1000
FH800/4	80	5.3	6.10	630	500	400	650	1800	1600	1400	1200
FH800/5	80	6.2	6.80	800	630	500	800	2000	1800	1600	1400
FH1000/4	100	6.1	7.00	800	630	500	800	2000	2000	1800	1600
FH1000/5	100	6.8	7.80	800	630	500	1000	2000	2000	2000	1800
FH1000/6	100	7.5	8.30	1000	800	630	1000	2000	2000	2000	2000
FH1250/4	125	7.1	8.20	800	630	500	1000	2000	2000	2000	2000
FH1250/5	125	7.8	8.90	1000	800	630	1000	2000	2000	2000	2000
FH1250/6	125	8.3	9.40	1000	800	630	1000	2000	2000	2000	2000
FH1400/4	140	8.0	9.80	1000	800	630	1000	2000	2000	2000	2000
FH1600/5	160	9.5	10.40	1000	800	630	1200	2000	2000	2000	2000
FH1600/6	160	10.0	10.80	1250	1000	800	1200	2000	2000	2000	2000
FH1800/5	180	10.5	11.65	1250	1000	800	1200	2000	2000	2000	2000
FH1800/6	180	11.1	12.24	1400	1250	800	1200	2000	2000	2000	2000

## BELT SELECTION CHART POLYESTER / NYLON (EP) BELTS

Belt Type	Maximum Recommended Working Tension kN/m	Nominal Carcass Thickness (mm)	Carcass Weight (kg/m <sup>2</sup> )	Pulley Diameters (mm) *			Min. Belt Width (mm)	Maximum Belt Width for Satisfactory Load Support. (mm) **			
				A	B	C		Material Weight in Tons/m <sup>3</sup>			
								<0.75	0.75 - 1.5	1.5 - 2.5	2.5 - 3.2
FH250/2	25	2.4	2.98	315	250	200	300	800	600	-	-
FH315/2	31.5	2.7	3.35	315	250	200	400	800	800	-	-
FH315/3	31.5	3.0	3.72	400	315	250	400	1000	800	650	-
FH400/2	40	3.1	3.50	400	315	250	400	800	800	650	-
FH400/3	40	3.2	3.97	400	315	250	400	1200	1000	800	-
FH400/4	40	4.2	5.21	500	400	315	650	1400	1200	1000	-
FH500/3	50	3.6	4.46	500	400	315	500	1200	1000	800	-
FH500/4	50	4.4	5.46	500	400	315	650	1600	1400	1200	1000
FH500/5	50	5.3	6.57	630	500	400	650	1600	1400	1200	1000
FH630/3	63	4.0	4.96	500	400	315	500	1400	1200	1000	800
FH630/4	63	4.9	6.08	630	500	400	650	1600	1400	1200	1000
FH630/5	63	5.6	6.94	630	500	400	800	2000	1800	1600	1400
FH800/3	80	4.9	5.58	500	400	315	650	1600	1400	1200	1000
FH800/4	80	5.5	6.82	630	500	400	650	1800	1600	1400	1200
FH800/5	80	6.2	7.69	800	630	500	800	2000	1800	1600	1400
FH1000/4	100	6.2	7.69	800	630	500	800	2000	2000	1800	1600
FH1000/5	100	7.0	8.68	800	630	500	1000	2000	2000	2000	1800
FH1000/6	100	7.6	9.42	1000	800	630	1000	2000	2000	2000	2000
FH1250/4	125	7.2	8.93	800	630	500	1000	2000	2000	2000	2000
FH1250/5	125	7.9	9.80	1000	800	630	1000	2000	2000	2000	2000
FH1250/6	125	8.5	10.54	1000	800	630	1000	2000	2000	2000	2000
FH1400/4	140	8.6	10.66	1000	800	630	1000	2000	2000	2000	2000
FH1600/5	160	9.6	11.28	1000	800	630	1200	2000	2000	2000	2000
FH1600/6	160	10.1	11.90	1250	1000	800	1200	2000	2000	2000	2000
FH1800/5	180	10.9	13.52	1250	1000	800	1200	2000	2000	2000	2000
FH1800/6	180	12.1	15.00	1400	1250	800	1200	2000	2000	2000	2000
FH2000/5	200	11.0	13.64	1250	1000	800	1200	2000	2000	2000	2000
FH2000/6	200	12.1	15.00	1400	1250	800	1200	2000	2000	2000	2000

- To determine total belt thickness, add the sum of the cover thickness to the carcass thickness.
- \* Pulley diameters apply to belts operating at 60% to 100% of their recommended max. belt tension.
- For lower tensions, smaller diameter pulleys may be used.

- \*\*The load support of a belt is determined by belt width, tensile strength and bulk material density. The figures given in the table relate to 3 roll 30 degree carrying idlers.
- When extremely thick covers are selected, the advice of our Technical Service Department should be sought.

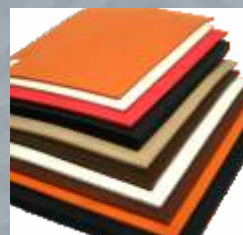
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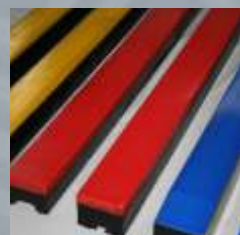
## RANGE OF ACCESSORIES AND OTHER PRODUCTS FROM FORECH



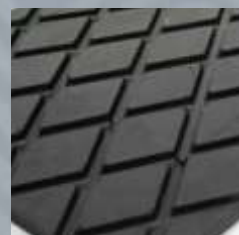
COLD VULCANIZING ADHESIVES



ANTI WEAR & ANTI CORROSION RUBBER SHEETS



IMPACT BARS & CRADLES



SHEET PULLEY LAGGING



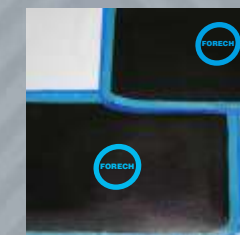
CERAMIC PULLEY LAGGING



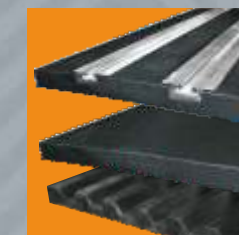
CERAMIC PADS



SIDE WALL CONVEYOR BELTS



CONVEYOR REPAIR MATERIALS

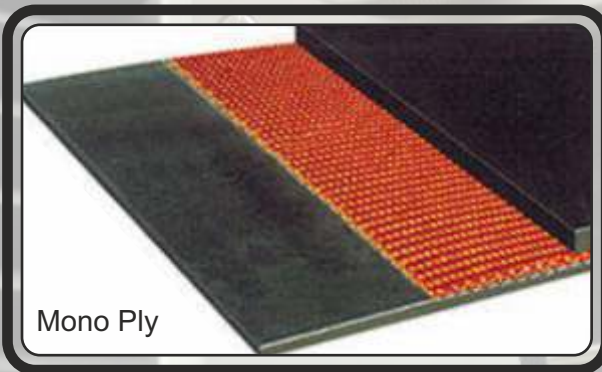


CHUTE & HOPPER LINING DUMPER LINING



CHEVRON CONVEYOR BELT

## Straight Warp Conveyor Belts



Mono Ply



Duo Ply

Designed to provide excellent strength and low stretch with superior load support and troughability.

Exceptionally high longitudinal Rip Resistance – almost 4~5 times that of plied belts of similar strength

## What is an EPP Belt

An EPP belt is manufactured as single ply or as duo ply belt.

Preferred in difficult application, this gives long, trouble free service.

The straight polyester (E) warp threads are placed in the direction of belt movement similar to the polyamide (P) weft threads.

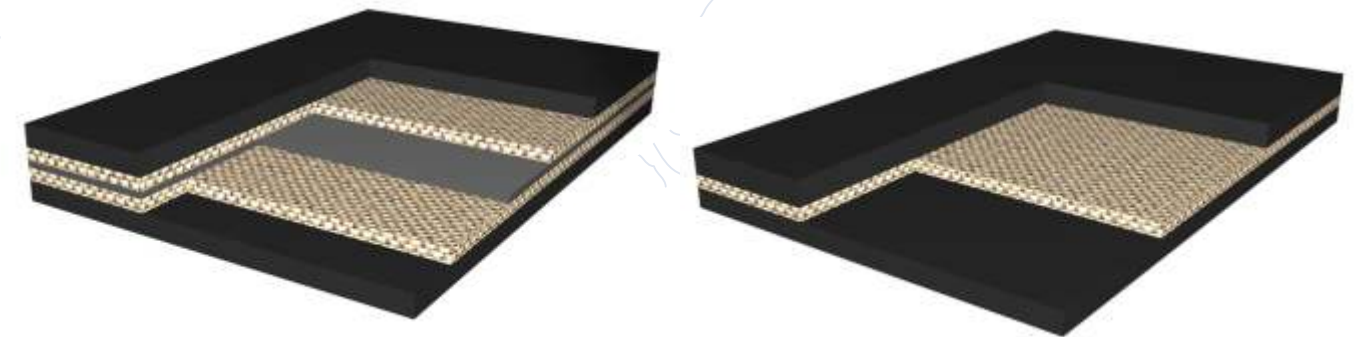
These are joined together by an additional binder polyester (P) yarn resulting in a very low stretch.

### Key features of EPP Belts

- High Rip impact resistance
- Light fabric
- High tensile strength
- Runs on short distance conveyors with high tensile strength and smaller pulley diameter
- Minimal elongation

### Popular Sizes of EPP belts

1 ply straight warp belt			
Belt type	Fabric	Top Cover	Bottom Cover
Sw 400/1	Sw 400	5	2
Sw 500/1	Sw 500	6	2
Sw 630/1	Sw 630	6	3
2 ply straight warp belt			
Belt type	Fabric	Top Cover	Bottom Cover
Sw 800/2	Sw 400	6	2
Sw 1000/2	Sw 500	8	3
Sw 1250/2	Sw 630	8	3



The above chart is indicative in nature. The belt construction, cover thicknesses and grade of rubber cover can be offered as per customer's specific requirement.