ESCON

DELIVERING CUSTOMER SATISFACTION WITH QUALITY PRODUCTS

Escon Industries is manufacturing the following Conveyor Belts

CONVEYOR BELTS



- M-24
- N-17
- HR T1
- SHR T2
- UHR T3
- OR (OIL RESISTANT)
- FR (FIRE RESISTANT)

HIGH TENSILE STRENGTH
EXCELLENT ABRASION
STRONG BONDING

(ISO 9001:2015 certified)

Head Office: ESCON HOUSE, 509, Kucha Pati Ram, Bazar Sita Ram, Delhi - 110006 (INDIA)
Website: www.escon.in Email: info@esconinternational.com, esconipl@gmail.com
Tel: 011 - 41633257 Ph: +91 9650254424, 9354818018 +91 9310358823

ESCON INDUSTRIES - All Rights are reserved

ESCON CONVEYOR BELTS

Escon Group commenced its Business activities in early 1950's and till date is involved in manufacturing and distribution of quality products in Mechanical Power Transmission , Material Handling and Hand- Cutting tools segment

Escon Conveyor Belts are manufactured at "Escon Industries" which is the second manufacturing unit of the "Escon Group" incepted in the year 2010 at Una, Himachal Pradesh .

Escon is one among the very few organised manufacturers of Conveyor Belt and Escon today enjoys significant brand equity in bulk material handling Industry .

Escon brings together the required combination of Best Machinery , Systematic Approach , High Quality Raw Materials , Technical Expertise and control to achieve our mission which is to "Deliver Customer Satisfaction with Quality Products"

On the user front Escon understands that in all industries requirement of Material Handling demands high standards of safety , quality and cost efficiency . Escon Conveyor-Belts offer the industry a comprehensive range meeting today's stringent requirements .

Escon Conveyor Belts are manufactured from tough , long- lasting natural and synthetic rubbers , reinforced with high quality Textile belting fabrics . Specially formulated rubber compounds ensure reliable service with minimum maintenance and give high life .

Escon Conveyor Belts confirm to IS 1891 Standards Part 1 - Part 5 .

ESCON CONVEYOR BELTS

ADVANTAGES OF ESCON CONVEYOR BELTS

LOW ELONGATION
ESCON BELTS HAVE MINIMAL ELONGATION

GOOD BONDING
THE BONDING IS GOOD WITH NO PLY SEPARATION IN SERVICE

HIGH MODULOUS
ESCON BELTS HAVE HIGH MODULOUS AND SO CAN CARRY MORE LOADS



GOOD WEAR RESISTANCE
EXCELLENT ABRASION RESISTANCE

ENDLESS JOINT
ABILITY TO BE JOINED AND BE MADE ENDLESS.

VERY GOOD TEAR RESISTANCE
BY SPECIAL COMPOUNDING ESCON BELTS HAVE VERY LOW CUT PROPAGATION AND WITH STAND DAMAGE.

FLEXIBILITY
LONGITUDINALLY TO FLEX AROUND THE PULLEYS AND TRANSVERSALLY FOR TROUGHING IF DESIRED.

M-24	Suitable for rugged services as crushed metallic ores, limestone, granite etc.
N-17	Suitable for moderately abrasives like Asbestos, Ash Bauxite Cement, Lime etc.
HR T1	Suitable for transporting hot material (upto 125 C for coarse material and 100 C for fines).
SHR T2	Suitable for transporting hot material (upto 150 C for coarse material and 125 C for fines).
UHR T3	Suitable for transporting material above 150 C & upto 200 C.
OR (OIL RESISTANT)	Compounded to give very high- resistance to minerals & vegetables oil etc.
FR (FIRE RESISTANT)	Recommended for use in coal & such types of mines where ambient temperature may not be high but there is distinct hazard of belts being enveloped in fire.

MINIMUM PULLEY DIAMETERS FOR CONVEYOR BELTS

Carcass thickness (mm)				Recommended Minimum Diameter in mm for Percentage of RMBT Used								
Polyester Polyamide		Polyester Polyamide		Over 60 up to 100 percent			Over 30 up to 60 percent			Upto 30 percent		
				Type of Pulley			Type of Pulley			Type of Pulley		
From	To	From	To	A	B	C	A	B	C	A	B	C
-	1.1	-	0.9	100	-	-	-	-	-	-	-	-
1.2	1.3	1.0	1.1	125	100	-	100	-	-	-	-	-
1.4	1.7	1.2	1.4	160	125	100	125	100	-	100	100	-
1.8	2.2	1.5	1.8	200	160	125	160	125	100	125	125	100
2.3	2.7	1.9	2.3	250	200	160	200	160	125	150	160	125
2.8	3.5	2.4	2.9	315	250	200	250	200	160	200	200	160
3.6	4.4	3.0	3.7	400	315	250	315	250	200	250	250	200
4.5	5.5	3.8	4.6	500	400	315	400	315	250	315	315	250
5.6	7.0	4.7	5.8	630	500	400	500	400	315	400	400	315
7.1	8.8	5.9	7.4	800	630	500	630	500	400	500	500	400
8.9	11.1	7.5	9.2	1000	800	630	800	630	500	630	630	500
11.2	13.8	9.3	11.5	1250	1000	800	1000	800	630	1000	1000	630
13.9	15.5	11.6	12.9	1400	1250	1000	1250	1000	800	1000	1000	800
15.6	17.7	13.0	14.8	1600	1250	1000	1250	1000	800	1000	1000	800
17.8	20.0	14.9	16.6	1800	1400	1250	1400	1250	1000	1250	1250	1000
		16.7	18.5	2000	1600	1250	1600	1250	1000	1250	1250	1000

RMBT denotes “Recommended Maximum Belt Tension”.

A - Driving Pulleys and Pulleys exposed to High Belt Tension.
B - Snub Pulleys in the return run under Lower Belt Tension.
C - Bend Pulleys for a change of direction of the Belt of less than 30 degree.

SELECTION CHART FOR GRADES OF COVER RUBBER

COVER GRADE CHARACTERISTICS AND APPLICATION	PHYSICAL PROPERTIES							
		BEFORE AGEING				AFTER AGEING		
	STANDARD	Tensile Strength MPa	Elongation %	Temperature of Ageing °C	Duration of Ageing hrs.	Change in Tensile Strength %	Change in Elongation %	MAXIMUM ABRASION LOSS MM³
GENERAL PURPOSE BELTING								
GRADE M - 24								
This Grade is recommended for conveying heavey, sharp, highly abrasive materials like metallic ores, granite, lime stone, coal, Blast furnace slag & clinker etc.	IS 1891 PART-1 BS 490 PART-1 ISO 4195/1 DIN 22102	24.0	450	70	72	+10 -20	+10 -25	150
GRADE N - 17								
Recommended for conveying less severe and moderately abrasive material like sized coal, ash, chalk, bauxite etc.	IS 1891 PART-1 BS 490 PART-1 ISO 4195/1 DIN 22102	17.0	400	70	72	+10 -20	+10 -25	200
GRADE N - 17 SYNTHETIC								
Composed of Synthetic Rubber mainly, this grade is suitable for arduous application as M-24 and has similar wear resistance properties.	IS 1891 PART-1	17.0	400	70	72	+10 -20	+10 -25	150
HEAT RESISTANT BELTING								
GRADE HR (T-1)								
This Grade is recommended for conveying hot material and sutaible for fines upto 100 degree C and coarse material upto 125 degree C.	IS 1891 PART-11	12.5	350	100	72	-25	-40	200
GRADE HR (T-2)								
This Grade is recommended for conveying hot material and sutaible for fines upto 125 degree C and lumps upto 150 degree C.	IS 1891 PART-11	12.5	350	125	72	-35	-50	250
UHR T3								
Specially blended with a compound of EPDM and Chlorobutyl, this grade is recommended for applications where material temperatures beyond 150 degree C and involved.	ESCON STANDARD	12.5	350	125	72	-35	-50	250
FIRE RESISTANT BELTING								
GRADE FR								
Having fire resistance and antistatic properties, this grade is recommended for use where a fire hazard exists eg. Thermal Plants, Underground Mines.	CSA-M422-M87 IS 1891 PART-V DIN 22103 JISK. 6324-1977	17.0	350	70	72	+10 -20	+10 -25	NOT SPECIFIED
OIL RESISTANT BELTING								
GRADE OR								
Composed of Synthetic Rubber Compounds this grade is resistant to mineral, vegetables, animal oils and fats.	IS 1891 PART-111	12.0	250	70	72	+ 35 -	+ 35 -	NOT SPECIFIED

CHART FOR BELT SELECTION

BELT DESIGNATION		FULL BELT TENSILE STRENGTH	MAXIMUM RECOMMENDED WORKING TENSION		NOMINAL CARCASS THICKNESS	NOMINAL CARCASS WEIGHT	MAXIMUM BELT WIDTH (mm) for ADEQUATE LOAD SUPPORT BULK DENSITY (T/m³)			MINIMUM BELT WIDTH (mm) FOR ADEQUATE TROUGHING		
TYPE	RATING	KN/m	Vulcanised splice (kN/m)	Mechanical Fasterners (kN/m)	(mm)	kg/cm/ mtr	upto 1.0	upto 1.5	upto 2.5	20 Deg. Idlers	30 Deg. Idlers	45 Deg. Idlers
GENERAL DUTY	200/2	200	20	20	2.2	0.020	650	500	-	300	400	500
	250/2	250	25	25	2.2	0.020	650	600	-	300	400	500
	315/2	315	31	31	2.4	0.021	900	650	500	300	400	500
	315/3	315	31	31	3.0	0.023	1000	800	650	400	500	500
	400/2	400	40	40	2.6	0.023	1000	800	650	400	500	500
	400/3	400	40	40	3.2	0.025	1200	900	650	500	500	500
	500/3	500	50	*	3.4	0.030	1200	900	650	500	500	500
	630/3	630	63	*	3.5	0.031	1200	1000	800	500	500	500
HEAVY DUTY	200/2	200	20	20	2.5	0.023	800	650	500	400	400	500
	250/2	250	25	25	2.8	0.026	800	650	500	400	400	500
	315/2	315	31	31	3.0	0.028	1000	800	650	400	500	500
	315/3	315	31	31	3.4	0.028	1200	1000	800	500	500	500
	400/2	400	40	40	3.0	0.028	1200	1000	800	500	500	500
	400/3	400	40	40	3.4	0.030	1200	1000	800	500	500	650
	400/4	400	44	40	4.0	0.039	1200	1000	800	500	500	650
	500/3	500	50	*	3.5	0.032	1400	1000	800	500	500	650
	500/4	500	55	*	4.2	0.037	1400	1200	900	500	650	650
	630/3	630	63	*	3.7	0.034	1600	1400	1200	650	800	800
	630/4	630	70	*	5.0	0.049	1800	1600	1400	650	800	900
	800/4	800	90	*	5.3	0.050	1800	16000	1600	650	900	900
	1000/4	1000	110	*	5.6	0.052	2000	1800	1600	800	900	1000
	1000/5	1000	110	*	6.6	0.066	2000	1800	1600	800	900	1000
	1250/4	1250	140	*	6.5	0.062	2000	2000	1600	800	900	1000
	1250/5	1250	140	*	7.0	0.079	2000	2000	1600	900	900	1000
EXTRA HEAVY DUTY	400/4	400	44	*	4.6	0.056	1200	1000	800	500	500	500
	500/4	500	55	*	4.6	0.057	1600	1200	900	500	500	500
	630/4	630	70	*	5.3	0.060	1800	1400	1200	500	650	800
	800/4	800	90	*	5.7	0.062	1800	1600	1400	650	800	900
	800/5	800	90	*	6.3	0.066	1800	1600	1400	650	650	800
	1000/4	1000	110	*	6.0	0.066	1800	1800	1400	800	800	900
	1000/5	1000	110	*	6.8	0.073	2000	1800	1600	800	900	1000
	1250/4	1250	140	*	6.7	0.075	2000	1800	1600	800	800	900
	1250/5	1250	140	*	7.5	0.089	2000	1800	1800	800	900	1000
	1400/4	1400	145	*	7.2	0.077	2000	1800	1800	800	900	1000
	1400/5	1400	155	*	8.0	0.087	2000	1800	1800	800	900	1200
	1600/4	1600	180	*	7.4	0.081	2000	2000	1800	800	900	1200
	1600/5	1600	180	*	8.8	0.100	2000	2000	1800	800	1000	1200
	1800/6	1800	190	*	10.6	0.110	2000	2000	2000	900	1000	1200

NOTE:

IN THE ABOVE BELT STRENGTH DESIGNATIONS, THE FIRST SET OF FIGURES DENOTE THE BELT STRENGTH IN KN/M AND THE SECOND SET OF FIGURES DENOTES THE NUMBER OF FABRIC PLIES.

* DENOTES THAT MECHANICAL FASTNERS ARE NOT RECOMMENDED.

THE ABOVE FIGURES REPRESSENT THE STANDARD CONSTRUCTION OF CONVEYOR BELTS. SPECIAL CONSTRUCTION CAN BE DESIGNED AND MANUFACTURED AGAINST SPECIFIED REQUIREMENTS.

THE ABOVE FIGURES ARE APPROXIMATE VALUES AND SHOULD BE TAKEN INTO ACCOUNT FOR THE PURPOSE OF DESIGN AND ESTIMATION ONLY AND NOT FOR THE PURPOSE OF INSPECTION. ESCON RESERVES THE RIGHT TO CHANGE THE SPECIFICATION/PARAMETERS, WITHOUT NOTICE, IN LIGHT OF TECHNICAL DEVELOPMENT.

ESCON CONVEYOR BELTS

Escon Industries has state-of –the –Art Belt Manufacturing unit with Automated Manufacturing Facilities













ESCON CONVEYOR BELTS

Escon has a well-equipped Research and Development LAB which continuously work towards making better product every day :



Each and every department of the Unit is headed by well experience technically qualified engineers.

Our Technical Team checks the product at each and every stage so that the product finally dispatched stands out best than the rest .

OTHER PRODUCTS OF ESCON GROUP

ESCON V - BELT



ESCON FLAT BELT



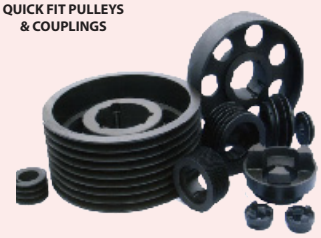
DONGIL ESCON RAW EDGE COGGED BELT



ESCON COUPLINGS SPARE TYRES



ESCON QUICK FIT PULLEYS & COUPLINGS



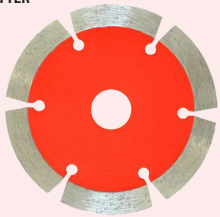
ESCON STEEL FILES



ESCON TCT CUTTER



ESCON MARBLE CUTTER



Manufacturing Unit
Khasra No. 137/2,
140, Near Gaushala Vill. & P.O. Bela Bathri,
Tehsil Haroli, Distt. UNA (HP)