HIC International Co Inc
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UNIVERSAL

NYLON SANDWICH BELTS

Nylon sandwich belts, the high efficiency flat belts are used for power transmission and light conveying whichconventional belts cannot offer the belts to operate at speeds upto 100m/s., light in weight, high flexibility, high tensile strength, impact absorbing, permanent anti-static property, virtually nil stretch elongation, and noiseless running upto 5000 H.P. loads in industries like paper & pulp, textile, machine tools & engineering, coal, iron and steel, chemical fodder, ship, marble and stone cutting, printing, tobacco, pharamaceutical, soap, sugar, woodwork, power generator and other industrial usage. Universal offers belts combining outstanding properties of nylon (high tensile strength high modulus of elasticity) and chrome leather (high coefficient of friction & abrasion resistance) to give most efficient power transmission.

RANGE | *GAMME* | GAMA

FLAT DRIVE BELTS | *Courroies plates de commande* Cinta plana de conducción

Nylon Sandwich Belt - **RANGE & SPECS**

Type & Construction	Sub Type	Nominal Effective Pull F'UN (kgf/cm) belt width	Av. T. Strength Kgf/cm belt width	Std. Widths (mm)	Tolerance in Width	Length tolerance
Type de construction	Sous-type	Tirage effectif nominal (kgf/cm) largeur de courroie	Tension Kgf/cm Largeur de courroie	Largeur normale (mm)	Tolerance en largeur	Tolerance en longueur
Tipo de construcción	Sub Tipo	Arranque nominal eficas Fún (kgf/cm) anchura de cinta	Medio valor de fuerza de tensilo anchura de cinta	Anchura normal (mm)	Tolerancia en anchura	Toelerancia de langura
(1) L (chrome leather friction coating on one side)	6 12 16	6 12 16	130 260 350	10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 90, 100, 120, 140, 160, 180, 200, 220, 250, 280, 300, 320, 350, 380, 400, 450, 500, 550, 600, 650, 700, 750, 800, 900, 1000	From 10 to 50mm ± 1mm More than 50 to 200mm ±2mm More than 200 to 500mm ±3mm More than 500 to 750mm ±10mm More than 750 to 1000mm ±15mm	From 450 to 5000mm ±1% More than 5000 to 15000mm ±0.75% More than 15000mm ±0.5%
(2) WR (chrome leather friction coating on one side with cover coating of nylon fabric on other side)	6 10 12 20 30 40 50 60	6 10 12 20 30 40 50 60	130 220 260 450 660 900 1100 1320	— do —	— do —	— do —
(3) LL (chrome leather friction coating on both sides)	As per details in **'WR'** type stated above					
(4) F (elastomer friction coating on one side)	6	6	130	as per details in 'L' series upto 500 mm max. width	as per details in 'L' series mfd. upto 500mm width	as per details in 'L' series
	Also known as 'Folder and Carrier Belts Lay boy Tapes'					

Type & Construction	Sub Type	Nominal Effective Pull F'UN (kgf/cm) belt width	Av. T. Strength Kgf/cm belt width	Std. Widths (mm)	Tolerance in Width	Length tolerance
(5) FF (elastomer friction coating on both sides)	6 10	6 10	130 220	as detailed in 'L' series upto 500mm max. width	as per details in 'L' series	as per details in 'L' series
	Also known as 'Tangenital Belts'					

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Material Handling & HillDrive Hydraulics Solutions

Universal
CONVEYOR TRANSMISSION

RECOMMENDED SMALLER PULLEY DIAMETER

Diamètre de poulie plus-petite préconisée
DIAMETRO RECOMENDADO DE POLEA PEQUENA

P/n	d mm	P/n	d mm	P/n	d mm
0,00075	71	0,008	160	0,14	355
0,0009	80	0,01	180	0,17	400
0,001	90	0,015	200	0,20	450
0,0016	100	0,04	224	0,25	500
0,0018	112	0,06	250	0,30	560
0,003	125	0,1	280	0,40	630
0,0045	140	0,12	315	0,44	700

P = motor rating in KW
n = rpm of smaller pulley
d = dia of smaller pulley

STANDARD BELT WIDTH AND SMALLEST PULLEY WIDTH

Largeur de courroie normale et longueur de poulie la plus petite.
ANCHURA NORMAL DE CINTA Y ANCHURA DE LA POLEA MAS PEQUENA

b_o mm	bmm	b_o mm	bmm	b_o mm	bmm
20	25	75	90	280	320
25	35	80	100	300	340
30	40	90	110	320	360
35	45	100	120	350	400
40	50	120	140	380	430
45	55	140	160	400	450
50	60	160	190	450	500
55	65	180	210	500	550
60	75	200	230	550	600
65	80	220	250	600	650
70	85	250	290	650	700

Bigger pulley dia (D) can be calculated from motor rpm and velocity ratios
Min. centre distance (in mm) = 0.8 to 1.1 D

b_o = belt width
b = width of pulley face (crown width)

SPLICING

Belts may be rendered endless by simply using cements, heat and pressure. The splice angle is to be kept at 60°

SUPER SAVER

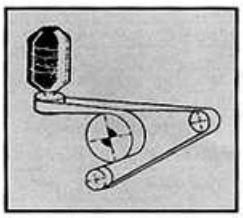
- Reduces load on bearing.
- Saves space as selection of smaller dimension is possible.
- Pratically maintenance free & requires occasional cleaning only.

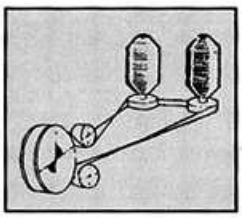
Lengths Manufactured, Order Quantities and Packing

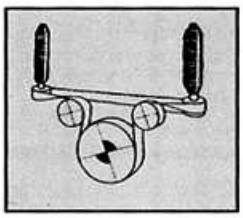
- Belts are supplied in max. roll lengths of 50 mtrs. and also in endless to requisite size subject to open end length tolerance of + 5% to -1% & billing is done in terms of actual length.
- Miin. qnty. of order be so placed that the value of order is atleast 100 US Dollars.
- Packed in polythene and then further packed in hessian cloth/cartons.

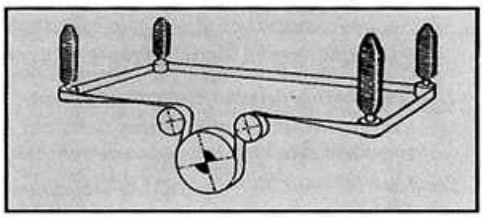
SPINDLE TAPES *BANDES DE FUSEAU* CLINTAS DE EJE

Type & Construction	Sub-Type	Shaft load in kgf/cm tape width at on elong. of 1%	T. Strength kgf/cm belt width (app.)
(6) ST (friction coating consisting of synthetic fabric)	3	3	80
	6	6	140









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UNIVERSAL NYLON TRANSMISSION BELTINGS
TECHNICAL SPECIFICATIONS

Type	Total thickness (mm)	Weight (kg/sq. mtr) Approx	Min. pulley dia (mm)	Pull for 1% elongation (kg/cm)	Tensile strength (kgs/cm)	Top surface Col.	Top surface Mat.	Top surface COF	Driving surface Col.	Driving surface Mat.	Driving surface COF	Max. temp. resistance (oC)
LEATHER NYLON BELTINGS												
LL-3	3.6	3.4	20	2	60	W	L	0.4	W	L	0.4	80
LL-6	4.0	3.7	40	4	120	W	L	0.4	W	L	0.4	80
LL-10	4.4	4.2	80	8	240	W	L	0.4	W	L	0.4	80
LL-12	5.0	4.6	100	10	330	W	L	0.4	W	L	0.4	80
LL-20	6.5	5.5	160	16	480	W	L	0.4	W	L	0.4	80
LL-30	7.5	6.7	240	24	720	W	L	0.4	W	L	0.4	80
LL-40	8.0	7.8	320	32	960	W	L	0.4	W	L	0.4	80
LL-50	10	8.9	400	40	1200	W	L	0.4	W	L	0.4	80
LF-3	2.2	2.0	20	2	60	R	F	0.3	W	L	0.4	80
LF-6	2.4	2.3	40	4	120	R	F	0.3	W	L	0.4	80
LF-10	3.1	2.8	80	8	240	R	F	0.3	W	L	0.4	80
LF-12	3.4	3.5	100	10	330	R	F	0.3	W	L	0.4	80
LF-20	4.8	4.0	160	16	480	R	F	0.3	W	L	0.4	80
LF-30	6.0	4.5	240	24	720	R	F	0.3	W	L	0.4	80
LF-40	7.3	6.3	320	32	960	R	F	0.3	W	L	0.4	80
LF-50	8.5	7.3	400	40	1200	R	F	0.3	W	L	0.4	80
L-6	2.0	2.2	40	4	120	T	PS	0.2	W	L	0.4	80
L-12	2.8	2.8	100	10	330	T	PS	0.2	W	L	0.4	80
L-16	3.9	3.4	160	16	480	T	PS	0.2	W	L	0.4	80
LR-6	5.7	6.6	40	4	120	G	NR	0.7	W	L	0.4	80
LR-10	4.2	4.1	80	8	240	G	NR	0.7	W	L	0.4	80
LR-12	4.5	4.5	100	10	330	G	NR	0.7	W	L	0.4	80
FABRIC NYLON BELTING												
FF-0	0.6	0.4	10	0.5	20	R	F	0.25	R	F	0.25	80
FF-3	0.8	0.6	20	2	60	R	F	0.25	R	F	0.25	80
FF-6	1.0	0.9	40	4	120	R	F	0.25	R	F	0.25	80
FF-10	1.5	1.4	80	8	240	R	F	0.25	R	F	0.25	80
FRI	1.6	1.4	50	4	120	R	F	0.25	G	F	0.7	80

Type	Total thickness (mm)	Weight (kg/sq. mtr) Approx	Min. pulley dia (mm)	Pull for 1% elongation (kg/cm)	Tensile strength (kgs/cm)	Top surface Col.	Top surface Mat.	Top surface COF	Driving surface Col.	Driving surface Mat.	Driving surface COF	Max. temp. resistance (oC)
RUBBER NYLON BELTINGS												
AR-1	2.4	3.0	40	4	120	G	NR	0.7	G	NR	0.7	100
AR-2	2.6	3.3	80	8	240	G	NR	0.7	G	NR	0.7	100
AR-3	2.9	3.6	100	10	330	G	NR	0.7	G	NR	0.7	100
AR-3/6	6.0	6.7	100	10	330	G	NR	0.7	G	NR	0.7	100
AR-4	3.3	4.2	160	16	480	G	NR	0.7	G	NR	0.7	100
AR-5	3.9	4.6	220	19	570	G	NR	0.7	G	NR	0.7	100
ARS-1	2.4	3.0	40	4	120	G	NR	0.7	Y	NR	0.7	100
ARS-2	2.6	3.3	80	8	240	G	NR	0.7	Y	NR	0.7	100
ARS-3	2.9	3.6	100	10	330	G	NR	0.7	Y	NR	0.7	100
ARS-4	3.3	4.2	160	16	480	G	NR	0.7	Y	NR	0.7	100
TANGENTIAL BELTS												
TA 15M	1.8	2.0	50	5	150	PG	NR	0.7	B	NR	0.7	100
TA 16M	1.8	2.1	50	5	150	PG	NR	0.7	B	NR	0.7	100
TA 24M	2.4	3.0	100	10	300	PG	NR	0.7	B	NR	0.7	100
TA 24MS	3.0	3.7	100	10	300	PG	NR	0.7	B	NR	0.7	100
TA 29HX	3.2	3.9	150	15	450	PG	NR	0.7	B	NR	0.7	100
TA 29HXS	4.0	5.1	150	15	450	PG	NR	0.7	B	NR	0.7	100
SPINDLE TAPES												
ST-0	0.7	0.5	10	0.5	20	B	F	0.20	W	F	0.20	80
ST-3	0.8	0.6	10	1	30	B	F	0.20	W	F	0.20	80
ST-6	0.9	0.7	20	2	60	B	F	0.20	W	F	0.20	80
WW-3	0.7	0.55	10	1	30	W	F	0.20	W	F	0.20	80
WW-6	0.8	0.65	20	2	60	W	F	0.20	W	F	0.20	80
WW-6	1.5	1.05	20	2	60	W	F	0.20	W	F	0.20	80
WW-8	1.0	0.9	40	4	120	W	F	0.20	W	F	0.20	80
CONDENSOR TAPES												
Astra	3.2	2.8	40	4	120	BR	L	0.4	BR	L	0.4	80
Coriatex	3.2	3.2	40	4	120	BR	L	0.4	BR	L	0.4	80

DESCRIPTION

Col - Colour
Mat - Material
COF - Coefficcient of friction
W - White
R - Red
T - Transparent
G - Green
PG - Parrot Green

B - Black
BR - Brown
Y - Yellow
L - Leather
F - Fabric
PS - Polyamide Strip
NR - Nitrile Rubber

Tolerance
Length
500 - 5000 mm ± 0.5 %
5001 - 15000mm ± 0.3%
150001 & Abv ± 0.2%
Width
Upto 50 mm ± 1mm
51 - 100 mm ± 2 mm
101 - 500 mm ± 3mm
501 - 750 mm ± 10mm
751 - 950 mm ± 15mm
Thickness
Rubber Series ± 0.15mm
Leather Series ± 0.3 mm
ST/FF Series ± 0.05 mm

BASIC STRUCTURE

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