









Poly
CFTG
Super Endless
PolySprint
New Light Grip
Tooling

...more than just Power Transmission













Examples of Applications for Nitta Belts Poly

Textile Industry

OE Spinning Machines, twisting and double twisting machines, carding machines, circular knitting machines, automatic winders and other applications.

Printing and Paper Industries

Drives and Tapes for printing machines, calendering machines, cross cutters, folder gluers, sheet feeders, re-winders, pulpers and other applications.

Wood Industry

Chipping machines, laminate coating lines, planing and sanding, saws, milling machines, routing machines and other applications.

Further Application Areas

Oil and water separators, centrifuges, ventilation fans, quarry machines, presses, pumps, cable pulling machines, cable making machines and other applications.



The success of Nitta's Poly Belt range owes itself not only to the numerous years of experience in the transmission sector, but also to Nitta's continuous investment in the most up to date manufacturing processes and production equipment.

All polyamide flat belts from Nitta consist of an exceptional monofilament polyamide layer which provides the strength combined with a wide choice of covers for abrasion and wear resistance. Due to their excellent performance, durability and quality, Nitta Belt Poly is particularly ideal for the demanding applications in the textile and printing industries. A wide range of quality products has ensured that Nitta Belt Poly is also suitable for many other applications for which reliability along with ease of installation, low maintenance and minimal power loss are key factors.

The products of the XH series also consist of a polyamide nylon core which is covered on both sides with a special synthetic rubber which has a high abrasion resistance. These belts are recognised by their excellent resistance to abrasion, low noise emission, high resistance to oil and a good coefficient of friction. This combination of qualities, for example, makes this the ideal choice for demanding folder gluer / box making applications.

Focusing on specialised innovation is a commitment undertaken by Nitta to meet existing and future industry requirements. These market demands are consistently being met by Nitta through it's continuous policy of new developments and are fulfilled in particular by the excellent properties of the polyamide and elastomers which are used.



Poly - Techm Example of the Construction: GLTB-1000 NBR PA GLTB-1000 2,75 2,6 GMTA-500 1,9 2,0 H-1000 NBR H-500 3,5 3,8 H-750 3,75 4,1 H-1000 4,0 4,4 H-1500 4,5 5,0 H-2000 5,0 5,6 HU-250 1,3 1,6 H-2000 5,0 5,6 HU-250 1,3 1,5 H-2000 5,0 5,6 HU-250 1,3 1,6 H-2000 5,0 5,6 HU-250 1,3 1,6 H-2000 5,0 5,6 HU-250 1,3 1,5 H-2000 5,0 5,6 HU-250 1,3 H-2000 5,0 H-2000

Poly

The advantages briefly:

- Excellent wear resistance
- High flexibility
- No maintenance
- High energy efficiency
- Long service life
- Power efficiency
- Fast installation
- · Resistant to oil and humidity
- Permanently anti-static

200				
200				
11 4000		H-500	3,5	3,8
H-1000	-NBR	H-750	3,75	4,1
	–PA	H-1000	4,0	4,4
	-PAfab _	H-1500	4,5	5,0
	-NBR	H-2000	5,0	5,6
		HU-250	1,3	1,6
	_			
IDTA OFO				
TRTA-350	_NR	IR-500	1,3	1,5
	-PA	IRS-6S	1,35	1,4
La Flacka Ba Ba Ba Ta	PAfab	IRTA-350	1,15	1,2
	171100		.,	-,_
V00 050				
KSG-250	NIDD	KCS-350	1,1	0,8
2	-NBR -PA	KSG-250	0,85	0,8
A. A. B.	Fab _	KSG-350	1,0	0,9
	. 45			
	_	L-250	1,25	1,4
L-1000	-NBR	L-350	1,4	1,6
	-PA =	L-500	1,55	1,8
	-PAfab	L-750	2,2	2,5
		L-1000	2,45	2,8
	-NBR	L-1500	2,95	3,4
	_	L-2000	3,45	4,0
	_	LA-350-Z SI	2,1	2,4
		LA 500	1,55	1,8
	_			
LTAW-350	√NBR	114/ 250	1.4	1.0
LIAVV-350	-PA ■	LW-350 LTAW-350	1,4 1,4	1,6
A. A. C. A.		LWS-350H		1,6
	>PAfab	LVV3-330H	2,1	2,6
		M-250	2,2	2,4
		M-350	2,35	2,6
M-500	NDD	M-500	2,5	2,7
	-NBR -PA	M-750	2,75	3,0
		M-1000	3,0	3,3
	-PAfab	M-1500	3,5	4,0
	NBR	M-2000	4,0	4,6
		M-1000GS	2,6	2,9
		MB-1000GSR	2,6	2,9
		MH-2500	5,0	6,0
		MH-3000	5,5	6,5
NIDTO TOO		MH-4000	6,5	7,6
NRTB-500-6				
	-NR			
000000000000000000000000000000000000000	-PA	NRTB-500-6	6,0	6,9
	PAfab	NRL-500-6	6,0	6,9

Abbreviations:

PA = Polyamide

ical Data

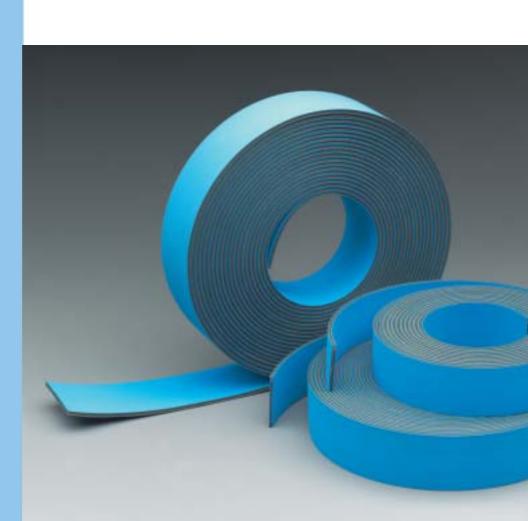
	Specific Parision Williams				4	g	_ \$	Specific to 18 18 18 18 18 18 18 18 18 18 18 18 18
Min Politica	8 2 6 C. S.	Example of the Construction:		L'AR		S A B B B B B B B B B B B B B B B B B B	Wild and	6 6
		SG-500	I	SG-250	0,8	0,8	25	1,5
60	7,5		NBR PA	SG-500	1,1	1,1	50	3,8
40	3,8	/5\0/5\0/\$\0/\$\0/\$\0/\$\0/\$\0/\$\0	→PA →PAfab	SG-750 SG-750-2P	1,35 1,1	1,4 1,2	75 50	5,6 5,6
			NBR	SG-1000	1,6	1,7	100	7,5
				SGL-250 SGL-500	1,0 1,3	1,0 1,4	25 50	1,5 3,8
50	3,8			5GE 500	1,0	1,-	30	3,0
75 100	5,6 7,5							
150	11,3		1	TFL-6S	2,25	2,4	60	5,8
200	15,0			TFL-7S	2,4	2,6	75	7,5
20	1,5	TFL-10SEH		TFL-10S TFL-3SH	2,6 2,0	2,8 2,0	100 35	9,8 3,4
		TI E TOOLIT	NBR	TFL-10SEH	2,6	2,8	100	9,8
F0	0.0		—PA PAfab	TFL-12S	2,85	3,1	125	12,3
50 60	3,8 5,8		NBR	TFL-15S TFL-15S-LW	3,1 3,1	3,4 3,4	150 150	15,0 15,0
30	2,6		'	TFL-18S	3,35	3,7	175	17,0
		TFM-15S	NBR					
30	2,6		—PA	TFM-10S	3,2	3,5	100	9,8
20	1,5		PAfab	TFM-15S	3,7	4,1	150	15,0
35	2,6		NBR					
		TL-10S						
25	1,5	12 100	NBR	TL-7S	1.0	2,0	75	7.5
35	2,6	M. M. M. M. M. M. M. M.	—PA ─PAfab	TL-10S	1,9 2,2	2,0	100	7,5 9,8
50	3,8		NBR		ŕ	·		·
75 100	5,6 7,5							
150	11,3	TTA-1000N		TTA-250N	1,0	0,9	25	1,5
200	15,0		PA PAfab	TTA-500N	1,3	1,2	40	3,8
35	2,6		PAIAD	TTA-1000N TTB-1000	1,8 2,8	1,7 2,5	60 60	7,5 7,5
50	3,8			112 1000	2,0	2,0		7,0
		TM 500						
30	2,6	TW-500	NBR	TW-500	2,1	1,9	40	3,8
30	2,6		—PA ►PAfab	TWH-500	3,8	3,8	40	3,8
30	2,6		NBR					
			1					
25	1,5							
35 50	2,6 3,8			XH-500-3	3,0	3,4	50	3,8
75	5,6		I	XH-500-3.5	3,5	3,9	55	3,8
100	7,5	XH-500-3	NBR	XH-500-4	4,0	4,3	60	3,8
150 200	11,3 15,0		—PA	XH-500-5 XH-500-6	5,0 6,0	5,5 6,6	70 80	3,8 3,8
			PAfab	XH-750-3	3,0	3,3	60	5,6
100 100	9,8 9,8		NBR	XH-750-4 XH-750-6	4,0 6,0	4,4 6,6	70 80	5,6 5,6
100	3,0			XH-750-6 XH-1000-4	4,0	4,4	75	7,5
250	18,8							
300 400	22,5 30,0							
400	30,0	XH-3S-3	NES					
00	0.0		NBR PA	XH-3S-3	2,85	3,2	50	3,4
60 60	3,8 3,8		PAfab	XH-3S-4 XH-3S-6	3,85 5,85	4,1 6,4	60 80	3,4 3,4
	0,0		NBR	7 00 0	5,55	J,=		J, .



CFTG

The advantages briefly:

- Excellent service life
- Reduced power loss
- Low noise level
- · Small take-up for tensioning
- · Consistency of speed
- · Quick and easy jointing method
- · Chemical resistance
- · Permanently anti-static
- · Variable running direction
- Not sensitive to torsion



same time cost effective. In this way, CFTG belts facili-

tate amongst other things the use of smaller pulley diameters and short take-up for the machine designers.

ZA Q	Thi Change Sa	, TO DE	Min. Puller	Section 19
CFTG-40F	3,0	3,6	70	40
CFTG-60F	3,9	4,5	110	60
	CFTG-40F	CFTG-40F 3,0	CFTG-40F 3,0 3,6	CFTG-40F 3,0 3,6 70





The most stringent requirements for power transmission and conveying along with high performance are met in the range of seamless SE belts. They contribute to the improved performance of diversified equipment by ensuring high speed capability, high rotation accuracy and dimensional consistency.

Super Endless

The Advantages briefly:

- · High energy efficiency
- Thin and light construction
- Maintenance free; no creep elongation
- Seamless: Excellent dimension consistency
- · High rotation accuracy
- Excellent flexibility, bending and abrasion resistant
- Oil, cold, heat, ozone and chemical resistant
- Anti-static
- Low noise



SS

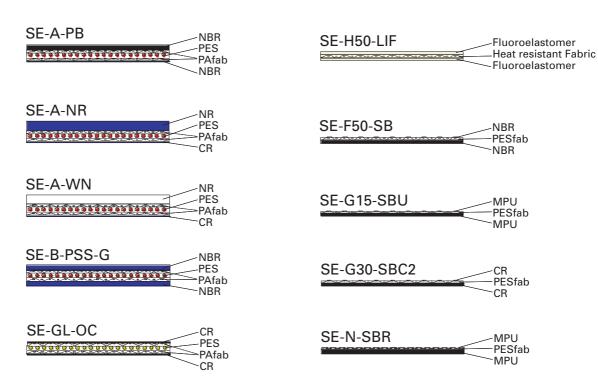
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Examples of Applications:

- Office equipment
- Printing and paper making machines
- Automatic ticket validating machines
- · ATMs, Bank machines
- Ticket dispensers
- · Gaming machines
- Check Weighers
- Photo machines
- Postal machines

Description and Example of the Construction:





NBR = Nitrile rubber (acrylnitrilebutadiene rubber) PAfab = Polyamide fabric

PES = Polyester cord PESfab = Polyester fabric NR = Natural Rubber CR = Chloroprene rubber MPU = Millable polyurethane Glass Cord = Glass Cord



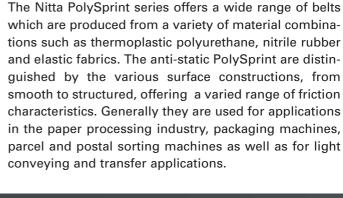
PolySprint

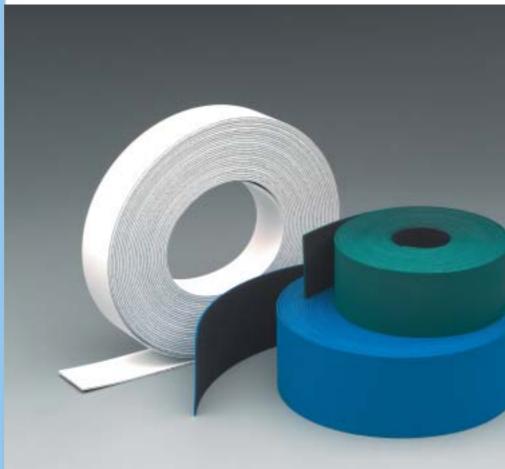
The Advantages briefly:

- Simple installation
- · Long service life
- · Optimal elasticity
- · Highly flexible
- Quiet running
- · Simple jointing procedure
- Non-marking capability









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			S. S.				TO ROBERTO
Example of the Construction:		KAR	Inichalling of San	No de la	\$1.50 \$2.50	So con the Control of	Partie of the Control
TA09 & TA12	TPU1	TA09	0,9	0,9	20	0,45 (5%)	3 to 8
TA-S4G4	TPU2	TA12	1,2	1,1	25	0,65 (5%)	3 to 8
1A-34G4	NBR TPU PES fab	TA-S4G4	1,3	1,4	25	0,55 (2%)	1 to 3
TA CC	PES fab TPU1	17 (0 10 1	1,0	.,.	20	0,00 (270)	1100
TA-S6	TPU1 PES fab TPU TPU8	TA-S6	0,9	1,0	25	0,65 (5%)	3 to 8
TC	TPU1						
	TPU2	TC	1,4	1,5	40	0,75 (5%)	3 to 8
HTA09	TPU4 TPU TPU2	HTA09	0,9	0,9	25	0,5 (5%)	3 to 8
NTA							
IVIA	PES Knit fab	NTA	1,0	0,9	25	0,45 (5%)	3 to 8
OTO 40	TPU2						
STC-10	PES Knit fab	STC-10	1,4	1,3	25	0,5 (5%)	3 to 8
TANI	TPU5						
TA-N	TPU6	TA N	1.0	1.1	25	1.0./20/\	1 to 3
	PES fab TPU TPU2	TA-N	1,0	1,1	25	1,0 (2%)	1 10 3
TD-N	TPU4 PES fab						
	TPU4 TPU2	TD-N	1,0	1,1	40	1,5 (2%)	1 to 3
DB-4E14	TPU1						
	PES fab	DB-4E14	1,4	1,6	25	4,0 (1%)	0,5 to 2
W-4E14							
VV-4L 14	TPU7 PES fab	W-4E14	1,4	1,6	25	4,0 (1%)	0,5 to 2
LA-4E14	TPU7						
LA-4L 14	NBR PES fab	LA-4E14	1,4	1,5	25	4,0 (1%)	0,5 to 2
	TPU NBR		,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
LA-15E20	NBR	LA 45500	0.0	0.0	40	45.0 (40/)	0.5.1.0
\@\@\@\@\@\@\@\@\@\@\@\@\@\@\@\@\@\@\@	PES fab TPU	LA-15E20	2,0	2,2	40	15,0 (1%)	0,5 to 2
SLA-8E14	NBR						
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		SLA-8E14	1,4	1,7	25	8,0 (1%)	0,5 to 2
SG-4E08	PES fab						
33 7200	NBR 2 Hard TPU	SG-4E08	0,8	0,8	15	4,0 (1%)	0,5 to 2
TTE-4E18	Hard TPU PES fab						
1 1 E - 4 E 10	Special PA fab	TTE-4E18	1,8	1,7	40	4,0 (1%)	0,5 to 2
	PES fabric						
TTF-4E10	Special PA fab	TTF-4E10	1,0	1,0	40	4,0 (1%)	0,5 to 2
	PES fabric	1210	.,•	.,•	.0	.,5 (1/0)	5,5 to <u>E</u>
Abbreviations:	PA = Polyamide			TPU3 =	Green,	fine structure	)

#### **Abbreviations:**

NBR = Nitrile Rubber NBR1 = Nitrile Rubber, blue,

fine structure

NBR1 = Nitrile Rubber, green,
fine structure

PA = Polyamide

PAfab = Polyamide fabric

PES = Polyester

PES Knit fab = knit, Polyester fabric

TPU = Polyurethane

TPU1 = Blue, fine structure
TPU2 = Black conductive, rough structure

TPU4 = Green, Hard TPU, smooth structure

TPU5 = Black conductive, smooth structure

TPU6 = Blue, smooth structure
TPU7 = White, fine structure
TPU8 = Black conductive,
fine structure



# New Light Grip

The Advantages briefly:

- High speed capability
- Precise transportation of goods
- Suitable for foodstuffs
- · Allows compact design



coated New Light Grips.

Combining advanced Nitta technology with the latest materials available on the market, the New Light Grip range is specifically designed and manufactured for use in the light duty transportation of goods. In addition, for specialised applications Nitta offers a range of teflon



Example of the Construction:		KARO C	Paris Constitution of the		A SECOND	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
NRT-0	— NBR — PAfab — NBR — PESfab	NRT-0	5,0	4,8	100	0,7
NRT-100	— NBR — PESfab	NRT-100	4,5	3,6	50	6,0
NRT-300	—NBR <del>→</del> PESfab	NRT-300	6,5	6,5	100	6,0
NRT-500	— NBR — PAfab — PA ─ NBR	NRT-500	6,0	5,6	90	3,8
GH-15Z	— NBR — PESfab	GH-15-Z GH-20-Z GH-30-Z	1,6 2,1 3,0	2,0 2,4 3,5	30 40 100	6,0 6,0 15,0
GSTW-20	—EPDM —PESfab	GSTW-20	2,0	2,0	50	6,0
GUF-6AK	TEFLON TPU PESfab	GUF-6AK	0,8	0,8	30	2,0
GUF-12AK	TEFLON TPU PESfab TPU	GUF-12AK	1,3	1,5	50	4,0
GUTW-12A	— TPU → PESfab → TPU	GUTW-12A	1,8	1,7	30	4,0
WEU-12ANF	—TPU —PESfab ─TPU	WEU-12 ANI	F 1,4	1,3	20	2,0
WU-6A	— TPU — PESfab	WU-6A	0,7	0,7	15	2,0

#### Abbreviations:

PA PAfab PESfab TPU = Polyamide= Polyamide fabric= Polyester fabric= Polyurethane EPDM Teflon NBR

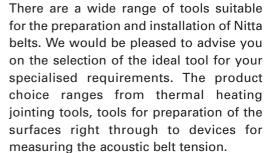
= Ethylenpropylenterpolymer = Teflon coated = Nitrile Rubber (acrylnitrilebutadiene rubber)



# Sonic Tension Meter

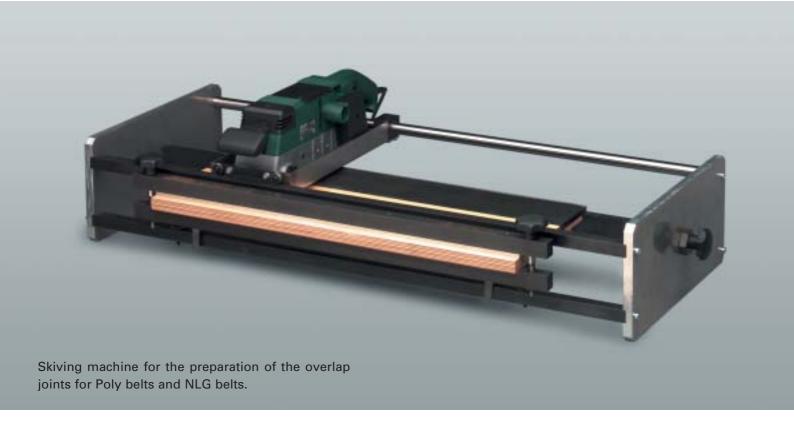
With this revolutionary non-contact device the belt tension can be accurately determined using acoustic soundwaves. (picture below)





Call us or send an email!









Left: Heating press HPL-300 for overlap joints for Poly Belts (maximum belt width: 300mm)





# Nitta Industries Europe GmbH

Nitta is an innovative player in the area of power transmission and conveyor belting. The Poly (polyamide flat belts), Super Endless (seamless belts), PolySprint (machine tapes) CFTG belts (aramide flat belts) and the appropriate machine tools for splicing combine the highest quality standards with modern, innovative materials and production methods.

#### **NITTA HISTORY AND FIGURES**

For more than a century, since the company was established in 1885, we have been at the forefront of technology in the power transmission field and have won our customers trust with our quality and technical excellence.

Nitta started its business activities in transmission belting systems. Today, our business includes conveyance systems, rubber and resin precision molding, air filtration, mechatronics and various sensors, thermoplastic hose and tubing, timing belts and precision polishing systems.





#### NITTA INDUSTRIES EUROPE GmbH

Hansaallee 201 • 40549 Düsseldorf • Germany Tel.: +49(0)211/537535-0 • Fax +49(0)211/537535-35 www.nitta.de





