

We have a good grip  
of the power transmission



FLEXIBLE COUPLINGS

TAPER BUSHES

TIMING BELTS

PULLEYS FOR TIMING BELTS

TIMING BELTS FOR FOOD INDUSTRY

DRAW DOWN BELTS

HEAT RESISTANT BELTS

SPECIAL TIMING BELTS

[www.bervina.com](http://www.bervina.com)

## LOCALIZATION OF OUR COMPANY

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### New Bervina Headquarters

The company built a new headquarters in a green field operation and moved out from center of capital to a nearby industrial area around Budapest.

The new facility is equipped with precise ventilation system and clean room for manufacturing FDA timing belts using green energy to operate it.

## INTRODUCTION

**Company Profile:** Manufacturer of cast timing belts, VFFS belts, shaft couplings and taper bushes

**Location:** European Union, HUNGARY, The industrial area around Budapest

**Know-how:** Manufacturing PT components based on patented technology since 1982

**Patent number:** PO4030/83

**Quality contr. System:** ISO 9001:2000

With a history and traditions extending 35 years Bervina has been manufacturing high quality mechanical power transmission elements for both OEM and MRO market. Focusing the needs of our several hundreds of customers from all continents the company has built a brand.

“Good people” this is the expression our customers use when they are talking about our team. We are very proud of the favorable image and reputation we managed to gain during our several decades of operation.

Thanks to sharp delivery of quality products, continuous innovations and friendly customer service Bervina dynamically expand.

The company is member of EPTDA since 2011.

Bervina has an intensive export activity - 94% of all sales - based on mutual TRUST.

No other company is able to cast any timing belts in the whole Region we operate.

This year we celebrate the great event of moving to our brand new headquarters using green energy and equipped with precise ventilation system. The contemporary design building is surrounded with a beautiful garden with singing birds in it.

CSR of the company also includes having only one shift in order to defend employees' health.

Budapest, March, 2017



**Agota Bernath MBA**  
CEO of Bervina



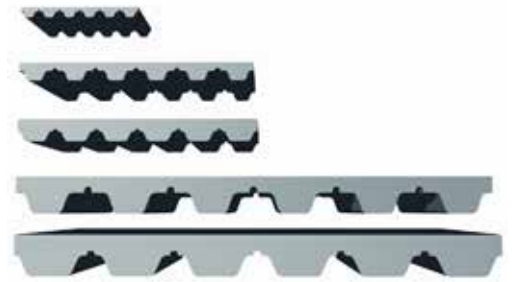
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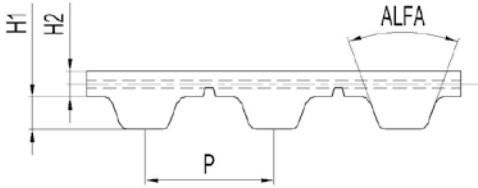
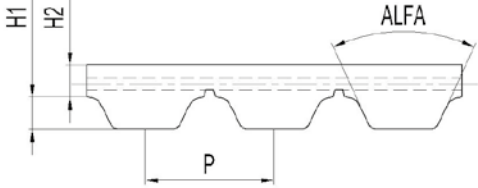
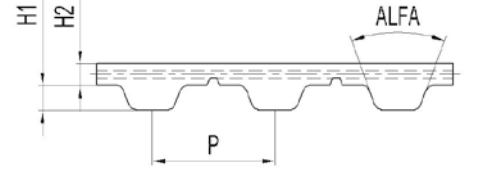
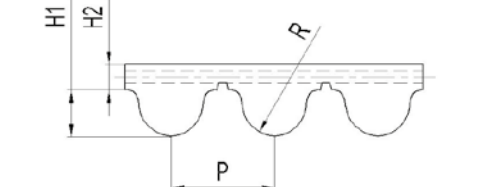
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# CAST TIMING BELTS

- Metric profiles:**
- T2,5, T5, T10
  - AT3, AT5, AT10
  - HTD
- Inch profiles:**
- M, XL, L, H



Profile	P	ALFA	H1	H2	Geometry
T2.5	2,5	40°	0,7	0,6	
T5	5	40°	1,2	1	
T10	10	40°	2,5	2	
T20	20	40°	5	3	
AT3	3	50°	1,1	0,8	
AT5	5	50°	1,2	1,5	
AT10	10	50°	2,5	2,5	
AT20	20	50°	5	4	
M	2,032	40°	0,51	0,64	
XL	5,08	40°	1,32	1,22	
L	9,525	40°	1,85	1,7	
H	12,7	40°	2,18	2	
	<b>P</b>	<b>R</b>	<b>H1</b>	<b>H2</b>	
HTD-3M	3	0,87	1,2	1,2	
HTD-5M	5	1,49	2,1	1,5	
HTD-8M	8	2,46	3,38	2,22	

## Dimension limitation:

Belt length: 150mm - 1500mm  
 Max. sleeve width: 70 - 210mm (depending on pitch and belt length)

## Materials:

30-90 ShA Pu  
 60-90 ShA FDA approved Pu  
 85-90 ShA Heat resistant Pu



## CLEATED BELTS

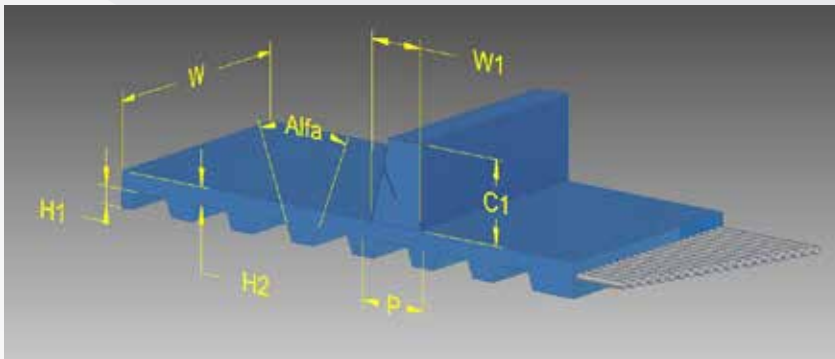
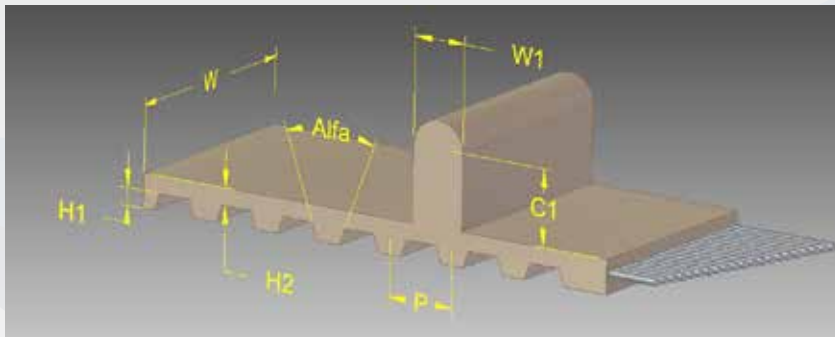
**Application field:** Packaging industry  
Food industry  
Heavy transport system

**Advantages:** Life span is appr. 3 times more, compared with the same belt with welded profiles



### Mechanical and Chemical Properties:

- o Profiles and belts are moulded as one
- o Custom tooled profiles in almost any configuration
- o Long life span
- o High abrasion resistance
- o Belt hardness is between 30-90 Shore A
- o Good hydrolysis resistance
- o Free maintenance
- o Made of environmentally friendly FDA PU as well

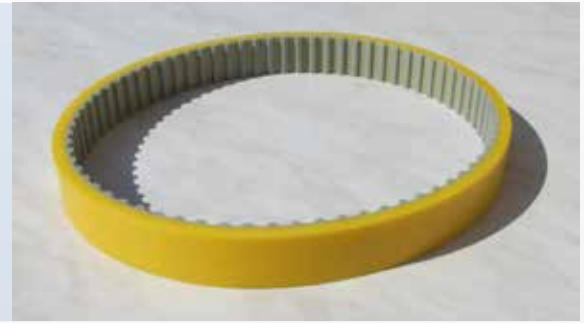


## DOUBLE MOULDED PU TIMING BELTS

**Application field:** packaging and paper industry

**Advantages:** long life-span  
good adhesion  
excellent abrasion resistance  
optional direction of rotation  
without glue

**Application:** pulling-off belts of VFFS packaging machines



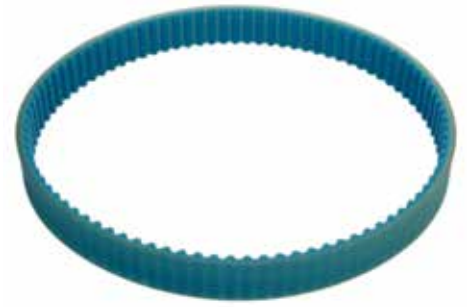
Type	Application sample	Pitch	Lenght (mm)	Width (mm)	Cord	Material of basic belt	Color of basic belt	Construction	Thickness of coating	Color of coating	Coating (ShA)
T2,5-330		2,5	330	max. 75	kevlar	PU (90±2ShA)	optional	cord support inside	3	natur	30-90
T5-260		5	260	max. 65	steel	PU (90±2ShA)	optional	cord support inside	3	optional	30-90
T5-270		5	270	max 65	steel	PU (90±2ShA)	optional	cord support inside	3	optional	30-90
AT5-660		5	660	max 90	steel	PU (90±2ShA)	gray	cord support inside	5,8,10	optional	30-90
AT5 710		5	710	max 90	steel	PU (90±2ShA)	gray	cord support inside	8	optional	30-90
187 L		9,525	476,25	max. 152,4(6")	kevlar	PU (90±2ShA)	blue	cord support inside	3	optional	30-90
210 L		9,525	533,4	max 100	kevlar	PU (90±2ShA)	gray	cord support inside	4	optional	30-90
240 L		9,525	609,6	max 95	kevlar/steel	PU (90±2ShA)	gray	cord support inside	6	optional	30-90
270 L		9,525	609,6	max 105	kevlar/steel	PU (90±2ShA)	gray	cord support inside	6	optional	30-90
320 XL		5,08	609,6	max 80	kevlar/steel	PU (90±2ShA)	gray	cord support inside	4	optional	30-90
T10 560		10	560	max 80	kevlar/steel	PU (90±2ShA)	gray	cord support inside	8	optional	30-90
T10 630	Rovema	10	630	max 95	kevlar	PU (90±2ShA)	optional	cord support outside	6	optional	30-90
T10 650		10	650	max 105	kevlar/steel	PU (90±2ShA)	gray	cord support inside	6	optional	30-90
T10 660		10	660	max 100	kevlar/steel	PU (90±2ShA)	gray	cord support inside	3	optional	30-90
T10 700		10	700	max 100	kevlar	PU (90±2ShA)	optional	cord support outside	3	optional	30-90
T10 720		10	720	max 95	kevlar	PU (90±2ShA)	optional	cord support outside	6	optional	30-90
S8M 656		8	656	max 75	glass	Rubber	black	without cord support	6	optional	30-90
RPP3M 174		3	174	max 85	glass	Rubber	black	without cord support	3	optional	30-90

### Notes:

1. All poliurethane covered belts are coated with a one piece moulded, endless and refined cover, so the direction of rotation can be optional
2. The most of the cases Steel cord can be replaced optionally by Kevlar.

## KOMAX BELTS AND ROLLERS

- Application field:** cable industry
- Advantages:** long life-span  
good adhesion  
excellent abrasion resistance  
double moulded, without glue  
optional direction of rotation
- Application:** e.g. pulling-off belts of cable pulling machines

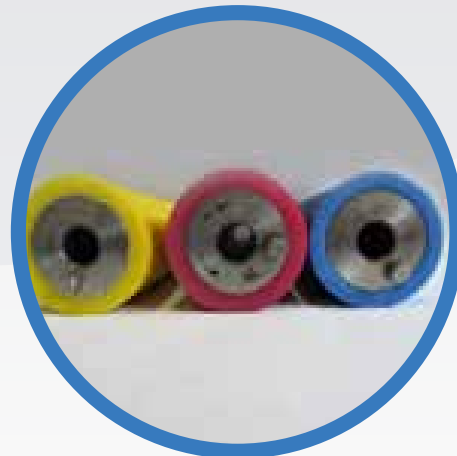


Type	Application sample	Pitch (mm)	Length (mm)	Width (mm)	Cord	Material of basic belt	Color of basic belt	Construction	Thickness of coating	Color of coating	Coating (ShA)
T5-455	Komax	5	455	max. 96	Steel/kevlar	PU (90±2ShA)	blue	cord support inside	2	natur	72
AT5-320	Komax	5	320	max. 80	Steel/kevlar	PU (90±2ShA)	blue	cord support inside	1,5-2	natur	72

We can add new sizes according to customer needs.

### Roller with Pu cover

Type:	Color:	Hardness (Shore A)	Diameter: (mm)
R1	Blue	40	42,5
R2	Yellow	50	43
R3	Black	60	42
R4	Green	60	43
R5	Red	60	43,5





## FDA QUALITY PU TIMING BELTS

<b>Application field:</b>	food industry pharmaceutical industry
<b>Hardness:</b>	60-90 ShA
<b>Cord:</b>	SS, kevlar



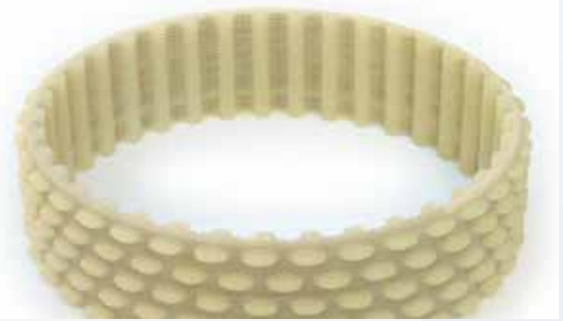
**FDA certificate: A2015-ETBI-022527**

You can choose available sizes from our tooling list (<https://bervina.com/fda-polyurethan-timing-belt/>), or order a special, exclusive tooling according to your application needs.



## BELTS FOR FOOD INDUSTRY

<b>Fields of use:</b>	sausage industry
<b>Advantages:</b>	long life-span special construction for food industry FDA-compatibility cord: stainless steel
<b>Application sample:</b>	forwarding sausage-like products



### One layer FDA sausage belt ( 80 ShA)



Type	Application sample	Pitch p (mm)	Length (mm)	Width (mm)	Cord reinforcement	Material of the belt	Color of the belt	Hardness (ShA)
32 T5 330 Pu/SS FDA	Food industry	5	330	32	stainless steel	PU	nature	80
32 T5-625 Pu/SS FDA	Food industry	5	625	32	stainless steel	PU	nature	80
32 T5 840 Pu/SS FDA	Food industry	5	840	32	stainless steel	PU	nature	80
32 T10-370 Pu/SS FDA	Food industry	10	370	32	stainless steel	PU	nature	80
32 T10-840 Pu/SS FDA	Food industry	10	840	32	stainless steel	PU	nature	80

# FDA PU TIMING BELT WITH FDA SILICONE COVER

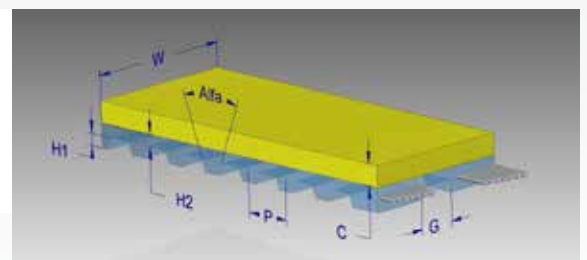
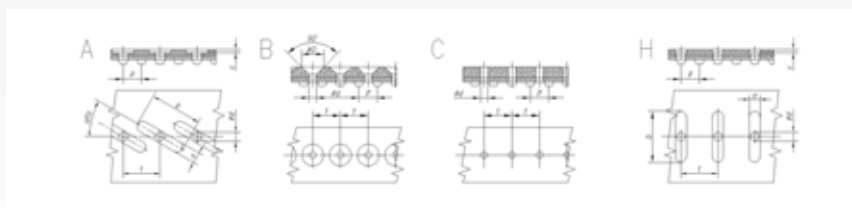
**Application field:** packaging and paper industry

**Advantages:** long life-span  
good adhesion  
excellent abrasion resistance  
optional direction of rotation

**Application:** pulling-off belts of VFFS packaging machines



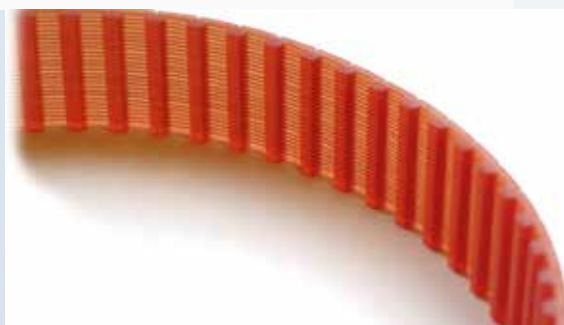
Type:	Tooth Profile:	Length (mm)	Max Width W (mm)	Cord reinforcement:	Grinding on tooth side: (mm)	Coating (max-min) (mm)	Coating (ShA)	Optional Vacuum Constr.:	P (mm)	Alfa/R (°/mm)	H1 (mm)	H2 (mm)
T2,5-330	T2,5	330	60	Kevlár		2-3	25-40	-	2,5	40 °	0,7	0,6
T5-455	T5	455	60	SS		2-3	25-40	-	5	40 °	1,2	1
T5-500	T5	500	50	SS		3-6	25-40	-	5	40 °	1,2	1
T5-560	T5	560	50	SS		3-6	25-40	-	5	40 °	1,2	1
T5-610	T5	610	50	SS		3-6	25-40	-	5	40 °	1,2	1
T5-630	T5	630	60	SS		2-6	25-40	-	5	40 °	1,2	1
T5-690	T5	690	50	SS		3-6	25-40	-	5	40 °	1,2	1
T5-720	T5	720	40	SS		3-6	25-40	-	5	40 °	1,2	1
AT5-420	AT5	420	50	SS		3-6	25-40	-	5	50 °	1,2	1,5
T10-630	T10	630	60	kevlár	optional	2-6	25-40	A, B, C, H	10	40 °	2,5	2
T10-700	T10	700	50	kevlár	optional	3-6	25-40	A, B, C, H	10	40 °	2,5	2
T10-780	T10	780	50	kevlár	optional	3-6	25-40	A, B, C, H	10	40 °	2,5	2
T10-920	T10	920	50	kevlár	optional	3-6	25-40	A, B, C, H	10	40 °	2,5	2
130 XL	XL	330,2	60	SS		2-3	25-40	-	5,08	40 °	1,32	1,22
150 XL	XL	381	50	SS		3-6	25-40	-	5,08	40 °	1,32	1,22
180 XL	XL	457,2	60	SS		2-3	25-40	-	5,08	40 °	1,32	1,22
240 L	L	609,6	50	SS		3-6	25-40	-	9,525	40 °	1,85	1,7



# HEAT RESISTANT PU TIMING BELT UP TO 100 °C

## Mechanical and Chemical Properties:

Heat resistance on operating temperature  
100°C  
Very good resistance to hydrolysis  
Good resistance to oil, solvents, hydrocarbons  
Silent operations



Type:	Tooth Profile:	Length: (mm)	Max Width: W (mm)	Cord reinforcement:	P (mm)	Alfa/R (°/mm)	H1 (mm)	H2 (mm)
T2,5-200	T2,5	200	72	Steel, Kevlar	2,5	40 °	0,7	0,6
T2,5-330	T2,5	330	88	Kevlar	2,5	40 °	0,7	0,6
T5-165	T5	165	72	Steel, Kevlar	5	40 °	1,2	1
T5-185	T5	185	70	Kevlar	5	40 °	1,2	1
T5-220	T5	220	70	Kevlar	5	40 °	1,2	1
T5-245	T5	245	70	Steel, Kevlar	5	40 °	1,2	1
T5-250	T5	250	70	Steel, Kevlar	5	40 °	1,2	1
T5-255	T5	255	70	Kevlar	5	40 °	1,2	1
T5-260	T5	260	75	Steel, Kevlar	5	40 °	1,2	1
T5-270	T5	270	75	Steel, Kevlar	5	40 °	1,2	1
T5-280	T5	280	75	Steel, Kevlar	5	40 °	1,2	1
T5-305	T5	305	75	Steel, Kevlar	5	40 °	1,2	1
T5-455	T5	455	105	Glass, Steel, Kevlar	5	40 °	1,2	1
T5-500	T5	500	75	Glass, Steel, Kevlar	5	40 °	1,2	1
T5-510	T5	510	75	Kevlar	5	40 °	1,2	1
T5-560	T5	560	75	Glass, Steel, Kevlar	5	40 °	1,2	1
T5-610	T5	610	75	Glass, Steel, Kevlar	5	40 °	1,2	1
T5-630	T5	630	98	Glass, Steel, Kevlar	5	40 °	1,2	1
T5-690	T5	690	75	Glass, Steel, Kevlar	5	40 °	1,2	1
T5-720	T5	720	85	Glass, Steel, Kevlar	5	40 °	1,2	1
T5-750	T5	750	75	Steel, Kevlar	5	40 °	1,2	1
T5-815	T5	815	75	Glass, Kevlar	5	40 °	1,2	1
T5-900	T5	900	75	Kevlar	5	40 °	1,2	1
AT5-320	AT5	320	70	Steel, Kevlar	5	50 °	1,2	1,5
AT5-420	AT5	420	75	Glass, Steel, Kevlar	5	50 °	1,2	1,5
AT10-580	AT10	580	70	Glass, Steel, Kevlar	10	50 °	2,5	2,5
T10-370	T10	370	70	Glass, Steel, Kevlar	10	40 °	2,5	2
T10-630	T10	630	105	Glass, Steel, Kevlar	10	40 °	2,5	2
T10-700	T10	700	105	Glass, Kevlar	10	40 °	2,5	2
T10-780	T10	780	75	Glass, Steel, Kevlar	10	40 °	2,5	2
T10-840	T10	840	70	Steel, Kevlar	10	40 °	2,5	2
T10-910	T10	910	75	Steel, Kevlar	10	40 °	2,5	2
T10-920	T10	920	210	Glass, Steel, Kevlar	10	40 °	2,5	2
T10-1110	T10	1110	70	Kevlar	10	40 °	2,5	2
84 XL	XL	213,36	75	Kevlar	5,08	40 °	1,32	1,22
100 XL	XL	254	75	Kevlar, Glass	5,08	40 °	1,32	1,22
102 XL	XL	259,08	75	Kevlar, Glass	5,08	40 °	1,32	1,22
120 XL	XL	304,8	75	Steel, Kevlar	5,08	40 °	1,32	1,22
130 XL	XL	330,2	75	Glass, Steel, Kevlar	5,08	40 °	1,32	1,22
134 XL	XL	340,36	75	Kevlar	5,08	40 °	1,32	1,22
150 XL	XL	381	75	Glass, Kevlar	5,08	40 °	1,32	1,22
180 XL	XL	457,2	75	Glass, Steel, Kevlar	5,08	40 °	1,32	1,22
187 L	L	474,98	155	Steel, Kevlar	9,525	40 °	1,85	1,7
240 L	L	609,6	75	Glass, Steel, Kevlar	9,525	40 °	1,85	1,7
285 L	L	723,9	75	Glass, Steel, Kevlar	9,525	40 °	1,85	1,7
322 L	L	817,88	70	Glass, Steel, Kevlar	9,525	40 °	1,85	1,7
340 L	L	863,6	90	Kevlar	9,525	40 °	1,85	1,7

# HEAT RESISTANT SILICONE TIMING BELT UP TO 200 °C

**Application field:** Aluminium industry  
Oven, stove, furnace

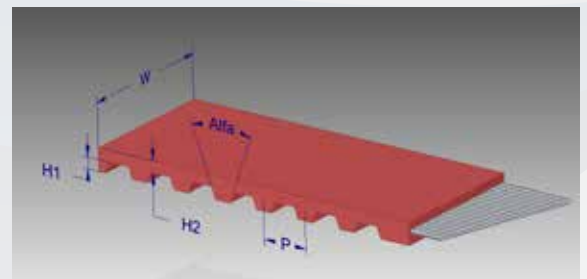
**Mechanical and Chemical Properties** Heat resistance on operating temperature 200°C (on short run up to 230°C)  
Very good resistance to hydrolysis  
Good resistance to oil, solvents, hydrocarbons  
Silent operations



Type:	Tooth Profile:	Length: (mm)	Max Width: W (mm)	Cord reinforcement:	Grinding on tooth side:(mm)	Coating (max-min) (mm)	Coating (ShA)	P (mm)	Alfa/R (°/mm)	H1 (mm)	H2 (mm)
AT5-320	AT5	320	70	Glass	-	-	-	5	50 °	1,2	1,5
AT5-420	AT5	420	75	Glass	-	-	-	5	50 °	1,2	1,5
AT10-580	AT10	580	70	Glass	-	-	-	10	50 °	2,5	2,5
T10-630	T10	630	105	Glass	-	-	-	10	40 °	2,5	2
T10-700	T10	700	105	Glass	-	-	-	10	40 °	2,5	2
T10-780	T10	780	75	Glass	-	-	-	10	40 °	2,5	2
187 L	L	474,98	155	Glass	-	-	-	9,525	40 °	1,85	1,7
240 L	L	609,6	75	Glass	-	-	-	9,525	40 °	1,85	1,7
285 L	L	723,9	75	Glass	-	-	-	9,525	40 °	1,85	1,7

**Notes:**

1. The loadability of silicone belt is appr. 10% of the same profiled Pu belt, so it is offered for transporting.





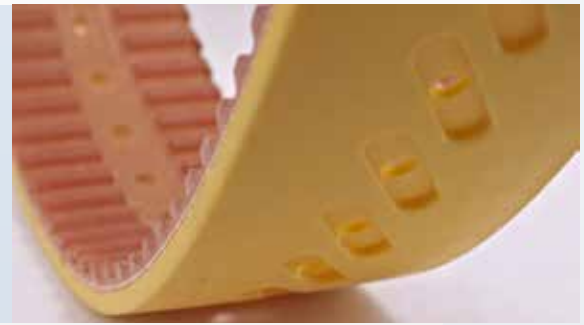
# HEAT RESISTANT PU TIMING BELT WITH SILICONE COVER UP TO 100 °C

**Application field:**

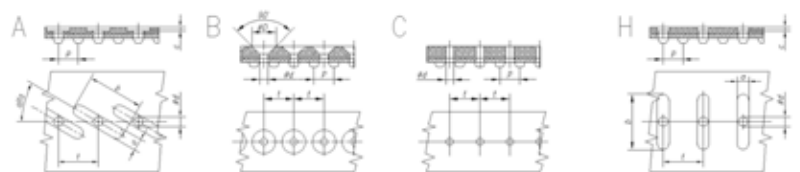
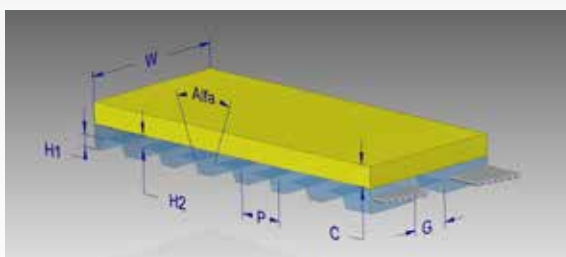
packaging industry  
paper industry  
ceramic industry

**Advantages:**

long life-span  
good adhesion  
excellent abrasion resistance  
optional direction of rotation



Type:	Tooth Profile:	Length (mm)	Max Width W (mm)	Cord reinforcement:	Grinding on tooth side: (mm)	Coating (max-min) (mm)	Coating (ShA)	Optional Vacuum Constr.:	P (mm)	Alfa/R (°/mm)	H1 (mm)	H2 (mm)
T2,5-330	T2,5	330	60	Kevlár		2-3	25-40	-	2,5	40 °	0,7	0,6
T5-455	T5	455	60	SS		2-3	25-40	-	5	40 °	1,2	1
T5-500	T5	500	50	SS		3-6	25-40	-	5	40 °	1,2	1
T5-560	T5	560	50	SS		3-6	25-40	-	5	40 °	1,2	1
T5-610	T5	610	50	SS		3-6	25-40	-	5	40 °	1,2	1
T5-630	T5	630	60	SS		2-6	25-40	-	5	40 °	1,2	1
T5-690	T5	690	50	SS		3-6	25-40	-	5	40 °	1,2	1
T5-720	T5	720	40	SS		3-6	25-40	-	5	40 °	1,2	1
AT5-420	AT5	420	50	SS		3-6	25-40	-	5	50 °	1,2	1,5
T10-630	T10	630	60	kevlár	optional	2-6	25-40	A, B, C, H	10	40 °	2,5	2
T10-700	T10	700	50	kevlár	optional	3-6	25-40	A, B, C, H	10	40 °	2,5	2
T10-780	T10	780	50	kevlár	optional	3-6	25-40	A, B, C, H	10	40 °	2,5	2
T10-920	T10	920	50	kevlár	optional	3-6	25-40	A, B, C, H	10	40 °	2,5	2
130 XL	XL	330,2	60	SS		2-3	25-40	-	5,08	40 °	1,32	1,22
150 XL	XL	381	50	SS		3-6	25-40	-	5,08	40 °	1,32	1,22
180 XL	XL	457,2	60	SS		2-3	25-40	-	5,08	40 °	1,32	1,22
240 L	L	609,6	50	SS		3-6	25-40	-	9,525	40 °	1,85	1,7



# POLYURETHAN TIMING BELT WITH SILICON COVER

**Fields of use:** packaging industry

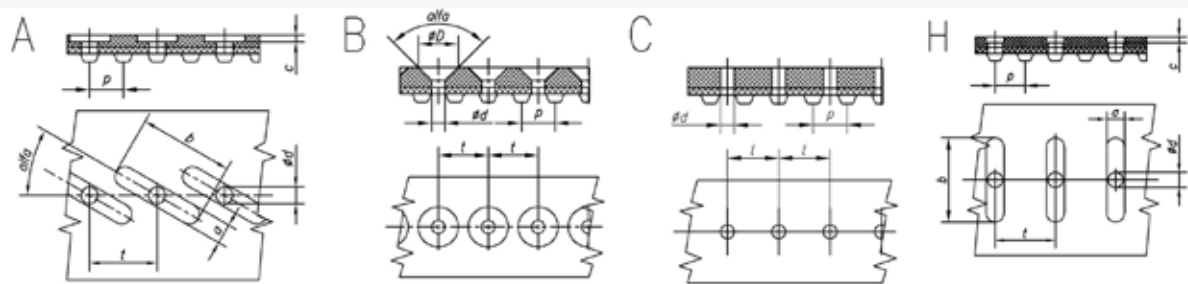
**Advantages:** long life-span  
good adhesion  
excellent abrasion resistance  
optional direction of rotation

**Application sample:** pulling-off belts of FFS packaging machines



Type	Application sample	Pitch p (mm)	Length (mm)	Width (mm)	Cord reinforcement	Material of the basic belt	Color of the basic belt	Construction of the basic belt
T2,5-330 + 2,9Si		2,5	330	20	kevlar	PU (90±2 ShA)	natur	cord support inside
T5-455 + 3Si		5	455	max 65	steel	PU (90±2 ShA)	blue	cord support inside
T10-630 + 6Si	Rovema	10	630	25, 28, 30, 50	kevlar	PU (90±2 ShA)	red-brown	cord s. outside
T10-630 + 6Si		10	630	max 50	kevlar	PU (90±2 ShA)	red-brown	cord s. outside
T10-630 + 4Si		10	630	max 50	kevlar	PU (90±2 ShA)	red-brown	cord s. outside
T10-660 + 3Si	SZCS-25	10	660	max 50	steel	PU (90±2 ShA)	natur	cord support inside
T10-700 + 6Si	Wolf	10	700	max 50	kevlar	PU (90±2 ShA)	red-brown	cord support inside
T10-780 + 6Si		10	780	max 50	kevlar	PU (90±2 ShA)	red-brown	cord s. outside
T10-920 + 6Si		10	920	max 50	kevlar	PU (90±2 ShA)	red-brown	cord s. outside
T10-920 + 3.5Si	Bosch	10	920	50	kevlar	PU (90±2 ShA)	red-brown	cord s. outside
255 L + 6Si	FMC 700, Simionate	9,525	647,7	max 40	kevlar	PU (90±2 ShA)	red-brown	cord support inside

Type	Grinding on tooth side (mm)	Coating (mm)	Coating (ShA)	Vacuum Constr.	Perforation	a	b	c	ØD	Ød	alfa	t (mm)
T2,5-330 + 2,9Si	-	2,9	30	yes	C	-	-	-	-	-	-	-
T5-455 + 3Si	optional	3	35	no	-	-	-	-	-	-	-	-
T10-630 + 6Si	16	6	35 / 45	optional	B / C	-	-	-	12	4	90°	1,5p
T10-630 + 6Si	optional	6	35 / 45	yes	C	-	-	-	-	-	-	-
T10-630 + 4Si	optional	4	35 / 45	optional	B / C	-	-	-	8	4	90°	1,5p / 2p
T10-660 + 3Si	optional	3	35 / 45	no	-	-	-	-	-	-	-	-
T10-700 + 6Si	optional	6	35 / 45	yes	C	-	-	-	-	-	-	-
T10-780 + 6Si	optional	6	35 / 45	optional	B / C	-	-	-	12	4	90°	1,5p / 2p
T10-920 + 6Si	optional	6	35 / 45	optional	B / C	-	-	-	12	4	90°	1,5p / 2p
T10-920 + 3.5Si	14	3,5	35	optional	A / C	6	28	2	-	5	30°	2p
255 L + 6Si	optional	6	35 / 45	yes	C	-	-	-	-	-	-	-



# NEOPRENE TIMING BELT WITH SILICON COVER

**Fields of use:** packaging industry

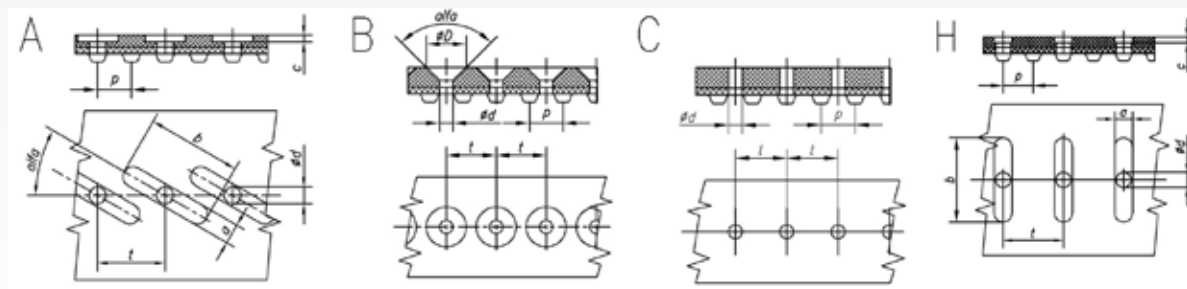
**Advantages:** long life-span  
good adhesion  
excellent abrasion resistance  
optional direction of rotation

**Application sample:** pulling-off belts of FFS packaging machines



Type	Application sample	Pitch (mm)	Length (mm)	Width (mm)	Cord reinforcement	Material of the basic belt	Color of the basic belt
T5-455 + 3Si		5	455	max 65	glass	rubber	black
T10-630 + 6Si	Rovema/ Kopas	10	630	25, 28, 30, 50	glass	rubber	black
T10-660 + 3Si	SZCS-25	10	660	max 50	glass	rubber	black
T10-700 + 6Si	Wolf	10	700	max 50	glass	rubber	black
T10-720 + 6Si	Altopack	10	720	max 40	glass	rubber	black
T10-780 + 6Si	Rovema	10	780	max 50	glass	rubber	black
T10-800 + 6Si		10	800	max 50	glass	rubber	black
T10-920 + 6Si		10	920	max 50	glass	rubber	black
T10-920 + 3.5Si	Bosch	10	920	50	glass	rubber	black
225L + 4,5Si	Hassia	9,525	571,5	25,4	glass	rubber	black
240 L + 6Si		9,525	609,6	max 50	glass	rubber	black
255 L + 6Si	FMC 700, Simionate	9,525	647,7	max 40	glass	rubber	black

Type	Grinding on tooth side (mm)	Coating (mm)	Coating (ShA)	Vacu. constr.	Perforation type	a	b	c	ØD	Ød	alfa	t (mm)
T5-455 + 3Si	optional	3	35	yes	C	-	-	-	-	-	-	-
T10-630 + 6Si	16	6	35	optional	B / C	-	-	-	12	4	90°	1,5p
T10-660 + 3Si	optional	3	35	yes	C	-	-	-	-	-	-	-
T10-700 + 6Si	optional	6	35	yes	C	-	-	-	-	-	-	-
T10-720 + 6Si	15	6	35	optional	A / C	6	20	2	-	6	45°	1,5p
T10-780 + 6Si	optional	6	35	yes	C	-	-	-	-	-	-	-
T10-920 + 6Si	optional	6	35	optional	A / C	6	28	2	-	5	30°	2p
T10-800 + 6Si	optional	6	35	yes	C	-	-	-	-	-	-	-
T10-920 + 3.5Si	14	3,5	35	optional	A / C	6	28	2	-	5	30°	2p
225L + 4,5Si	15	6	35	yes	C	-	-	-	-	-	-	-
240 L + 6Si	optional	6	35	yes	C	-	-	-	-	-	-	-
255 L + 6Si	optional	6	35	yes	C	-	-	-	-	-	-	-



# NEOPRENE TIMING BELT WITH LINATEX COVER

**Fields of use:** packaging industry

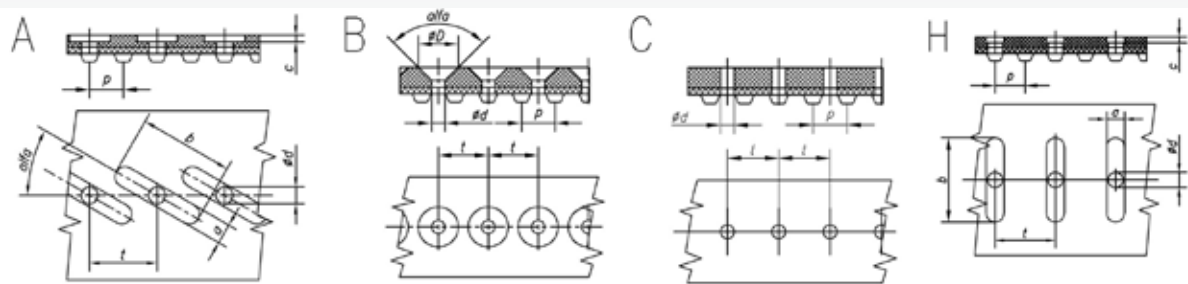
**Advantages:** long life-span  
good adhesion  
excellent abrasion resistance  
optional direction of rotation

**Application sample:** pulling-off belts of FFS packaging machines



Type	Application sample	Pitch p (mm)	Length (mm)	Width (mm)	Cord reinforcement	Material of the basic belt	Color of the basic belt
T5-455 + 3Li		5	455	max 65	glass fiber	neoprene	black
T10-630 + 6Li	Rovema/ Kopas	10	630	25, 28, 30, 50	glass fiber	neoprene	black
T10-660 + 3Li	SZCS-25	10	660	max 50	glass fiber	neoprene	black
T10-700 + 6Li	Wolf	10	700	max 50	glass fiber	neoprene	black
T10-720 + 6Li	Altopack	10	720	max 40	glass fiber	neoprene	black
T10-780 + 6Li	Rovema	10	780	max 50	glass fiber	neoprene	black
T10-800 + 6Li		10	800	max 50	glass fiber	neoprene	black
T10-920 + 6Li		10	920	max 50	glass fiber	neoprene	black
T10-920 + 3.5Li	Bosch	10	920	50	glass fiber	neoprene	black
225L + 4,5Li	Hassia	9,525	571,5	25,4	glass fiber	neoprene	black
240 L + 6Li		9,525	609,6	max 50	glass fiber	neoprene	black
255 L + 6Li	FMC 700, Simionate	9,525	647,7	max 40	glass fiber	neoprene	black

Type	Grinding on tooth side (mm)	Coating (mm)	Coating (ShA)	Vacuum Constr.	Perforation	a	b	c	ØD	Ød	alfa	t (mm)
T5-455 + 3Li	optional	3	35	yes	C	-	-	-	-	-	-	-
T10-630 + 6Si	16	6	35	optional	B / C	-	-	-	12	4	90°	1,5p
T10-660 + 3Li	optional	3	35	yes	C	-	-	-	-	-	-	-
T10-700 + 6Li	optional	6	35	yes	C	-	-	-	-	-	-	-
T10-720 + 6Li	15	6	35	optional	A / C	6	20	2	-	6	45°	1,5p
T10-780 + 6Li	optional	6	35	yes	C	-	-	-	-	-	-	-
T10-920 + 6Li	optional	6	35	optional	A / C	6	28	2	-	5	30°	2p
T10-800 + 6Li	optional	6	35	yes	C	-	-	-	-	-	-	-
T10-920 + 3.5Li	14	3,5	35	optional	A / C	6	28	2	-	5	30°	2p
225L + 4,5Li	15	6	35	yes	C	-	-	-	-	-	-	-
240 L + 6Li	optional	6	35	yes	C	-	-	-	-	-	-	-
255 L + 6Li	optional	6	35	yes	C	-	-	-	-	-	-	-



# POLYURETHAN TIMING BELT WITH LINATEX COVER

**Fields of use:** packaging industry

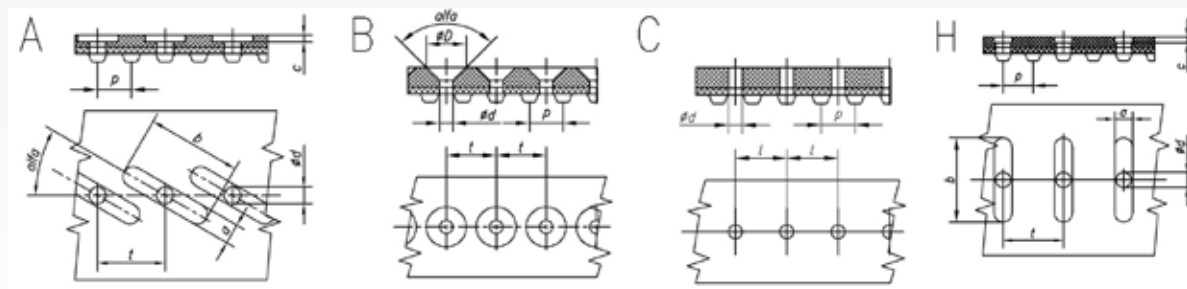
**Advantages:** long life-span  
good adhesion  
excellent abrasion resistance  
optional direction of rotation

**Application samplce:** pulling-off belts of FFS packaging machines



Type	Application sample	Pitch p (mm)	Length (mm)	Width (mm)	Cord reinforcement	Material of the basic belt	Color of the basic belt	Construction of the basic belt
T2,5-330 + 2,9Li		2,5	330	20	kevlar	PU (90±2 ShA)	natur	cord support inside
T5-455 + 3Li		5	455	max 65	steel	PU (90±2 ShA)	blue	cord support inside
T10-630 + 6Li	Rovema	10	630	25, 28, 30, 50	kevlar	PU (90±2 ShA)	red-brown	cord s. outside
T10-630 + 6Li		10	630	max 50	kevlar	PU (90±2 ShA)	red-brown	cord s. outside
T10-630 + 4Li		10	630	max 50	kevlar	PU (90±2 ShA)	red-brown	cord s. outside
T10-660 + 3Li	SZCS-25	10	660	max 50	steel	PU (90±2 ShA)	natur	cord support inside
T10-700 + 6Li	Wolf	10	700	max 50	kevlar	PU (90±2 ShA)	red-brown	cord support inside
T10-780 + 6Li		10	780	max 50	kevlar	PU (90±2 ShA)	red-brown	cord s. outside
T10-920 + 6Li		10	920	max 50	kevlar	PU (90±2 ShA)	red-brown	cord s. outside
T10-920 + 3.5Li	Bosch	10	920	50	kevlar	PU (90±2 ShA)	red-brown	cord s. outside
255 L + 6Li	FMC 700, Simionate	9,525	647,7	max 40	kevlar	PU (90±2 ShA)	red-brown	cord support inside

Type	Grinding on tooth side (mm)	Coating (mm)	Coating (ShA)	Vacuun Constr.	Perforation	a	b	c	ØD	Ød	alfa	t (mm)
T2,5-330 + 2,9Li	-	2,9	35	yes	C	-	-	-	-	-	-	-
T5-455 + 3Li	optional	3	35	no	-	-	-	-	-	-	-	-
T10-630 + 6Li	16	6	35	optional	B / C	-	-	-	12	4	90°	1,5p
T10-630 + 6Li	optional	6	35	yes	C	-	-	-	-	-	-	-
T10-630 + 4Li	optional	4	35	optional	B / C	-	-	-	8	4	90°	1,5p / 2p
T10-660 + 3Li	optional	3	35	no	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	2	-	5	30°	2p
T10-700 + 6Li	optional	6	35	yes	C	-	-	-	-	-	-	-
T10-780 + 6Li	optional	6	35	optional	B / C	-	-	-	12	4	90°	1,5p / 2p
T10-920 + 6Li	optional	6	35	optional	B / C	-	-	-	12	4	90°	1,5p / 2p
T10-920 + 3.5Li	14	3,5	35	optional	A / C	6	28	2	-	5	30°	2p
255 L + 6Li	optional	6	35	yes	C	-	-	-	-	-	-	-





# POLYURETHAN AND NEOPRENE TIMING BELT WITH RUBBER COVER

**Fields of use:** packaging industry

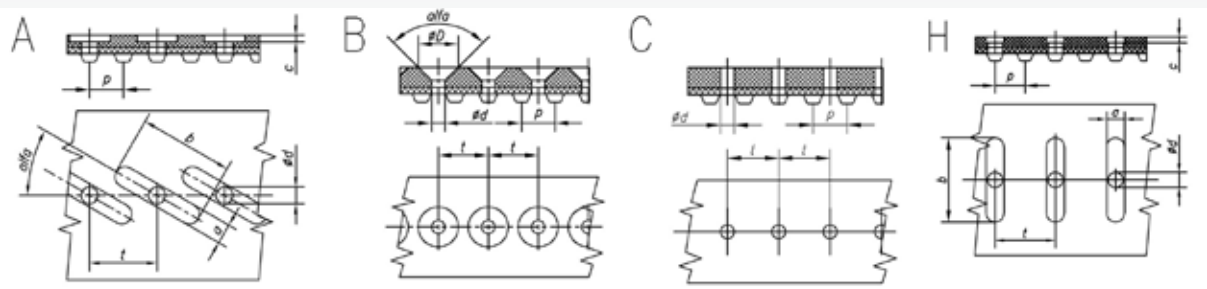
**Advantages:** long life-span  
good adhesion  
excellent abrasion resistance  
optional direction of rotation

**Application sample:** pulling-off belts of FFS packaging machines



Type	Application sample	Pitch (mm)	Length (mm)	Width (mm)	Cord reinforcement	Material of the basic belt	Color of the basic belt	Construction of PU basic belt
T5-455 + 3G		5	455	max 65	steel / kevlar	PU	blue	cord s. inside
T10-630 + 6G	Rovema / Kopas	10	630	25, 28, 30, 50	kevlar / glass	PU / rubber	red-brown / black	cord s. outside
T10-630 + 4G		10	630	max 50	kevlar / glass	PU / rubber	red-brown / black	cord s. outside
T10-660 + 3G	SZCS-25	10	660	max 50	steel / glass	PU / rubber	natur / black	cord s. inside
T10-700 + 6G	Wolf	10	700	max 50	kevlar	PU	red-brown	cord s. inside
T10-720 + 6G	Altopack	10	720	max 40	glass	rubber	black	-
T10-780 + 6G	Rovema	10	780	max 50	kevlar	PU	red-brown	cord s. outside
T10-920 + 6G		10	920	max 50	kevlar	PU	red-brown	cord s. outside
T10-920 + 3.5G	Bosch	10	920	50	kevlar	PU	red-brown	cord s. outside
225L + 6G	Hassia	9,525	571,5	25,4	glass	rubber	black	-
240L + 6G		9,525	609,6	max 50	kevlar / glass	PU / rubber	red-brown / black	cord s. inside
255 L + 6G	FMC 700, Simionate	9,525	647,7	max 40	kevlar / glass	PU / rubber	red-brown / black	cord s. inside

Type	Grinding on tooth side (mm)	Coating (mm)	Coating (ShA)	Vacuum constr.	Perforation type	a	b	c	ØD	Ød	alfa	t (mm)
T5-455 + 3G	optional	3	35	optional	- / C	-	-	-	-	-	-	-
T10-630 + 6G	16	6	35	optional	B / C	-	-	-	12	4	90°	1,5p
T10-630 + 4G	optional	4	35	yes	C	-	-	-	-	-	-	-
T10-660 + 3G	optional	3	35	optional	- / C	-	-	-	-	-	-	-
T10-700 + 6G	optional	6	35	yes	C	-	-	-	-	-	-	-
T10-720 + 6G	15	6	35	optional	A / C	6	20	2	-	6	45°	1,5p
T10-780 + 6G	optional	6	35	optional	B / C	-	-	-	12	4	90°	1,5p / 2p
T10-920 + 6G	optional	6	35	optional	B / C	-	-	-	12	4	90°	1,5p / 2p
T10-920 + 3.5G	14	3,5	35	optional	A / C	6	28	2	-	5	30°	2p
225L + 6G	15	6	35	optional	B / C	-	-	-	10	5	90°	1,5p
240L + 6G	optional	6	35	yes	C	-	-	-	-	-	-	-
255 L + 6G	optional	6	35	yes	C	-	-	-	-	-	-	-



# ISHIDA BELT

**Fields of use:** packaging industry

**Advantages:** long life-span  
good adhesion  
excellent abrasion resistance  
optional direction of rotation

**Application sample:** pulling-off belts of Ishida packaging machines

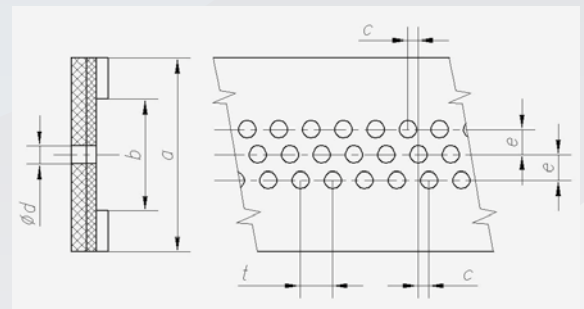


Type	Application sample	Pitch p (mm)	Length (mm)	Width (mm)	Cord reinforcement	Material of the basic belt	Color of the basic belt	Construction of PU basic belt
255H-150 Rubber + 3mm red Rubber	Ishida	12,7	647,7	38,1	glass	rubber	black	-
255H-150 Rubber + 3mm blue Silicone	Ishida	12,7	647,7	38,1	glass	rubber	black	-

Type	Grinding on tooth side, b (mm)	Coating (mm)	Coating (ShA)	Color of the coating	Vacuum construction	c (mm)	Ød (mm)	e (mm)	t (mm)
255H-150 Rubber + 3mm red Rubber	22	3	40	red	yes	2,12	3,5	5	6,35
255H-150 Rubber + 3mm blue Silicone	22	3	40	blue	yes	2,12	3,5	5	6,35

**Notes:**

1. The belt are coated with a one piece moulded, endless and refined cover, so the direction of rotation can be optional.



# SUMMARY FOR THE BELTS WITH SILICON, LINATEX AND RUBBER COVER

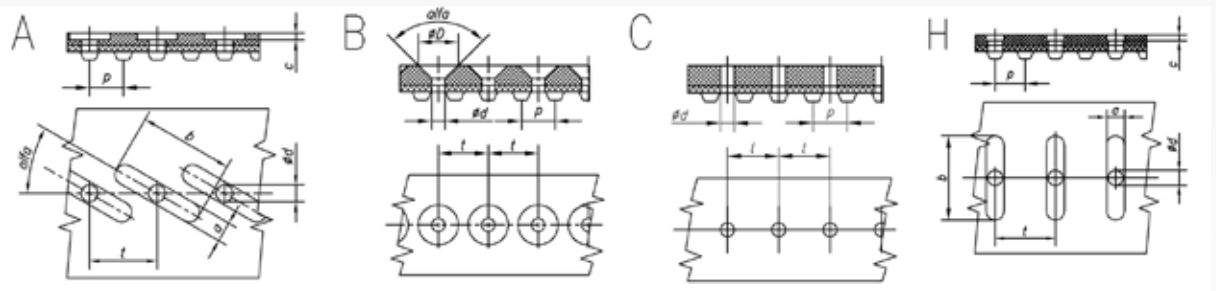
**Fields of use:** packaging industry

**Advantages:** long life-span  
good adhesion  
excellent abrasion resistance  
optional direction of rotation

**Application samplce:** pulling-off belts of FFS packaging machines



Cover			Belt types								
			Pu	Pu	Pu	Pu / Rubber	Rubber	Rub-ber	Rub-ber	Rubber	Rubber
Width (mm)	Thickness (mm)	Design	AT5	AT10	T5	T10	XL	L	H	HTD 5M	HTD 8M
80	3	plain	AT5-330		T5-330		130XL	130L		HTD 330 5M	
60	6	plain			T5-350	T10-350	140XL			HTD 350 5M	
60	3	plain	AT5-455		T5-455		180XL	180L		HTD 455 5M	
60	6	plain		AT10-560	T5-560	T10-560	220XL		220H	HTD 560 5M HTD 565 5M	HTD 560 8M
30	4,5	plain		AT10-580	T5-570 T5-575	T10-580	230XL	225L		HTD 570 5M HTD 575 5M	
30	6	plain		AT10-580	T5-570 T5-575	T10-580	230XL	225L		HTD 570 5M HTD 575 5M	HTD 656 8M
50	6	plain	AT5-610	AT10-610	T5-610	T10-610	240XL	240L		HTD 610 5M HTD 615 5M	
60	6	plain	AT5-630	AT10-630	T5-630	T10-630	250XL		250H	HTD 630 5M	HTD 632 8M
60	4	plain	AT5-630	AT10-630	T5-630	T10-630	250XL		250H	HTD 630 5M	HTD 632 8M
40	6	vacuumed B	AT5-630	AT10-630	T5-630	T10-630	250XL		250H	HTD 630 5M	HTD 632 8M
44	3	plain			T5-650	T10-650	256XL 260XL	255L	255H	HTD 650 5M HTD 655 5M	HTD 656 8M
60	6	plain			T5-650	T10-650	256XL 260XL	255L	255H	HTD 650 5M HTD 655 5M	HTD 656 8M
50	3	plain	AT5-660	AT10-660	T5-660	T10-660	260XL		260H	HTD 665 5M	
44	6	plain	AT5-710	AT10-700	T5-700	T10-700	276XL 280XL	277L	280H	HTD 700 5M	
50	6	vacuumed A	AT5-720		T5-720 T5-725	T10-700	286XL	285L	285H	HTD 725 5M	HTD 720 8M
50	6	plain	AT5-780	AT10-780	T5-780	T10-780	310XL		310H		HTD 784 8M
50	6	plain		AT10920		T10-920	364XL	367L	365H	HTD 920 5M	HTD 920 8M
50	3,5	vacuumed A		AT10-920		T10-920	364XL	367L	365H	HTD 920 5M	HTD 920 8M



## PU TIMING BELT WITH CASTED SILICONE COVER

- Fields of use:** packaging and paper industry
- Advantages:** long life-span  
good adhesion  
excellent abrasion resistance  
optional direction of rotation, without glue
- Application samlpe:** pulling-off belts of VFFS packaging machines



Type	Appli- cation sample	Pitch (mm)	Lenght (mm)	Width (mm)	Cord	Material of basic belt	Color of basic belt	Construction	Thick- ness of coating	Color of coating	Coating (ShA)
T5-260		5	260	max. 65	steel	PU (90±2ShA)	optional	cord support inside	3	optional	20-40
T5-270		5	270	max 65	steel	PU (90±2ShA)	optional	cord support inside	3	optional	20-40
AT5-320		5	320	max 80	steel	PU (90±2ShA)	optional	cord support inside	1,5 - 2	optional	20-40
AT5-660		5	660	max 90	steel	PU (90±2ShA)	gray	cord support inside	5,8,10	optional	20-40
AT5 710		5	710	max 90	steel	PU (90±2ShA)	gray	cord support inside	8	optional	20-40
210 L		9,525	533,4	max 100	kevlar	PU (90±2ShA)	gray	cord support inside	4	optional	20-40
240 L		9,525	609,6	max 95	kevlar/steel	PU (90±2ShA)	gray	cord support inside	6	optional	20-40
270 L		9,525	609,6	max 105	kevlar/steel	PU (90±2ShA)	gray	cord support inside	6	optional	20-40
320 XL		5,08	609,6	max 80	kevlar/steel	PU (90±2ShA)	gray	cord support inside	4	optional	20-40
T10 560		10	560	max 80	kevlar/steel	PU (90±2ShA)	gray	cord support inside	8	optional	20-40
T10 630	Rovema	10	630	max 95	kevlar	PU (90±2ShA)	optional	cord support outside	6	optional	20-40
T10 650		10	650	max 105	kevlar/steel	PU (90±2ShA)	gray	cord support inside	6	optional	20-40
T10 720		10	720	max 95	kevlar	PU (90±2ShA)	optional	cord support outside	6	optional	20-40
S8M 650		8	650	max 75	glass	Rubber	black	without cord support	6	optional	20-40

### Notes:

1. Belts are coated with an endless and refined cover, so the direction of rotation can be optional.
2. The most of the cases Steel cord can be replaced optionally by Kevlar.

## NO GLUED HIGH SLEEVE WITH SILICONE COVER

- Fields of use:** packaging and paper industry
- Advantages:** long life-span  
good adhesion  
excellent abrasion resistance  
optional direction of rotation; without glue
- Application sample:** pulling-off belts of VFFS packaging machines

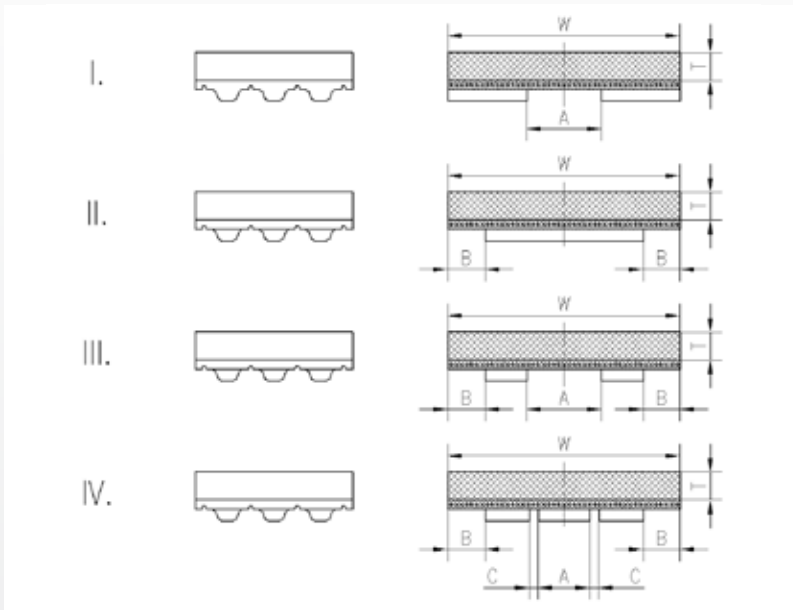


Type	Appli- cation sample	Pitch (mm)	Lenght (mm)	Width (mm)	Cord	Material of basic belt	Color of basic belt	Construc- tion	Thickness of coating	Color of coating	Coating (ShA)
T10-630		10	630	300	Kevlar/ steel	PU (90±2ShA)	gray	cord support inside	6	optional	20-40

For customers need other sizes are available.



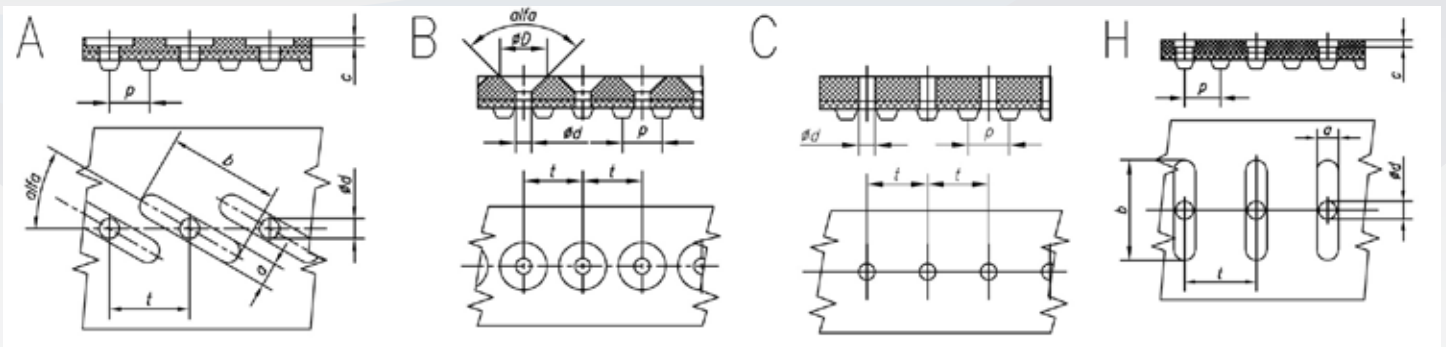
# CUSTOMER CLICHE FOR COVERED TIMING BELTS



1. Print this page
2. Choose the drawing which is adequate to the belt you would like to order
3. Measure the marked sizes with a precise gauge (e.g. with caliper)
4. Fill in the table below
5. Give the profile of the belt you would like to order (e.g. T5, T10, L, XL etc.)
6. Give the teeth number of the belt
7. Give the material and hardness of the cover (if it is known)
8. If you don't find the drawing which is adequate to the belt you would like to order, please prepare a drawing, and paste it to the empty field below.
9. Send us the filled datasheet (in e-mail, if possible)

Construction	W	T	A	B	C	Profile of the belt	Number of teeth	Cover
I.				-	-			
II.				-	-			
III.					-			
IV.								

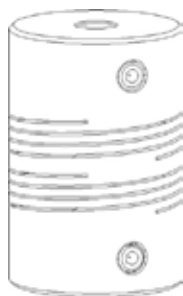
## Vacuum holes:



Construction	t	a	b	c	d	D	alfa	Cover
A						-		
B		-	-	-			-	
C		-	-	-			-	
H							-	

## GUIDE FOR ORDERING OF BEAM COUPLING

„S” - type



„C” - type



### ORDER GUIDE:

1      2      3      4      5      6      N A S - 5 - C 8H7 / 10H7

#### 1) BEAM CONFIGURATION

- N : 6 spiral
- R : 3 spiral

#### 2) RAW MATERIAL

- A : aluminium EW 7075
- H : stainless steel 1.4305
- S : carbon steel ETG-100

#### 3) SHAFT FIXING

- S : screw
- C : with clamp

#### 4) SIZE

#### 5) OPTION

- C : chamber, inner diameter is 0.8 mm bigger than the bigger diameter of the bigger bore. In type R it is valid for normal case

#### 6) SIZE OF BORE

- basic (pilot) bore
- bores with H7 tolerance

## BORE COMBINATIONS

**Options:**

„N” – In this type for request it is possible that min size of d2 is bigger with 0.8 mm than bore size of d1 and d2.

„R” – in normal case relief bore is 0.8 mm bigger than d2 bore.



	<p><math>d1 &lt; d2 = d2min</math>, major shaft may not enter beneath the beams, see „N” dimension of the coupling!</p>
	<p><math>d1 = d2 = d2min</math>, shaft may not enter beneath the beams, see „N” dimension of the coupling!</p>
	<p><math>d1 &lt; d2min, d2 &gt; d2min</math>, no risk in installation.</p>
	<p><math>d1 &gt; d2min, d2 &gt; d2min</math>, do not compress the coupling! See „N” dimension of the coupling!</p>
	<p>Whit chamber, no risk in installation.</p>

# ALUMINIUM BEAM COUPLING WITH CLAMP FIXING

**Field of Application:** Machine industry.

**Advantages:** Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating, systems, high torsion stiffness.

**Typical applications:** Encoder drives, step motors, servo drives



## 6 BEAM

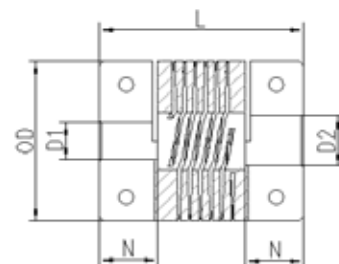
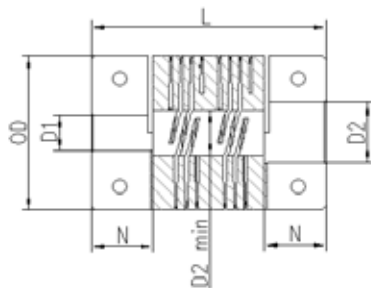
Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
NAC 2	1.9	2.8	4.75	9.5	19.6	5.3	M1,6	3	0.12	1
NAC 3	2.8	4.4	6.35	12.7	22.9	6.5	M2	5	0.17	2
NAC 3,5	2.8	4.8	8	15.9	25.4	6.5	M2,5	5	0.2	3.4
NAC 4	4.4	5.8	10	19.1	26.5	6.5	M2,5	7	0.25	5.3
NAC 5	5.8	7.5	12.7	25.4	38.1	11	M3	7	0.37	10
NAC 6	5.8	9.8	16	31.8	57.2	16	M4	7	0.5	15
NAC 7	7.8	11.8	19	38.1	66.7	18	M5	7	0.6	22

## 3 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
RAC 2	1.9	2.8	4	9.5	14.2	4.5	M1,6	3	0.1	0.4
RAC 3	2.8	3.8	5	12.7	19.1	6	M2	5	0.127	0.9
RAC 3.5	2.8	3.8	6.35	15.9	20.3	6.5	M2,5	5	0.127	1.5
RAC 4	2.8	4.8	8	19.1	22.9	6.5	M2,5	5	0.127	2.5
RAC 5	4.8	5.8	11	25.4	31.8	9	M3	5	0.127	4
RAC 6	5.8	7.8	14	31.8	44.5	12	M4	5	0.127	6
NAC 7	7.8	11.8	19	38.1	66.7	18	M5	7	0.6	22

## 6 BEAM

## 3 BEAM



# ALUMINIUM BEAM COUPLING WITH SCREW FIXING

**Application field:** Machine industry

**Advantages:** Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating, systems, high torsion stiffness.

**Typical applications:** Encoder drives, step motors, servo drives



## 6 BEAM

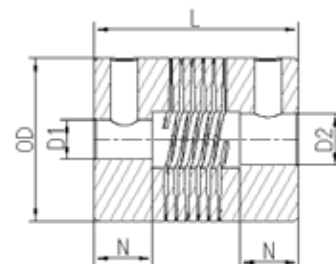
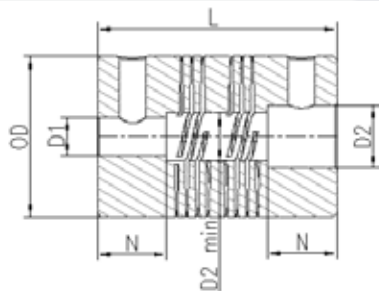
Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
NAS 2	1.9	2.8	4.75	9.5	19.6	5.3	M2,5	3	0.12	1
NAS 3	2.8	4.4	6.35	12.7	22.9	6.5	M3	5	0.17	2
NAS 3,5	2.8	4.8	8	15.9	25.4	6.5	M4	5	0.2	3.4
NAS 4	4.4	5.8	10	19.1	26.5	6.5	M4	7	0.25	5.3
NAS 5	5.8	7.5	12.7	25.4	38.1	11	M5	7	0.37	10
NAS 6	5.8	9.8	19	31.8	57.2	16	M6	7	0.5	15
NAS 7	7.8	11.8	22	38.1	66.7	18	M6	7	0.6	22

## 3 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
RAS 2	1.9	2.8	4	9.5	14.2	4.5	M2,5	3	0.1	0.4
RAS 3	2.8	3.8	5	12.7	19.1	6	M3	5	0.127	0.9
RAS 3.5	2.8	3.8	6.35	15.9	20.3	6.5	M4	5	0.127	1.5
RAS 4	2.8	4.8	8	19.1	22.9	6.5	M4	5	0.127	2.5
RAS 5	4.8	5.8	11	25.4	31.8	9	M5	5	0.127	4
RAS 6	5.8	7.8	14	31.8	44.5	12	M6	5	0.127	6
NAC 7	7.8	11.8	19	38.1	66.7	18	M5	7	0.6	22

## 6 BEAM

## 3 BEAM





# STAINLESS STEEL BEAM COUPLING WITH CLAMP FIXING

**Application field:** Machine industry.

**Advantages:** Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating systems, high torsion stiffness.

**Typical applications:** Encoder drives, step motors, servo drives



## 6 BEAM

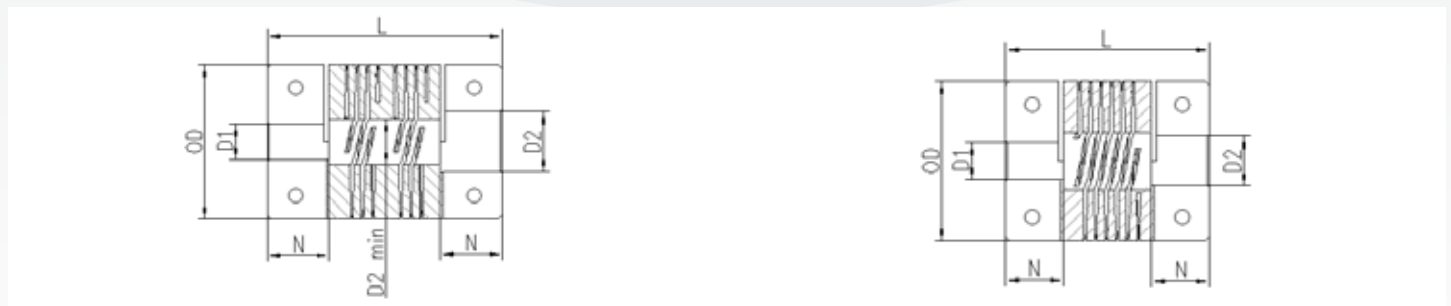
Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
NHC 3	2.8	4.4	6.35	12.7	25.4	6.5	M2	5	0.17	3
NHC 3,5	2.8	4.8	8	15.9	25.4	6.5	M2,5	5	0.2	5
NHC 4	4.4	5.8	10	19.1	28	6.5	M2,5	7	0.25	8
NHC 5	5.8	7.5	12.7	25.4	38.1	11	M4	7	0.37	16

## 3 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
RHC 3	2.8	3.8	5	12.7	19.1	6	M2	5	0.127	1
RHC 3,5	2.8	3.8	6.35	15.9	20.3	6	M2,5	5	0.127	1.8
RHC 4	2.8	4.8	8	19.1	22.9	6.5	M2,5	5	0.127	2.7
RHC 5	4.8	5.8	11	25.4	31.8	9	M4	5	0.127	6

## 6 BEAM

## 3 BEAM



# STAINLESS STEEL BEAM COUPLING WITH SCREW FIXING

**Application field:** Machine industry.

**Advantages:** Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating systems, high torsion stiffness.

**Typical applications:** Encoder drives, step motors, servo drives



## 6 BEAM

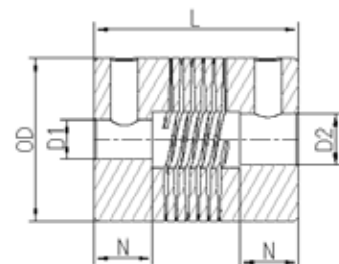
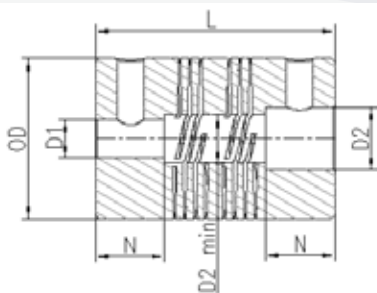
Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
NHS 3	2.8	4.4	6.35	12.7	25.4	6.5	M3	5	0.17	3
NHS 3,5	2.8	4.8	8	15.9	25.4	6.5	M4	5	0.2	5
NHS 4	4.4	5.8	10	19.1	28	6.5	M4	7	0.25	8
NHS 5	5.8	7.5	12.7	25.4	38.1	11	M5	7	0.37	16

## 3 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
RHS 3	2.8	3.8	5	12.7	19.1	6	M3	5	0.127	1
RHS 3,5	2.8	3.8	6.35	15.9	20.3	6	M4	5	0.127	1.8
RHS 4	2.8	4.8	8	19.1	22.9	6.5	M4	5	0.127	2.7
RHS 5	4.8	5.8	11	25.4	31.8	9	M5	5	0.127	6

## 6 BEAM

## 3 BEAM



# CARBON STEEL BEAM COUPLING WITH CLAMP FIXING

**Application field:** Machine industry

**Advantages:** Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating systems, high torsion stiffness

**Typical applications:** Encoder drives, step motors, servo drives



## 6 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
NSC 3	2.8	4.4	6.35	12.7	25.4	6.5	M2	5	0.17	3
NSC 3,5	2.8	4.8	8	15.9	25.4	6.5	M2,5	5	0.2	5
NSC 4	4.4	5.8	10	19.1	28	6.5	M2,5	7	0.25	9
NSC 5	5.8	7.5	12.7	25	38.1	11	M4	7	0.37	18
NSC 6	5.8	9.8	16	31.8	57.2	16	M4	7	0.5	28

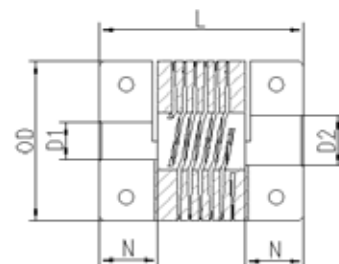
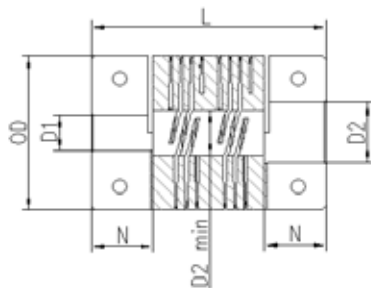
## 3 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
RSC 3	2.8	3.8	5	12.7	19.1	6	M2	5	0.127	1
RSC 3.5	2.8	3.8	6.35	15.9	20.3	6	M2,5	5	0.127	2
RSC 4	2.8	4.8	8	19.1	22.9	6.5	M2,5	5	0.127	3
RSC 5	4.8	5.8	11	25	31.8	9	M4	5	0.127	6
RSC 6	5.8	7.8	14	31.8	44.5	12	M4	5	0.127	11

Minimum order: 100 pieces

## 6 BEAM

## 3 BEAM



# CARBON STEEL BEAM COUPLING WITH SCREW FIXING

**Application field:** Machine industry

**Advantages:** Compensates angular, parallel, 3D misalignment  
constant velocity, angular accuracy in rotating, systems, high torsion stiffness

**Typical applications:** Encoder drives, step motors, servo drives



## 6 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
NSS 3	2.8	4.4	6.35	12.7	25.4	6.5	M3	5	0.17	3
NSS 3,5	2.8	4.8	8	15.9	25.4	6.5	M4	5	0.2	5
NSS 4	4.4	5.8	10	19.1	28	6.5	M4	7	0.25	9
NSS 5	5.8	7.5	12.7	25	38.1	11	M5	7	0.37	18
NSS 6	5.8	9.8	16	31.8	57.2	16	M6	7	0.5	28

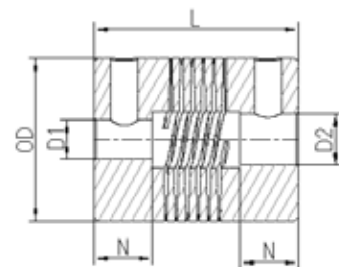
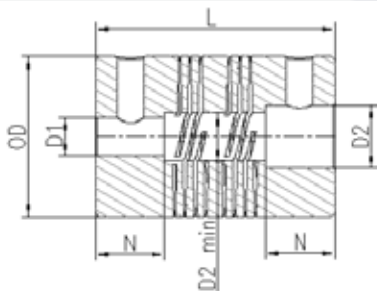
## 3 BEAM

Type	Bore sizes (mm)			Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1min.	D2min.	D1, D2 max.	OD	L	N				
RSS 3	2.8	3.8	5	12.7	19.1	6	M3	5	0.127	1
RSS 3.5	2.8	3.8	6.35	15.9	20.3	6	M4	5	0.127	2
RSS 4	2.8	4.8	8	19.1	22.9	6.5	M4	5	0.127	3
RSS 5	4.8	5.8	11	25	31.8	9	M5	5	0.127	6
RSS 6	5.8	7.8	14	31.8	44.5	12	M6	5	0.127	11

Minimum order: 100 pieces

## 6 BEAM

## 3 BEAM



# ALUMINIUM PARALELL COUPLING (AW EN 7075)

- Application field:** Machine industry
- Advantages:** Compensates angular, parallel, 3D misalignment constant velocity, angular accuracy in rotating systems, high torsion stiffness
- Typical applications:** NCN machines and servo drives



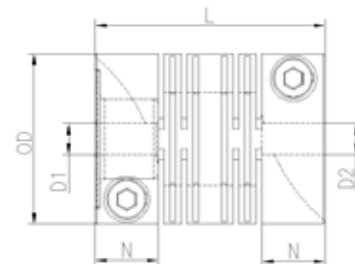
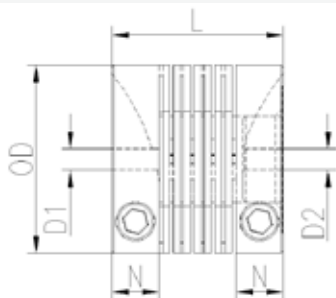
## PARALLEL COUPLINGS

Type	Bore sizes (mm)		Dimensions (mm)			Screw	Ang. offset (deg.)	Par.offset (mm)	Nominal torque (Nm)	Screwing stiffness 10 <sup>3</sup> Nm/Rad
	D1, D2 min.	D1, D2 max.	OD	L	N					
PAC-22	min.	D1, D2	21.8	20	5.6	M2,5	1	0.3	1	0.2
PAC-30	max.	14	29.7	40	11	M4	1.7	0.2	8	4.6
PAC-40	5.5	19	39.5	48	11	M5	1.7	0.3	17	11

High torsional stiffness, simple maintenance, suitable for all kind of drives  
 The coupling is suitable for balancing axial, radial and angular misalignments between shafts

PAC-22

PAC-30 / PAC-40





# SILICON INSERT COUPLING

**Application field:** Machine industry

**Advantages:** Balance of angular misalignment of shafts, balance of parallel misalignment of shafts, precise, steady transmission of swing, high torsional stiffness, electric isolation of the end of shafts

**Typical applications:** Joint of rotating sign givers, servo-drives



## „S”-TYPE

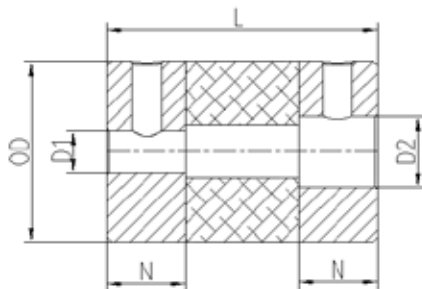


Type	Bore sizes (mm)			Dimensions (mm)			Screw D1min.	Ang. offset (deg.) D2min.	Par.offset (mm) D1, D2 max.	Max. Torque (Nm) OD
	D1min.	D2min.	D1, D2 max.	OD	L	N				
NPS 4	4,4	5,8	10	19,1	26,5	6,5	M4	0,6	0.1	3
NPS 5	5,8	7,5	12,7	25,4	38,1	11	M5	1	0.15	5,7
NPS-6	5,8	9,8	19	31,8	57,2	16	M6	1,6	0.2	8

## „C”-TYPE



Type	Bore sizes (mm)			Dimensions (mm)			Screw D1min.	Ang. offset (deg.) D2min.	Par.offset (mm) D1, D2 max.	Max. Torque (Nm) OD
	D1min.	D2min.	D1, D2 max.	OD	L	N				
NPC 4	4,4	5,8	10	19,1	26,5	6,5	M2,5	0,6	0.1	3
NPC 5	5,8	7,5	12,7	25,4	38,1	11	M4	1	0.15	5,7
NPC 6	5,8	9,8	16	31,8	57,2	16	M5	1,6	0.2	8

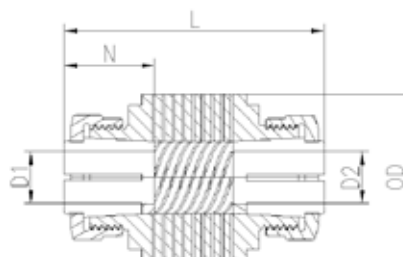
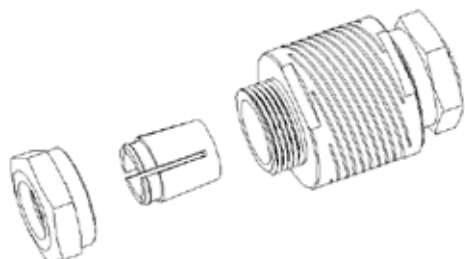


## EASY COUPLING (AW EN 7075)

- Application field:** Machine industry
- Advantages:** Balance of angular misalignment of shafts, balance of parallel misalignment of shafts, precise, steady transmission of swing, high torsional stiffness
- Typical applications:** Joint of rotating sign givers, servo-drives. It can be easily stocked with final bores



Type	Bore sizes (mm)		Dimensions (mm)			Ang. offset (deg.)	Par.offset (mm)	Max. Torque (Nm)
	D1, D2 min.	D1, D2 max.	OD	L	N			
EASY-4	4	8	19.1	28	8	3	0.08	4
EASY-5	5	10	25.4	40	11	3	0.10	8
EASY-6	6	12	31.8	58	16	3	0.15	14



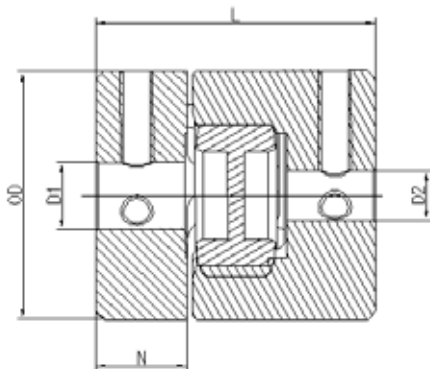
## JAW TYPE COUPLING (AW EN 7075+98 ShA)

- Field of Application:** Machine industry
- Advantages:** Compensates angular, parallel, 3D misalignment  
constant velocity, angular accuracy in rotating systems, anti-vibration properties
- Applications:** CNC machines and servo drives, coupling of motor and pump



Type	Bore sizes (mm)		Dimensions (mm)			Screw	Ang. offset (deg.)	Nominal torque (Nm)	Max. Torque (Nm)
	D1, D2 min.	D1, D2 max.	OD	L	N				
KS-7	3	7	14	22	7	M3	1	2	4
KS-9	4	9	20	30	10	M3	1,7	5	10
KS-14	4	14	30	35	11	M3	1,7	12,5	25

### KS-7 / KS-9 / KS-14



## OLDHAM COUPLING (AW EN 7075 + Polyacetal)

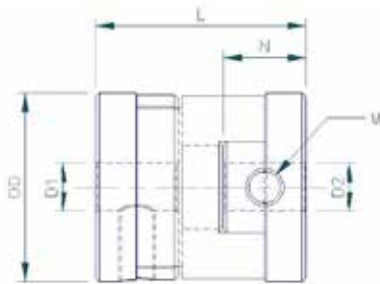
- Field of Application:** Machine industry
- Advantages:** Compensates angular, parallel, 3D misalignment  
constant velocity, angular accuracy in rotating systems, high torsion stiffness
- Typical applications:** NCN machines and servo drives



### OLDHAM COUPLINGS

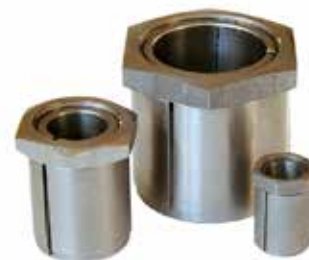
Type	Bore sizes (mm)		Dimensions (mm)			Screw	Ang. offset (deg.)	Nominal torque (Nm)	Max. torque (Nm)
	D1, D2 min.	D1, D2 max.	OD	L	N				
OS-16	3	6	16	18	7	M3	3	0,7	1,4
OS-20	3	8	20	23	9	M4	3	1,2	2,4
OS-25	5	10	25	28	11	M5	3	2,0	4,0
OS-32	8	14	32	33	13	M6	3	4,5	9,0

High torsional stiffness, simple maintenance, suitable for all kind of drives.  
The coupling is suitable for balancing axial, radial and angular misalignments between shafts.



## STAINLESS STEEL TAPER BUSH (1.4305)

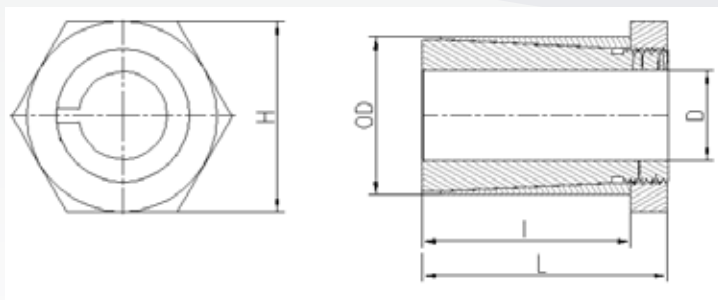
- Field of Application:** Machine industry
- Advantages:** Simple easy maintenance, axial and radial positioning on shaft, no necessity of slot for fixing it
- Typical applications:** Fixing and gears pulleys on the shaft



Type	Material	D (mm)	OD (mm)	L (mm)	l (mm)	H (mm)	Male thread	Max. Torque
BS-6.35	KO	6.35	10	15	12.5	10	M8x0.5	7
BS-9.52	KO	9.52	14	22	19	16	M12x1	14
BS-15.88	KO	15.88	23	28	23	27	M20x1	26

BS-4	KO	4	8	15	12.5	8	M6x0.5	3
BS-5	KO	5	10	15	12.5	10	M8x0.5	4
BS-6	KO	6	10	15	12.5	10	M8x0.5	7
BS-7	KO	7	12	15	12	12	M10x0.75	8
BS-8	KO	8	14	22	19	16	M12x1	14
BS-9	KO	9	14	22	19	16	M12x1	14
BS-10	KO	10	17	22	18.5	18	M15x1	18
BS-11	KO	11	17	22	18.5	18	M15x1	18
BS-12	KO	12	17	22	18.5	18	M15x1	18
BS-14	KO	14	20	28	23	20	M17x1	24
BS-15	KO	15	20	28	23	20	M17x1	24
BS-16	KO	16	23	28	23	27	M20x1	26
BS-17	KO	17	23	28	23	27	M20x1	26
BS-19	KO	19	25	28	23	27	M22x1	29
BS-20	KO	20	28	28	23	30	M22x1	31

KO = Stainless Steel





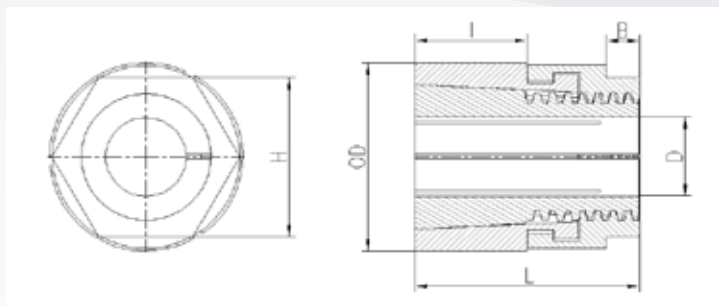
## CARBON STEEL TAPER BUSH (ETG-100)

- Field of Application:** Machine industry
- Advantages:** Simple easy maintenance, axial and radial positioning on shaft, no necessity of slot for fixing it
- Typical applications:** Fixing and gears pulleys on the shaft



Type	Material	D (mm)	OD (mm)	L (mm)	l (mm)	H (mm)	B (mm)	Max. Torque
BT-6	ST	6	16	19	9.5	13	3	16
BT-8	ST	8	19	22	11	16	3	23
BT-9	ST	9	19	22	11	16	3	26
BT-10	ST	10	22.5	25.5	12.5	19	5	30
BT-11	ST	11	22.5	25.5	12.5	19	5	34
BT-12	ST	12	22.5	25.5	12.5	19	5	39
BT-14	ST	14	25.5	28.5	16	22	5	42
BT-15	ST	15	25.5	28.5	16	22	5	45
BT-16	ST	16	25.5	28.5	16	22	5	50
BT-20	ST	20	45	47.5	21.5	44.5	11	290
BT-22	ST	22	45	47.5	21.5	44.5	11	315
BT-24	ST	24	45	47.5	21.5	44.5	11	380
BT-25	ST	25	45	47.5	21.5	44.5	11	390

KO = Stainless Steel



## CUSTOMER REFERENCES

**Product lines:** Timing belts

**Continents:** Europe  
North America  
South America  
Australia  
Asia  
Africa



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## CUSTOMER REFERENCES

**Product lines:** Timing belts

**Continents:** Europe  
North America  
South America  
Australia  
Asia  
Africa



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## CUSTOMER REFERENCES

**Product lines:** Timing belts

**Continents:** Europe  
North America  
South America  
Australia  
Asia  
Africa



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