



Bervina Ltd. PT Manufacturer

bervina

-ICNet-



MSZ EN ISO 9001 : 2000  
Reg.no.: 503 / 0025 -284

## INTRODUCTION

Bervina Ltd is a **highly innovative company** involved in manufacturing PT components based on its own patented technology since 1982. The company is located in Hungary, Budapest operating with ISO 9001:2000 quality control system.

The company has been expanding dynamically in terms of marketing and innovation as well as production capabilities. In year 2007 the company introduced three new products among which two of them have been patented, one in USA and all countries of EU as well. Our innovation activity is backed by researches of Technical University of Budapest.

We have three ranges of products:

- Special one-piece moulded timing belts in PU
- Miniature flexible beam couplings
- Taper bushes

The small size company flexibly responds to customers' special needs. Working in a very simple structure enables to give you quick responses.

Ready to quote for small volume, custom tailored products, ready to cooperate in innovations with customers. The company is designing and manufacturing moulding tools for special needs.

For our normal products we have huge customers like: Lovejoy Inc, Sigerist AG, Electrolux Ltd., Omron Corp., Siemens AG.

28. February, 2007



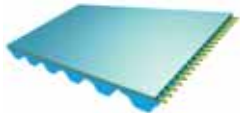
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CEO



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## PU TIMING BELTS



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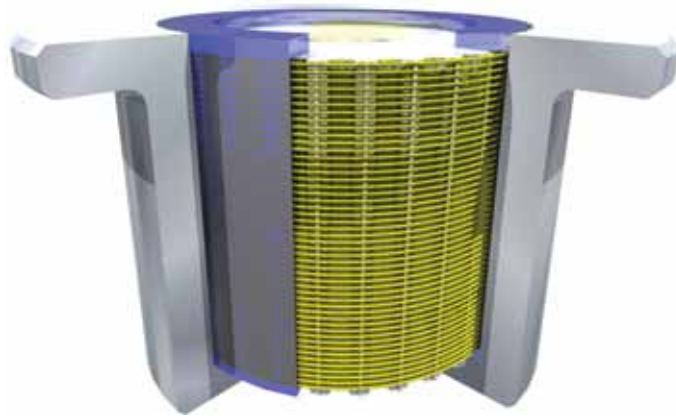
## CENTRIFUGAL HEAT CAST PU PROCESSING

Patent number: **PO4030/83**

Using high performance urethane compound this process provides a wide range of material characteristics specifically formulated to suit your application.

## ADVANTAGES

Due to the centrifugal force PU compound fills the form perfectly giving sharp and exact profile, and encloses the used reinforcing cord giving strong bonding between the cord and the body.



This process also provides availability of using different PU compounds to produce multi durometer and/or multi colour belts.

## DIMENSION LIMITS

Belt length up to 1500 mm

Sleeve width max. 100-210 mm (depending on belt length)

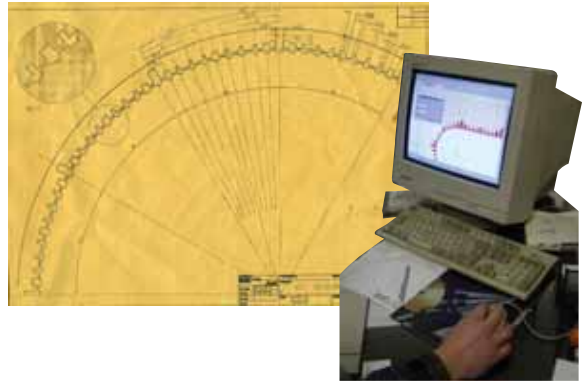
## MATERIALS

- 80-95 ShA hardness PU compounds
- FDA approved materials

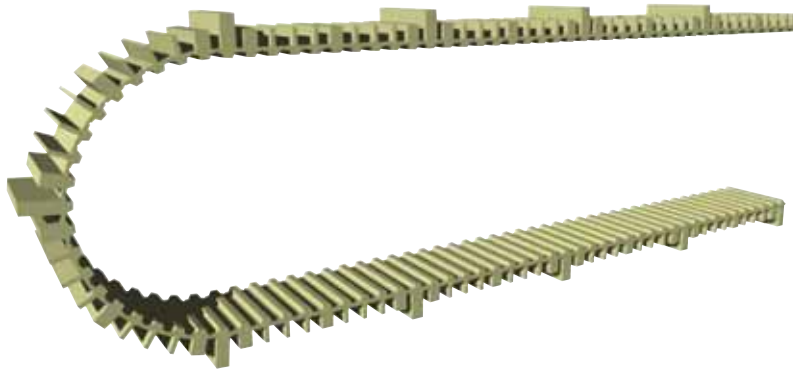
## BELT DESIGN

### DESIGN

Bervina has more than 25 years of experience in designing and manufacturing PU timing belts. Based on our unique PU technology we would like to help you to find the unique solution for your special needs.



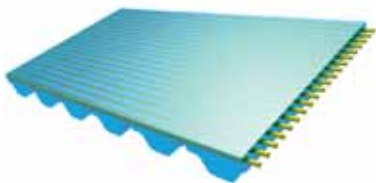
Bervina can assist in designing the correct belt construction for your application.



For more information on engineering assistance, please contact us.

## REINFORCING CORDS

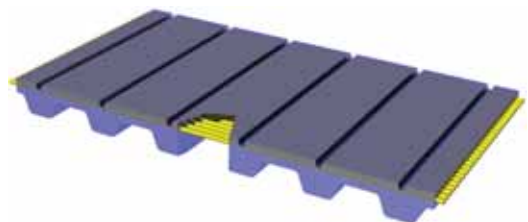
### AVAILABLE CORD TYPES



- Fine steel cord
- Aramid (Kevlar) cord
- Polyesther cord
- Glass cord
- Stainless steel cord (on request)

### CORD SUPPORT OUTSIDE BELTS

Cord support outside belts are used as a basic belt for vacuum belt, where tooth side must be grinded to seal the vacuum belt perfectly.





## TRULY ENDLESS PU BELTS

### ADVANTAGES

Due to Bervina's unique technology

- ability of tooling up for special type (or size) quickly
- high productivity in small PU belts
- availability of custom designed belts



### DIMENSION LIMITS

Belt length up to 1500 mm

Sleeve width max. 100-210 mm (depending on belt length)

Small PU variator belts are also available.

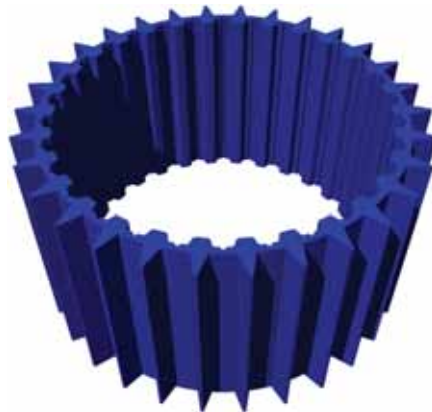
Available sizes: 410 x 16 x 4

476 x 16 x 4



## ADVANTAGES

Using Bervina's unique technology profiles and belts are moulded as one, can be made using different PU compounds to produce multi durometer and/or multi colour belts.



This process provides very flexible profile design possibilities, profiles can be positioned extremely close.

This technology gives exact profile spacing and form, strong profile shear strength.

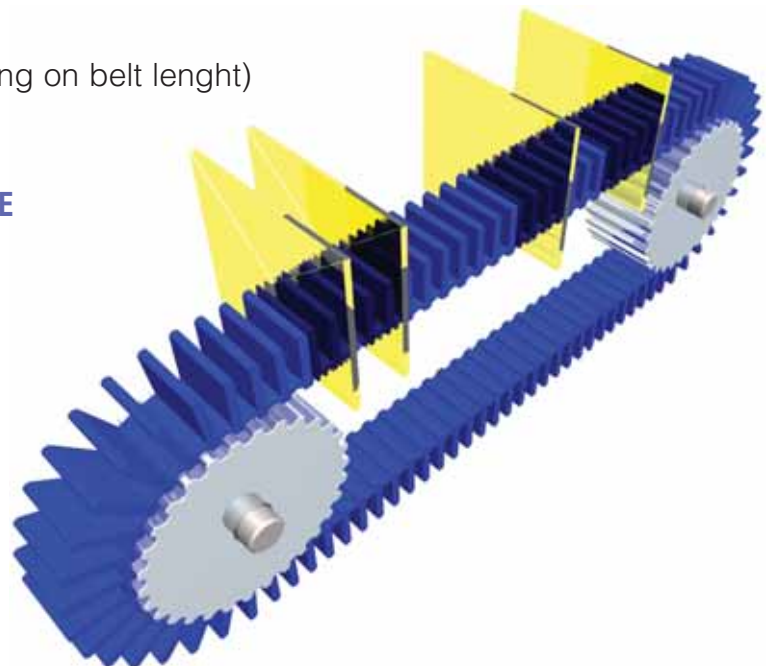
## DIMENSION LIMITS

Belt length up to 1500 mm

Sleeve width max. 100-210mm (depending on belt length)

## APPLICATION SAMPLE

Accumulation belt  
one piece mould



## PU COVERED BELTS

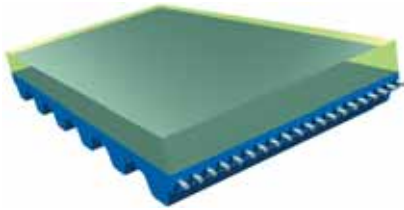
### DOUBLE MOULDED BELT

PU cover moulded onto the base belt back directly, giving smooth running and strong bonding between the belt and the cover.

### AVAILABLE HARDNESS

Basic belts: 88-92 ShA

Cover: 72-80 ShA



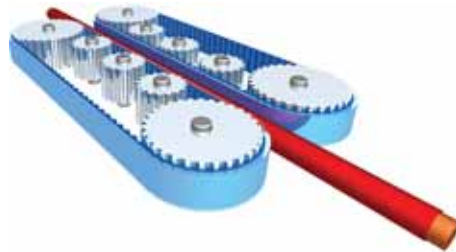
### DIMENSION LIMITS

Belt length up to 800 mm

Covered sleeve width max. 100-210 mm  
(depending on belt length)

### APPLICATION SAMPLE

Cable pulling belt  
KOMAX belt



## SIL COVERED BELTS

### USED IN PACKAGING INDUSTRY FOR HAUL OFF BELT

Sales points: – life time is twice as much as the belt with linatext  
– good adhesion  
– good abrasion resistance

### APPLICATION SAMPLE

Silicon Covered Vacuum Belt  
(cord support outside basic belt)

### AVAILABLE IN SIZES:

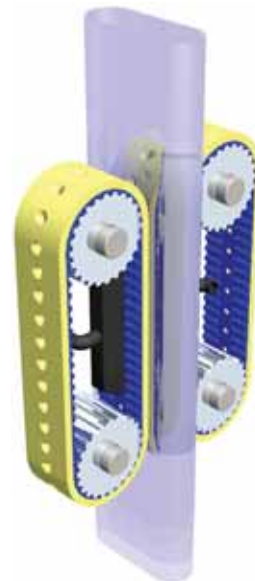
Vacuum:

T10 630 + 6 mm silicon cover

T10 780 + 6 mm silicon cover

Without vacuum:

T10 700



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# FABRICATED BELTS

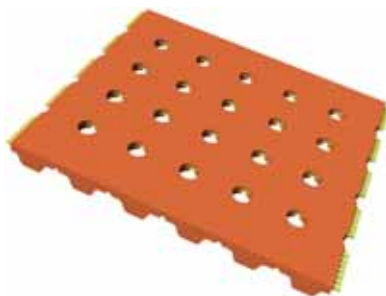
## TOOTH REMOVAL

For slider bed  
For tracking



## GRINDING

For precise tolerances  
For smooth running  
To form special profiles



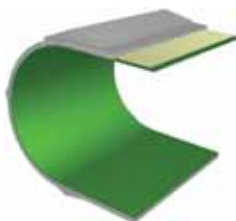
## HOLES

For vacuum applications

Quadrat shape on the back



Flat belt with PA cover and with figure



## SPECIAL SHAPES

### FDA BELTS FOR FOOD INDUSTRY

These belts are moulded in their own toolings, separated from non FDA production line, using high quality FDA approved PU compound.

One piece moulded profile belts are also available.

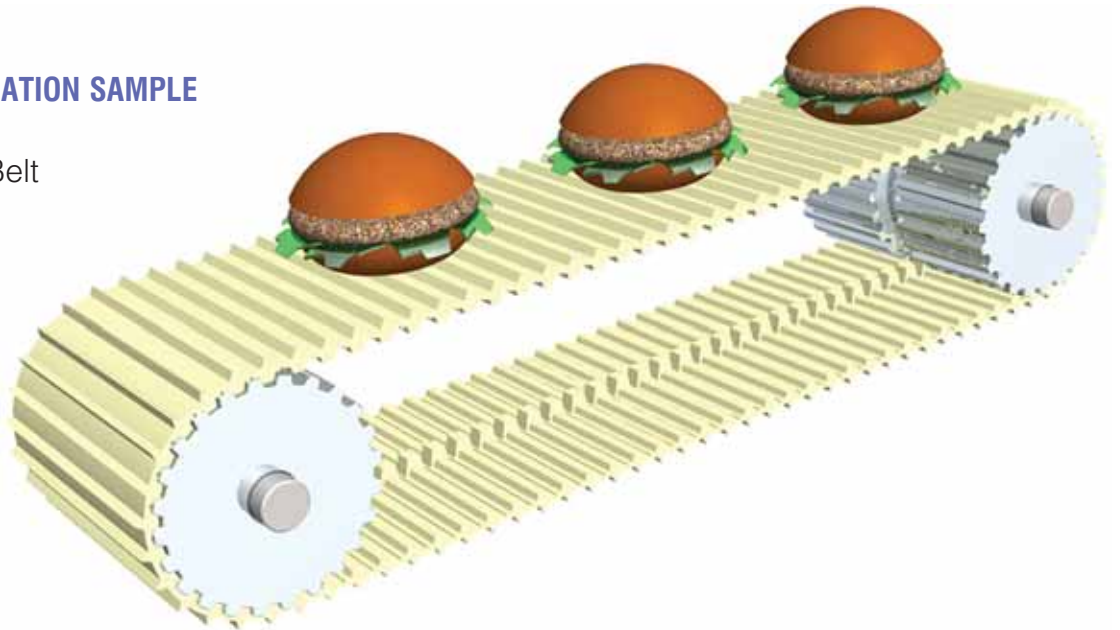


### DIMENSION LIMITS

belt length up to 1500 mm sleeve width max. 100-210 mm (depending on belt length)

### APPLICATION SAMPLE

Feed Belt



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Patent Nr.: US11/396,529  
EP 06112081,2

## HIGH TEMPERATURE TIMING BELT

Max temperature: at 170 °C Degrees Centigrade-Hardness: 65 ShA

Between at 90-130 Degrees Centigrade-Hardness: 72ShA

At 20 Degrees Centigrade-Hardness: 88 ShA

Tear awareness is 27 MPa

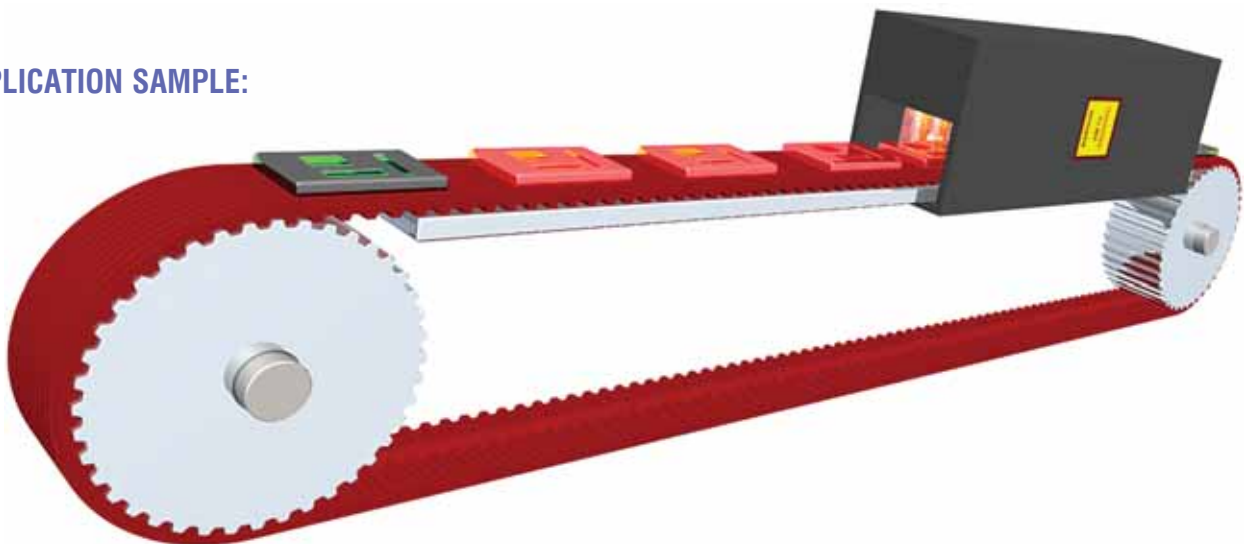
Tear resistance: 75N/m

Available pitches: AT3, AT5, K, T2, T2.5 T5, M, XL

Length: max 1500 mm

Cords: steel, kevlar, glass

## APPLICATION SAMPLE:



# BEAM COUPLINGS

- Compensate angular, parallel & 3D misalignment.
- Constant velocity, angular accuracy in rotating systems.
- No backlash, no moving parts maintenance free.



## FIELDS OF APPLICATION

Encoder drives, step motors, servo drives.

## SELECTION GUIDE:



### 1 COIL CONFIGURATION

- N : 6 beam (high flexibility)
- R : 3 beam

### 2 MATERIAL

- A : aluminium DIN 1725 (black anolized on request)
- H : stainless steel DIN 17440

### 3 ATTACHMENT METHOD (all screws are stainless) (inch type screws on request)

- S : set screw
- C : integral clamp

### 4 SIZE DESIGNATOR (OD)

### 5 OPTIONS

- C : with chamber (default for 3 beam types)

### 6-7 CUSTOM BORES

Inch bores are on request.

H7 bores tolerance are on request.

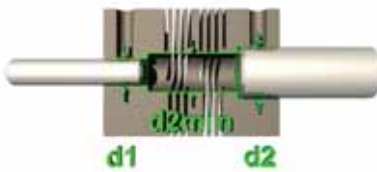
# BORE COMBINATIONS



$d_1 < d_2 = d_{2min}$ , major shaft may not enter beneath the beams, see „N” dimension of the coupling!



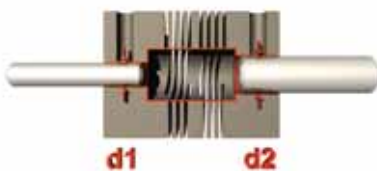
$d_1 = d_2 = d_{2min}$ , shaft may not enter beneath the beams, see „N” dimension of the coupling!



$d_1 < d_{2min}$ ,  $d_2 > d_{2min}$ , no risk in installation.



$d_1 > d_{2min}$ ,  $d_2 > d_{2min}$ , do not compress the coupling!  
See „N” dimension of the coupling!

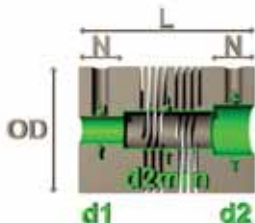


with chamber, no risk in installation.



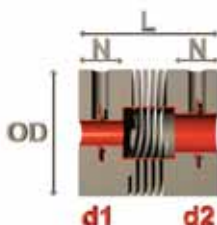
# ALUMINIUM

## 6 BEAM



TYPE (SET / CLAMP)	BORE SIZE (MM)			DIMENSIONS (MM)			SCREW		ANG. OFFSET	PAR. OFFSET	MAX. TORQUE (Nm)
	d1 MIN.	d2 MIN.	d1, d2 MAX.	OD	L±0,1	N	SET	CLAMP			
<b>NAS2/NAC2</b>	1,9	2,8	4,76	9,5	19,6	5,3	M2,5	M1,6	3°	0,12	1
<b>NAS3/NAC3</b>	2,8	4,4	6,35	12,7	22,9	6,5	M3	M2	5°	0,17	2
<b>NAS3,5/NAC3,5</b>	2,8	4,8	8	15,9	25,4	6,5	M4	M2,5	5°	0,2	3,4
<b>NAS4/NAC4</b>	4,4	5,8	10	19,1	26,5	6,5	M4	M2,5	7°	0,25	5,3
<b>NAS5/NAC5</b>	5,8	7,5	12,7	25,4	38,1	11	M5	M3	7°	0,37	10
<b>NAS6/NAC6</b>	5,8	9,8	19/16	31,8	57,2	16	M6	M4	7°	0,5	15
<b>NAS7/NAC7</b>	7,8	11,8	22/19	38,1	66,7	18	M6	M5	7°	0,6	22

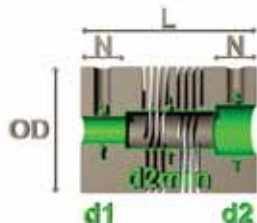
## 3 BEAM



TYPE (SET / CLAMP)	BORE SIZE (MM)			DIMENSIONS (MM)			SCREW		ANG. OFFSET	PAR. OFFSET	MAX. TORQUE (Nm)
	d1 MIN.	d2 MIN.	d1, d2 MAX.	OD	L±0,1	N	SET	CLAMP			
<b>RAS2/RAC2</b>	1,9	2,8	4	9,5	14,2	4,5	M2,5	M1,6	3°	0,1	0,4
<b>RAS3/RAC3</b>	2,8	3,8	5	12,7	19,1	6	M3	M2	5°	0,127	0,9
<b>RAS3,5/RAC3,5</b>	2,8	3,8	6,35	15,9	20,3	6,5	M4	M2,5	5°	0,127	1,5
<b>RAS4/RAC4</b>	2,8	4,8	8	19,1	22,9	6,5	M4	M2,5	5°	0,127	2,5
<b>RAS5/RAC5</b>	4,8	5,8	11	25,4	31,8	9	M5	M3	5°	0,127	4
<b>RAS6/RAC6</b>	5,8	7,8	14	31,8	44,5	12	M6	M4	5°	0,127	6

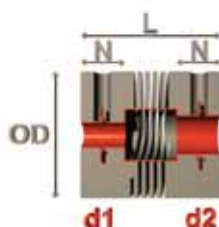
# CARBON STEEL

## 6 BEAM



TYPE		BORE SIZE (MM)			DIMENSIONS (MM)			SCREW		AN- GULAR OFFSET (DEG)	PARA- RELL OFFSET (MM)	MAX. TORQUE (Nm)
SET SCREW	CLAMP	d1 MIN.	d2 MIN.	d1, d2 MAX.	OD	L	B	SET	CLAMP			
NSS 3	NSC 3	2,8	4,4	6,35	12,7	25,4	6,5	M3	M2	5	0,17	3
NSS 3,5	NSC 3,5	2,8	4,8	8	15,9	25,4	6,5	M4	M2,5	5	0,2	5
NSS 4	NSC 4	4,4	5,8	10	19,1	28	6,5	M4	M2,5	7	0,25	9
NSS 5	NSC 5	5,8	7,5	12,7	25	38,1	11	M5	M4	7	0,37	18
NSS 6	NSC 6	5,8	9,8	16	31,8	57,2	16	M6	M4	7	0,5	28

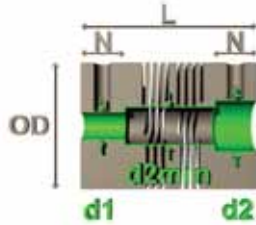
## 3 BEAM



TYPE		BORE SIZE (MM)			DIMENSIONS (MM)			SCREW		AN- GULAR OFFSET (DEG)	PARA- RELL OFFSET (MM)	MAX. TORQUE (Nm)
SET SCREW	CLAMP	d1 MIN.	d2 MIN.	d1, d2 MAX.	OD	L	B	SET	CLAMP			
NSS 3	NSC 3	2,8	4,4	6,35	12,7	25,4	6,5	M3	M2	5	0,17	3
NSS 3,5	NSC 3,5	2,8	4,8	8	15,9	25,4	6,5	M4	M2,5	5	0,2	5
NSS 4	NSC 4	4,4	5,8	10	19,1	28	6,5	M4	M2,5	7	0,25	9
NSS 5	NSC 5	5,8	7,5	12,7	25	38,1	11	M5	M4	7	0,37	18
NSS 6	NSC 6	5,8	9,8	16	31,8	57,2	16	M6	M4	7	0,5	28

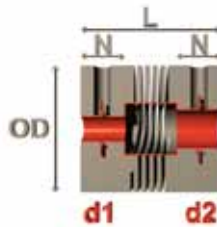
# STAINLESS STEEL

## 6 BEAM



TYPE (SET / CLAMP)	BORE SIZE (MM)			DIMENSIONS (MM)			SCREW		ANG. OFFSET	PAR. OFFSET	MAX. TORQUE (Nm)
	d1 MIN.	d2 MIN.	d1, d2 MAX.	OD	L $\pm 0,1$	N	SET	CLAMP			
<b>NHS3/NHC3</b>	2,8	4,4	6,35	12,7	25,4	6,5	M3	M2	5°	0,17	3
<b>NHS3,5/NHC3,5</b>	2,8	4,8	8	15,9	25,4	6,5	M4	M2,5	5°	0,2	5
<b>NHS4/NHC4</b>	4,4	5,8	10	19,1	28	6,5	M4	M2,5	7°	0,25	8
<b>NHS5/NHC5</b>	5,8	7,5	12,7	25,4	38,1	11	M5	M4	7°	0,37	16

## 3 BEAM



TYPE (SET / CLAMP)	BORE SIZE (MM)			DIMENSIONS (MM)			SCREW		ANG. OFFSET	PAR. OFFSET	MAX. TORQUE (Nm)
	d1 MIN.	d2 MIN.	d1, d2 MAX.	OD	L $\pm 0,1$	N	SET	CLAMP			
<b>RHS3/RHC3</b>	2,8	3,8	5	12,7	19,1	6	M3	M2	5	0,127	1
<b>RHS3,5/RHC3,5</b>	2,8	3,8	6,35	15,9	20,3	6	M4	M2,5	5	0,127	1,8
<b>RHS4/RHC4</b>	2,8	4,8	8	19,1	22,9	6,5	M4	M2,5	5	0,127	2,7
<b>RHS5/RHC5</b>	4,8	5,8	11	25,4	31,8	9	M5	M4	5	0,127	6

## SPECIAL COUPLINGS

Designed from the start with your goals in mind and manufactured to your specifications, Bervina provides unique solutions for you.



You want high flexible single beam coupling



or coupling with parallel cuts,



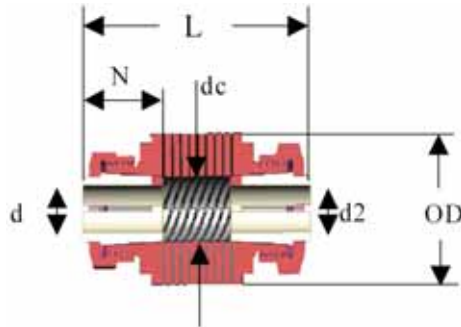
or with elox (anodized) on request,

...please visit our web site, send an e-mail or call us.

## EASY COUPLINGS

Patent number: **P0700183**

Our latest development : Simplified shaft clamp  
 Backlash free  
 Simplified stocking possibly  
 Universal constructive elements independent of shaftsize  
 No screw, no vibration



TYPE	BORE SIZE (MM)			DIMENSIONS (MM)			AN- GULAR OFFSET (DEG)	PARA- RELL OFFSET (MM)	MAX. TORQUE (Nm)	TOR- SIONAL STIFF- NESS (Nm/ RAD)	MASS (g/PC)
	d1 MIN.	d2 MIN.	d1, d2 MAX.	OD	L	N					
<b>EASY4</b>	4	5	8	19,1	28	8	3	0,08	4	90	22
<b>EASY5</b>	5	6	10	25,4	40	11	3	0,10	8	130	30
<b>EASY6</b>	6	7	14	31,8	58	16	3	0,15	14	200	60

## IMPORTANT NOTES

### Angular & Parallel

**Misalignments:** Max. compensation values are mutually exclusive

**Max. Torque:** Select the size where max. Torque exceeds the Application  
**Torque x Service factor**

**Service factor:** Reversing load: 2  
 Stop/start: 1,5  
 Steady load: 1

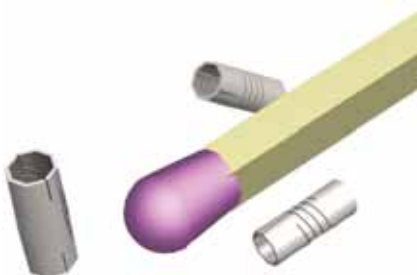
Torsional stiffness: Based on bore diameter of D2min., at load=Max.Torque/ 2

Max. speed: 5 000 RPM

Material: Aluminium (AW EN 7075)

How to order: type finish bores D1 & D2  
 EASY 5 6H7 / 8H7

Different sizes are available on request.



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## SILICON INSERT COUPLINGS

Our latest development : Shaft Coupling with Silicon insert.

Silicon part is bounded to the hubs → backlash free

Electrically isolated shafts

Heat resistant (-50 to +150 Celsius)

Soft start/stop



TYPE		BORE SIZE (MM)			DIMENSIONS (MM)			SCREW		AN- GULAR OFFSET (DEG)	PARA- RELL OFFSET (MM)	MAX. TORQUE (Nm)	TOR- SIONAL STIFF- NESS (Nm/ RAD)	MASS (G/PC)
SET SCREW	CLAMP	D1 MIN.	D2 MIN.	D1, D2 MAX.	OD	L	N	(S)	(C)					
NPS4	NPC4	4,4	5,8	10	19,1	26,5	6,5	M4	M2,5	0,6	0,1	3	35	22
NPS5	NPC5	5,8	7,5	12,7	25,4	38,1	11	M5	M4	1	0,15	5,7	65	45
NPS6	NPC6	5,8	9,8	19/16	31,8	57,2	16	M6	M5	1,6	0,2	8	80	120

## IMPORTANT NOTES

### Angular & Parallel

**Misalignments:** Max. compensation values are mutually exclusive

**Max. Torque:** Select the size where max. Torque exceeds the Application  
Torque x Service factor

**Service factor:** Reversing load: 2  
Stop/start: 1,5  
Steady load: 1

Torsional stiffness: Based on bore diameter of D2min., at load=Max.Torque/ 2

Max. speed: 5 000 RPM

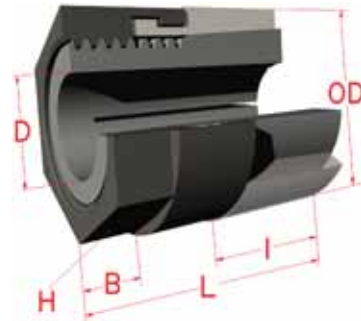
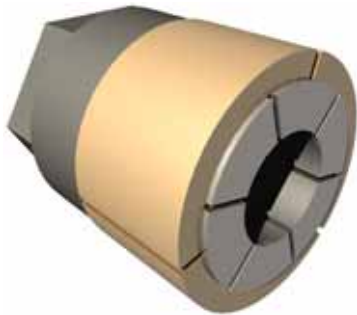
Material: Hub: Aluminium (EN AW 7075)  
Insert: Silicon

How to order: type finish bores D1 & D2  
NPS 5 6H7 / 8H7

Different sizes are available on request.

# TAPER BUSHES

## BERVINA TAPER LOCKING BUSHES TYPE BT



TYPE	MAT.	D (MM)	D (MM)	L (MM)	I (MM)	H (MM)	B (MM)	MAX. WORKING TORQUE
<b>BT 6,00/16,0</b>	ST	6	16	19	9,5	13	3	16
<b>BT 8,00/19,0</b>	ST	8	19	22	11	16	3	23
<b>BT 9,00/19,0</b>	ST	9	19	22	11	16	3	26
<b>BT 10/22,5</b>	ST	10	22,5	25,5	12,5	19	5	30
<b>BT 11/22,5</b>	ST	11	22,5	25,5	12,5	19	5	34
<b>BT 12/22,5</b>	ST	12	22,5	25,5	12,5	19	5	39
<b>BT 15/25,5</b>	ST	15	25,5	28,5	16	22	5	45
<b>BT 16/25,5</b>	ST	16	25,5	28,5	16	22	5	50
<b>BT 20/45,0</b>	ST	20	45	47,5	21,5	44,5	11	290
<b>BT 22/45,0</b>	ST	22	45	47,5	21,5	44,5	11	315
<b>BT 24/45,0</b>	ST	24	45	47,5	21,5	44,5	11	380
<b>BT 25/45,0</b>	ST	25	45	47,5	21,5	44,5	11	390

Material: ST = carbon steel

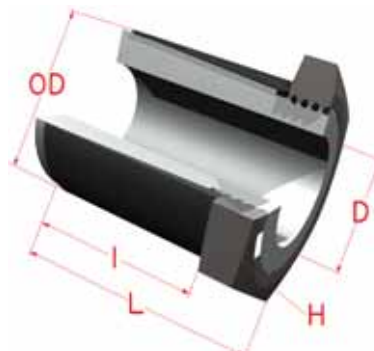


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# TAPER BUSHES

## BERVINA TAPER LOCKING BUSHES TYPE BS



TYPE	MAT.	D (MM)	D (MM)	L (MM)	I (MM)	H (MM)	THREAD	MAX. WORKING TORQUE
<b>INCH</b>								
<b>BS - 6,35</b>	KO	6,35	10	15	12,5	10	M8x0,5	7
<b>BS - 9,52</b>	KO	9,52	14	22	19	16	M12x1	14
<b>BS - 15,88</b>	KO	15,88	23	28	23	27	M20x1	26
<b>METRIC</b>								
<b>BS - 4,00</b>	KO	4	8	15	12,5	8	M6x0,5	3
<b>BS - 5,00</b>	KO	5	10	15	12,5	10	M8x0,5	4
<b>BS - 6,00</b>	KO	6	10	15	12,5	10	M8x0,5	7
<b>BS - 7,00</b>	KO	7	12	15	12	12	M10x0,75	8
<b>BS - 8,00</b>	KO	8	14	22	19	16	M12x1	14
<b>BS - 9,00</b>	KO	9	14	22	19	16	M12x1	14
<b>BS -10,00</b>	KO	10	17	22	18,5	18	M15x1	18
<b>BS - 11,00</b>	KO	11	17	22	18,5	18	M15x1	18
<b>BS - 12,00</b>	KO	12	17	22	18,5	18	M15x1	18
<b>BS - 14,00</b>	KO	14	20	28	23	20	M17x1	24
<b>BS - 15,00</b>	KO	15	20	28	23	20	M17x1	24
<b>BS - 16,00</b>	KO	16	23	28	23	27	M20x1	26
<b>BS - 17,00</b>	KO	17	23	28	23	27	M20x1	26
<b>BS - 19,00</b>	KO	19	25	28	23	27	M22x1	29
<b>BS - 20,00</b>	KO	20	28	28	23	30	M25x1	31

Material: KO = stainless steel  
Other sizes on request

## CUSTOMER REFERENCES

### COUPLINGS:

#### HUNGARY

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**22**

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**OUR OTHER STAFF MEMBERS:**



Gábor Bereczk  
Timing Belt Production Manager



László Bokor  
Coupling and Taper Bush Production Manager

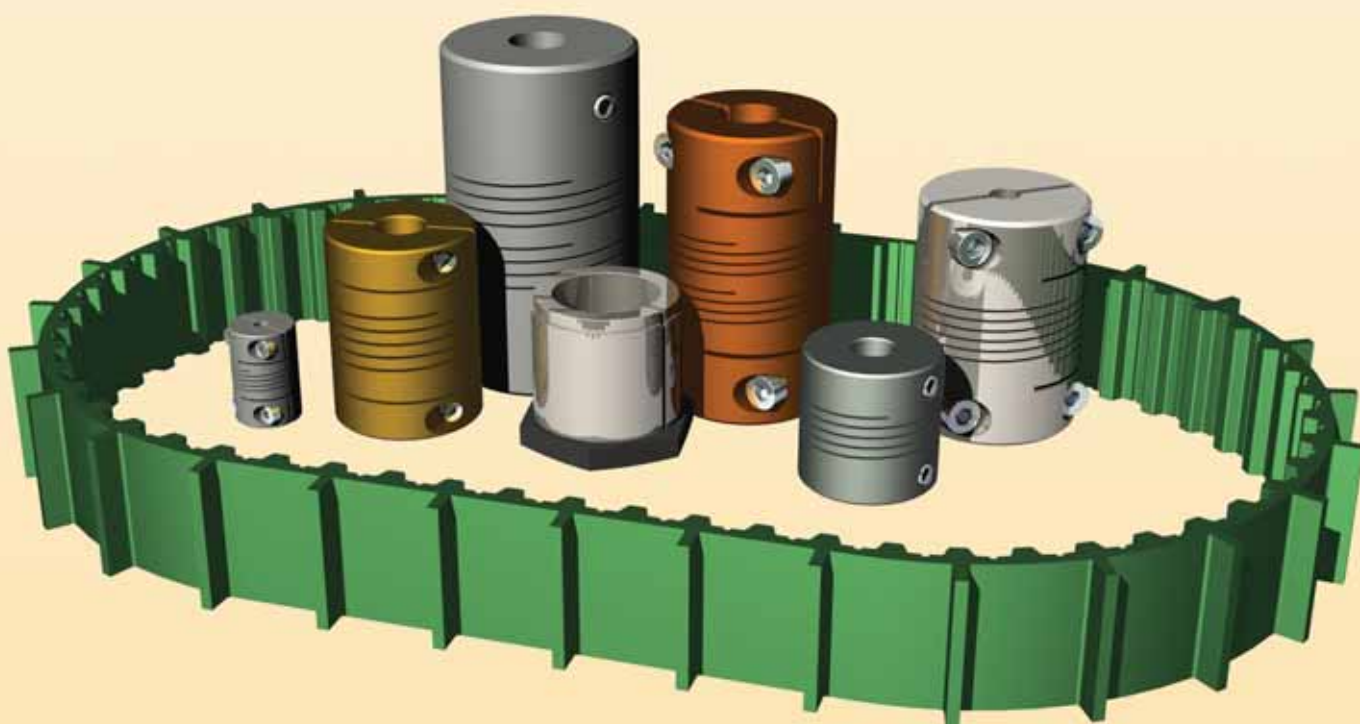


Sára Bogosi  
Office Manager



Skilled workers





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