GÜLÖZ

ÜRÜN KATALOĞU

PRODUCT CATALOGUE



KAPLİNLER

COUPLINGS



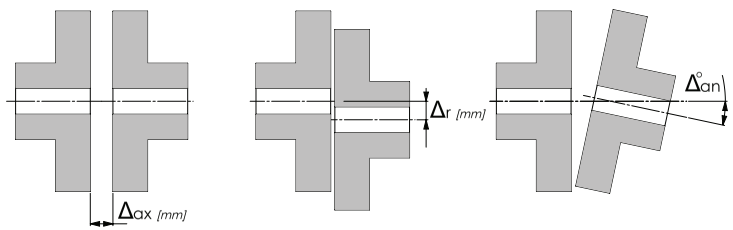
GÜLÖZ

KAPLİNLER
COUPLINGS

- **BOŞLUKSUZ SERVO KAPLİNLER**
  BACKLASH-FREE SERVO COUPLINGS
- **GEK ÇELİK SERVO KAPLİNLER**
  GEK STEEL SERVO COUPLINGS
- **HRC KAPLİNLER**
  HRC COUPLINGS
  - **PİLOT HRC KAPLİNLER**
    PILOT BORE HRC COUPLINGS
  - **BURÇLU HRC KAPLİNLER**
    HRC COUPLINGS FOR TAPER BUSHES
- **PİMLİ ELASTOMER KAPLİNLER**
  PIN & BUSH COUPLINGS
  - **PİLOT PİMLİ ELASTOMER KAPLİNLER**
    PILOT BORE PIN & BUSH COUPLINGS
  - **BURÇLU PİMLİ ELASTOMER KAPLİNLER**
    PIN & BUSH COUPLINGS FOR TAPER BUSHES
- **TEKER KAPLİNLER**
  TIRE COUPLINGS
  - **PİLOT TEKER KAPLİNLER**
    PILOT BORE TYRE COUPLINGS
  - **BURÇLU TEKER KAPLİNLER**
    TYRE COUPLINGS FOR TAPER BUSHES
- **CD BİLEŞİK DİSK KAPLİNLER**
  CD COMPOSITE DISC COUPLINGS
- **ZL ESNEK DİŞLİ PİMLİ KAPLİNLER**
  ZL FLEXIBLE GEAR PIN COUPLINGS
- **DİŞLİ KAPLİNLER**
  GEAR COUPLINGS
- **SCHMIDT TİPİ KAÇIKLIK KAPLİNLERİ**
  SCHMIDT OFFSET COUPLINGS

KAPLİN ÇEŞİTLERİ KIYAS TABLOSU
COUPLING TYPES COMPARISON TABLE

KAPLİN ÇEŞİTLERİ/ ÖZELLİKLER *COUPLING TYPES/ SPECIFICATIONS*			BOŞLUKSUZ SERVO KAPLİNLER *BACKLASH-FREE SERVO COUPLINGS*	GEK ÇELİK SERVO KAPLİNLER *GEK STEEL SERVO COUPLINGS*	TEKER KAPLİNLER *TYRE COUPLINGS*	HRC KAPLİNLER *HRC COUPLINGS*	PİMLİ ELASTOMER KAPLİNLER *PIN & BUSH COUPLINGS*	CD BİLEŞİK DİSK KAPLİNLER *CD COMPOSITE DISC COUPLINGS*	ZL ESNEK DİŞLİ PİMLİ KAPLİNLER *ZL FLEXIBLE GEAR PIN COUPLINGS*	DİŞLİ KAPLİNLER *GEAR COUPLINGS*	SCHMIDT TİPİ KAÇIKLIK KAPLİNLERİ *SCHMIDT OFFSET COUPLINGS*
ESNEKLİK *FLEXIBILITY*			Burulma karşısında esnek *Torsionally flexible*	Burulma karşısında esnek *Torsionally flexible*	Yüksek derecede esnek *Highly flexible*	Esnek *Flexible*	Esnek *Flexible*	Burulma Karşısında Rijit *Torsionally Rigid*	Düşük esneklikli *Low flexibility*	Rijit *Rigid*	Rijit *Rigid*
NOMİNAL TORK ARALIĞI *RATED TORQUE RANGE*			6-577 Nm	24-2.612 Nm	67-8.496 Nm	70 Sh. 33 ... 2.640 Nm 83 Sh. 50 ... 3.960 Nm	70 Sh. 43 ... 141.400 Nm 83 Sh. 58 ... 193.921 Nm	23 ... 121.930 Nm	367 ... 597.272 Nm	1.484 ... 196.247 Nm	Rulman ömrüne bağlı *Depends on bearing-lifetime*
MAKS. TORK ARALIĞI *MAX. TORQUE RANGE*			9 ... 865 Nm	42 ... 4.571 Nm	134 ... 16.992 Nm	70 Sh. 58 ... 4.620 Nm 83 Sh. 88 ... 6.930 Nm	70 Sh. 86 ... 282.800 Nm 83 Sh. 116 ... 387.842 Nm	46 ... 243.860 Nm	734 ... 1.194.544 Nm	2.968 ... 392.494 Nm	Rulman ömrüne bağlı *Depends on bearing-lifetime*
MAKS. HIZ ARALIĞI *MAX. SPEED RANGE*			2.500 ... 16.000 rpm	1.500 ... 8.000 rpm	1.500 ... 5.000 rpm	1.800 ... 7.000 rpm	650 ... 6750 rpm	1.250 ... 11.000 rpm	750 ... 4.000 rpm	1.600 ... 6.500 rpm	1.000-2.500 rpm
MİL KAÇIKLIK LİMİT ARALIKLARI *SHAFT MISALINMENT LIMIT RANGES*	Eksenel *Axial*	Δax [mm]	+0,6 ... +2,4	+1,0 ... +3,0	∓1,1 ...∓6,0	+1,0 ... +3,0	+0,48 ... +5,0	∓0,3 ...∓ 3,2	∓2,0 ...∓ 12,0	∓5 ...∓ 32	0,02 ... 0,06
	Radyal *Radial*	Δr [mm]	0,13 ... 0,24	0,16 ... 0,26	1,0 ... 5,0	0,35 .. 0,55	0,17 ... 1,13	0,08 ... 2,00	0,18 ... 0,55	0,036 .. 0,236	∓40 ...∓150
	Açısal *Angular*	Δan [°]	1	1	4	1,0 ... 1,4	0,75 ... 1,0	2,0 ... 2,5	0,5 ... 1,5	0,75	0,10 ... 0,24
ORTAK SICAKLIĞI *AMBIENT TEMPERATURE*			-30 °C ... +70 °C	-30 °C ... +70 °C	-30 °C ... +50 °C	70 Sh. -30 °C ... +50 °C 83 Sh. -20 °C ... +70 °C	70 Sh. -30 °C ... +50 °C 83 Sh. -20 °C ... +70 °C	-50 °C ... +120 °C	-30 °C ... +100 °C	S.G.* -30 °C ... +120 °C PAO** -40 °C ... +150 °C	-30 °C ... +120 °C
AĞIRLIK ARALIĞI *WEIGHT RANGE* (kg)			0,02 ... 4,3	0,75 ... 62,25	Pilot / Pilot 2,28...325,41 Burçlu / *for Taper Bush* 1,83...188,7	Pilot / Pilot 0,87...59,63 Burçlu / *for Taper Bush* 0,56...35,62	Pilot / Pilot 2,21 ... 2489 Burçlu / *for Taper Bush* 1,44...148,6	0,28 ... 662	1,24 ... 4166,48	4,38 ... 915,22	1,46 ... 64,9



Eksenel Kaçıklık
Axial Misalignment

Radyal Kaçıklık
Radial Misalignment

Açısal Kaçıklık
Angular Misalignment

BOŞLUKSUZ SERVO KAPLİNLER (BURULMA KARŞISINDA ESNEK)

BACKLASH-FREE SERVO COUPLINGS (TORSIONALLY FLEXIBLE)



GÜLÖZ

Genel Özellikler
Boşluksuz
Yüksek pozisyonlama hassasiyeti
Burulma karşısında esnek
Yüksek hız dayanımı
Düşük ağırlık ve kütle atalet momenti

General Specifications
Backlash-free
High positioning accuracy
Torsionally flexible
Higher speed capacity
Low weight and mass moment of inertia

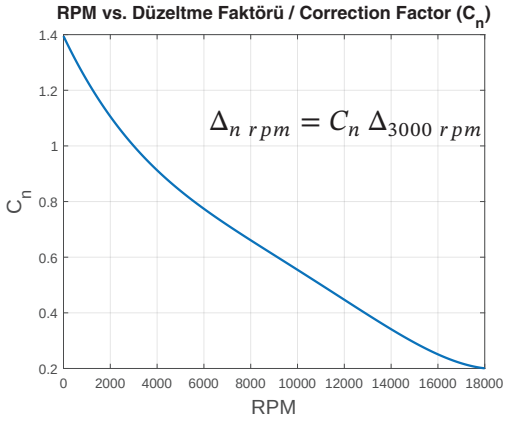
Teknik Özellikler
Technical Specifications

MALZEME *MATERIAL*	KOD *CODE*	NOMİNAL TORK *RATED TORQUE*	MAKS. TORK *MAX. TORQUE*	MAKS. HIZ *MAX. SPEED*	MİL KAÇIKLIK LİMİTLERİ (3000 rpm)* *SHAFT MISALIGNMENT LIMITS (at 3000 rpm)**		
		95 ShoreA	*95 ShoreA*		Eksenel *Axial*	Radyal *Radial*	Açısal *Angular*
		Tkn [Nm]	Tmax. [Nm]	**nmax. [rpm]**	**Δax [mm]**	Δr [mm]	Δan [°]
ALÜMİNYUM *ALUMINIUM*	GS-09	6	9	16000	+0,6	0,13	1
	GS-14	15	22	11000	+0,8	0,14	1
	GS-19	27	40	9000	+1,0	0,15	1
	GS-24	75	112	6500	+1,2	0,15	1
	GS-28	116	174	5750	+1,5	0,15	1
	GS-38	211	316	4250	+1,7	0,16	1
	GS-42	330	495	3500	+2,0	0,18	1
	GS-48	430	645	3000	+2,2	0,20	1
	GS-55	577	865	2500	+2,4	0,24	1

* Mil kaçıklık limitleri 3000 rpm için verilmiştir. Farklı hızlar için grafikten bulunan "Cn" sabiti ile çarpılarak limitlerin güncellenmesi gerekmektedir.
** Shaft misalignment limits are given for 3000 rpm. For different speeds, the limits must be updated by multiplying them by the "Cn" constant, found in the graph.*

Elastomer Özellikleri
Elastomer Specifications

Malzeme *Material*	Sertlik *Hardness*	Ortam Sıcaklığı *Ambient Temperature*
Poliüretan *Polyurethane*	95 ShoreA	-30 °C ... +70 °C

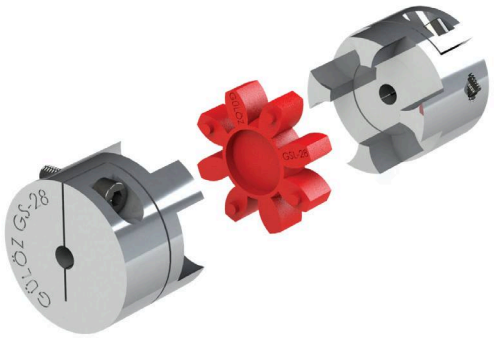


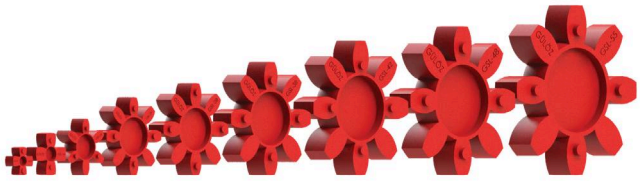
$\Delta_{n\ rpm}$ = Güncellenmiş mil kaçıklık limitleri/*Updated shaft misalignme*
$\Delta_{3000\ rpm}$ = Tablodaki mil kaçıklık limitleri/*Shaft misalignment limits i*
C_n = Düzeltme Faktörü/*Correction Factor*

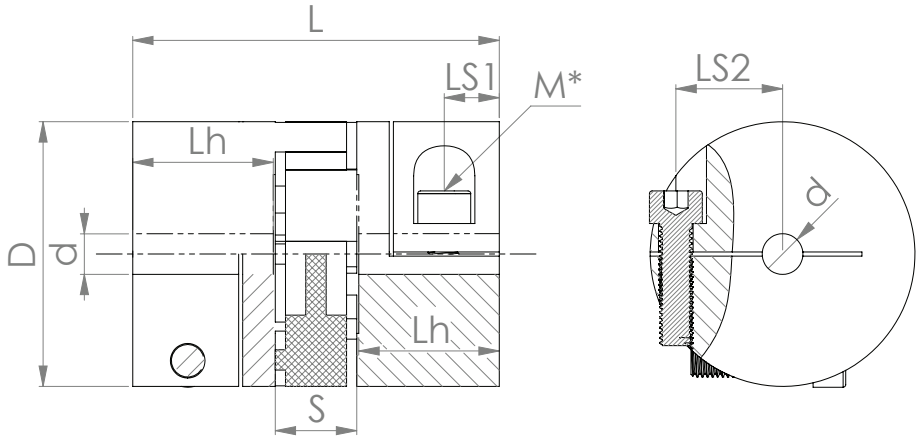
Eğer eksenel, radyal ve açısal mil kaçıklığı bir arada mevcutsa, aşağıdaki kısıtın ayrıca kontrol edilmesi gerekir.
If there is combined axial, radial, and angular shaft misalignment, the following constraint must be checked additionally.

$$\frac{\Delta_{ax\text{-}act}}{\Delta_{ax}} + \frac{\Delta_{r\text{-}act}}{\Delta_{r}} + \frac{\Delta_{an\text{-}act}}{\Delta_{an}} < 1$$

Δ_{ax-act} = Gerçek eksenel kaçıklık miktarı [mm]/*Actual amount of axial shaft misalignment [mm]*
Δ_{r-act} = Gerçek radal kaçıklık miktarı [mm]/*Actual amount of radial shaft misalignment [mm]*
Δ_{an-act} = Gerçek açısal kaçıklık miktarı [°]/*Actual amount of angular shaft misalignment* [°]
Δ_{ax} = Güncellenmiş eksenel kaçıklık limiti [mm]/*Updated axial shaft misalignment limit [mm]*
Δ_{r} = Güncellenmiş radyal kaçıklık limiti [mm]/*Updated radial shaft misalignment limit [mm]*
Δ_{an} = Güncellenmiş açısal kaçıklık limiti [°]/*Updated angular shaft misalignment limit* [°]







GS

BURULMA KARŞISINDA ESNEK
TORSIONALLY FLEXIBLE

MALZEME *MATERIAL*	KOD *CODE*	d	d max.	D	L	Lh	LS1	LS2	S	BAĞLANTI ELEMANLARI *CLAMPING SCREWS* DIN EN ISO 4762 - 12,9		KÜTLE ATALET MOMENTİ *MASS MOMENT OF INERTIA*	AĞIRLIK *WEIGHT*
										M*	MS [Nm]	J* [10^{-6}.kgm^2]	m* [kg]
ALÜMİNYUM *ALUMINIUM*	GS-09	4	9	20	30	9,5	5	7	10	M3	2,26	1,11	0,02
	GS-14	6	14	30	35	11	5,5	11,5	12	M3	2,26	6,38	0,05
	GS-19	8	19	40	66	24,5	10	15	16	M5	10,20	41,14	0,19
	GS-24	10	24	55	78	29,5	12	21,5	18	M6	17,51	170,67	0,42
	GS-28	10	28	65	90	34,5	13,5	25,5	20	M8	42,31	390,77	0,69
	GS-38	15	38	80	114	44	16	31	24	M8	42,31	1125,06	1,31
	GS-42	15	42	95	126	49	19	36	26	M10	83,58	2505,78	2,09
	GS-48	18	48	105	140	55	21	38	28	M12	143,17	4225,21	2,86
	GS-55	20	55	120	160	64	25	46	30	M12	143,17	8245,38	4,30

* Ağırlık ve kütle atalet momentleri pilot delik çapına göre komple kaplin takımı için verilmiştir.
* *Weights and mass moments of inertia are given for the complete coupling assembly based on the pilot bore diameter.*

GEK ÇELİK SERVO KAPLİNLER

GEK STEEL SERVO COUPLINGS



GÜLÖZ

GEK ÇELİK SERVO KAPLİNLER
GEK STEEL SERVO COUPLINGS

Genel Özellikler
Boşluksuz
Yüksek pozisyonlama hassasiyeti
Burulma karşısında esnek
Yüksek hız dayanımı
Ortası delik elastomer

General Specifications
Backlash-free
High positioning accuracy
Torsionally flexible
Higher speed A8tapacity
Bored elastomer

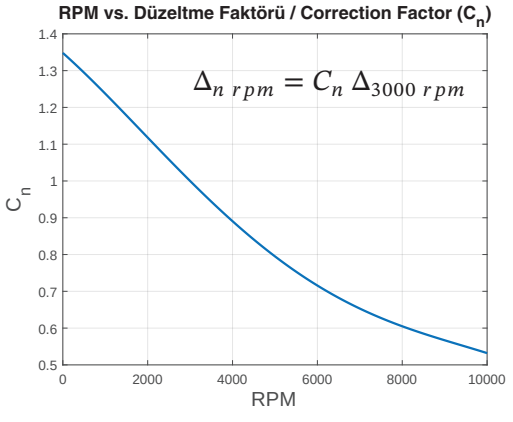
Teknik Özellikler
Technical Specifications

MALZEME *MATERIAL*	KOD *CODE*	NOMİNAL TORK *RATED TORQUE*	MAKS. TORK *MAX. TORQUE*	MAKS. HIZ *MAX. SPEED*	MİL KAÇIKLIK LİMİTLERİ (3000 rpm)* *SHAFT MISALIGNMENT LIMITS (at 3000 rpm)**		
		92 ShoreA	92 ShoreA		Eksenel *Axial*	Radyal *Radial*	Açısal *Angular*
		Tkn [Nm]	Tmax. [Nm]	**nmax. [rpm]**	**Δax [mm]**	Δr [mm]	Δan [°]
C45	GEK-19	24	42	8500	+1,0	0,16	1
	GEK-24	64	112	6000	+1,2	0,16	1
	GEK-29	99	173	5500	+1,5	0,16	1
	GEK-38	181	316	4000	+1,7	0,17	1
	GEK-42	283	495	3250	+2,0	0,20	1
	GEK-48	368	644	3000	+2,2	0,20	1
	GEK-55	495	866	2500	+2,3	0,22	1
	GEK-65	739	1.293	2250	+2,5	0,22	1
	GEK-75	1.486	2.600	2000	+2,7	0,24	1
	GEK-90	2.612	4.571	1500	+3,0	0,26	1

*Mil kaçıklık limitleri 3000 rpm için verilmiştir. Farklı hızlar için grafikten bulunan "Cn" sabiti ile çarpılarak limitlerin güncellenmesi gerekmektedir.
** Shaft misalignment limits are given for 3000 rpm. For different speeds, the limits must be updated by multiplying them by the "Cn" constant, found in the graph.*

Elastomer Özellikleri
Elastomer Specifications

Malzeme *Material*	Sertlik *Hardness*	Ortam Sıcaklığı *Ambient Temperature*
Poliüretan *Polyurethane*	95 ShoreA	-30 °C ... +70 °C

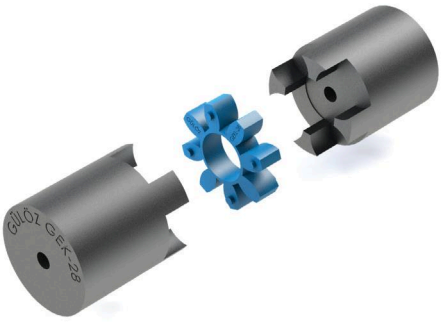


$\Delta_{n\ rpm}$ = Güncellenmiş mil kaçıklık limitleri/*Updated shaft misalignment limits*
$\Delta_{3000\ rpm}$ = Tablodaki mil kaçıklık limitleri/*Shaft misalignment limits in table*
C_n = Düzeltme Faktörü/*Correction Factor*

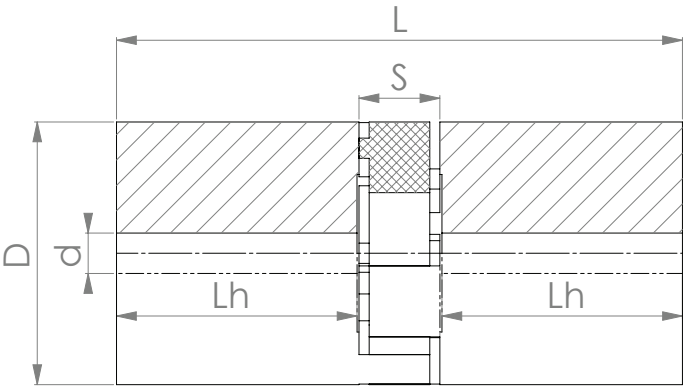
Eğer eksenel, radyal ve açısal mil kaçıklığı bir arada mevcutsa, aşağıdaki kısıtın ayrıca kontrol edilmesi gerekir.
If there is combined axial, radial, and angular shaft misalignment, the following constraint must be checked additionally.

$$\frac{\Delta_{ax\text{-}act}}{\Delta_{ax}} + \frac{\Delta_{r\text{-}act}}{\Delta_{r}} + \frac{\Delta_{an\text{-}act}}{\Delta_{an}} < 1$$

Δ_{ax-act} = Gerçek eksenel kaçıklık miktarı [mm]/*Actual amount of axial shaft misalignment [mm]*
Δ_{r-act} = Gerçek radal kaçıklık miktarı [mm]/*Actual amount of radial shaft misalignment [mm]*
Δ_{an-act} = Gerçek açısal kaçıklık miktarı [°]/*Actual amount of angular shaft misalignment* [°]
Δ_{ax} = Güncellenmiş eksenel kaçıklık limiti [mm]/*Updated axial shaft misalignment limit [mm]*
Δ_{r} = Güncellenmiş radyal kaçıklık limiti [mm]/*Updated radial shaft misalignment limit [mm]*
Δ_{an} = Güncellenmiş açısal kaçıklık limiti [°]/*Updated angular shaft misalignment limit* [°]







GEK

BURULMA KARŞISINDA ESNEK
TORSIONALLY FLEXIBLE

MALZEME *MATERIAL*	KOD *CODE*	d	d max.	D	L	Lh	S	KÜTLE ATALET MOMENTİ *MASS MOMENT OF INERTIA*	AĞIRLIK *WEIGHT*
								J [10^{-3}.kgm^2]*	*m* [kg]*
C45	GEK-19	8	19	40	90	36,5	16	0,16	0,75
	GEK-24	10	24	55	118	49,5	18	0,75	1,88
	GEK-28	10	28	65	140	59,5	20	1,75	3,18
	GEK-38	15	36	80	164	69	24	4,70	5,55
	GEK-42	15	42	95	176	74	26	10,03	8,48
	GEK-48	18	48	105	188	79	28	15,95	11,00
	GEK-55	20	55	120	210	89	30	30,50	16,14
	GEK-65	22	65	135	235	98	35	54,45	22,72
	GEK-75	25	75	160	260	108	40	117,07	34,94
	GEK-90	30	90	200	295	123	45	325,22	62,25

* Ağırlık ve kütle atalet momentleri pilot delik çapına göre komple kaplin takımı için verilmiştir.
* Weights and mass moments of inertia are given for the complete coupling assembly based on the pilot bore diameter.

HRC KAPLİNLER

HRC COUPLINGS



GÜLÖZ

Genel Özellikler
Orta seviye tork kapasitesi
Düşük boşluklu
Orta seviye mil kaçıklık limitleri
Orta seviye titreşim ve darbe sönümleme yeteneği
Ortası delik elastomer
Orta seviye hız limiti

General Specifications
Moderate level torque capacity
Low backlash
Medium level shaft misalignment limits
Medium level vibration and shock damping ability
Bored elastomer
Medium level speed limit

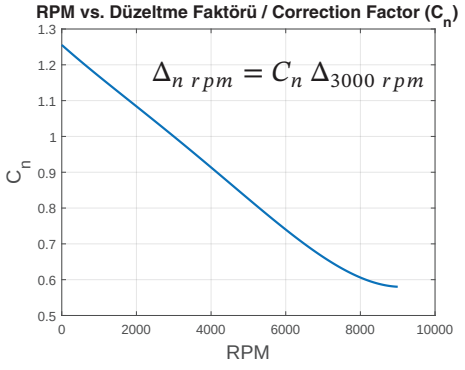
Teknik Özellikler
Technical Specifications

MALZEME *MATERIAL*	KOD *CODE*	NOMİNAL TORK *RATED TORQUE*		MAKS. HIZ *MAX. SPEED*		MAKS. HIZ *MAX. SPEED*	MİL KAÇIKLIK LİMİTLERİ (3000 rpm)* *SHAFT MISALIGNMENT LIMITS* (at 3000 rpm)*		
							Eksenel *Axial*	Radyal *Radial*	Açısal *Angular*
		Doğal Kauçuk *Naturel Rubber* ***70 ShoreA***	Poliüretan *Polyurethane* ***83 ShoreA***	Doğal Kauçuk *Naturel Rubber* ***70 ShoreA***	Poliüretan *Polyurethane* ***83 ShoreA***	$n_{max.}$ [rpm]	Δ_{ax} [mm]	Δ_{r} [mm]	Δ_{an} [°]
		Tkn [Nm]		**Tmax. [Nm]**					
GG 24**	HRC-70	33	50	58	88	7000	+1,00	0,35	1,0
	HRC-90	75	113	131	198	6250	+1,00	0,35	1,0
	HRC-110	186	280	326	490	4750	+1,00	0,35	1,0
	HRC-130	277	416	485	728	4000	+1,50	0,40	1,0
	HRC-150	468	702	819	1.229	3500	+2,00	0,40	1,0
	HRC-180	652	978	1.141	1.712	3000	+2,00	0,40	1,2
	HRC-230	1.485	2.228	2.599	3.899	2250	+2,00	0,55	1,2
	HRC-280	2.640	3.960	4.620	6.930	1800	+3,00	0,55	1,4

* Mil kaçıklık limitleri 3000 rpm için verilmiştir. Farklı hızlar için grafikten bulunan "Cn" sabiti ile çarpılarak limitlerin güncellenmesi gerekmektedir.
** Shaft misalignment limits are given for 3000 rpm. For different speeds, the limits must be updated by multiplying them by the "Cn" constant, found in the graph.*
** GG 24 : PİK DÖKÜM / *GREY CAST IRON*

Elastomer Özellikleri
Elastomer Specifications

Malzeme ***Material***	**Sertlik** ***Hardness***	**Ortam Sıcaklığı** ***Ambient Temperature***
Doğal Kauçuk *Naturel Rubber*	70 ShoreA	-30 °C ... +50 °C
Poliüretan *Polyurethane*	95 ShoreA	-30 °C ... +70 °C

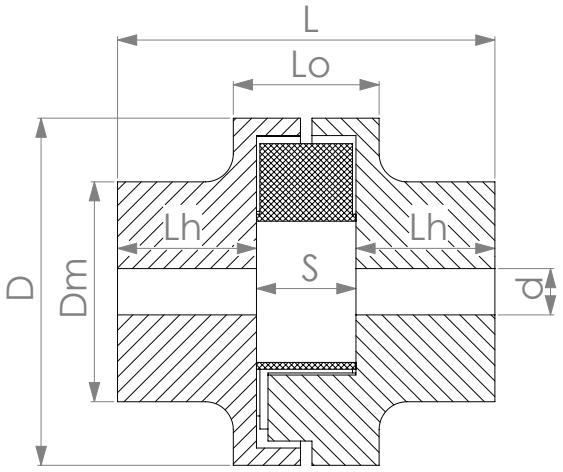


$\Delta_{n\ rpm}$ = Güncellenmiş mil kaçıklık limitleri/*Updated shaft misalignment limits*
$\Delta_{3000\ rpm}$ = Tablodaki mil kaçıklık limitleri/*Shaft misalignment limits in table*
C_n = Düzeltme Faktörü/*Correction Factor*

Eğer eksenel, radyal ve açısal mil kaçıklığı bir arada mevcutsa, aşağıdaki kısıtın ayrıca kontrol edilmesi gerekir.
If there is combined axial, radial, and angular shaft misalignment, the following constraint must be checked additionally.

$$\frac{\Delta_{ax\text{-}act}}{\Delta_{ax}} + \frac{\Delta_{r\text{-}act}}{\Delta_{r}} + \frac{\Delta_{an\text{-}act}}{\Delta_{an}} < 1$$

Δ_{ax-act} = Gerçek eksenel kaçıklık miktarı [mm]/*Actual amount of axial shaft misalignment [mm]*
Δ_{r-act} = Gerçek radal kaçıklık miktarı [mm]/*Actual amount of radial shaft misalignment [mm]*
Δ_{an-act} = Gerçek açısal kaçıklık miktarı [°]/*Actual amount of angular shaft misalignment* [°]
Δ_{ax} = Güncellenmiş eksenel kaçıklık limiti [mm]/*Updated axial shaft misalignment limit [mm]*
Δ_{r} = Güncellenmiş radyal kaçıklık limiti [mm]/*Updated radial shaft misalignment limit [mm]*
Δ_{an} = Güncellenmiş açısal kaçıklık limiti [°]/*Updated angular shaft misalignment limit* [°]





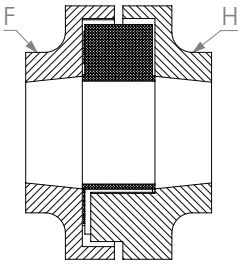
HRC-P

ESNEK
FLEXIBLE

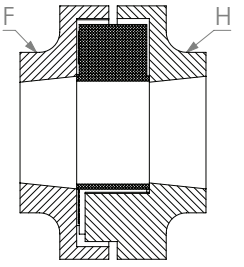
MALZEME *MATERIAL*	KOD *CODE*	d	d max.	D	L	Lh	Lo	Dm	S	KÜTLE ATALET MOMENTİ *MASS MOMENT OF INERTIA*	AĞIRLIK *WEIGHT*
										J [10-3.kgm2]*	*m* [kg]*
GG 24**	HRC-70-P	6	25	70	65	23,5	22	45	18	0,40	0,87
	HRC-90-P	8	32	90	84	30	30	54	24	1,45	1,83
	HRC-110-P	10	55	110	121	45	47	82	31	6,51	5,26
	HRC-130-P	12	55	130	148	55,5	47	84	37	11,44	7,31
	HRC-150-P	16	60	150	163	60	63	95	43	24,40	10,97
	HRC-180-P	20	70	180	186	70	70	110	46	54,44	17,13
	HRC-230-P	24	90	230	239	90	85	134	59	164,08	32,49
	HRC-280-P	32	110	280	284	105,5	105	168	73	451,54	59,63

* Ağırlık ve kütle atalet momentleri pilot delik çapına göre komple kaplin takımı için verilmiştir.
* *Weights and mass moments of inertia are given for the complete coupling assembly based on the pilot bore diameter.*
** GG 24 : PİK DÖKÜM / GREY CAST IRON

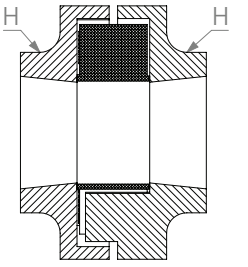
GÖBEK VARYASYONLARI
HUB VARIATIONS



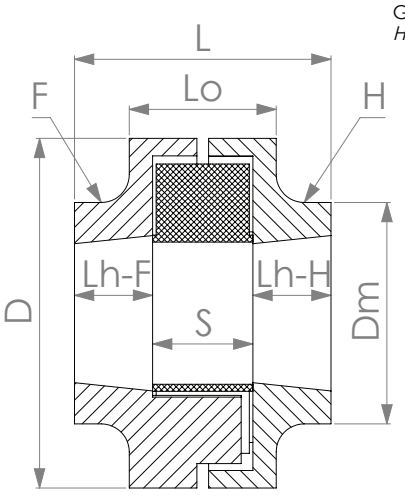
Göbek Stili F / F
Hub Style



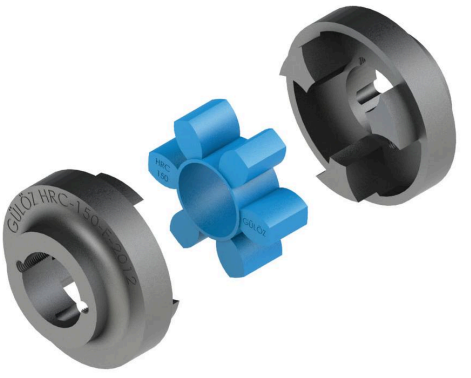
Göbek Stili F / H
Hub Style



Göbek Stili H / H
Hub Style



Göbek Stili F / H
Hub Style



Göbek Stili F / H
Hub Style

HRC-B

ESNEK
FLEXIBLE

MALZEME *MATERIAL*	KOD *CODE*	GÖBEK STİLİ *HUB STYLE*	BURÇ *BUSH*	d min.	d max.	D	L	Lh-F Lh-H	Lo	Dm	S	KÜTLE ATALET MOMENTİ *MASS MOMENT OF INERTIA* J* [10^{-3}.kgm2]	AĞIRLIK WEIGHT m* [kg]
GG 24**	HRC-70-B	F H	1008	9	25	70	65	23,5	22	45	18	0,32	0,56
	HRC-90-B	F H	1108	9	28	90	71	23,5	30	54	24	1,00	1,25
	HRC-110-B	F H	1610	14	42	110	84	26,5	47	82	31	3,86	2,86
	HRC-130-B	F H	1610	14	42	130	90	26,5	47	84	37	6,43	3,97
	HRC-150-B	F H	2012	18	50	150	110	33,5	63	95	43	14,79	6,44
	HRC-180-B	F H	2517	20	65	180	139	46,5	70	110	46	33,75	10,26
	HRC-230-B	F H	3020	25	75	230	164	52,5	85	134	59	95,49	18,45
	HRC-280-B	F H	3525	35	90	280	206	66,5	105	168	73	276,15	35,62

* Ağırlık ve kütle atalet momentleri pilot delik çapına göre komple kaplin takımı için verilmiştir.
* *Weights and mass moments of inertia are given for the complete coupling assembly based on the pilot bore diameter.*
** GG 24 : PİK DÖKÜM / *GREY CAST IRON*

PİMLİ ELASTOMER KAPLİNLER

PIN & BUSH COUPLINGS





GÜLÖZ

Genel Özellikler

Orta seviye tork kapasitesi
Düşük boşluklu
Kaplini sökmeden hızlı elastomer değişimi
Orta seviye mil kaçıklık limitleri
Orta seviye titreşim ve darbe sönümleme yeteneği
Orta seviye hız limiti

General Specifications

Moderate level torque capacity
Low backlash
Quick elastomer replacement without dismantling the coupling
Medium level shaft misalignment limits
Medium level vibration and shock damping ability
Medium level speed limit

Teknik Özellikler
Technical Specifications

MALZEME *MATERIAL*	KOD *CODE*	NOMİNAL TORK *RATED TORQUE*		MAKS. TORK *MAX TORQUE*		MAKS. HIZ *MAX. SPEED* nmax. [rpm]	MİL KAÇIKLIK LİMİTLERİ (1500 rpm)* *SHAFT MISALIGNMENT LIMITS (at 1500 rpm)**		
		Doğal Kauçuk *Naturel Rubber 70 ShoreA*	Poliüretan *Polyurethane 83 ShoreA*	Doğal Kauçuk *Naturel Rubber 70 Sho-reA*	Poliüretan *Polyurethane 83 ShoreA*		Eksenel *Axial*	Radyal *Radial*	Açısal *Angular*
		Tkn [Nm]		Tmax. [Nm]		nmax. [rpm]	Δax [mm]	Δr [mm]	Δan [°]
C 45	PK-10	43	58	86	116	6.750	+0,48	0,17	0,75
	PK-11	96	132	192	264	6.250	+0,48	0,19	0,75
	PK-12	197	270	394	540	5.500	+0,71	0,21	0,75
	PK-16	308	422	616	844	4.750	+0,85	0,23	0,75
	PK-20	692	949	1.384	1.898	3.750	+0,85	0,26	0,75
	PK-25	1.137	1.559	2.274	3.118	3.000	+0,85	0,31	0,75
	PK-30	1.844	2.529	3.688	5.058	2.750	+1,20	0,32	0,75
GGG 55**	PK-35	3.442	4.721	6.884	9.442	2.000	+1,20	0,39	1,00
	PK-40	4.650	6.350	9.300	12.700	1.900	+1,50	0,43	1,00
	PK-45	8.085	11.088	16.170	22.176	1.800	+1,50	0,47	1,00
	PK-50	11.906	16.328	23.812	32.656	1.600	+2,00	0,51	1,00
	PK-60	18.143	24.881	36.286	49.762	1.500	+2,00	0,56	1,00
	PK-70	24.065	33.003	48.130	66.006	1.250	+3,00	0,68	1,00
	PK-80	39.061	53.569	78.122	107.138	1.050	+4,00	0,76	1,00
	PK-100	62.845	86.188	125.690	172.376	900	+5,00	0,84	1,00
	PK-120	141.400	193.921	282.800	387.842	650	+5,00	1,13	1,00

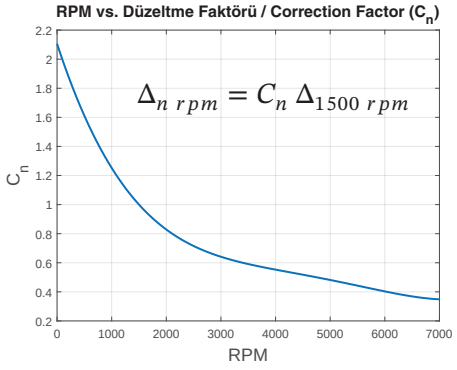
* Mil kaçıklık limitleri 1500 rpm için verilmiştir. Farklı hızlar için grafikten bulunan "Cn" sabiti ile çarpılarak limitlerin güncellenmesi gerekmektedir.
* *Shaft misalignment limits are given for 1500 rpm. For different speeds, the limits must be updated by multiplying them by the "Cn" constant, found in the graph.*

** GGG 55 : SFERO DÖKÜM / *SPHEROIDAL CAST IRON*

Elastomer Özellikleri
Elastomer Specifications

Malzeme *Material*	Sertlik *Hardness*	Ortam Sıcaklığı *Ambient Temperature*
Doğal Kauçuk *Naturel Rubber*	70 ShoreA	-30 °C ... +50 °C
Poliüretan *Polyurethane*	95 ShoreA	-30 °C ... +70 °C

PİMLİ ELASTOMER KAPLİNLER
PIN & BUSH COUPLINGS



$\Delta_{n\ rpm}$ = Güncellenmiş mil kaçıklık limitleri/*Updated shaft misalignment limits*

$\Delta_{1500\ rpm}$ = Tablodaki mil kaçıklık limitleri/*Shaft misalignment limits in table*

C_n = Düzeltme Faktörü/*Correction Factor*

Eğer eksenel, radyal ve açısal mil kaçıklığı bir arada mevcutsa, aşağıdaki kısıtın ayrıca kontrol edilmesi gerekir.

If there is combined axial, radial, and angular shaft misalignment, the following constraint must be checked additionally.

$$\frac{\Delta_{ax\text{-}act}}{\Delta_{ax}} + \frac{\Delta_{r\text{-}act}}{\Delta_{r}} + \frac{\Delta_{an\text{-}act}}{\Delta_{an}} < 1$$

Δ_{ax-act} = Gerçek eksenel kaçıklık miktarı [mm]/*Actual amount of axial shaft misalignment [mm]*

Δ_{r-act} = Gerçek radal kaçıklık miktarı [mm]/*Actual amount of radial shaft misalignment [mm]*

Δ_{an-act} = Gerçek açısal kaçıklık miktarı [°]/*Actual amount of angular shaft misalignment* [°]

Δ_{ax} = Güncellenmiş eksenel kaçıklık limiti [mm]/*Updated axial shaft misalignment limit [mm]*

Δ_{r} = Güncellenmiş radyal kaçıklık limiti [mm]/*Updated radial shaft misalignment limit [mm]*

Δ_{an} = Güncellenmiş açısal kaçıklık limiti [°]/*Updated angular shaft misalignment limit* [°]

PİMLİ ELASTOMER KAPLİN TİPLERİ
TYPES OF PIN & BUSH COUPLINGS

PİLOT TİPLER / *PILOT BORE TYPES*

TİP 1 (PPK-10...PPK-40)

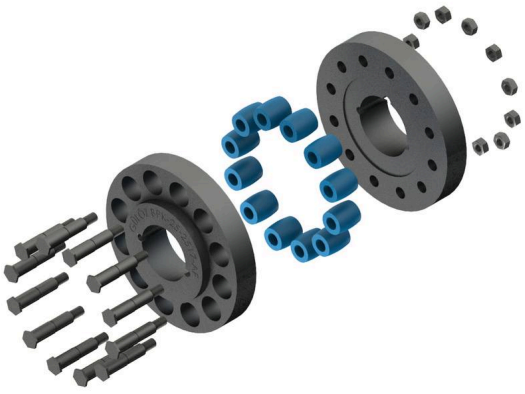


TİP 2 (BPK-45...BPK-120)



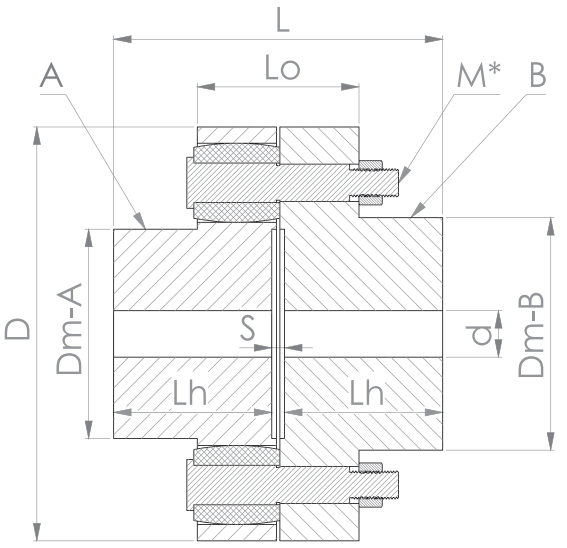
BURÇLU TİPLER / *TYPES FOR TAPER BUSHES*

TİP *TYPE* **1B (BPK-10...BPK-40)**



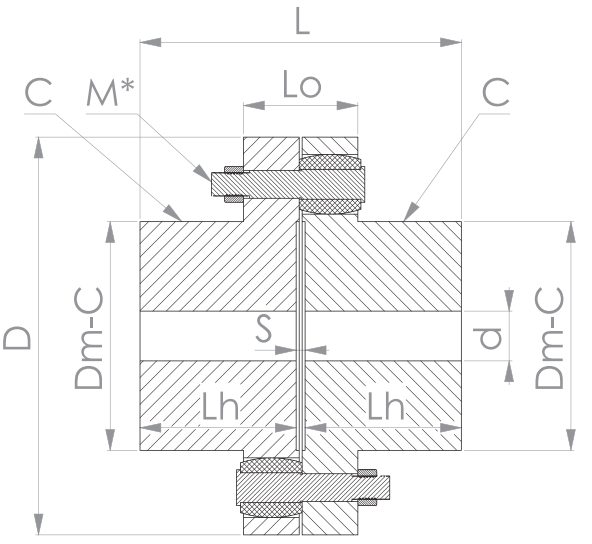
TİP *TYPE* **2B (BPK-45...BPK-120)**





Göbek Stili *Hub Style* A/ B (Tek Taraflı Lastikli *Single-Sided Elastomer*)

TİP *TYPE* 1 (PPK-10 ... PPK-40)



Göbek Stili *Hub Style* C / C (Çapraz Taraflı Lastikli *Cross-Sided Elastomer*)

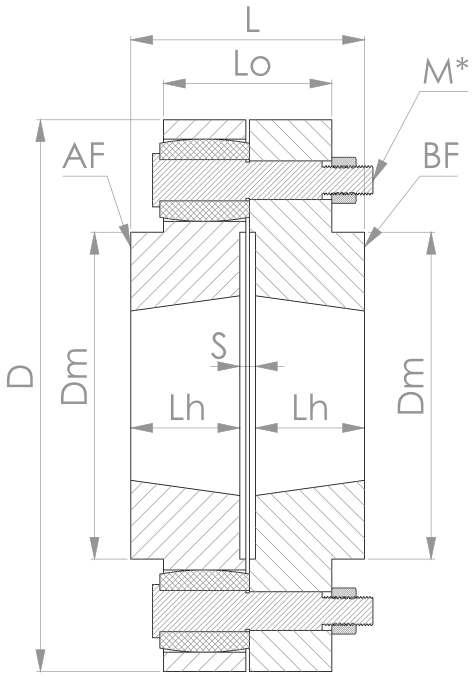
TİP *TYPE* 2 (PPK-45 ... PPK-120)

PPK

ESNEK
FLEXIBLE

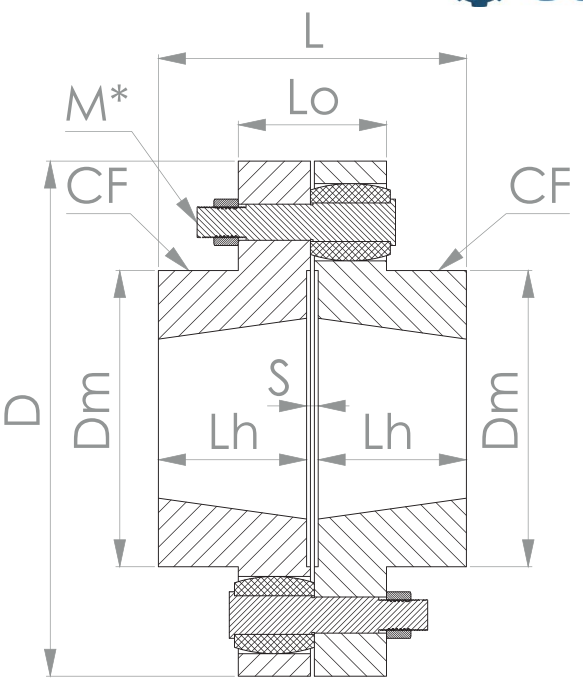
ME / IAL	KOD *CODE*	TİP *TYPE*	GÖBEK STİLİ *HUB STYLE*	d	d max.	D	L	Lh	Lo	Dm-A Dm-B	Dm-C	S	KÜTLE ATALET MOMENTİ *MASS MOMENT OF INER-TIA* J* [10^{-3}.kgm^2]	AĞIRLIK *WEIGHT* m* [kg]
	PPK-10	1	A B	8	28 32	88	81	38	37	46 52	-	5	1,65	2,21
	PPK-11	1	A B	10	32 38	98	91	43	37	52 60	-	5	2,69	2,90
	PPK-12	1	A B	12	38 42	118	101,5	48	55,5	60 68	-	5,5	6,81	5,20
	PPK-16	1	A B	16	45 55	148	111,5	53	55,5	76 85	-	5,5	15,70	8,67
	PPK-20	1	A B	20	55 65	178	141,5	68	69,5	90 100	-	5,5	41,93	15,50
	PPK-25	1	A B	25	90 90	228	181,5	87,5	69,5	135 135	-	6,5	137,75	31,55
	PPK-30	1	A B	25	95 95	252	202	97,5	84	140 140	-	7	225,78	42,50
GGG 55**	PPK-35	1	A B	35	110 110	320	252	122,5	84	170 170	-	7	603,32	75,35
	PPK-40	1	A B	40	130 130	360	283	137	115	200 200	-	9	1.281,17	120,50
	PPK-45	2	C / C	50	150	400	323	157	115	-	230	9	2.163,85	161,74
	PPK-50	2	C / C	60	170	450	363	176	119	-	260	11	3.758,60	223,38
	PPK-60	2	C / C	60	200	510	403	196	119	-	300	11	6.584,42	312,62
	PPK-70	2	C / C	70	230	600	484	236	158	-	340	12	15.613,95	529,16
	PPK-80	2	C / C	70	270	700	524	256	158	-	410	12	29.560,96	786,90
	PPK-100	2	C / C	80	300	800	587	286,5	200	-	460	14	52.790,00	1.176,00
	PPK-120	2	C / C	90	400	1100	704	344	200	-	620	16	198.508,00	2.489,00

BURÇLU PİMLİ ELASTOMER KAPLİNLER
PIN & BUSH COUPLINGS FOR TAPER BUSHES



Göbek Stili *Hub Style* AF / BF (Tek Taraflı Lastikli ve İçten Burçlu *Single-Sided Elastomer and Inside-Insertion Bushing*)

TİP *TYPE* 1B (BPK-10 ... BPK-40)



Göbek Stili *Hub Style* CF / CF (Çapraz Taraflı Lastikli ve İçten Burçlu *Cross-Sided Elastomer and Inside-Insertion Bushing*)

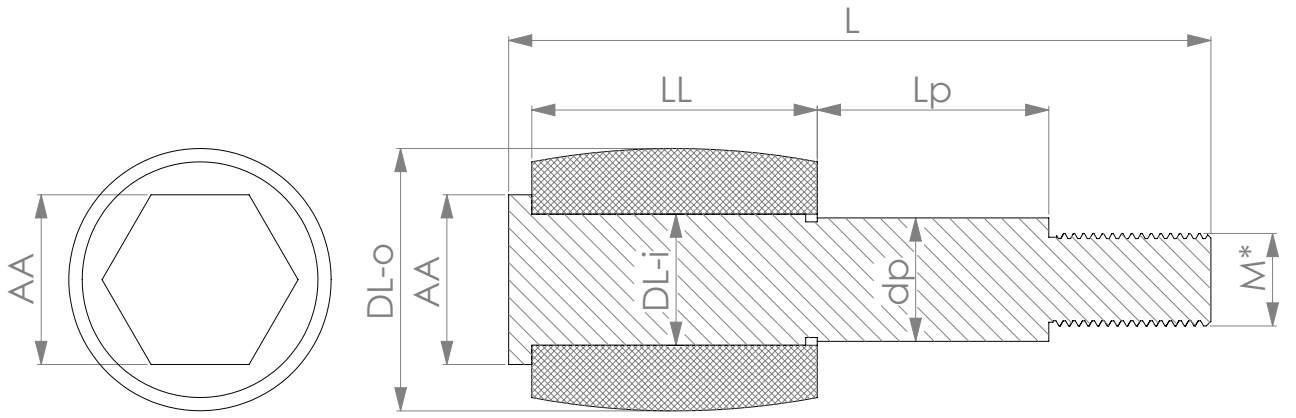
TİP *TYPE* 2B (BPK-45 ... BPK-50)

ESNEK *FLEXIBLE*

BPK

MALZEME *MATERIAL*	*KOD CODE*	TİP *TYPE*	*GÖBEK STİLİ* HUB STYLE**	*BURÇ BUSH*	d	d max.	D	L	Lh	Lo	Dm-C	S	BAĞLANTI ELEMANLARI *CLAMPING SCREWS DIN EN ISO 4762 - 12,9*				KÜTLE ATALET MOMENTİ *MASS MOMENT OF INERTIA*	AĞIRLIK *WEIGHT*
													PERNO TİPİ *PIN TYPE*	ADET *QTY.*	M*	M_S [Nm]	J* [10-3.kgm²]	m* [kg]
C 45	BPK-10	1B	AF / BF	1008	9	25	88	49	22	37	46	5	P.1	4	M6		0,99	1,44
	BPK-11	1B	AF / BF	1108	9	98	49	22	37	52	5	5	P.1	8	M6		1,42	1,75
	BPK-12	1B	AF / BF	1210	12	118	55,5	25	55,5	-	5,5	5,5	P.2	8	M8		4,52	3,52
	BPK-16	1B	AF / BF	1610	14	148	55,5	25	55,5	-	5,5	5,5	P.2	10	M8		10,56	5,73
	BPK-20	1B	AF / BF	2012	18	178	69,5	32	69,5	-	5,5	5,5	P.3	10	M12		27,58	10,14
	BPK-25	1B	AF / BF	2517	20	228	96,5	45	69,5	135	6,5	6,5	P.3	12	M12		77,13	19,11
	BPK-30	1B	AF / BF	3020	25	252	111	52	84	140	7	7	P.4	10	M18		135,21	25,95
GGG 55***	BPK-35	1B	AF / BF	3535	35	320	187	90	84	170	7	7	P.4	14	M18		394,34	50,12
	BPK-40	1B	AF / BF	4040	40	360	213	102	115	200	9	9	P.5	10	M24		875,88	82,44
	BPK-45	2B	CF / CF	4545	45	400	239	115	115	230	9	9	P.5	16	M24		1.374,76	106,70
	BPK-50	2B	CD / CF	5050	50	450	271	130	119	260	11	11	P.6	12	M30		2.376,18	148,60

* Standart serilerin göbek stilleri 'F tip' içten burçludur. 'H tip' dıştan burçlu göbek stili ihtiyaçlarınız için firmamıza danışınız.
** The standard series hub styles are 'F type' with inside-insertion bushing. Please consult our company for your 'H type' outside-insertion bushing hub style needs.*
** Ağırlık ve kütle atalet momentleri burçlar hariç komple kaplin takımı için verilmiştir.
*** Weights and mass moments of inertia are given for the complete coupling assembly excluding the taper bushes.*
*** GGG 55 : SFERO DÖKÜM / *SPHEROIDAL CAST IRON*



P.

PİM MALZEME *PIN MATERIAL*	ELASTOMER MALZEME *ELASTOMER MATERIAL*	KOD *CODE*	UYUMLU BOYUTLAR *COMPATIBLE SIZES*	DL-o	DL-i	LL	ALTIKÖŞE *HEXAGON* AA	dp	Lp	L	M*
C 45	NBR	P.1	PK-10 / PK-11	18	8	20	12	7	15	49,5	M6
		P.2	PK-12 / PK-16	24	11	30	17	10	24	71,5	M8
		P.3	PK-20 / PK-25	34	17	37	22	16	30	91	M12
		P.4	PK-30 / PK-35	45	22	45	27	20	37	112	M18
		P.5	PK-40 / PK-45	60	30	62	36	28	50	154	M24
		P.6	PK-50 / PK-60	76	34	64	50	32	50	168,5	M30
		P.7	PK-70 / PK-80	97	48	85	65	46	70	222,5	M36
		P.8	PK-100 / PK-120	117	58	106	80	56	85	272	M42

KOD *CODE*	BAĞLANTI ELEMANLARI *CLAMPING SCREWS DIN EN ISO 4762 - 12,9*			
	PERNO TİPİ *PIN TYPE*	ADET *QTY.*	M*	M_S [Nm]
PPK-10	P.1	4	M6	17,51
PPK-11	P.1	8	M6	17,51
PPK-12	P.2	8	M8	42,31
PPK-16	P.2	10	M8	42,31
PPK-20	P.3	10	M12	143,17
PPK-25	P.3	12	M12	143,17
PPK-30	P.4	10	M18	489,82
PPK-35	P.4	14	M18	489,82
PPK-40	P.5	10	M24	1204,83
PPK-45	P.5	16	M24	1204,83
PPK-50	P.6	12	M30	2411,38
PPK-60	P.6	16	M30	2411,38
PPK-70	P.7	12	M36	4213,37
PPK-80	P.7	16	M36	4213,37
PPK-100	P.8	16	M42	6788,44
PPK-120	P.8	24	M42	6788,44

TEKER KAPLİNLER

TYRE COUPLINGS



GÜLÖZ

Genel Özellikler

Yüksek derecede esnek
Yüksek mil kaçıklık limitleri (özellikle açısal)
Kaplini sökmeden hızlı elastomer değişimi
Mükemmel titreşim sönümleme ve darbe emme
Düşük bakım ihtiyacı ve uzun servis ömrü
Geniş tork kapasitesi aralığı
Esnek tasarım ile ekipman koruması ve daha uzun rulman ömrü

General Specifications

Highly-flexible
Higher shaft misalignment limits (especially angular)
Quick elastomer replacement without dismantling the coupling
Excellent vibration damping and shock absorption
Low maintenance and long service life
Wide torque capacity range
Flexible design for equipment protection and extended bearing life

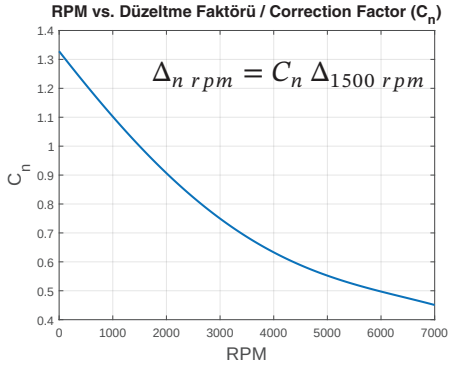
Teknik Özellikler
Technical Specifications

MALZEME *MATERIAL*	KOD CODE	NOMİNAL TORK *RATED TORQUE*	MAKS. TORK *MAX. TORQUE*	MAKS. HIZ *MAX. SPEED*	MİL KAÇIKLIK LİMİTLERİ (1500 rpm)* *SHAFT MISALIGNMENT LIMITS (at 1500 rpm)**		
		70 ShoreA	**70 ShoreA**		Eksenel *Axial*	Radyal *Radial*	Açısal *Angular*
		T_{kn} [Nm]	**$T_{max.}$ [Nm]**	**$n_{max.}$ [rpm]**	**∓Δax [mm]**	**Δr [mm]**	**Δan [°]**
C 45	F40	67	134	5.000	1,1	1,0	4
	F50	155	310	5.000	1,5	1,2	4
	F60	237	474	4.500	1,8	1,5	4
	F70	394	788	4.000	2,1	1,7	4
	F80	626	1.252	3.500	2,3	1,9	4
	F100	1.050	2.100	3.000	3,0	2,3	4
	F110	1.308	2.616	2.500	3,4	2,5	4
	F120	1.892	3.784	2.250	1,7	3,0	4
GGG 55**	F140	3.375	6.750	2.000	4,2	3,4	4
	F180	7.167	14.334	1.750	5,5	4,5	4
	F200	8.496	16.992	1.500	6,0	5,0	4

* Mil kaçıklık limitleri 1500 rpm için verilmiştir. Farklı hızlar için grafikten bulunan "Cn" sabiti ile çarpılarak limitlerin güncellenmesi gerekmektedir.
** Shaft misalignment limits are given for 1500 rpm. For different speeds, the limits must be updated by multiplying them by the "Cn" constant, found in the graph.*

Elastomer Özellikleri
Elastomer Specifications

Malzeme *Material*	Sertlik *Hardness*	Ortam Sıcaklığı *Ambient Temperature*
"Doğal Kauçuk Naturel Rubber"	70 ShoreA	-30 °C ... +50 °C



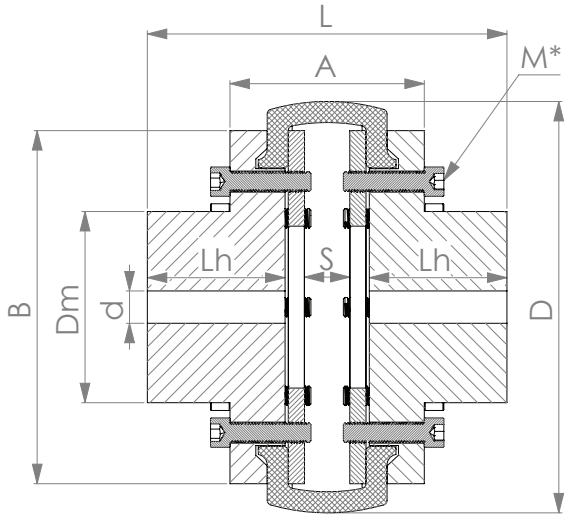
$\Delta_{n\ rpm}$ = Güncellenmiş mil kaçıklık limitleri/*Updated shaft misalignment limits*
$\Delta_{1500\ rpm}$ = Tablodaki mil kaçıklık limitleri/*Shaft misalignment limits in table*
C_n = Düzeltme Faktörü/*Correction Factor*

Eğer eksenel, radyal ve açısal mil kaçıklığı bir arada mevcutsa, aşağıdaki kısıtın ayrıca kontrol edilmesi gerekir.
If there is combined axial, radial, and angular shaft misalignment, the following constraint must be checked additionally.

$$\frac{\Delta_{ax\text{-}act}}{\Delta_{ax}} + \frac{\Delta_{r\text{-}act}}{\Delta_{r}} + \frac{\Delta_{an\text{-}act}}{\Delta_{an}} < 1$$

Δ_{ax-act} = Gerçek eksenel kaçıklık miktarı [mm]/*Actual amount of axial shaft misalignment [mm]*
Δ_{r-act} = Gerçek radal kaçıklık miktarı [mm]/*Actual amount of radial shaft misalignment [mm]*
Δ_{an-act} = Gerçek açısal kaçıklık miktarı [°]/*Actual amount of angular shaft misalignment* [°]
Δ_{ax} = Güncellenmiş eksenel kaçıklık limiti [mm]/*Updated axial shaft misalignment limit [mm]*
Δ_{r} = Güncellenmiş radyal kaçıklık limiti [mm]/*Updated radial shaft misalignment limit [mm]*
Δ_{an} = Güncellenmiş açısal kaçıklık limiti [°]/*Updated angular shaft misalignment limit* [°]

PİLOT TEKER KAPLİNLER
PILOT BORE TYRE COUPLINGS





FP

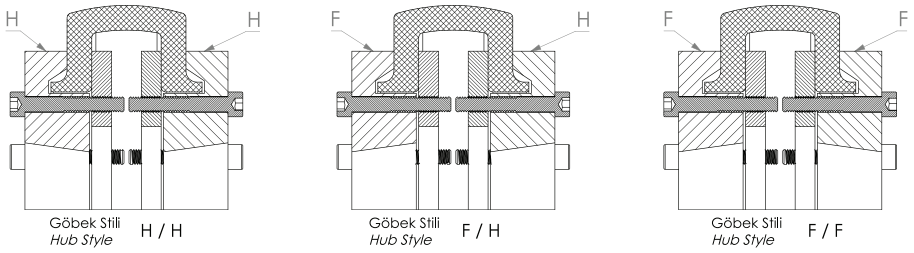
YÜKSEK DERECEDE ESNEK
HIGHLY FLEXIBLE

MALZEME *MATERIAL*	*KOD CODE*	d	d max.	D	L	Lh	A	B	Dm	S	BAĞLANTI ELEMANLARI *CLAMPING SCREWS DIN EN ISO 4762 - 12,9*			KÜTLE ATALET MOMENTİ *MASS MOMENT OF INERTIA*	AĞIRLIK *WEIGHT*
											ADET *QTY.*	M*	M_S [Nm]	J* [10^{-3}.kgm^2]	m* [kg]
C 45	F40-P	10	22	105	82	30	66	84	41	9	4	M5	10,20	1,99	2,28
	F50-P	10	30	133	98	36	78	108	50	11	4	M6	17,51	6,15	4,34
	F60-P	15	45	165	110	40	82	128	71	16	6	M6	17,51	12,71	6,55
	F70-P	15	50	187	135	50	89	152	80	15	8	M8	42,31	28,95	11,14
	F80-P	18	60	213	158	56	98	177	94	20	8	M10	83,58	50,05	14,37
	F100-P	25	75	254	182	65	120	218	118	28	8	M12	143,17	140,98	27,58
	F110-P	25	80	279	210	75	136	238	126	22	8	M14	226,03	242,43	38,06
	F120-P	30	95	314	223	81	138	264	152	20	8	M16	357,09	390,08	51,78
GGG 55***	F140-P	35	100	359	337	140	135	318	157	15	6	M20	698,56	843,13	85,55
	F180-P	50	140	450	503	210	183	390	216	34	10	M20	698,56	2.712,56	195,67
	F200-P	60	160	508	642	280	202	442	246	24	12	M20	698,56	5.654,17	325,41

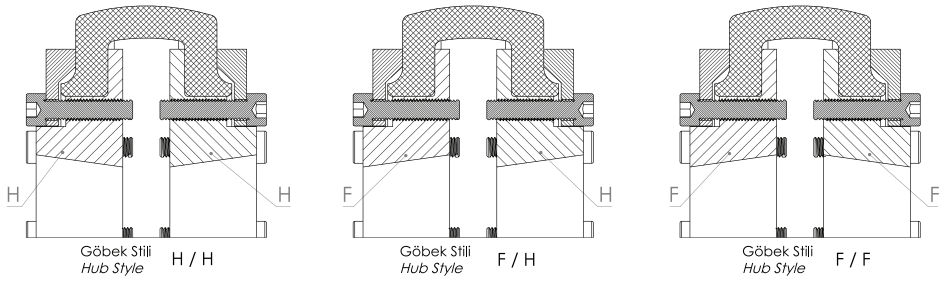
* Ağırlık ve kütle atalet momentleri pilot delik çapına göre komple kaplin takımı için verilmiştir.
** Weights and mass moments of inertia are given for the complete coupling assembly based on the pilot bore diameter.*
*** GGG 55 : SFERO DÖKÜM / *SPHEROIDAL CAST IRON*

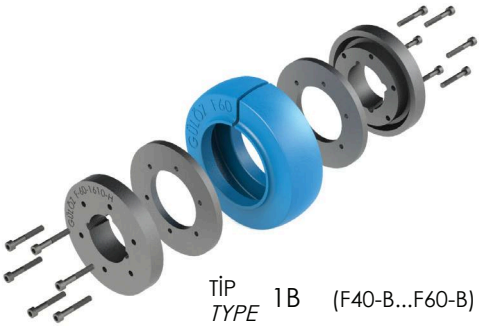
BURÇLU TEKER KAPLİNLER GÖBEK VARYASYONLARI
TYRE COUPLINGS FOR TAPER BUSHES HUB VARIATIONS

TİP / *TYPE* 1B - (F40-B...F60-B)

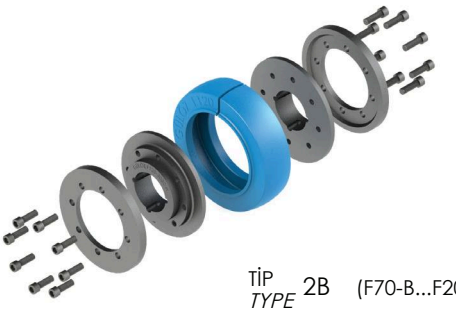


TİP / *TYPE* 2B - (F70-B...F200-B)

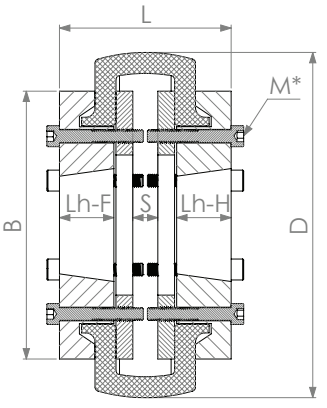




TİP *TYPE* 1B (F40-B...F60-B)

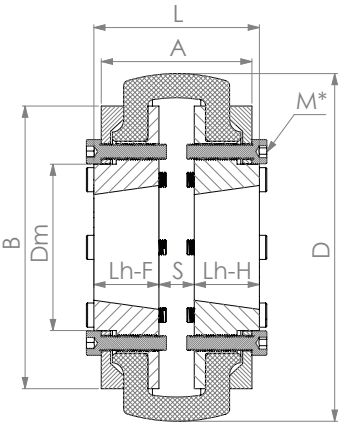


TİP *TYPE* 2B (F70-B...F200-B)



Göbek Stili *Hub Style* F / H

TİP *TYPE* 1B (F40-B...F60-B)



Göbek Stili *Hub Style* F / H

TİP *TYPE* 2B (F70-B...F200-B)

YÜKSEK DERECEDE ESNEK
HIGHLY FLEXIBLE

FB

MALZEME *MATERIAL*	*KOD CODE*	TİP *TYPE*	*GÖBEK STİLİ* HUB STYLE**	*BURÇ BUSH*	d min.	d max.	D	L	Lh-F Lh-H	A	B	Dm	S	BAĞLANTI ELEMANLARI *CLAMPING SCREWS DIN EN ISO 4762 - 12,9*			KÜTLE ATALET MOMENTİ *MASS MOMENT OF INERTIA*	AĞIRLIK *WEIGHT*
														ADET *QTY.*	M*	M_S [Nm]	J* [10^{-3}.kgm²]	m* [kg]
C 45	F40-B	1B	F H	1008	9	25	105	66	22	-	84	-	9	4	M5	10,20	1,83	1,83
	F50-B	1B	F H	1210	12	32	133	78	26	-	108	-	11	4	M6	17,51	5,20	3,40
	F60-B	1B	F H	1610	14	42	165	82	26	-	128	-	12	6	M6	17,51	10,02	5,14
	F70-B	2B	F H	2012	18	50	187	83	32	81	152	89,5	19	8	M8	42,31	16,38	6,81
	F80-B	2B	F H	2517 2012	20 18	65 50	213	H/H 100 F/H 105 F/F 110	40 45	100	177	98	20	8	M10	83,58	35,55 35,28 35,00	10,51 10,29 10,06
	F100-B	2B	F H	2517	20	65	254	118	45	114	218	118	28	8	M12	143,17	106,12	22,08
	F110-B	2B	F H	3020	25	75	279	126	52	118	238	132	22	8	M14	226,03	132,76	24,06
	F120-B	2B	F H	3020	25	75	314	130	52	126	264	155	26	8	M16	357,09	210,43	31,86
GGG 55***	F140-B	2B	F H	3535	35	90	359	191	90	135	318	172	11	6	M20	698,56	546,18	62,10
	F180-B	2B	F H	4040	40	100	450	224	102	183	390	212	20	10	M20	698,56	1.686,75	122,42
	F200-B	2B	F H	4545	45	110	508	244	115	202	442	252	14	12	M20	698,56	3.231,38	188,70

* Ağırlık ve kütle atalet momentleri pilot delik çapına göre komple kaplin takımı için verilmiştir.
** Weights and mass moments of inertia are given for the complete coupling assembly based on the pilot bore diameter.*
*** GGG 55 : SFERO DÖKÜM / *SPHEROIDAL CAST IRON*

CD BİLEŞİK DİSK KAPLİNLER

CD COMPOSITE DISC COUPLINGS



GÜLÖZ

Genel Özellikler
Burulma karşısında rijit
Yüksek açısal kaçıklık telafisi
Kaplini sökmeden hızlı elastomer değişimi
Yüksek tork kapasitesi
Yüksek hız dayanımı
Yüksek ortam sıcaklığında çalışabilir
Boşluksuz
Elastomersiz
Yüksek pozisyonlama hassasiyeti
Bakım gerektirmez

General Specifications
Torsionally rigid
High angular misalignment compensation
Quick elastomer replacement without dismantling the coupling
High torque capacity
High speed capacity
Capable of operating at high ambient temperatures
Backlash-free
Elastomer-free
High positioning accuracy
Maintenance-free

Teknik Özellikler
Technical Specifications

MALZEME *MATERIAL*	KOD CODE	NOMİNAL TORK *RATED TORQUE*	MAKS. TORK *MAX. TORQUE*	MAKS. HIZ *MAX. SPEED*	MİL KAÇIKLIK LİMİTLERİ (1500 rpm)* *SHAFT MISALIGNMENT LIMITS (at 1500 rpm)**		
		T_{kn} [Nm]	$T_{max.}$ [Nm]	$n_{max.}$ [rpm]	∓Δax [mm]	Δr [mm]	Δan [°]
C 45	CD-47	23	46	11.000	0,30	0,08	2,5
	CD-57	38	76	10.000	0,30	0,13	2,5
	CD-66	81	162	9.000	0,40	0,18	2,5
	CD-76	127	254	7.500	0,40	0,27	2,5
	CD-95	292	584	6.250	0,70	0,24	2,5
	CD-114	417	834	5.250	0,90	0,35	2,5
	CD-133	545	1.090	4.500	1,10	0,43	2,5
	CD-152	1.041	2.082	4.000	1,40	0,40	2,5
	CD-172	1.281	2.562	3.750	1,60	0,50	2,5
	CD-197	2.343	4.686	3.500	2,00	0,55	2,5
	CD-229	3.184	6.368	3.250	2,00	0,70	2,5
	CD-267	8.310	16.620	3.000	2,10	0,80	2,5
GGG 55**	CD-305	21.774	43.548	2.500	2,20	0,90	2,0
	CD-395	43.269	86.538	1.900	2,40	1,25	2,0
	CD-440	67.054	134.108	1.700	2,80	1,50	2,0
	CD-490	85.632	171.264	1.500	3,00	1,75	2,0
	CD-560	121.930	243.860	1.250	3,20	2,00	2,0

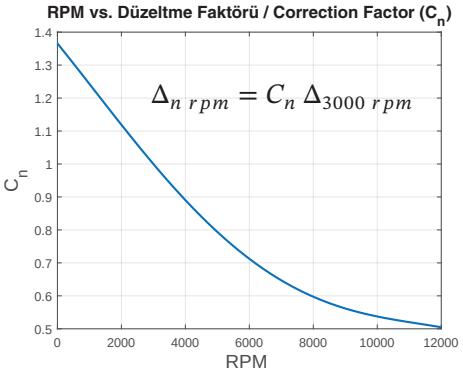
* Mil kaçıklık limitleri 3000 rpm için verilmiştir. Farklı hızlar için grafikten bulunan "Cn" sabiti ile çarpılarak limitlerin güncellenmesi gerekmektedir.
** Shaft misalignment limits are given for 3000 rpm. For different speeds, the limits must be updated by multiplying them by the "Cn" constant, found in the graph.*

** GGG 55 : SFERO DÖKÜM / *SPHEROIDAL CAST IRON*

CD Disk Özellikleri /
CD Disc Specifications

Malzeme *Material*	Ortam Sıcaklığı *Ambient Temperature*
CK 75 Isıl İşlem Görmüş Karbon Çelik Sac *CK 75 Heat Treated Carbon Steel Strip*	-50 °C ... +120 °C

CD BİLEŞİK DİSK KAPLİNLER
CD COMPOSITE DISC COUPLINGS



$\Delta_{n\ rpm}$ = Güncellenmiş mil kaçıklık limitleri/*Updated shaft misalignment limits*

$\Delta_{3000\ rpm}$ = Tablodaki mil kaçıklık limitleri/*Shaft misalignment limits in table*

C_n = Düzeltme Faktörü/*Correction Factor*

Eğer eksenel, radyal ve açısal mil kaçıklığı bir arada mevcutsa, aşağıdaki kısıtın ayrıca kontrol edilmesi gerekir.

If there is combined axial, radial, and angular shaft misalignment, the following constraint must be checked additionally.

$$\frac{\Delta_{ax\text{-}act}}{\Delta_{ax}} + \frac{\Delta_{r\text{-}act}}{\Delta_{r}} + \frac{\Delta_{an\text{-}act}}{\Delta_{an}} < 1$$

Δ_{ax-act} = Gerçek eksenel kaçıklık miktarı [mm]/*Actual amount of axial shaft misalignment [mm]*

Δ_{r-act} = Gerçek radal kaçıklık miktarı [mm]/*Actual amount of radial shaft misalignment [mm]*

Δ_{an-act} = Gerçek açısal kaçıklık miktarı [°]/*Actual amount of angular shaft misalignment* [°]

Δ_{ax} = Güncellenmiş eksenel kaçıklık limiti [mm]/*Updated axial shaft misalignment limit [mm]*

Δ_{r} = Güncellenmiş radyal kaçıklık limiti [mm]/*Updated radial shaft misalignment limit [mm]*

Δ_{an} = Güncellenmiş açısal kaçıklık limiti [°]/*Updated angular shaft misalignment limit* [°]

GÖBEK VARYASYONLARI
HUB VARIATIONS



Göbek Stili *Hub Style*	A/A



Göbek Stili *Hub Style*	A/B



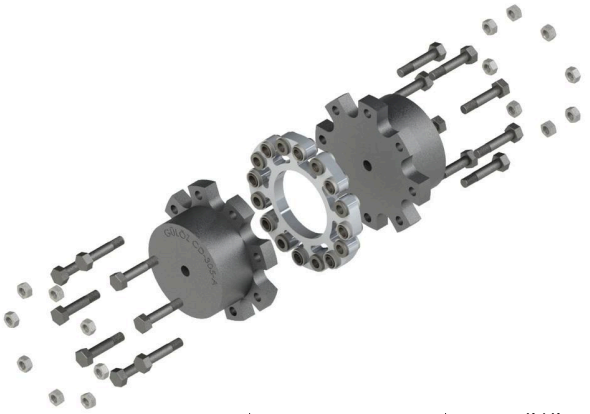
Göbek Stili *Hub Style*	B/B

* B stil göbek CD-57 ile CD-267 modelleri arasında mevcuttur.

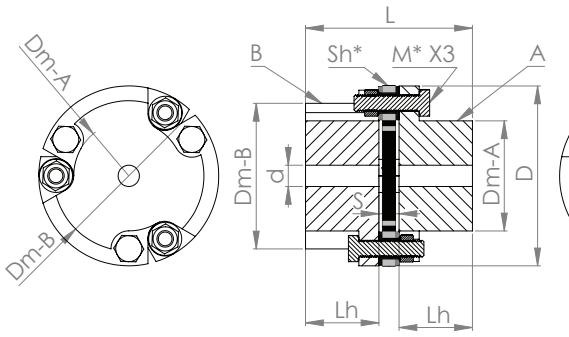
** B style hub is available between the sizes of CD-56 and CD-267.*



Hub Style	A/B

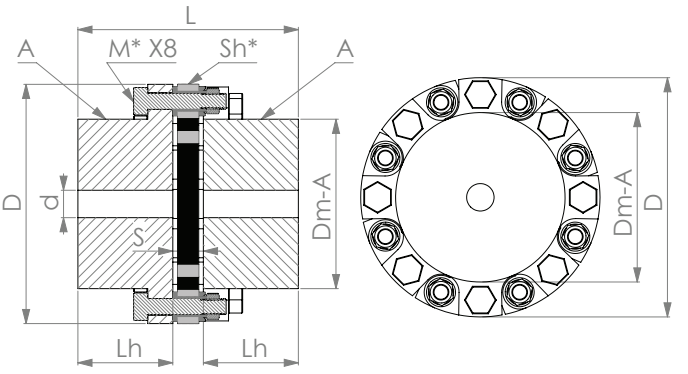


Hub Style	A/A



Göbek Stili *Hub Style* A / B

TİP *TYPE* 1 ÜÇLÜ / *TRIO* (CD-47 ... CD-267)



Göbek Stili *Hub Style* A / A

TİP *TYPE* 2 SEKİZLİ / *OCTAL* (CD-305 ... CD-560)

CD

BURULMA KARŞISINDA RİJİT, BOŞUKSUZ VE ELASTOMERSİZ
TORSIONALLY RIGID, BACKLASH-FREE AND ELASTOMER-FREE

MALZEME *MATERIAL*	KOD *CODE*	TİP *TYPE*	GÖBEK STİLİ* *HUB STYLE**	d	d max.	D	L	Lh-H	Dm-A Dm-B	S	Sh* CD SAC DİSKLER *CD SHEET METAL DISCS* ADET *QTY.*	Sh* CD SAC DİSKLER *CD SHEET METAL DISCS* KALINLIK *THICKNESS*	BAĞLANTI ELEMANLARI *CLAMPING SCREWS DIN EN ISO 4762 - 12,9* ADET *QTY.*	BAĞLANTI ELEMANLARI *CLAMPING SCREWS DIN EN ISO 4762 - 12,9* M*	BAĞLANTI ELEMANLARI *CLAMPING SCREWS DIN EN ISO 4762 - 12,9* M_s [Nm]	KÜTLE ATALET MOMENTİ *MASS MOMENT OF INERTIA* J* [10^{-3}.kgm²]		AĞIRLIK *WEIGHT* m* [kg]
C 45	CD-47	1	A	6	16	47	37	16	29	5	6	0,5	3	M4	5,16	A / A	0,06	0,28
	CD-57	1	A B	6	22 32	57	55	24	38 48	7	8	0,5	3	M4	5,16	A / A A / B B / B	0,22 0,25 0,28	0,61 0,66 0,71
	CD-66	1	A B	6	24 35	66	61,5	27	42 55	7,5	9	0,5	3	M5	10,20	A / A A / B B / B	0,40 0,46 0,53	0,88 0,96 1,04
	CD-76	1	A B	8	28 40	76	74	32	48 64	10	12	0,5	3	M6	17,51	A / A A / B B / B	0,89 1,03 1,19	1,40 1,54 1,67
	CD-95	1	A B	10	32 48	95	83	36	56 79	11	14	0,5	3	M8	42,31	A / A A / B B / B	2,03 2,37 2,75	2,37 2,61 2,85
	CD-114	1	A B	12	45 60	114	99	43	71 95	13	8	1	3	M8	42,31	A / A A / B B / B	5,17 5,96 6,83	4,11 4,50 4,88
	CD-133	1	A B	16	55 70	133	114	50	83 111	14	9	1	3	M12	143,17	A / A A / B B / B	10,98 12,73 14,65	6,55 7,19 7,84
	CD-152	1	A B	18	60 75	152	141	62	93 127	17	11	1	3	M14	226,03	A / A A / B B / B	23,81 28,04 32,80	10,18 11,30 12,42
	CD-172	1	A B	20	65 85	172	160	70	102 143	20	12	1	3	M16	357,09	A / A A / B B / B	43,12 50,88 59,62	14,43 16,04 17,65
	CD-197	1	A B	25	75 95	197	183	80	116 164	23	15	1	3	M18	489,82	A / A A / B B / B	85,35 100,6 117,75	21,76 24,15 26,54
	CD-229	1	A B	25	90 105	229	220	95	137 191	30	20	1	3	M20	698,56	A / A A / B B / B	196,27 230,26 268,49	35,17 38,93 42,68
	CD-267	1	A B	30	100 120	267	253	108	155 222	37	25	1	3	M24	1204,83	A / A A / B B / B	395,14 468,79 552,25	53,95 60,15 66,36
GGG 55***	CD-305	2	A	35	140	305	281	121	216	39	18	1,5	8	M20	698,56	A / A	943,29	92,20
	CD-395	2	A	50	180	395	394	174	272	46	17	2	8	M27	1722,16	A / A	3.725,00	202,50
	CD-440	2	A	60	200	440	510	230	300	50	19	2	8	M30	2411,38	A / A	8.641,58	316,00
	CD-490	2	A	60	230	490	562	255	340	52	16	2,5	8	M33	3275,19	A / A	15.013,44	445,50
	CD-560	2	A	70	260	560	644	295	386	54	14	3	8	M36	4213,37	A / A	28.998,37	662,00

* Ağırlık ve kütle atalet momentleri pilot delik çapına göre komple kaplin takımı için verilmiştir.
** Weights and mass moments of inertia are given for the complete coupling assembly based on the pilot bore diameter.*
*** GGG 55 : SFERO DÖKÜM / *SPHEROIDAL CAST IRON*

ZL ESNEK
DİŞLİ PİMLİ KAPLİNLER

ZL FLEXIBLE
GEAR PIN COUPLINGS



GÜLÖZ

Genel Özellikler
Yüksek tork kapasitesi
Orta seviye hız limiti
Yüksek eksenel mil kaçıklığını karşılar
Düşük radyal ve açısal mil kaçıklık limitleri
Boşluksuz
Yüksek pozisyonlama hassasiyeti
Ağır sanayi ve yüksek dayanım gerektiren uygulamal için ideal
Az bakım gerektirir

General Specifications
High torque capacity
Medium level speed limit
Can accommodate high axial shaft misalignment
Low level radial and angular shaft misalignment limits
Backlash-free
High positioning accuracy
Ideal for Heavy-Duty and high strength applications
Low maintenance required

Teknik Özellikler
Technical Specifications

MALZEME *MATERIAL*	KOD CODE	NOMİNAL TORK *RATED TORQUE*	MAKS. TORK *MAX. TORQUE*	MAKS. HIZ *MAX. SPEED*	EKSENEL BOŞLUK *AXIAL GAP*	MİL KAÇIKLIK LİMİTLERİ (1500 rpm)* *SHAFT MISALIGNMENT LIMITS (at 1500 rpm)**	
		80 ShoreD	80 ShoreD	$n_{max.}$ [rpm]	$\mp\Delta_s$ [mm]	Radyal *Radial*	Açısal *Angular*
		T_{kn} [Nm]	$T_{max.}$ [Nm]			Δr [mm]	Δan [°]
C 45	ZL-1	367	734	4000	2	0,18	0,5
	ZL-2	547	1.094	4000	2	0,19	0,5
	ZL-3	1.353	2.706	4000	2	0,23	0,5
	ZL-4	2.748	5.496	4000	4	0,25	0,5
	ZL-5	4.492	8.984	4000	4	0,27	0,5
	ZL-6	7.125	14.250	3300	4	0,29	1
	ZL-7	11.314	22.628	2900	4	0,32	1
	ZL-8	15.242	30.484	2500	4	0,34	1
	ZL-9	20.947	41.894	2300	4	0,36	1
GGG 55**	ZL-10	26.006	52.012	2100	4	0,38	1
	ZL-11	39.583	79.166	2000	4	0,40	1,25
	ZL-12	58.791	117.582	1700	6	0,42	1,25
	ZL-13	91.959	183.918	1500	6	0,44	1,25
	ZL-14	128.842	257.684	1400	6	0,46	1,25
	ZL-15	159.038	318.076	1300	6	0,48	1,25
	ZL-16	223.621	447.242	1000	8	0,50	1,5
	ZL-17	309.114	618.228	950	8	0,52	1,5
	ZL-18	425.641	851.282	850	12	0,54	1,5
	ZL-19	597.272	1.194.544	750	12	0,55	1,5

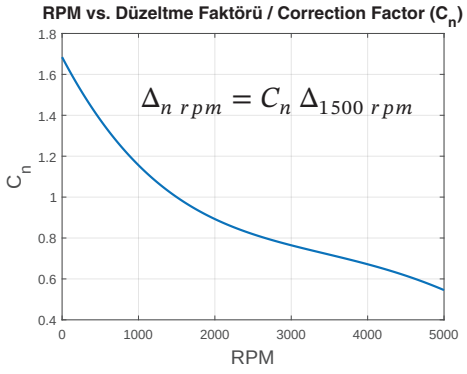
* Mil kaçıklık limitleri 1500 rpm için verilmiştir. Farklı hızlar için grafikten bulunan "Cn" sabiti ile çarpılarak limitlerin güncellenmesi gerekmektedir.
** Shaft misalignment limits are given for 1500 rpm. For different speeds, the limits must be updated by multiplying them by the "Cn" constant, found in the graph.*

** GGG 55 : SFERO DÖKÜM / *SPHEROIDAL CAST IRON*

Elastomer Özellikleri
Elastomer Specifications

Malzeme *Material*	Sertlik *Hardness*	Ortam Sıcaklığı *Ambient Temperature*
PA 66	80 ShoreD	-30 °C ... +100 °C

ZL ESNEK DİŞLİ PİMLİ KAPLİNLER
ZL FLEXIBLE GEAR PIN COUPLINGS



$\Delta_{n\ rpm}$ = Güncellenmiş mil kaçıklık limitleri/*Updated shaft misalignment limits*

$\Delta_{1500\ rpm}$ = Tablodaki mil kaçıklık limitleri/*Shaft misalignment limits in table*

C_n = Düzeltme Faktörü/*Correction Factor*

Eğer radyal ve açısal mil kaçıklığı bir arada mevcutsa, aşağıdaki kısıtın ayrıca kontrol edilmesi gerekir.

If there is combined radial, and angular shaft misalignment, the following constraint must be checked additionally.

$$\frac{\Delta_{r\text{-}act}}{\Delta_r} + \frac{\Delta_{an\text{-}act}}{\Delta_{an}} < 1$$

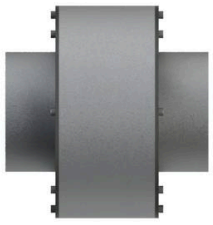
Δ_{r-act} = Gerçek radal kaçıklık miktarı [mm]/*Actual amount of radial shaft misalignment [mm]*

Δ_{an-act} = Gerçek açısal kaçıklık miktarı [°]/*Actual amount of angular shaft misalignment* [°]

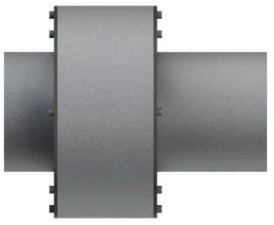
Δ_r = Güncellenmiş radyal kaçıklık limiti [mm]/*Updated radial shaft misalignment limit [mm]*

Δ_{an} = Güncellenmiş açısal kaçıklık limiti [°]/*Updated angular shaft misalignment limit* [°]

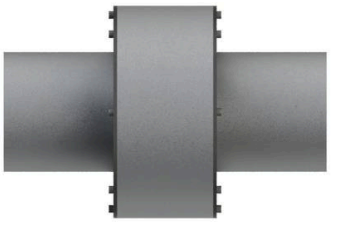
GÖBEK VARYASYONLARI
HUB VARIATIONS



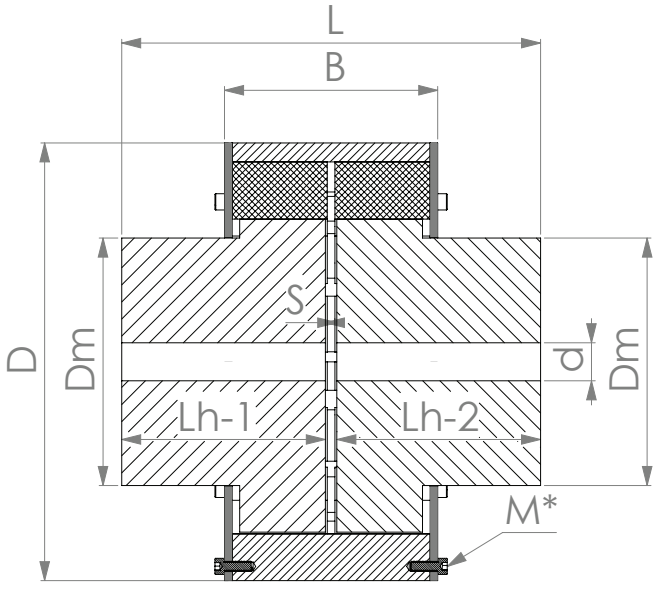
Göbek Stili *Hub Style*	J1 / J1

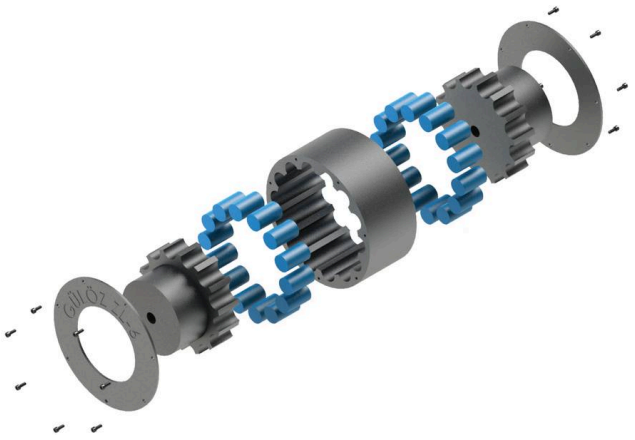


Göbek Stili *Hub Style*	J1 / Y



Göbek Stili *Hub Style*	Y / Y





ZL

DÜŞÜK ESNEKLİKLİ
LOW FLEXIBILITY

MALZEME *MATERIAL*	KOD *CODE*	GÖBEK STİLİ* *HUB STYLE**	d	d max.	D	L	B	Lh-1	Lh-2	Dm	S	BAĞLANTI ELEMANLARI *CLAMPING SCREWS DIN EN ISO 4762 - 12,9*			KÜTLE ATALET MOMENTİ *MASS MOMENT OF INERTIA*	AĞIRLIK *WEIGHT*
												ADET *QTY.*	M*	M_s [Nm]	J* [10^{-3}.kgm^2]	m* [kg]
C 45	ZL-1	J1 / J1 J1 / Y Y / Y	10	22	79	57 82 107	42	27 27 52	27 52 52	40	3	4	M4	5,16	0,71 0,95 1,00	1,24 1,47 1,70
	ZL-2	J1 / J1 J1 / Y Y / Y	12	30	90	63 115 167	50	30 30 82	30 82 82	50	3	5	M4	5,16	1,45 2,05 2,30	1,93 2,68 3,43
	ZL-3	J1 / J1 J1 / Y Y / Y	14	40	118	91 159 227	65	44 44 112	44 112 112	65	3	5	M5	10,2	5,81 7,68 8,61	4,44 6,12 7,80
	ZL-4	J1 / J1 J1 / Y Y / Y	16	55	158	174 232 290	90	84 84 142	84 142 142	90	6	5	M5	10,2	34,48 37,39 40,30	13,96 16,75 19,53
	ZL-5	J1 / J1 J1 / Y Y / Y	16	80	192	174 262 350	90	84 84 172	84 172 172	120	6	6	M5	10,2	80,38 94,35 108,32	22,50 30,13 37,75
	ZL-6	J1 / J1 J1 / Y Y / Y	20	85	230	220 285 350	112	107 107 172	107 172 172	130	6	7	M5	10,2	201,86 216,07 230,28	38,78 45,35 51,92
	ZL-7	J1 / J1 J1 / Y Y / Y	25	100	260	220 325 430	112	107 107 212	107 212 212	160	6	7	M5	10,2	322,82 384,87 437,54	51,45 67,52 83,58
	ZL-8	J1 / J1 J1 / Y Y / Y	25	125	300	270 390 510	128	132 132 252	132 252 252	190	6	7	M5	10,2	736,69 856,51 976,13	86,22 112,29 138,37
	ZL-9	J1 / J1 J1 / Y Y / Y	30	150	335	270 390 510	150	132 132 252	132 252 252	220	6	7	M6	17,51	1.206,42 1.516,37 1.731,56	116,32 151,24 186,16
GGG 55**	ZL-10	J1 / J1 J1 / Y Y / Y	35	160	355	340 475 610	152	167 167 302	167 302 302	245	6	7	M6	17,51	1.883,31 2.255,62 2.627,94	159,96 208,59 257,22
	ZL-11	J1 / J1 J1 / Y Y / Y	40	170	380	340 475 610	172	167 167 302	167 302 302	260	6	8	M8	42,31	2.452,55 2.924,70 3.396,85	181,53 236,11 290,69
	ZL-12	J1 / J1 J1 / Y Y / Y	50	190	445	413 563 713	182	202 202 352	202 352 352	290	9	8	M8	42,31	5.084,98 5.896,67 6.708,37	280,29 355,27 430,25
	ZL-13	J1 / J1 J1 / Y Y / Y	60	230	515	413 621 829	218	202 202 410	202 410 410	345	9	8	M8	42,31	9.839,84 12.609,66 14.864,09	404,16 551,24 698,32
	ZL-14	J1 / J1 J1 / Y Y / Y	70	260	560	493 661 829	218	242 242 410	242 410 410	390	9	9	M10	83,58	15.909,20 18.882,31 21.855,43	556,29 707,79 859,28
	ZL-15	J1 / J1 J1 / Y Y / Y	80	280	590	573 761 949	240	282 282 470	282 470 470	420	9	9	M10	83,58	22.315,17 26.788,98 31.262,79	718,10 913,89 1.109,68
	ZL-16	J1 / J1 J1 / Y Y / Y	100	320	695	576 844 1112	265	282 282 550	282 550 550	490	12	10	M10	83,58	46.367,48 58.177,74 69.988,01	1.024,41 1.402,18 1.779,96
	ZL-17	J1 / J1 J1 / Y Y / Y	120	360	770	672 892 1112	285	330 330 550	330 550 550	550	12	10	M10	83,58	79.898,10 95.279,04 110.659,97	1.454,83 1.843,12 2.231,40
	ZL-18	J1 / J1 J1 / Y Y / Y	150	400	860	678 998 1318	300	330 330 650	330 650 650	605	18	10	M12	143,17	120.320,55 157.524,85 190.230,43	1.786,07 2.459,49 3.132,93
	ZL-19	J1 / J1 J1 / Y Y / Y	160	450	970	778 1048 1318	322	380 380 650	380 650 650	695	18	10	M12	143,17	231.456,79 281.109,92 329.213,33	2.653,28 3.409,88 4.166,48

* Ağırlık ve kütle atalet momentleri pilot delik çapına göre komple kaplin takımı için verilmiştir.
** Weights and mass moments of inertia are given for the complete coupling assembly based on the pilot bore diameter.*
*** GGG 55 : SFERO DÖKÜM / *SPHEROIDAL CAST IRON*

DİŞLİ KAPLİNLER

GEAR COUPLINGS



GÜLÖZ

Genel Özellikler
Yüksek tork kapasitesi
Orta seviye hız limiti
Yüksek eksenel mil kaçıklığını karşılar
Düşük radyal ve açısal mil kaçıklık limitleri
Boşluksuz
Yüksek pozisyonlama hassasiyeti
Elastomersiz
Yüksek ortam sıcaklığında çalışabilir
Ağır sanayi ve yüksek dayanım gerektiren uygulamalar için ideal
Az bakım gerektirir

General Specifications
High torque capacity
Medium level speed limit
Can accommodate high axial shaft misalignment
Low level radial and angular shaft misalignment limits
Backlash-free
High positioning accuracy
Elastomer-free
Capable of operating at high ambient temperatures
Ideal for Heavy-Duty and high strength applications
Low maintenance required

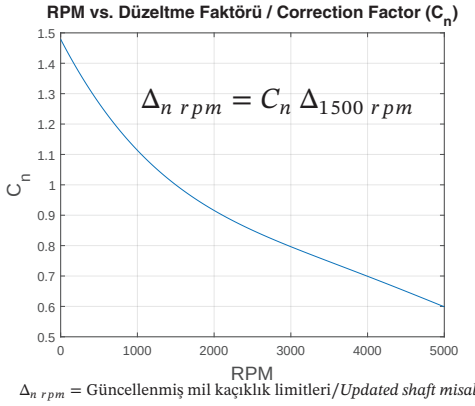
Teknik Özellikler
Technical Specifications

MALZEME *MATERIAL*	KOD CODE	NOMİNAL TORK *RATED TORQUE*	MAKS. TORK *MAX. TORQUE*	MAKS. HIZ *MAX. SPEED*	EKSENEL BOŞLUK *AXIAL GAP*	MİL KAÇIKLIK LİMİTLERİ (1500 rpm)* *SHAFT MISALIGNMENT LIMITS (at 1500 rpm)**	
						Radyal *Radial*	Açısal *Angular*
		T_{kn} [Nm]	$T_{max.}$ [Nm]	$n_{max.}$ [rpm]	$\mp\Delta_s$ [mm]	Δr [mm]	Δan [°]
4140	DKF-42	1.484	2.968	6500	5	0,036	0,75
	DKF-55	2.838	5.676	6000	6	0,048	0,75
	DKF-70	4.738	9.476	5500	7	0,060	0,75
	DKF-90	9.798	19.596	5000	9	0,072	0,75
	DKF-100	13.346	26.692	4750	11	0,081	0,75
	DKF-120	18.165	36.330	4000	14	0,096	0,75
	DKF-140	23.980	47.960	3750	18	0,112	0,75
	DKF-160	29.457	58.914	3500	18	0,125	0,75
	DKF-180	36.860	73.720	3250	21	0,144	0,75
	DKF-200	49.136	98.272	3000	21	0,156	0,75
	DKF-220	59.787	119.574	2800	24	0,168	0,75
	DKF-240	105.917	211.834	2600	26	0,192	0,75
	DKF-280	132.056	264.112	2500	31	0,210	0,75
	DKF-320	196.247	392.494	1600	32	0,236	0,75

* Mil kaçıklık limitleri 1500 rpm için verilmiştir. Farklı hızlar için grafikten bulunan "Cn" sabiti ile çarpılarak limitlerin güncellenmesi gerekmektedir.
** Shaft misalignment limits are given for 1500 rpm. For different speeds, the limits must be updated by multiplying them by the "Cn" constant, found in the graph.*

Dişli ve Yağlama Özellikleri
Tooth and Grease Specifications

Malzeme *Material*	Sertlik *Hardness*	Ortam Sıcaklığı *Ambient Temperature*		Gres Doluluğu *Grease Fill*	Yağ Değişim Sıklığı *Re-lubrication Interval*
	Diş yüzeyleri indüksiyonlu *The tooth surfaces are induction-hardened*	Standart Gres *Standard Grease*	Sentetik PAO-tabanlı Gres *Synthetic PAO-based Grease*	%	
4140	50-54 HRC	-30 °C ... +120 °C	-40 °C ... +150 °C	%30 - %50	6-12 ay / *months*



$\Delta_{n\ rpm}$ = Güncellenmiş mil kaçıklık limitleri/*Updated shaft misalignment limits*

$\Delta_{1500\ rpm}$ = Tablodaki mil kaçıklık limitleri/*Shaft misalignment limits in table*

C_n = Düzeltme Faktörü/*Correction Factor*

Eğer radyal ve açısal mil kaçıklığı bir arada mevcutsa, aşağıdaki kısıtın ayrıca kontrol edilmesi gerekir.

If there is combined radial, and angular shaft misalignment, the following constraint must be checked additionally.

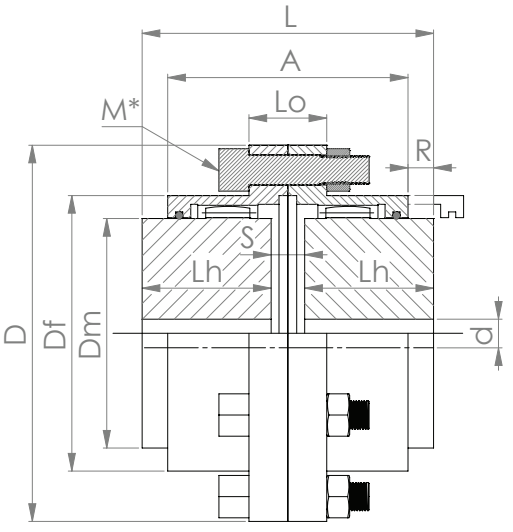
$$\frac{\Delta_{r\text{-}act}}{\Delta_r} + \frac{\Delta_{an\text{-}act}}{\Delta_{an}} < 1$$

Δ_{r-act} = Gerçek radal kaçıklık miktarı [mm]/*Actual amount of radial shaft misalignment [mm]*

Δ_{an-act} = Gerçek açısal kaçıklık miktarı [°]/*Actual amount of angular shaft misalignment* [°]

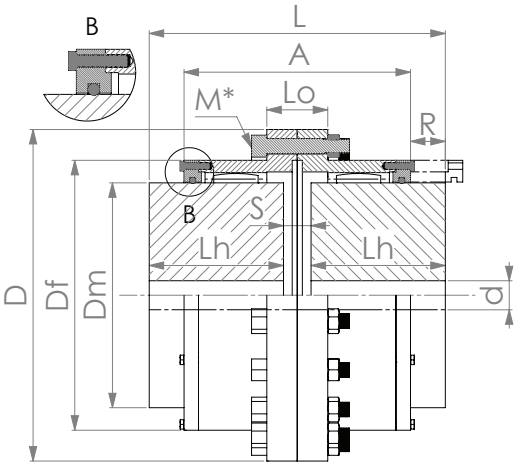
Δ_r = Güncellenmiş radyal kaçıklık limiti [mm]/*Updated radial shaft misalignment limit [mm]*

Δ_{an} = Güncellenmiş açısal kaçıklık limiti [°]/*Updated angular shaft misalignment limit* [°]





TİP *TYPE* 1





TİP *TYPE* 2

DKF

RİJİT VE ELASTOMERSİZ
RIGID AND ELASTOMER-FREE

MALZEME *MATERIAL*	*KOD CODE*	*TİP TYPE*	d	d max.	D	L		Lh	Lo	Dm	Df	S		A	R		KÜTLE ATALET MOMENTİ *MASS MOMENT OF INERTIA*	AĞIRLIK *WEIGHT*
						min.	max.					min.	max.		min.	max.	J* [10^{-3}.kgm^2]	m* [kg]
4140	DKF-42	1	8	40	117	92	102	44	24	64	82	4	14	84	11	16	5,57	4,38
	DKF-55	1	10	55	152	102	114	49	30	86	104	4	16	98	11	17	18,78	8,51
	DKF-70	1	16	65	178	126	140	59	40	104	128	8	22	112	16	23	45,57	14,53
	DKF-90	1	16	85	213	156	174	74	44	130	156	8	26	134	23	32	116,24	26,45
	DKF-100	1	18	100	240	184	206	88	48	152	180	8	30	154	27	38	221,94	40,50
	DKF-120	1	20	120	280	214	242	103	54	178	209	8	36	184	30	44	459,80	63,04
	DKF-140	1	25	140	318	244	280	116	60	208	248	12	48	204	35	53	904,02	94,67
	DKF-160	1	25	160	347	272	308	130	66	230	270	12	48	226	38	56	1.400,81	124,91
	DKF-180	1	30	180	390	304	346	146	70	258	305	12	54	248	46	67	2.389,57	172,01
	DKF-200	1	40	190	426	356	398	171	80	283	334	14	56	278	57	78	4.110,75	240,31
	DKF-220	2	40	210	457	384	432	185	84	310	372	14	62	312	60	84	6.468,90	317,93
	DKF-240	2	50	230	527	444	496	214	90	350	430	16	68	352	70	96	12.862,92	478,86
	DKF-280	2	50	260	591	560	620	272	96	395	485	16	76	396	106	136	28.011,47	749,06
	DKF-320	2	60	290	640	590	654	287	100	432	522	16	80	422	114	146	39.135,66	915,22

KOD *CODE*	TİP *TYPE*	BAĞLANTI ELEMANLARI *CLAMPING SCREWS DIN EN ISO 4762 - 12,9*		
		ADET *QTY.*	M*	M_S [Nm]
DKF-42	1	10	M8	42,31
DKF-55	1	10	M10	83,58
DKF-70	1	10	M12	143,17
DKF-90	1	10	M16	357,09
DKF-100	1	12	M16	357,09
DKF-120	1	14	M16	357,09
DKF-140	1	16	M16	357,09
DKF-160	1	18	M16	357,09
DKF-180	1	20	M16	357,09
DKF-200	1	16	M20	698,56
DKF-220	2	18	M20	698,56
DKF-240	2	18	M24	1204,83
DKF-280	2	20	M24	1204,83
DKF-320	2	18	M30	2411,38

* Ağırlık ve kütle atalet momentleri pilot delik çapına göre komple kaplin takımı için verilmiştir.
** Weights and mass moments of inertia are given for the complete coupling assembly based on the pilot bore diameter.*

SCHMIDT TİPİ KAÇIKLIK KAPLİNLERİ

SCHMIDT OFFSET COUPLINGS



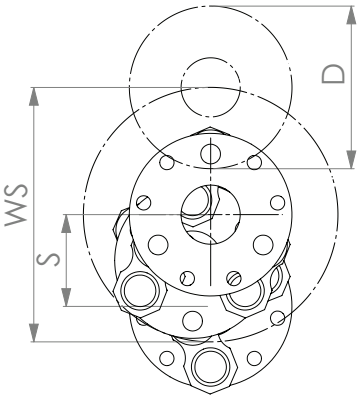
GÜLÖZ

Genel Özellikler

Radyal yönde serbestçe hareket edebilme özelliği
Yüksek tork kapasitesi (Rulman ömrüne bağlı)
Düşük eksenel ve açısal mil kaçıklık limitleri
Boşluksuz
Elastomersiz
Yüksek ortam sıcaklığında çalışabilir
Düşük seviye titreşim ve darbe emme özelliği
Düşük seviye hız limiti

General Specifications

Ability to move freely in the radial direction
High torque capacity (depends on bearing-lifetime)
Low level axial and angular shaft misalignment limits
Backlash-free
Elastomer-free
Capable of operating at high ambient temperatures
Low level vibration and shock damping feature
Low level speed limit



WS = 2 x Smax.

Eksenel ve açısal esneklikten yoksun oldukları için , titreşim ve darbe sönümleme kapasiteleri çok düşüktür; bu nedenle çıkış tarafına, esnek yapılı bir kaplin (özellikle Teker kaplin) takılması kesinlikle önerilir.

Due to the lack of axial and angular flexibility, their vibration and shock damping capability is very low; therefore, it is strictly recommended to mount a flexible coupling on the output side (preferably a Tyre coupling).

Teknik Özellikler
Technical Specifications

MALZEME *MATERIAL*	KOD CODE	MAKS. HIZ *MAX. SPEED*	RADYAL KAÇIKLIK *RADIAL OFFSET*	ÇALIŞMA ALANI ÇAPI *WORKSPACE DİAMETER*	MİL KAÇIKLIK LİMİTLERİ (SABİT)* *SHAFT MISALIGNMENT LIMITS (CONSTANT)**		RULMAN MODELİ *BEARING MODEL*	
		$n_{max.}$ [rpm]	$\mp S_{max.}$ [mm]	WS	Eksenel *Axial*	Açısal *Angular*	Model *Model*	Dinamik Yük Sayısı *Basic dynamic load rating, radial*
					Δ_{ax} [mm]	Δ_{an} [o]	Br*	Cr [N]
C 45	STK-70	2500	40	80	0,02	0,24	HK 1010	4.400
	STK-88	2000	50	100	0,02	0,22	HK 1210	4.950
	STK-100	2000	56	112	0,03	0,18	HK 1612	7.600
	STK-118	2000	76	152	0,03	0,16	HK 1616	10.900
	STK-138	1500	90	180	0,04	0,13	HK 2020	15.700
	STK-158	1500	100	200	0,04	0,11	HK 2526	25.500
	STK-177	1500	110	220	0,05	0,13	HK 3026	28.000
	STK-197	1000	130	260	0,05	0,12	NK 3030-TV-XL	42.000
	STK-246	1000	150	300	0,06	0,10	NK 4030-XL	44.000

* Schmidt Kaçıklık kaplinleri eksenel ve açısal esneklikten yoksun rijit yapılara sahiptir. Bu nedenle mil kaçıklık limitleri yalnızca geometrik limitlerdir ve hızdan bağımsız sabit değerlerdir.
** Schmidt Offset couplings have rigid structures that lack axial and angular flexibility. Therefore, shaft misalignment limits are merely geometrical limits and are constant values independent of speed.*

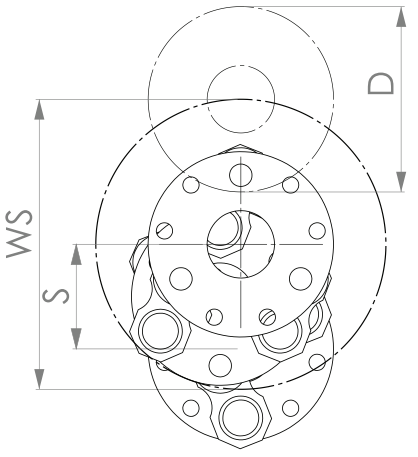
Bağlantı Elemanı Özellikleri
Connection Element Specifications

Rulman Tipi *Bearing Type*	Pim Malzeme *Pin Material*	Pim Sertlik *Pin Hardness*	Ortam Sıcaklığı *Ambient Temperature*
İğneli Rulman *Needle Roller Bearing*	4140 ıslahlı *4140 tempered*	İndüksiyonlu ve taşlanmış *Induction-hardened and grinded* 50-54 HRC	-30 °C ... +120 °C

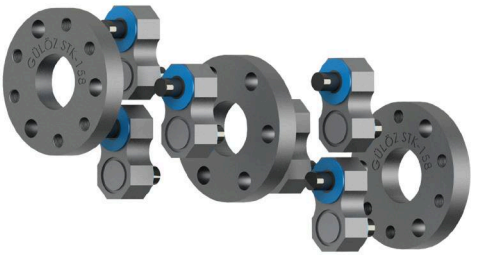
Maksimum Tork Değerleri
Maximum Torque Ratings

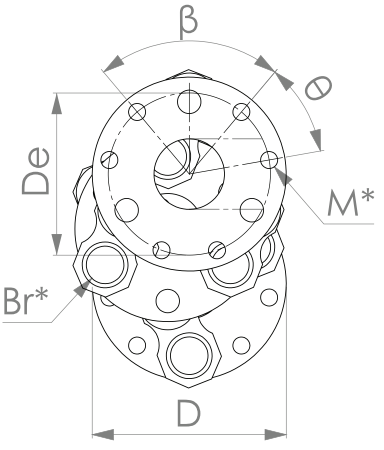
KOD *CODE*	MAKS. HIZ *MAX. SPEED*	RULMAN ÖMRÜ *BEARING LIFETIME*	MAKS. TORK *MAX. TORQUE*						
			$T_{max.}$ * [Nm]						
	$n_{max.}$ [rpm]	L_{10} [saat / hours]	10 rpm	100 rpm	500 rpm	1000 rpm	1500 rpm	2000 rpm	2500 rpm
STK-70	2500	1000 5000 10000 50000	399,36 246,48 200,46 123,71	200,46 123,71 100,46 61,93	123,71 76,28 61,93 38,22	100.46 61,93 50,31 31,04	88,92 54,83 44,54 27,46	81,59 50,31 40,87 25,19	76,28 47,03 38,22 23,56
STK-88	2000	1000 5000 10000 50000	562,48 347,10 281,87 173,94	281,87 174,92 141,28 87,17	173,94 128,70 87,17 53,72	141,28 87,17 70,79 43,68	125,09 77,12 62,69 38,61	114,76 70,79 57,43 35,49	-
STK-100	2000	1000 5000 10000 50000	1.036,39 639,52 519,36 320,49	519,36 320,46 260,33 160,64	320,46 197,73 160,64 99,10	260,33 160,64 130,64 80,50	230,49 142,16 115,48 71,25	211,42 130,46 105,89 65,29	-
STK-118	2000	1000 5000 10000 50000	1.715,18 1.058,27 859,55 530,42	859,55 530,42 430,79 265,82	530,42 327,24 265,82 164,03	430,79 265,82 215,87 133,11	381,38 235,31 191,16 117,86	349,92 215,87 175,37 108,14	-
STK-138	1500	1000 5000 10000 50000	2.964,60 1.829,14 1.485,70 916,76	1.485,70 916,76 744,55 459,43	916,76 565,54 459,43 283,50	744,55 459,43 373,09 230,20	659,34 406,78 330,32 203,80	-	-
STK-158	1500	1000 5000 10000 50000	5.483,89 3.383,73 2.748,31 1.695,74	2.748,31 1.695,74 1.377,48 849,81	1.695,74 1.046,30 849,62 524,35	1.377,48 849,81 690,21 425,83	1.219,73 752,58 611,28 377,12	-	-
STK-177	1500	1000 5000 10000 50000	6.804,81 4.198,77 3.410,43 2.104,39	3.410,43 2.104,39 1.709,28 1.054,59	2.104,39 1.298,33 1.054,59 650,73	1.696,98 1.059,59 856,52 524,79	1.513,50 933,87 758,52 467,87	-	-
STK-197	1000	1000 5000 10000 50000	11.455,47 7.068,44 5.741,42 3.542,53	5.741,42 3.542,53 2.877,50 1.775,36	3.542,53 2.185,79 1.775,36 1.095,35	2.877,50 1.775,36 1.442,14 889,67	-	-	-
STK-246	1000	1000 5000 10000 50000	15.078,38 9.303,63 7.556,98 4.662,84	7.556,98 4.450,87 3.769,67 2.337,01	4.662,84 2.877,08 2.337,01 1.443,25	3.787,31 2.337,01 1.898,06 1.171,00	-	-	-

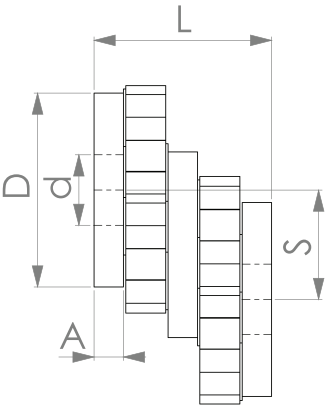
* İğneli rulman, kaplinin en zayıf parçası olduğu için tork kapasiteleri rulmanın L10 ömrüne bağlı olarak verilmiştir. Lütfen tork sınırlarını, tasarımınızın çalışma hızına ve rulmanın istenen kullanım ömrüne göre kontrol edin.
** Because the needle roller bearing is the weakest part in the coupling, the torque capacities are given as dependent on the L10 lifetime of the bearing. Please check the torque limits according to the operating speed of your design and the desired lifetime of the bearing.*

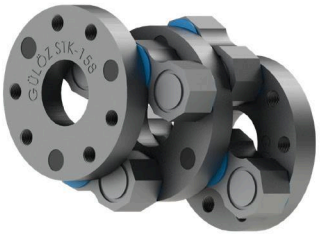


WS = 2 x Smax.









STK

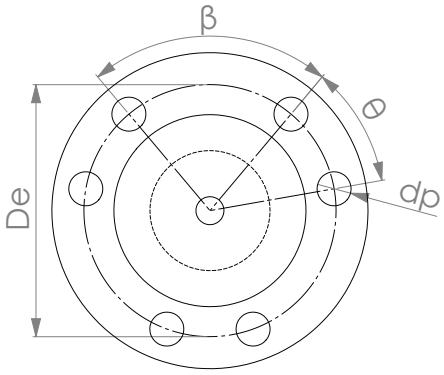
RİJİT VE ELASTOMERSİZ
RIGID AND ELASTOMER-FREE

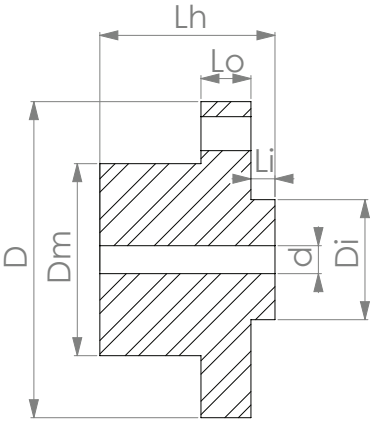
MALZEME *MATERIAL*	KOD *CODE*	d	D	L	Smax.	A	De	β [°]	θ [°]	BAĞLANTI ELEMANLARI *CLAMPING SCREWS DIN EN ISO 4762 - 12,9*			KÜTLE ATALET MOMENTİ *MASS MOMENT OF INERTIA*	AĞIRLIK *WEIGHT*
										ADET *QTY.*	M*	M_S [Nm]	J* [10^{-3}.kgm²]	m* [kg]
C 45	STK-70	25	70	71	40	13	55	80	40	6	M6	17,51	1,03	1,46
	STK-88	40	88	78	50	15	71	80	40	6	M8	42,31	2,66	2,37
	STK-100	50	100	93	56	17	82	80	40	6	M10	83,58	5,90	3,85
	STK-118	55	118	110	76	20	95	80	40	6	M12	143,17	12,81	6,05
	STK-138	58	138	128	90	22	112	80	40	6	M14	226,03	28,99	10,05
	STK-158	60	158	151	100	25	126	80	40	6	M16	357,09	60,92	16,11
	STK-177	70	177	172	110	30	145	80	40	6	M16	357,09	116,47	24,05
	STK-197	80	197	197	130	35	160	80	40	6	M20	698,56	196,73	32,81
	STK-246	100	246	233	150	45	205	80	40	6	M20	698,56	607,15	64,90

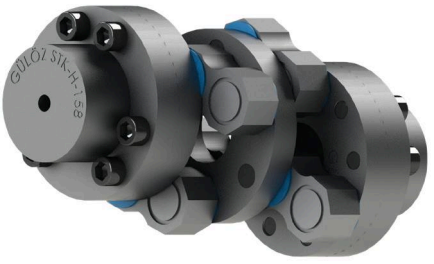
* Kütle atalet momentleri kaçıklık miktarı sıfırken (S=0) komple kaplin takımı için verilmiştir.
* Mass moments of inertia are given for the complete coupling assembly when the amount of offset is equal to zero (S=0).
*** Ağırlıklar komple kaplin takımı için verilmiştir. ve kütle atalet momentleri minimum delik çapına göre komple kaplin takımı için verilmiştir.*
*** Weights are given for the complete coupling assembly.*

SCHMIDT TİPİ KAÇIKLIK KAPLİNLERİ İÇİN STANDART GÖBEKLER

STANDARD HUBS FOR SCHMIDT OFFSET COUPLINGS







STK-H

MALZEME *MATERIAL*	KOD *CODE*	d	d max.	D	Lh	Lo	Li	Dm	Di	De	β [°]	θ [°]	dp	KÜTLE ATALET MOMENTİ *MASS MOMENT OF INERTIA*	AĞIRLIK *WEIGHT*
														J* [10^{-3}.kgm^2]	m* [kg]
C 45	STK-H-70	6	24	70	41	13	6	42	25	55	80	40	6,5	0,20	0,62
	STK-H-88	8	32	88	46	15	7	54	40	71	80	40	8,5	0,56	1,15
	STK-H-100	10	38	100	54	17	8	60	50	82	80	40	11	1,07	1,70
	STK-H-118	12	45	118	65	20	10	71	55	95	80	40	13	2,47	2,79
	STK-H-138	12	55	138	75	22	11	85	58	112	80	40	15	5,26	4,40
	STK-H-158	14	60	158	88	25	12	96	60	126	80	40	17	10,51	6,60
	STK-H-177	16	75	177	100	30	15	115	70	145	80	40	17	20,83	10,19
	STK-H-197	18	80	197	115	35	17	122	80	160	80	40	21	35,72	13,94
	STK-H-246	24	110	246	138	45	22	167	100	205	80	40	21	115,86	28,94

* Ağırlık ve kütle atalet momentleri pilot delik çapına göre verilmiştir.
* Weights and mass moments of inertia are given based on the pilot bore diameter.

GÜLÖZ



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