




Buyers guide

Couplings positioning



Part number	BS2	BC2	BS3	BC3	DBC, B3PANC
Brand	Panamech Multi-Beam	Panamech Multi-Beam	Panamech Multi-Beam	Panamech Multi-Beam	Panamech Multi-Beam
Type	2x3 helical	2x3 helical	2x3 helical	2x3 helical	1x3 helical
Fastening to shaft					
Radial misalignment(mm)	0,07 → 0,9	0,07 → 0,9	0,07 → 0,9	0,07 → 0,9	0,127
Axial misalignment(mm)	0,4 → 1	0,4 → 1	0,4 → 1	0,4 → 1	0,4 → 1
Angular misalignment	3° → 7°	3° → 7°	3° → 7°	3° → 7°	5°
Max. torque (Nm)	0,2 → 40	0,2 → 40	0,22 → 73	0,22 → 73	0,45 → 10
Max. speed (t/min)	5000	5000	5000	5000	5000
Material	aluminium	aluminium	stainless steel	stainless steel	aluminium or S/steel
Keying possible	✗	✗	✗	✗	✗
Re-boring possible	✓	✓	✓	✓	✓
Frequent starts	✓	✓	✓	✓	✓
Advantages	practical	practical	practical	practical	miniature
Quality	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
Price	€€	€€	€€€	€€€	€€€
Pages	226	228	227	229	230 - 31

 : locking jaw  : set screw  : locking assembly



MHS

MHW

PFL

BG, BGC

-

-

P-FLEX

Oldham

simple disc

double disc

double elastomer
ring

-



0

0,15 → 0,3

2,6 → 3,2

0,2 → 0,25

0,2

0,4 → 0,8

4,5 → 11

0,05 → 0,2

1°

2°

10° → 15°

0,5°

2,8 → 38

2,8 → 38

0,5 → 10

0,06 → 44

2400 → 4800

2400 → 4800

3000

3000

aluminium +
S/steel

aluminium +
S/steel

steel + Hytrel

brass or
aluminium + acetal

✗

✗

✗

✗

✗

✗

✗

✓

✓

✓

✓

✓

precise

precise

economical

practical

☆☆☆

☆☆☆

☆☆

☆☆☆

€€€

€€€

€

€€

232

233

258




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Buyers guide

Couplings positioning



Part number	RGS	DKGS BKGS	EKGS	ADSR
Brand	Rotex® GS	Gerwah®	Gerwah®	Gerwah®
Type	spacer mounted, pre-stressed	spacer mounted, pre-stressed	spacer mounted, pre-stressed	spacer mounted, pre-stressed
Fastening to shaft				
Radial misalignment(mm)	0,06 → 0,15	0,06 → 0,14	0,06 → 0,14	0,06 → 0,16
Axial misalignment(mm)	0,4 → 1,5	0,2 → 2	0,2 → 1,4	0,5 → 2,1
Angulare misalignment	1°	0,5 → 1°	1°	0,9°
Max. torque (Nm)	0,08 → 190	0,5 → 450	0,5 → 35	12,5 → 525
Max. speed (t/min)	8500 → 56000	4000 → 3800	8500 → 47500	3600 → 13000
Material	aluminium + polyurethane	aluminium + polyurethane	aluminium + polyurethane	aluminium + polyurethane
Keying possible	✓	✓	✓	✓
Re-boring possible	✗	✓	✓	✓
Frequent starts	✓	✓	✓	✓
Advantages	powerful, precise	powerful, precise	powerful, precise	powerful, precise
Quality	☆☆☆	☆☆☆	☆☆☆	☆☆☆
Price	€€€	€€€	€€€	€€€
Pages	236 - 37	240 - 43	238 - 39	244 - 45

 : locking jaw  : set screw  : locking assembly



**MFB
MFB-C**

**MFBS
MFBS-C**

**EKN
DKN**

**AKD
AKN**

AK

-

-

Gerwah®

Gerwah®

Gerwah®

bellows

bellows

bellows

bellows

bellows



0,1 → 0,2

0,1 → 0,2

0,1 → 0,25

0,1 → 0,2

0,1 → 0,2

-2,5 → +0,8

-2,5 → +0,8

0,2 → 0,5

0,4 → 1

0,4 → 1

1,5° → 2°

1,5° → 2°

1,2° → 2°

1° → 1,5°

1° → 1,5°

0,3 → 4

0,5 → 6

0,1 → 10

18 → 500

30 → 500

4800 → 32000

4800 → 32000

-

4900 → 12700

4600 → 11000

aluminium +
bronze

stainless steel +
stainless steel

aluminium +
stainless steel

steel or aluminium
+ stainless steel

steel +
stainless steel

✗

✗

✓

✓

✗

✓

✓

✗

✗

✗

✓

✓

✓

✓

✓

precise

precise

miniature

powerful,
precise

powerful,
precise

☆☆☆

☆☆☆

☆☆☆

☆☆☆

☆☆☆

€

€€

€€

€€€€

€€€€

②46, 48

②47, 49

②50 - 53

②54 - 56

②57

Buyers guide

Couplings

positioning



Part number	RTN	GET-AL	RTK	GFX	RTE
Brand	BoWex® Junior	-	BoWex®	-	Rotex®
Type	curved teeth	jaw	curved teeth	curved teeth	jaw
Fastening to shaft	0,1 → 0,4	0,2 → 0,28	0,3 → 0,4	0,7 → 1,3	0,17 → 0,50
Radial misalignment(mm)	1	1,2 → 1,8	1	1	-0,5 → +3,4
Axial misalignment(mm)	1° → 2°	0,9 → 1,2	2°	2°	0,9° → 1,2°
Angular misalignment	5 → 24	20 → 380	5 → 160	23 → 840	2 → 4800
Max. torque (Nm)	-	7100 → 14000	6700 → 14000	4000 → 14000	2800 → 19000
Max. speed (t/min)	nylon	aluminium + polyurethane	steel + nylon	steel + nylon	steel, aluminium or cast iron + polyurethane
Material	✓	✗	✓	✗	✓
Keying possible	✗	✗	✓	✗	✓
Re-boring possible	✓	✓	✓	✓	✓
Frequent starts	✓	✓	✓	✓	✓
Advantages	economical	economical	practical	economical	powerful, precise
Quality	☆☆	☆☆	☆☆☆	☆☆	☆☆☆
Price	€	€	€€	€	€€€
Pages	260 - 61	266 - 67	264 - 65	262 - 63	268 - 69

				
	PNA	FDS, FDSQ	AF	SC2
	Periflex®	Masterflex		
	tyre	flexible shaft	rigid	rigid
	5	-	0	0
	6	-	0	0
	2°	-	0	0
	50 → 2400	0,15 → 75	-	25 → 2250
	3000 → 5000	200 → 12000	-	-
	steel + rubber	steel	steel	steel, stainless steel
	✓	✗	✓	✗
	✗	✗	✓	✗
	✓	✗	✓	✓
	✗	✗	✗	✓
	powerful, precise	contourne les obstacles	standard	standard
	☆☆☆	☆☆☆	☆☆☆	☆☆☆
	€€€	€€€€	€€	€€
	276 - 77	270 - 73	282	283

Buyers guide

Couplings positioning



Part number	U-A	G-A	H-A	JCS
Bushes	-	hardened	needle bearing	hard
Standard	-	DIN808-7551	DIN808-7551	-
Angular misalignment	35°	45°	45°	45°
Max.torque (Nm)	0,2 → 1,7	7,5 → 720	9 → 402	2,3 → 216
Max. speed (rpm)	200	800	4000	800
Material	steel	steel	steel	stainless steel
Re-machining possible	✗	✓	✓	✓
Keying possible	✗	✓	✓	✓
Uses	manual or light	normal	intensive	normal
Frequent starts	✗	✓	✓	✓
Advantages	economical	standard	high speed	standard and stainless steel
Quality	☆☆	☆☆☆	☆☆☆☆	☆☆
Price	€	€€	€€€	€€
Pages	284	288	290	292

	double				telescopic
					
	U-C	GD-A	HD-A	JCD	CT
	-	hardened	needle bearing	hard	hardened
	-	DIN808-7551	-	-	-
	2x35°	2x45°	2x45°	2x45°	2x45°
	0,2 → 1,7	7 → 648	8,1 → 361,8	5,22 → 194,4	7 → 648
	200	800	4000	800	4000
	steel	steel	steel	stainless steel	steel
	✗	✓	✓	✓	✓
	✗	✓	✓	✓	✓
	manual or light	normal	intensive	normal	normal
	✗	✓	✓	✓	✓
	economical	standard	high speed	standard and stainless steel	speed, long length
	☆	☆☆	☆☆☆	☆☆	☆☆
	€	€€€	€€€€	€€€	€€€€
	②85	②89	②91	②93	②94 - 95

Buyers guide

Torque limiters



Part number	VT	VTA	SAS	LC	DSF
Name	Vari-Tork®	Vari-Tork® /Oldham	miniature	friction	chaine
Type	friction	friction	friction	friction	friction
Adjustable	✓	✓	✓	✓	✓
Couplings	✗	✓	✓	✗	✓
In-hurb assembly	✓	✗	✗	✓	✗
Bore size (mm)	Ø6 → Ø8	Ø6 → Ø10	Ø6 → Ø15,88	Plein	Ø7 → Ø68
Torque range (Nm)	0,53 → 1,32	0,53 → 1,32	0,01 → 8,64	30 → 240	4 → 2600
Torque precision	medium	medium	medium	medium	medium
Quality	☆☆	☆☆	☆☆	☆☆	☆☆
Price	€€	€€	€€€	€€	€€€€
Pages	298	299	2100 + 101	2102 + 103	2104 + 105

Locking rings



Part number	SUP	RT25	RTT	RT70	RTL450
Auto centering	✓	✓	✗	✓	✓
For shaft (mm)	Ø5 → Ø35	Ø6 → Ø55	Ø20 → Ø100	Ø19 → Ø70	Ø25 → Ø100
transmissible torque	☆	☆☆	☆☆	☆☆☆	☆☆☆
Advantages	easy assembly for small diameters	ideal for small diameters	handles high torque values	handles high torque values	handles high torque values
Quality	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
Price	€€€	€€	€	€€	€€
Pages	2124	2129	2128	2130	2131



Part number	TTQ MINI	TTQ OE	TTQ GT	ETP-MINI	ETP-CL	ETP-EX	ETP-EXss
Auto-centrante	✓	✓	✓	✓	✓	✓	✓
For shaft (mm)	Ø5 → Ø17	Ø17 → Ø35	Ø15 → Ø75	Ø6 → Ø14	Ø15 → Ø100	Ø15 → Ø100	Ø15 → Ø80
Transmissible torque	12 → 170	208 → 645	180 → 2010	7 → 66	55 → 15500	46 → 17000	46 → 8700
Advantages	mini compact	compact	wide range of use	mini	easy to assemble/dimantle	quick to assemble/dismantle	S/steel, quick to assemble/dismantle
Quality	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆☆	☆☆☆☆ ☆☆	☆☆☆☆ ☆☆
Price	€€	€€€	€€€	€€€	€€€	€€€	€€€
Pages	2125	2126	2127	2132	2134	2136	2138

Buyers guide

Motorgearboxes

direct current











Part number	MAX22	MAX26	BUH77
Gearboxe type	spur	spur	spur
Voltage	12V DC and 24V DC	12V DC and 24V DC	12V DC and 24V DC
Nominal current (A)	0,05 → 0,30	0,05 → 0,63	0,275 → 1,4
Max.torque (Nm)	0,07 → 0,20	0,08 → 0,6	0,1 → 2
Max. speed (rpm)	27 → 435	8 → 459	14 → 900
Quality	☆☆☆	☆☆☆	☆☆☆
Price	€€	€€	€€
Pages	2 254	2 255	2 256

AC synchrone



Part number	DER RFV	LINK64
Gearboxe type	worm and wheel stainless steel	spur
Voltage	230/400 V AC	230V AC 1 phase
Nominal current (A)	0,58 → 3,3	0,051
Max.torque (Nm)	11 → 141	1,2 → 6
Max. speed (rpm)	14 → 186	0,5 → 31
Quality	☆☆☆	☆☆☆
Price	€€€	€€
Pages	2 302 - 311	2 270

			
DOG316	DOG111	DOG319	DOG258
worm and wheel	worm and wheel	worm and wheel	worm and wheel
12V DC and 24V DC	12V DC and 24V DC	12V DC and 24V DC	12V DC and 24V DC
2 → 4	2 → 5	3 → 10	5 → 12
1,5 → 2	1,5 → 6	6 → 10	12 → 15
27,5 → 65	10 → 240	10 → 80	25 → 40
☆☆	☆☆	☆☆	☆☆
€	€€	€€	€€€
2 257	2 258	2 259	2 260

			
CHM30-MOT	CHM40-MOT	CHM50-MOT	CHM63-MOT
worm and wheel	worm and wheel	worm and wheel	worm and wheel
400V AC phase	400V AC phase	400V AC phase	400V AC phase
-	-	-	-
9 → 22	22 → 52	33 → 87	67 → 165
17 → 186	14 → 186	14 → 186	14 → 186
☆☆	☆☆	☆☆	☆☆
€€	€€	€€	€€
2 276	2 277	2 278	2 279

Buyers guide

Gearboxes








Part number	CHMR	CHM	CHML	RFV	P	PF
Type	worm and wheel	worm and wheel	integrated torque limiter	worm and wheel	worm and wheel	worm and wheel
Reduction ratio	7,5:1 → 100:1	7,5:1 → 100:1	7,5:1 → 100:1	7,5 → 100	5:1 → 120:1	5:1 → 120:1
Transmissible torque (Nm)	11 → 980	11 → 980	11 → 980	11 → 141	0,94 → 164	1,25 → 164
Input shaft	●	○	○	○	●	○
Output shaft	○	○	○	○	○	○
Axle orientation	└	└	└	└	└	└
Self locking output	✓*	✓*	✓*	✓*	✓*	✓*
Multiplier	✗	✗	✗	✗	✗	✗
Quality	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
Price	€€	€€	€€	€€€	€€€	€€€
Pages	2280	2283	2296	2306	2148	2149



Part number	B332	RVM	RAM	CHTRP / CHTRB	BL
Type	bevel gear	worm and wheel	bevel gear	bevel gear	bevel gear
Reduction ratio	1:1	1:1 → 30:1	1:1 → 2:1	1:1 → 3:1	1:1 → 4:1
Transmissible torque (Nm)	0,11 → 0,68	2 → 17	4 → 6	1,4 → 87,3	0,4 → 6
Input shaft	●	⬡	⬡	●	●
Output shaft	●	⬡	⬡	●	○
Axle orientation	└	└	└	└ or └	≡
Self locking output	✗	✓*	✗	✗	✗
Multiplier	✗	✗	✗	✓	✗
Quality	☆	☆	☆	☆☆	☆☆
Price	€	€	€	€€	€€
Pages	2225	2228 → 2229	2226 → 2227	2232 → 2241	2174

● arbre plein ○ arbre creux * sous conditions

				
PP	E	BLHB / BLHI / BLHO	BLHM	BLH, BLHT
worm and wheel		bevel gear	bevel gear	bevel gear
25:1 → 900:1	1:1 → 40:1	1:1 → 2:1	1:1 → 2:1	1:1 → 2:1
2,2 → 34	0,4 → 62	0,53 → 70	0,53 → 128	0,53 → 128
●	○	or	●	●
●	○	or	●	●
==	⊥	L	⊥	L
✓*	X	X	X	X
X	X	X	X	X
☆☆☆	☆☆☆	☆☆☆	☆☆☆	☆☆☆
€€€	€€€	€€€	€€€€	€€€







② 163 - 164

② 166 - 172

② 178 - 194

② 179 - 195

② 176 - 197

					
FF	EHD	XJ-J	NT	NH	HLA, HLC
spur	planetary	spur	spur	spur	spiral bevel gears
2:1 → 7:1	36:1	1:1 → 625:1	1:1 → 120:1	1:1 → 120:1	1:1 → 120:1
0,78 → 425	3,4 → 380	0,16 → 2,80	5 → 85	5 → 85	35 → 128
●	○	●○	●	○	●○
●	●	●●	●	●	●○
—	—	—	—	—	⊥L
X	X	X	X	X	X
X	X	X	X	X	X
☆☆☆	☆☆☆	☆☆	☆☆	☆☆	☆☆☆
€€€	€€€	€€	€€€	€€€	€€

② 198 → 203

② 204 → 209

② 211 → 216

② 217 → 223

② 217 → 223

② 242 → 249

Buyers guide

		Transmissible torque (Nm) changes depending on speed								
Gearbox	Part number	0-1	>1-5	>5-20	>20-100	>100-300	>300-600	>600-900	>900-1200	>1200-1512
Worm and weel ② 280 → 293	CHM-CHMR30			10-28						
	CHM-CHMR40			22-57						
	CHM-CHMR50			39-107						
	CHM-CHMR63			73-198						
	CHM-CHMR75			118-298						
	CHM-CHMR90			198-540						
	CHM-CHMR110			350-980						
Worm and weel ② 142 → 165	P-PF15	0.94-3.75								
	P-PF20	1.25-5								
	P-PF30	2.5-8.8								
	P-PF40	5-18								
	P-PF45	10.3-40								
	P-PF55	13.4-57								
	P-PF60	27-118								
	P-PF70	38-164								
	PP35	2.2-4.1								
	PP50	6.5-12.8								
PP60	17.8-34									
Angle transmission ② 166 → 172	E15	0.4-1.32								
	E20	0.6-3.84								
	E30	1.5-9								
	E40	2.3-20								
	E50	3-41								
	E60	4.5-62								
Bevel gearing ② 174 → 197	BLHB20	0.53-1.77								
	BLHB30	1.32-4.4								
	BLHB40	3-10.3								
	BLHB50	7.7-30								
	BLHB60	19-70								
	BLHM20	0.53-1.77								
	BLHM30	1.32-4.4								
	BLHM40	3-10.3								
	BLHM50	7.7-30								
	BLHM60	19-70								
	BLHM70	26-128								
	BLH20	0.53-1.77								
	BLH30	1.32-4.4								
	BLH40	3-10.3								
	BLH50	7.7-30								
	BLH60	19-70								
	BLH70	26-128								
	BLHT20	0.53-1.77								
	BLHT30	1.32-4.4								
	BLHT40	3-10.3								
	BLHT50	7.7-30								
BLHT60	19-70									
BLHT70	26-128									
BL8	0.2-2									
BL15	1.1-6									

Gearbox Part number		Transmissible torque (Nm) changes depending on speed								
		0-1	>1-5	>5-20	>20-100	>100-300	>300-600	>600-900	>900-1200	>1200-1512
Single or dual output ②232 → 235	CHTRB8		1.4-4.7							
	CHTRB15			5.2-16.5						
	CHTRB20				15.3-53.1					
	CHTRB25				29.6-87.3					
Single or dual output ②236 → 241	CHTRP8		3.2-9.1							
	CHTRP14				9.9-34.5					
	CHTRP19				22.8-87.3					
Dual output ②238 → 239	CHTRP24				22.8-87.3					
	CHTRP14				9.9-28.8					
Spur gear ②198 → 203	CHTRP19				22.8-75.7					
	FF10		0.78-3.70							
	FF15			2.2-10						
	FF20				5.8-23					
	FF30				21.5-83					
	FF40					59-210				
Epicyclic ②204 → 209	FF50					111-425				
	EHD04		3.4-7							
	EHD06			8-19						
	EHD08				20-50					
	EHD08				35-50					
	EHD12					60-140				
Planetary ②210 → 223	EHD16					210-380				
	J-XJ51		0.13-0.49							
	J-XJ52		0.27-0.9							
	J-XJ53		0.43-1.15							
	J-XJ64		0.57-2.25							
	J-XJ65		0.8-2.95							
	J-XJ66		0.9-2.8							
	NT-NH61				5-14					
	NT-NH62				6-18					
	NT-NH63				8-20					
	NT-NH91				10-35					
	NT-NH92				15-40					
NT-NH121				20-68						
Manual ②226 → 229	NT-NH122				32-85					
	RAM		4 à 6							
Spiral bevel gear ②242 → 249	RVM		5 à 17							
	HLA-HLC19				35 à 43					
	HLA-HLC24				22 à 78					
Worm and wheel ②306 → 311	HLA-HLC28				126 à 142					
	RFV40				+47Nm					
	RFV50				+80Nm					
	RFV63				+152Nm					