

Documentation

**POSIRED 2 bevel helical gear unit
4stage**

KPLD28-R10-H12-280

Gear number: 698699

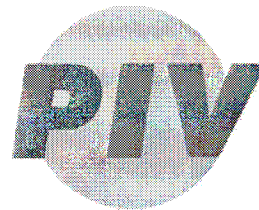
Usage: Grater-chain drive

Job title: 32080706/GFL-IRSAB

VA-Number: 10021077 Pos. 10/11

**Customer: Polysius AG
D-59269 Beckum**

Date: 01.2006 / En



Technical gear description

VA-Number = 10021077 Pos. 10/11
Gear unit = KPLD28-R10-H12-280
Usage = Grater-chain drive
Job title = 32080706/GFL-IRSAB

Power P_1 = 15 kW
Requirement of power P_A = 13 kW
Input speed n_1 = 1.450 min⁻¹
Transmission ratio i_w = 294
Output speed n_2 = 4,9 min⁻¹
Gear rated load torque T_N = 32.000 Nm / $f_S=1$

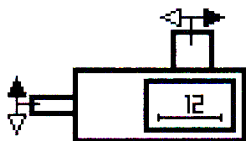
Lubrication = Splash lubrication
Oil quantity = see typeplate
Oil level control = Dip stick
Oil viscosity = CLP according to DIN 51502 / DIN 51517
ISO VG 220 according to DIN 51519
Ambient temperature = 5°C ... max. +50°C
Running oil temperature
Mineral oil = -10°C ... +90°C, short period +100°C



Should the running temperature of the gear box exceed or fall below the given oil temperatures, the oil must be checked for it's integrity

Sealing = rotary shaft seal

Serialnumber = 698699
Location of input / output shafts = H12



Input = solid shaft with key-nute according to DIN 6885/1
Direction of rotation = left

Output = hollow shaft with key-nute according to DIN 6885/1
Direction of rotation = left



Technical gear description

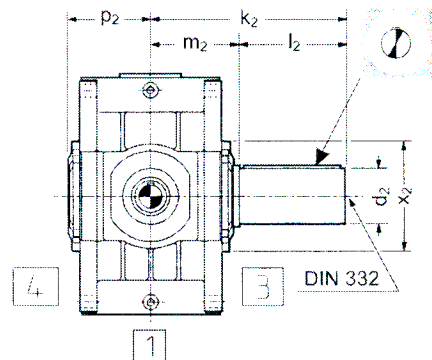
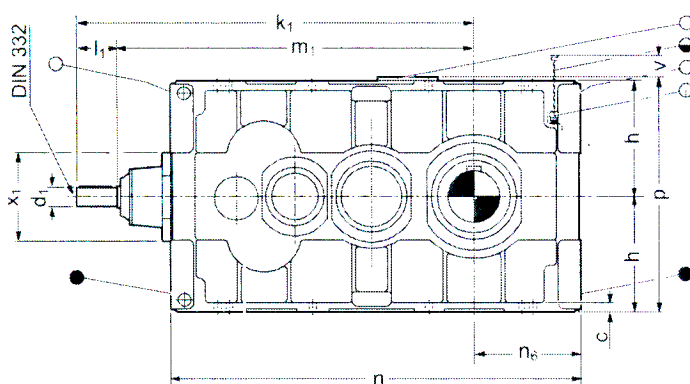
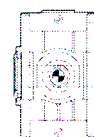
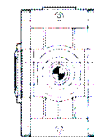
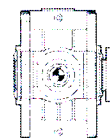
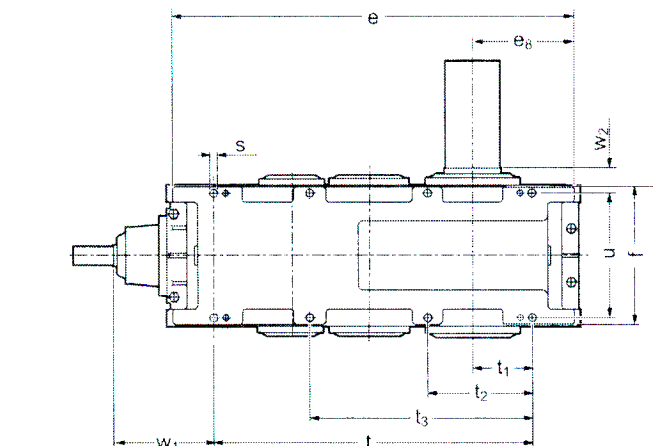
VA-Number = 10021077 Pos. 10/11
Gear unit = KPLD28-R10-H12-280
Usage = Grater-chain drive
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Syntex/Rotex coupling

Denotation = Syntex 50 TD2 / Rotex GS48/50
Slipping moment = 225 Nm
finished bove d_1 = $\varnothing 40^{H7}$ mm (KPLD28-R10-H12-280)
finished bove d_2 = $\varnothing 42^{H7}$ mm (Motor)
Key-nute with fixing screw = according to DIN 6885/1

Motor

Bezeichnung = ADDA 160L4
Leistung = 15 kW
Drehzahl = 1.450 min^{-1}
Spannung = 400 V
Frequenz = 50 Hz
Baugröße = 160 L
Schutzart = IP 55
Isolationsklasse = F
Bauform = B5
Flansch = A/ $\varnothing 350$ mm
Wellenmaße = $\varnothing 42 \times 110$ mm



	Antriebswelle / Input shaft / Albero entrata Arbre d'entrée / Eje de entrada / Eixo de entrada					Abtriebswelle / Output shaft / Albero uscita Arbre de sortie / Eje de salida / Eixo de saída				
	Ø d ₁	k ₁	l ₁	m ₁	Ø x ₁	Ø d ₂ m6	k ₂	l ₂	m ₂	Ø x ₂
PLD 14	20 k6	552	80	472	148	65	270	135	135	—
PLD 16	20 k6	608	80	528	148	85	290	145	145	—
PLD 18	25 k6	703	85	618	190	95	350	170	180	—
PLD 20	25 k6	757	85	672	190	120	370	190	180	—
PLD 22	40 k6	908	120	788	225	130	405	190	215	—
PLD 25	40 k6	966	120	846	225	145	450	230	220	296
PLD 28	40 k6	1021	120	901	255	160	480	230	250	328
PLD 31	40 k6	1089	120	969	255	175	540	290	250	348
PLD 35	50 k6	1188	120	1068	285	155	570	290	280	328
PLD 40	50 k6	1265	120	1145	285	175	570	290	280	348
PLD 42	60 m6	1416	145	1271	350	195	650	330	320	400
PLD 45	60 m6	1482	145	1337	350	210	730	410	320	440
PLD 47	60 m6	1568	145	1423	350	230	730	410	320	440
PLD 50	75 m6	1748	160	1588	440	250	795	410	385	480
PLD 53	75 m6	1819	160	1659	440	250	795	410	385	480
PLD 56	75 m6	1912	160	1752	440	270	845	460	385	540
PLD 60	85 m6	2096	180	1916	540	290	920	460	460	540
PLD 63	85 m6	2169	180	1989	540	310	970	510	460	580
PLD 67	85 m6	2240	180	2060	540	310	970	510	460	580
PLD 71	100 m6	2512	215	2297	540	350	1110	570	540	620
PLD 75	100 m6	2584	215	2369	540	350	1110	570	540	620
PLD 80	100 m6	2644	215	2429	540	370	1110	570	540	620
PLD 85	100 m6	2714	215	2499	540	370	1110	570	540	620



	Gehäuse / Casing / Carcassa / Carter / Carcasa / Carcaça								
	c	e	e ₆	f	h -0.2	n	n ₆	p	p ₂
PLD 14	15	474	121	216	150	500	134	333	—
PLD 16	15	579	170	216	180	605	183	393	—
PLD 18	18	622	155	284	190	654	171	419	—
PLD 20	18	732	211	284	225	764	227	489	—
PLD 22	24	782	193	346	235	826	215	513	—
PLD 25	24	896	249	346	265	940	271	573	204
PLD 28	28	948	230	408	280	1000	256	610	246
PLD 31	28	1085	299	408	315	1137	325	680	239
PLD 35	32	1275	325	438	300	1315	345	610	262
PLD 40	32	1430	403	438	375	1470	423	760	262
PLD 42	40	1555	392	514	355	1615	422	720	303
PLD 45	40	1689	460	514	425	1749	490	860	303
PLD 47	40	1860	545	514	500	1920	575	1010	303
PLD 50	50	1892	470	620	425	1962	505	860	358
PLD 53	50	2038	545	620	500	2108	580	1010	358
PLD 56	50	2231	645	620	600	2301	680	1210	365
PLD 60	60	2272	565	770	530	2342	600	1070	440
PLD 63	60	2420	640	770	600	2490	675	1210	440
PLD 67	60	2566	715	770	670	2636	750	1350	440
PLD 71	45	2430	560	920	600	2692	690	1200	508
PLD 75	45	2649	600	920	670	2814	740	1340	508
PLD 80	45	2769	660	920	710	2934	800	1420	508
PLD 85	45	2909	730	920	800	3074	870	1600	508

	Befestigung / Fitting / Fissaggio / Fixation / Fijación / Fixação										[l]	Kg
	Ø s	d _s x l _{max}	t	t ₁	t ₂	t ₃	u	w ₁	w ₂	v		
PLD 14	12	M10x45	348	58	125	—	192	182	39	25	7	105
PLD 16	12	M10x80	453	107	217	—	192	182	49	70	10	170
PLD 18	14,5	M12x55	486	87	175	—	248	219	56	35	15	245
PLD 20	14,5	M12x90	596	143	285	—	248	219	56	60	21	335
PLD 22	18,5	M16x65	622	113	226	—	306	279	62	50	29	465
PLD 25	18,5	M16x90	736	169	340	—	306	279	67	90	36	600
PLD 28	24	M20x80	752	132	265	—	360	281	70	60	50	770
PLD 31	24	M20x110	889	201	402	—	360	281	70	70	65	1060
PLD 35	24	M20x85	1005	190	325	695	396	253	82	190	65	1500
PLD 40	24	M20x120	1157	265	477	847	396	253	82	220	94	1830
PLD 42	28	M24x100	1230	225	390	820	460	266	90	250	103	2200
PLD 45	28	M24x120	1356	285	516	946	460	266	90	250	140	2750
PLD 47	28	M24x250	1527	370	687	1117	460	266	90	250	190	3300
PLD 50	35	M30x120	1524	280	504	1014	560	344	105	250	200	4200
PLD 53	35	M30x180	1670	355	650	1160	560	344	105	250	250	4800
PLD 56	35	M30x250	1858	450	838	1348	560	344	105	250	360	5850
PLD 60	42	M36x150	1840	345	630	1200	690	421	115	350	380	7350
PLD 63	42	M36x200	1988	420	778	1348	690	421	115	350	480	8350
PLD 67	42	M36x250	2134	495	924	1494	690	421	115	350	580	9400
PLD 71	48	M42x250	2230	460	850	1490	830	140	125	450	600	10000
PLD 75	48	M42x320	2340	495	935	1600	830	140	125	450	640	11000
PLD 80	48	M42x360	2460	555	1055	1720	830	140	125	450	720	12300
PLD 85	48	M42x450	2600	625	1065	1860	830	140	125	450	820	13600

Maße l., m., und w. für fettgeschmierte Labyrinthdichtungen auf Anfrage.

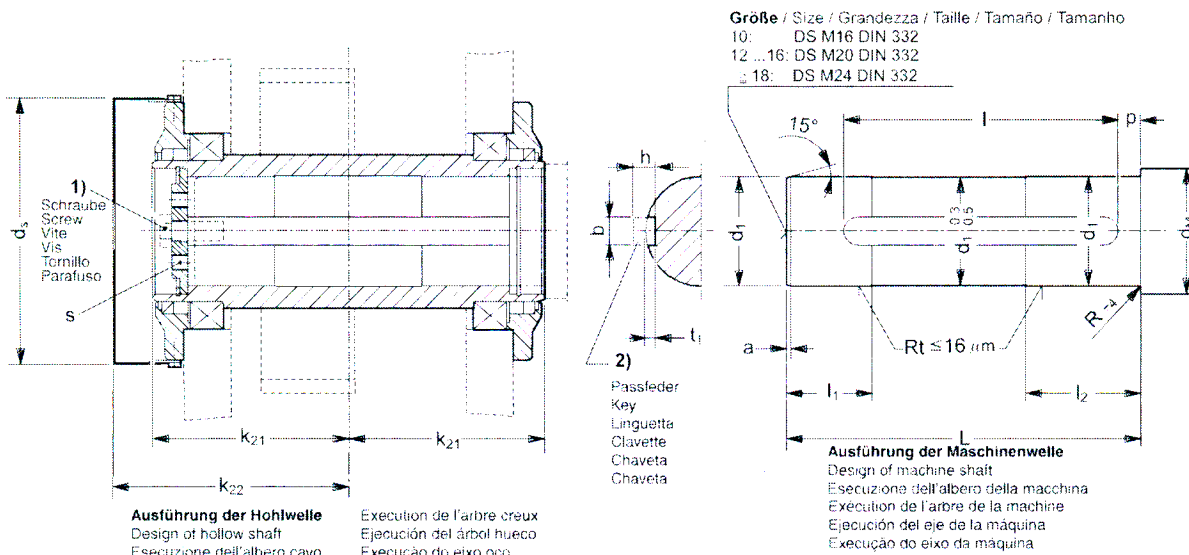
Dimensions l., m. and w. for grease lubricated labyrinth seals, on request.

Dimensioni l., m. e w. per tenute a labirinto con grasso a richiesta.

Dimensions l., m., et w. pour joints à labyrinthe lubrifiés à la graisse, sur demande.

Dimensiones l., m. y w. en caso de juntas laberínticas lubricadas con grasa, bajo demanda.

Dimensões l., m. e w. Em caso de juntas de anel labirinto lubrificado à graxa, sob consulta.



Maße der Hohl- und Maschinenwelle für fettgeschmierte Labyrinthabdichtungen: auf Anfrage. Passfeder der Maschinenwelle und gesicherte Schraube 1) gehören nicht zum Lieferumfang

Dimensions of hollow and machine shafts for grease lubricated labyrinth seals: on request. Key of machine shaft and secured screw 1) not to be supplied by PIV.

Dimensioni dell'albero cavo e dell'albero della macchina per tenute a labirinto lubrificate con grasso: a richiesta. Chavetta per l'albero della macchina e vite 1) non fanno parte della fornitura

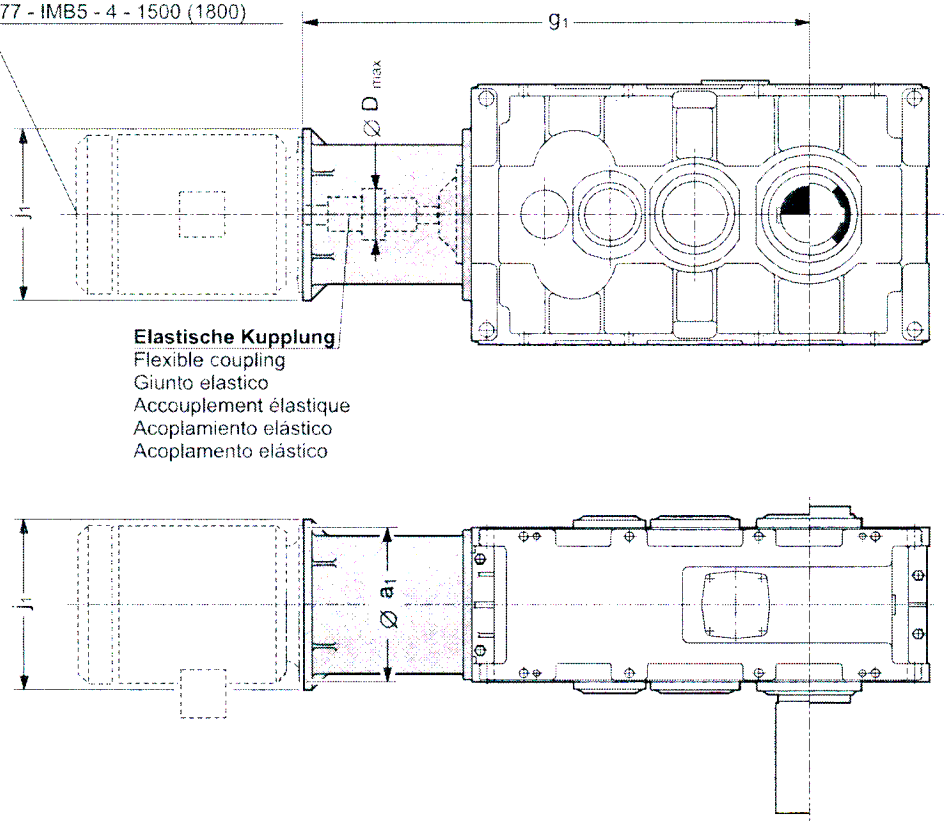
Dimensions de l'arbre creux et de l'arbre de la machine pour joints à labyrinthe lubrifiés à la graisse: sur demande. Clavette de l'arbre machine et la vis 1) non for- nées par PIV.

Dimensiones del eje hueco y del de la máquina para estanquidad por laberinto con grasa: bajo demanda. La chaveta de eje de la máquina y el tornillo 1) no están comprendidos en el suministro.

Dimensões do eixo oco e do eixo da máquina para juntas de anel labirinto lubrificado à graxa: sob consulta. A chaveta do eixo da máquina e o parafuso com travamento 1) não fazem parte do fornecimento.

		a	Ø d ₁ h6	Ø d _M min	Ø d _s	k ₂₁	k ₂₂	l ₁	l ₂	L	l _{min}	p	t ₁	s	Schraube Screw 1) ISO4014	Paßfeder Key 2) b x h
PB, PC, PD, PE PLC, PLD, PWC, PWD	14	5	65	77	180	123	140	50	72	215	180	19	4.8	M 10	M 20 x 55	18 x 7
	16	5	75	96	230	123	139	60	82	215	180	18	7.5	M 12	M 20 x 55	20 x 12
	18	5	90	107	230	157	173	70	95	279	250	18	6.2	M 12	M 24 x 60	25 x 9
	20	5	100	120	285	157	173	80	109	276	220	24	10	M 16	M 24 x 65	28 x 16
	22	5	110	128	285	189	205	90	119	340	280	24	10	M 16	M 24 x 65	28 x 16
	25	6	130	150	310	215	250	100	132	388	280	26	11	M 20	M 24 x 70	32 x 18
	28	6	140	160	340	250	300	110	147	453	320	29	12	M 20	M 24 x 70	36 x 20
	31	6	160	180	365	250	300	125	162	453	320	27	13	M 20	M 24 x 70	40 x 22
	35	6	170	190	380	285	320	135	180	515	400	35	13	M 20	M 24 x 70	40 x 22
	40	6	190	210	410	285	320	150	195	515	400	32	15	M 20	M 24 x 70	45 x 25
	42	6	200	220	470	315	360	160	215	565	400	40	15	M 20	M 24 x 70	45 x 25
	45	6	220	240	495	320	360	175	225	578	400	34	17	M 20	M 24 x 70	50 x 28
	47	6	235	255	540	330	355	190	235	603	400	26	20	M 20	M 24 x 70	56 x 32
	50	6	250	270	570	390	425	205	250	723	400	26	20	M 20	M 24 x 70	56 x 32
PLB	53	6	270	290	615	390	600	220	275	715	400	25	20	M 20	M 24 x 70	63 x 32
	56	6	290	310	615	390	600	235	290	715	400	25	20	M 20	M 24 x 70	63 x 32
	10	5	42	53	180	123	140	40	58	219	140	18	3.9	M 10	M 16 x 45	12 x 6
	12	5	65	77	180	157	174	60	82	283	180	18	4.8	M 10	M 20 x 55	18 x 7
	16	5	75	96	230	189	206	60	82	347	180	18	7.5	M 12	M 20 x 55	20 x 12
	20	5	100	120	282	220	236	80	109	402	220	24	10	M 16	M 24 x 70	28 x 16
	25	6	120	140	308	265	297	95	123	492	280	22	11	M 16	M 24 x 70	32 x 18
	31	6	140	160	338	310	354	110	149	573	320	29	12	M 20	M 24 x 70	36 x 20
	40	6	170	190	380	380	412	135	180	705	400	35	13	M 20	M 24 x 70	40 x 22
	45	6	200	220	470	445	605	160	215	825	400	40	15	M 20	M 24 x 70	40 x 25
50		Auf Anfrage / On request / A richiesta / Sur demande / Bajo demanda / Sob consulta														

Motor / Motor / Motore / Moteur / Motor / Motor
IEC 72 DIN 42677 - IMB5 - 4 - 1500 (1800)



Kupplungsgehäuse können mit oder ohne Motor geliefert werden. Die zum Motor passende elastische Kupplung gehört zum Lieferumfang.

Motor bell housing available with or without motor. Appropriate flexible coupling is part of PIV supply.

Il riduttore comprensivo di campana può essere fornito con e senza motore. Il giunto elastico adatto è parte della fornitura PIV.

Lanterne pour accouplement livrable avec ou sans moteur. Accouplement élastique assortie est livré par PIV.

Las campanas de acoplamiento pueden suministrarse con o sin motor. El acoplamiento elástico adecuado al motor forma parte del suministro.

Caixas para acoplamentos podem ser oferecidas sem ou com motor. O acoplamento elástico conveniente ao motor faz parte do fornecimento.

Bauart / Type KPLD.-R1

	Getriebeanordnung Position of gear case Position du carter Posizione del riduttore Disposición del reductor Disposição do redutor						Motor / Motor / Motore Moteur / Motor / Motor		Getriebeanordnung Position of gear case Position du carter Posizione del riduttore Disposición del reductor Disposição do redutor						Motor / Motor / Motore Moteur / Motor / Motor											
	R10		R11		Ø D _{max}	g ₁			j ₁	IEC	Ø a ₁	R10		R11		Ø D _{max}	g ₁	j ₁	IEC	Ø a ₁						
	i ₆	i ₆	i ₆	i ₆								i ₆	i ₆													
14	28	—	182	698	Ø 350	*)	400	16	—	—	182	754	Ø 350	*)	400	182	754	Ø 350	*)	400						
						*)	350							*)	350											
						*)	300							*)	300											
			155	648	Ø 260	132 M/S	300				155	704	Ø 260	132 M/S	300		155	704	Ø 260	132 M/S	300	155	704	Ø 260	132 M/S	300
						112 M	250							112 M	250											
						100 L	200							100 L	200											
						90 L/S	200							90 L/S	200											
80	200	80	200																							
18	—	—	182	845	Ø 350	*)	550	20	—	—	182	899	Ø 350	*)	550	182	899	Ø 350	*)	550						
						*)	450							*)	450											
						*)	400							*)	400											
			815	Ø 350	180 M	350	815				Ø 350	180 M	350	815	Ø 350	180 M	350	815	Ø 350	180 M	350					
					160 L/M	300						160 L/M	300			160 L/M	300			160 L/M	300					
					132 M/S	300						132 M/S	300			132 M/S	300			132 M/S	300					
			155	765	Ø 260	*)	300				155	819	Ø 260	*)	300	155	819	Ø 260	*)	300	155	819	Ø 260	*)	300	
						112 M	250							112 M	250				112 M	250				112 M	250	
						100 L	200							100 L	200				100 L	200				100 L	200	
						90 L/S	200							90 L/S	200				90 L/S	200				90 L/S	200	
						80	200							80	200				80	200				80	200	
22	23	—	250	1050	Ø 494	*)	550	25	—	—	250	1108	Ø 494	*)	550	250	1108	Ø 494	*)	550						
						225 S	450							225 S	450				225 S	450	225 S	450				
						200 L	400							200 L	400				200 L	400	200 L	400				
			210	1020	Ø 354	180 L/M	350				210	1078	Ø 354	180 L/M	350		210	1078	Ø 354	180 L/M	350	210	1078	Ø 354	180 L/M	350
						160 L/M	300							160 L/M	300					160 L/M	300				160 L/M	300
						132 M/S	300							132 M/S	300					132 M/S	300				132 M/S	300
			990	Ø 300	112 M	250	990				Ø 300	112 M	250	990	Ø 300		112 M	250	990	Ø 300	112 M	250	990	Ø 300	112 M	250
100 L	200	100 L			200	100 L		200	100 L	200																
28	—	—	250	1183	Ø 494	250 M	550	31	—	—	250	1251	Ø 494	250 M	550	250	1251	Ø 494	250 M	550						
						225 M/S	450							225 M/S	450				225 M/S	450	225 M/S	450				
						200 L	400							200 L	400				200 L	400	200 L	400				
			210	1153	Ø 354	180 L/M	350				210	1221	Ø 354	180 L/M	350		210	1221	Ø 354	180 L/M	350	210	1221	Ø 354	180 L/M	350
						160 L	300							160 L	300					160 L	300				160 L	300
						132 M/S	300							132 M/S	300					132 M/S	300				132 M/S	300
			1123	Ø 300	*)	250	1123				Ø 300	*)	250	1123	Ø 300		*)	250	1123	Ø 300	*)	250				
35	—	—	360	1457	Ø 494	280 M/S	550	40	—	—	360	1534	Ø 494	280 M/S	550	360	1534	Ø 494	280 M/S	550						
						250 M	450							250 M	450				250 M	450	250 M	450				
						225 M/S	400							225 M/S	400				225 M/S	400	225 M/S	400				
			1390	Ø 404	180 L/M	350	1390				Ø 404	180 L/M	350	1390	Ø 404		180 L/M	350	1390	Ø 404	180 L/M	350				
					160 L	300						160 L	300				160 L	300			160 L	300				
42	—	—	360	1710	Ø 660	315 M/S	660	45	—	—	360	1776	Ø 660	315 M/S	660	360	1776	Ø 660	315 M/S	660						
						280 M/S	550							280 M/S	550				280 M/S	550	280 M/S	550				
						250 M	450							250 M	450				250 M	450	250 M	450				
			1680	Ø 494	225 M/S	400	1680				Ø 494	225 M/S	400	1680	Ø 494		225 M/S	400	1680	Ø 494	225 M/S	400				
					200 L	350						200 L	350				200 L	350			200 L	350				
					180 L	300						180 L	300				180 L	300			180 L	300				
47	—	—	360	1862	Ø 660	315 M/S	660				360	1776	Ø 660	315 M/S	660		1776	Ø 660	315 M/S	660						
						280 M/S	550							280 M/S	550				280 M/S	550	280 M/S	550				
						250 M/S	450							250 M/S	450				250 M/S	450	250 M/S	450				
			1765	Ø 404	200 L	400	1765				Ø 404	200 L	400	1765	Ø 404		200 L	400	1765	Ø 404	200 L	400				
					180 L	350						180 L	350				180 L	350			180 L	350				

*) Weitere Kupplungsgehäuse vorhanden / Other motor bell housings available / Ulteriori campane di accoppiamento sono disponibili
D'autres lanternes pour accouplement sont disponibles / Otras campanas de acoplamiento disponibles / Outras caixas de acoplamentos disponíveis

**) Größtmöglicher Kupplungsdurchmesser / Maximum diameter of coupling / Diametro massimo del giunto
Diametre d'accouplement maximal / Diámetro permitido máximo del acoplamiento / Diâmetro máximo possível do acoplamento

IR 4,0 x 4,5 x 30 W 3811 -	132462
AS 4,5 x 62 x 8 DIN 3760 -	137927
M 4,2 x 1,5 DIN 70852 -	1E
4,5 x 58 x 4,5 W 324,1 -	101246
903 - 502 -	221114
M 8 x 20 DIN 912 -	139724
32309 B DIN 720 -	139799
903 - 462 -	221137
M 16 x 4,5 DIN 912 -	101011
903 - 680 -	138707
901 - 0053 -	220446
95 x 110 x 3 M 13710 -	133798
Deckel 110 K 13805 -	355363
c	
110 x 4 DIN 472 -	101485
902 - 0213 -	220447

2940 C3 W 3840 -	131164
AS 200x230x15 DIN 3760 -	139822
931 - 0210 -	220980
A 4,5 x 25 x 280 DIN 6885 -	139926

931 - 0211 -	220981
4,35 - 0141 -	202372
M 16 x 4,5 ISO 4017 -	114287
B 4,5 x 25 x 119 DIN 6885 -	139769
220 x 5 DIN 471 -	135426
902 - 0531 -	220443

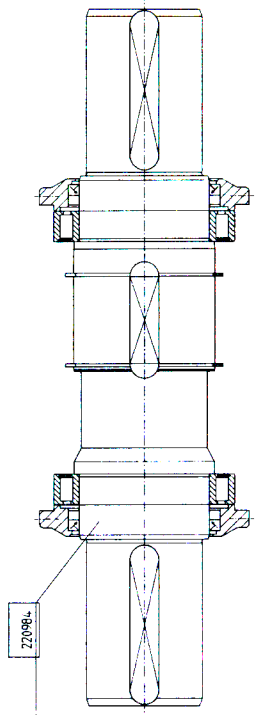
PLD 31

150 x 4 DIN 472 -	101497
130 x 150 x 3 M 13710 -	133200
b	
Deckel 150 K 13805 -	355365
730 - 6100 -	221004
32314 DIN 720 -	134358
901 -	139753
B 70 x 12 x 54 DIN 6885 -	139753
902 -	220442

190 x 4 DIN 472 -	101505
S 160 x 190 x 3,5 DIN 988 -	133361
B 78 x 16 x 89 DIN 6885 -	139759
901 - 0722 -	220441
Deckel 190 K 13805 -	?
32318 DIN 720 -	134358
902 - 0392 -	220442

928 - 0210 -	220982
B 4,0 x 22 x 119 DIN 6885 -	139766
928 - 0211 -	221110
M 16 x 4,5 ISO 4017 -	114287
195 x 4 DIN 471 -	133144

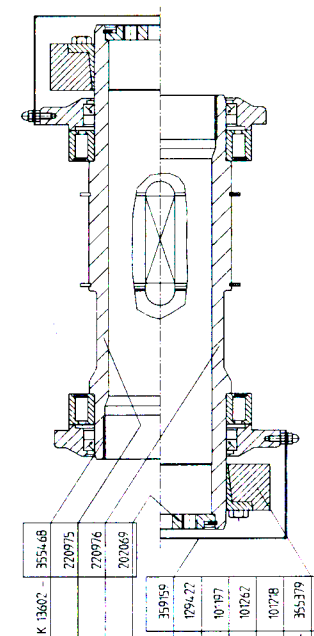
PLD 2c



928 - 0211 -	220984
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150 x 4 DIN 472 -	101497
730 - 7905 -	220598

928 - 0212 -	220977
4,30 - 3815 -	204421
M 8 x 16 DIN 7984 -	103990
A 8,2 DIN 6797 -	114170



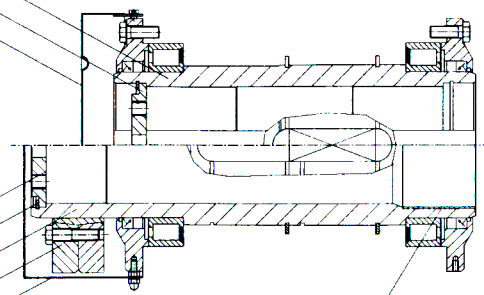
150 x 155 x 60 DU K 13602 -	355468
928 - 0213 -	220975
928 - 0213 -	220976
730 - 7905 -	202069

928 - 0218	359159
M 8 x 35 DIN 915 -	129422
M 8,50 4032 -	10197
B 8,4 DIN 125 -	101262
M 8 DIN 1587 -	10178
M 50 175 - 81 x 80 M 197/6 -	355379

Tightening torque
(8.8)
M 16 = 210 Nm

931 - 0212 -	220974
730 - 7905 -	221059
4,30 - 3815 -	204422
M 8 x 16 DIN 7984 -	103990
A 8,2 DIN 6797 -	114170
931 - 0241 -	221111
M 16 x 4,5 ISO 4017 -	100903

730 - 7905 -	202070
170 x 4 DIN 472 -	101503
931 - 0213 -	220973
200 - 71 K 19776 -	132311
931 - 0216 -	359160
M 8 x 35 DIN 915 -	129422
M 8 ISO 4032 -	101197
B 8,4 DIN 125 -	101262
M 8 DIN 1587 -	101218



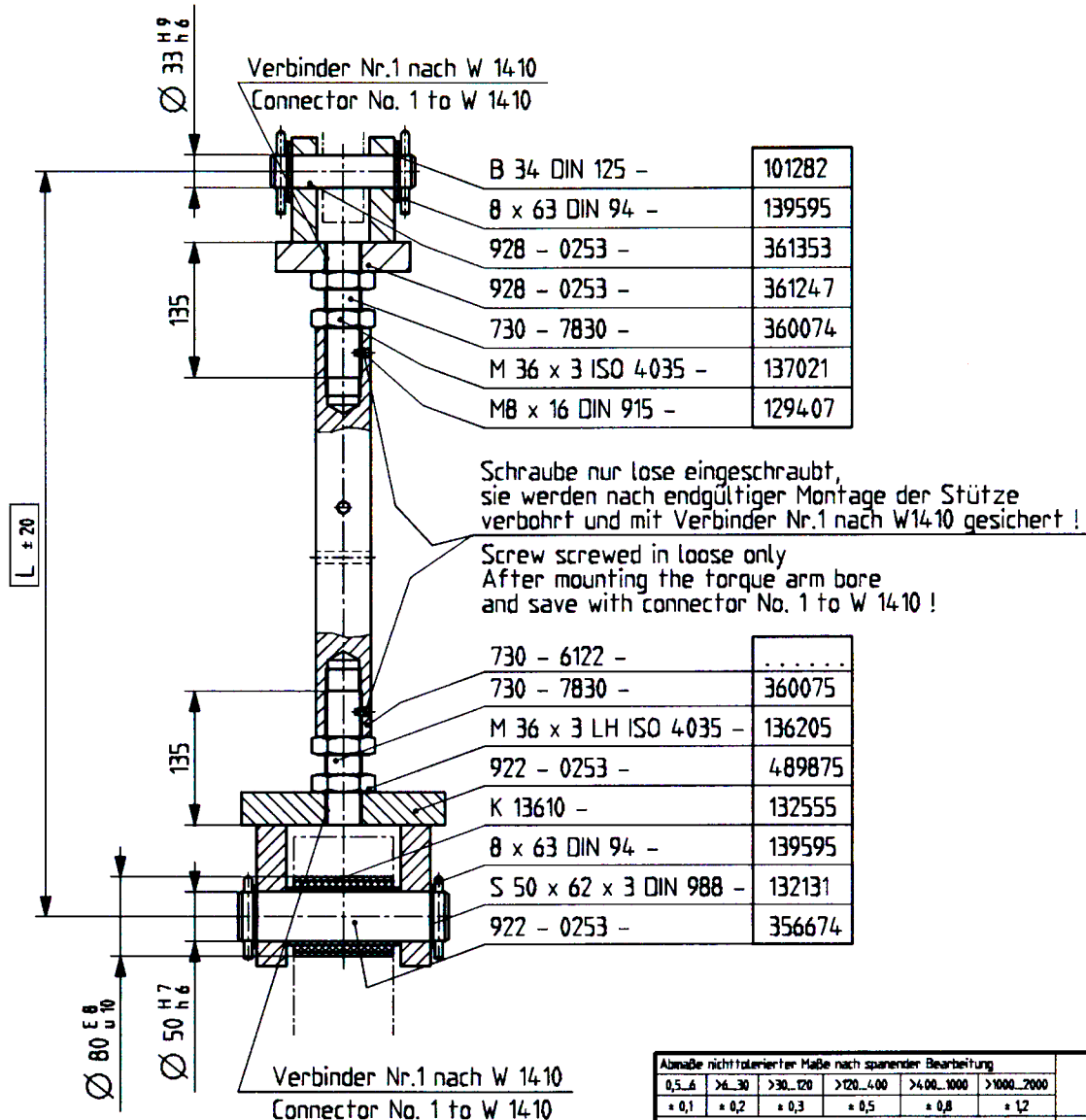
170x175x100 DU K 13602 - 134702

Axialspiel:
Axial clearance:
Kege rollerlager: 0,02 - 0,05
Taper roller bearing:
Zylinder rollerlager: 0,2 - 0,5
(Abtriebswelle)
Cylindrical roller bearing:
(Output shaft)

130 x 150 x 1,0 W 324,0 -	131203
130 x 150 x 0,5 W 324,0 -	103389
130 x 150 x 0,2 W 324,0 -	103388
130 x 150 x 0,1 W 324,0 -	103387
135 x 150 x 0,05 K 13710 -	133672

170 x 190 x 1,0 W 324,0 -	139955
170 x 190 x 0,5 W 324,0 -	139954
170 x 190 x 0,2 W 324,0 -	139953
170 x 190 x 0,1 W 324,0 -	139952
170 x 190 x 0,05 K 13710 -	139929

Axial clearance: Axial clearance: Kege rollerlager: 0,02 - 0,05 Taper roller bearing: Zylinder rollerlager: 0,2 - 0,5 (Abtriebswelle) Cylindrical roller bearing: (Output shaft)		96 x 110 x 1,0 W 324,0 131235 96 x 110 x 0,5 W 324,0 129450 96 x 110 x 0,2 W 324,0 103377 96 x 110 x 0,1 W 324,0 130299 100 x 110 x 0,05 K 13710 139927
b 130 x 150 x 1,0 W 324,0 131203 130 x 150 x 0,5 W 324,0 103389 130 x 150 x 0,2 W 324,0 103388 130 x 150 x 0,1 W 324,0 103387 135 x 150 x 0,05 K 13710 133672		c 170 x 190 x 1,0 W 324,0 139955 170 x 190 x 0,5 W 324,0 139954 170 x 190 x 0,2 W 324,0 139953 170 x 190 x 0,1 W 324,0 139952 170 x 190 x 0,05 K 13710 139929
d 170 x 175 x 100 DU K 13602 - 134702		e 170 x 175 x 100 DU K 13602 - 134702
f 170 x 175 x 100 DU K 13602 - 134702		g 170 x 175 x 100 DU K 13602 - 134702
h 170 x 175 x 100 DU K 13602 - 134702		i 170 x 175 x 100 DU K 13602 - 134702
j 170 x 175 x 100 DU K 13602 - 134702		k 170 x 175 x 100 DU K 13602 - 134702
l 170 x 175 x 100 DU K 13602 - 134702		m 170 x 175 x 100 DU K 13602 - 134702
n 170 x 175 x 100 DU K 13602 - 134702		o 170 x 175 x 100 DU K 13602 - 134702
p 170 x 175 x 100 DU K 13602 - 134702		q 170 x 175 x 100 DU K 13602 - 134702
r 170 x 175 x 100 DU K 13602 - 134702		s 170 x 175 x 100 DU K 13602 - 134702
t 170 x 175 x 100 DU K 13602 - 134702		u 170 x 175 x 100 DU K 13602 - 134702
v 170 x 175 x 100 DU K 13602 - 134702		w 170 x 175 x 100 DU K 13602 - 134702
x 170 x 175 x 100 DU K 13602 - 134702		y 170 x 175 x 100 DU K 13602 - 134702
z 170 x 175 x 100 DU K 13602 - 134702		aa 170 x 175 x 100 DU K 13602 - 134702
ab 170 x 175 x 100 DU K 13602 - 134702		ac 170 x 175 x 100 DU K 13602 - 134702
ad 170 x 175 x 100 DU K 13602 - 134702		ae 170 x 175 x 100 DU K 13602 - 134702
af 170 x 175 x 100 DU K 13602 - 134702		ag 170 x 175 x 100 DU K 13602 - 134702
ah 170 x 175 x 100 DU K 13602 - 134702		ai 170 x 175 x 100 DU K 13602 - 134702
aj 170 x 175 x 100 DU K 13602 - 134702		ak 170 x 175 x 100 DU K 13602 - 134702
al 170 x 175 x 100 DU K 13602 - 134702		am 170 x 175 x 100 DU K 13602 - 134702
an 170 x 175 x 100 DU K 13602 - 134702		ao 170 x 175 x 100 DU K 13602 - 134702
ap 170 x 175 x 100 DU K 13602 - 134702		aq 170 x 175 x 100 DU K 13602 - 134702
ar 170 x 175 x 100 DU K 13602 - 134702		as 170 x 175 x 100 DU K 13602 - 134702
at 170 x 175 x 100 DU K 13602 - 134702		au 170 x 175 x 100 DU K 13602 - 134702
av 170 x 175 x 100 DU K 13602 - 134702		aw 170 x 175 x 100 DU K 13602 - 134702
ax 170 x 175 x 100 DU K 13602 - 134702		ay 170 x 175 x 100 DU K 13602 - 134702
az 170 x 175 x 100 DU K 13602 - 134702		ba 170 x 175 x 100 DU K 13602 - 134702
bb 170 x 175 x 100 DU K 13602 - 134702		bc 170 x 175 x 100 DU K 13602 - 134702
bd 170 x 175 x 100 DU K 13602 - 134702		be 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		bg 170 x 175 x 100 DU K 13602 - 134702
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bf 170 x 175 x 100 DU K 13602 - 134702		bi 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		bj 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		bk 170 x 175 x 100 DU K 13602 - 134702
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bf 170 x 175 x 100 DU K 13602 - 134702		bn 170 x 175 x 100 DU K 13602 - 134702
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bf 170 x 175 x 100 DU K 13602 - 134702		bq 170 x 175 x 100 DU K 13602 - 134702
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bf 170 x 175 x 100 DU K 13602 - 134702		bt 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		bu 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		bv 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		bw 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		bx 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		by 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		bz 170 x 175 x 100 DU K 13602 - 134702
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bf 170 x 175 x 100 DU K 13602 - 134702		cn 170 x 175 x 100 DU K 13602 - 134702
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bf 170 x 175 x 100 DU K 13602 - 134702		cp 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		cq 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		cr 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		cs 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		ct 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		cu 170 x 175 x 100 DU K 13602 - 134702
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bf 170 x 175 x 100 DU K 13602 - 134702		cw 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		cx 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		cy 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		cz 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		da 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		db 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		dc 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		dd 170 x 175 x 100 DU K 13602 - 134702
bf 170 x 175 x 100 DU K 13602 - 134702		de 170 x 175 x 100 DU K 13602 - 134702



B 34 DIN 125 -	101282
8 x 63 DIN 94 -	139595
928 - 0253 -	361353
928 - 0253 -	361247
730 - 7830 -	360074
M 36 x 3 ISO 4035 -	137021
M8 x 16 DIN 915 -	129407

730 - 6122 -	
730 - 7830 -	360075
M 36 x 3 LH ISO 4035 -	136205
922 - 0253 -	489875
K 13610 -	132555
8 x 63 DIN 94 -	139595
S 50 x 62 x 3 DIN 988 -	132131
922 - 0253 -	356674

Abmaße nichttolerierter Maße nach spanender Bearbeitung					
0,5..6	>6..30	>30..120	>120..400	>400..1000	>1000..2000
± 0,1	± 0,2	± 0,3	± 0,5	± 0,8	± 1,2
Abmaße nichttolerierter Winkel					
Länge des kürzeren Schenkels	..10	>10..50	>50..120	>120..400	>400
Abmaße	± 1°	± 30'	± 20'	± 10'	± 5'
			Datum	Name	
			Bearb.	01.10.97	
			Gepr.		
			CAD	Abt.	Tel.
			Norm	KBA	375
			PIV Drives GmbH		
			Bad Homburg		
B. Nummer	Datum	Name			
Gehört zu:			KPL028 K.P.		

Maßstab:	1 : 5	Urheberschutz nach DIN 34 vorbehalten
Werkstoff:	()	
Rohrteil, Rohmaß:		
Drehmomentstütze		
Torque arm 28...31		
928-0253-G1		CAD
Ers.f.:		A 3



Spare parts list			05. Jan 2006
Customer job number: 10021077 Pos. 10			Wientges T.
Gear unit: KPLD28-R10-H12-280			page 1 of 5 pages
Spare part drawing: 928-1300-G1/1			
Spare parts list: 513392			
Gear number: 698699			

When ordering spare parts please state the serial number.

Parts-number	Identification	Norm	Quantity
100700	STUD M 16 X 35 -5.8	DIN 939	4
100703	STUD M 16 X 50 -5.8	DIN 939	4
100903	HEXAGON SCREW M16 X 40 -8.8	ISO 4017	1
100915	HEXAGON SCREW M 20 X 50 -8.8	ISO 4017	4
100916	HEXAGON SCREW M 20 X 55 -8.8	ISO 4017	2
101011	CYLINDRICAL SCREW M 16 X 45 -8.8	ISO 4762	4
101197	HEXAGON NUT M 8 -8	ISO 4032	4
101203	HEXAGON NUT M 16 -8	ISO 4032	4
101218	CAP NUT WITH DOME M 8 -6	DIN 1587	4
101226	EYE NUT M 20 -C15E	DIN 582	4
101236	SHIM 45 X 58 X 4,5	W 3241	1
101262	WASHER 8 -200HV	ISO 7090	4
101282	WASHER 33 -200HV	ISO 7090	2
101380	SPRING DOWEL 6 X 20 -ST	ISO 8752	2
101485	CIRCLIP 110 X 4	DIN 472	2
101497	CIRCLIP 150 X 4	DIN 472	3
101505	CIRCLIP 190 X 4	DIN 472	2
101638	SPRING WASHER A 16 -FST	DIN 128	4
102332	FITTED SCREW M 20 X 65 -10.9	DIN 610	2
102556	ROTARY SHAFT SEAL AS 45 X 62 X 8 -FPM	DIN 3760	1
102573	ROTARY SHAFT SEAL AS 180 X 210 X 15 -FPM	DIN 3760	2
103377	SHIM 96 X 110 X 0,2	W 3240	4
103387	SHIM 130 X 150 X 0,1	W 3240	1



Spare parts list			05. Jan 2006
Customer job number: 10021077 Pos. 10			Wientges T.
Gear unit: KPLD28-R10-H12-280			page 2 of 5 pages
Spare part drawing: 928-1300-G1/1			
Spare parts list: 513392			
Gear number: 698699			

When ordering spare parts please state the serial number.

Parts-number	Identification	Norm	Quantity
103388	SHIM 130 X 150 X 0,2	W 3240	2
103389	SHIM 130 X 150 X 0,5	W 3240	1
108860	LOCKING SCREW G 1 A -5.8	DIN 908	1
110637	WASHER 16 C	W 3082	1
110991	ROUND HEADED GROOVED DOWEL PIN 2 X 5 -A-ST-A2F	ISO 8746	4
112020	LOCKING SCREW G 1 1/4A -5.8	DIN 908	3
112152	JOINT WASHER A 42 X 49 BA-SA	DIN 7603	3
112685	JOINT WASHER A 33 X 39 BA-SA	DIN 7603	1
114287	HEXAGON SCREW M16 X 45 -8.8	ISO 4017	22
114361	JOINT WASHER A 13 X 20 BA-SA	W 3220	1
114681	KEY B 14 X 9 X 36	DIN 6885	1
123280	TAPER ROLLER BEARING 32310 -T2FD 050	DIN 720	2
127453	VENTING SCREW G 1/4 -IP55	W 3047	1
129422	SOCKED SET SCREW M 8 X 35 -45H	ISO 4028	4
129450	SHIM 96 X 110 X 0,5	W 3240	2
130299	SHIM 96 X 110 X 0,1	W 3240	2
131203	SHIM 130 X 150 X 1	W 3240	1
131235	SHIM 96 X 110 X 1	W 3240	2
131902	CYLINDRICAL ROLLER BEARING 2936 C3 FULL-TYPE	W 3840	2
132131	SUPPORTING DISK S 50 X 62 X 3	DIN 988	2
132462	INTERNAL RING IR 40 X 45 X 30 EGS	W 3811	1
132555	BUCHSE-0118095 50 X 80 X 100 X 110	K 13610	1
133144	CIRCLIP 195 X 4	DIN 471	2



Spare parts list

05. Jan 2006

Customer job number: 10021077 Pos. 10

Wientges T.

Gear unit: KPLD28-R10-H12-280

Spare part drawing: 928-1300-G1/1

Spare parts list: 513392

Gear number: 698699

page 3 of 5 pages

When ordering spare parts please state the serial number.

Parts-number	Identification	Norm	Quantity
133198	SHIM 95 X 110 X 3	W 3240	2
133200	SHIM 130 X 150 X 3	W 3240	2
133361	SUPPORTING DISK S 160 X 190 X 3,5	DIN 988	2
133672	SHIM 135 X 150 X 0,05	K 13710	1
134358	TAPER ROLLER BEARING 32314 -T2GD 070	DIN 720	2
135397	KEY B 12 X 8 X 100	DIN 6885	1
135683	LOCKING SCREW R 1 1/2 -ST	DIN 906	1
136205	HEXAGON NUT M 36 X 3 LI-04	ISO 8675	2
137021	HEXAGON NUT M 36 X 3 -04	ISO 8675	2
137332	SLOTTED ROUND NUT M 42 X 1,5	DIN 70852	1
138207	SHIM 180		1
138220	GASKET X 74	W 3226	1
138608	TAPER ROLLER BEARING 32318 -T2GD 090	DIN 720	2
139124	CYLINDRICAL SCREW M 8 X 20 -8.8	ISO 4762	4
139595	SPLIT PIN 8 X 63 -ST	ISO 1234	4
139753	KEY B 20 X 12 X 54	DIN 6885	1
139759	KEY B 28 X 16 X 89	DIN 6885	1
139766	KEY B 40 X 22 X 119 42CRMO4V	DIN 6885	1
139799	TAPER ROLLER BEARING 32309 B -T5FD 045	DIN 720	2
139892	T PLATE FOR HELICAL AND BEVEL GEAR UNITS	W 5013	1
139927	SHIM 100 X 110 X 0,05	K 13710	2
139929	SHIM 170 X 190 X 0,05	K 13710	1
139952	SHIM 170 X 190 X 0,1	W 3240	1



Spare parts list			05. Jan 2006
Customer job number: 10021077 Pos. 10			Wientges T.
Gear unit: KPLD28-R10-H12-280			page 5 of 5 pages
Spare part drawing: 928-1300-G1/1			
Spare parts list: 513392			
Gear number: 698699			

When ordering spare parts please state the serial number.

Parts-number	Identification	Norm	Quantity
337455	LOCKING SCREW G 1/4A/M 6		1
338891	DIP STICK 290		1
355363	COVER D = 110 B = 12 NBR	K 13805	2
355365	COVER D = 150 B = 15 NBR	K 13805	2
355369	COVER D = 190 B = 12 -NBR	K 13805	2
356674	BOLT 50 -8 -184		1
360074	STUD M 36 X 3 X 135		1
360075	STUD M 36 X 3LHX 135		1
361242	SYNTEX 50 TD2 RD40 ROTEX GS48	M 17670	1
361247	FORK HEAD 28		1
361353	BOLT 33 -8 -116		1
361354	BOLT 820 M36/36		1
363341	PROTECTION COVER 28H		1
463741	GROUP BEVEL GEAR 400		1
489875	FORK HEAD		1
1101485	SERVICEPAK. SYNTEX 50 TD2 ROTEX GS 48	K 17670	1



Spare parts list

Customer job number: 10021077 Pos. 10

Gear unit: KPLD28-R10-H12-280

Spare part drawing: 928-1300-G1/1

Spare parts list: 513392

Gear number: 698699

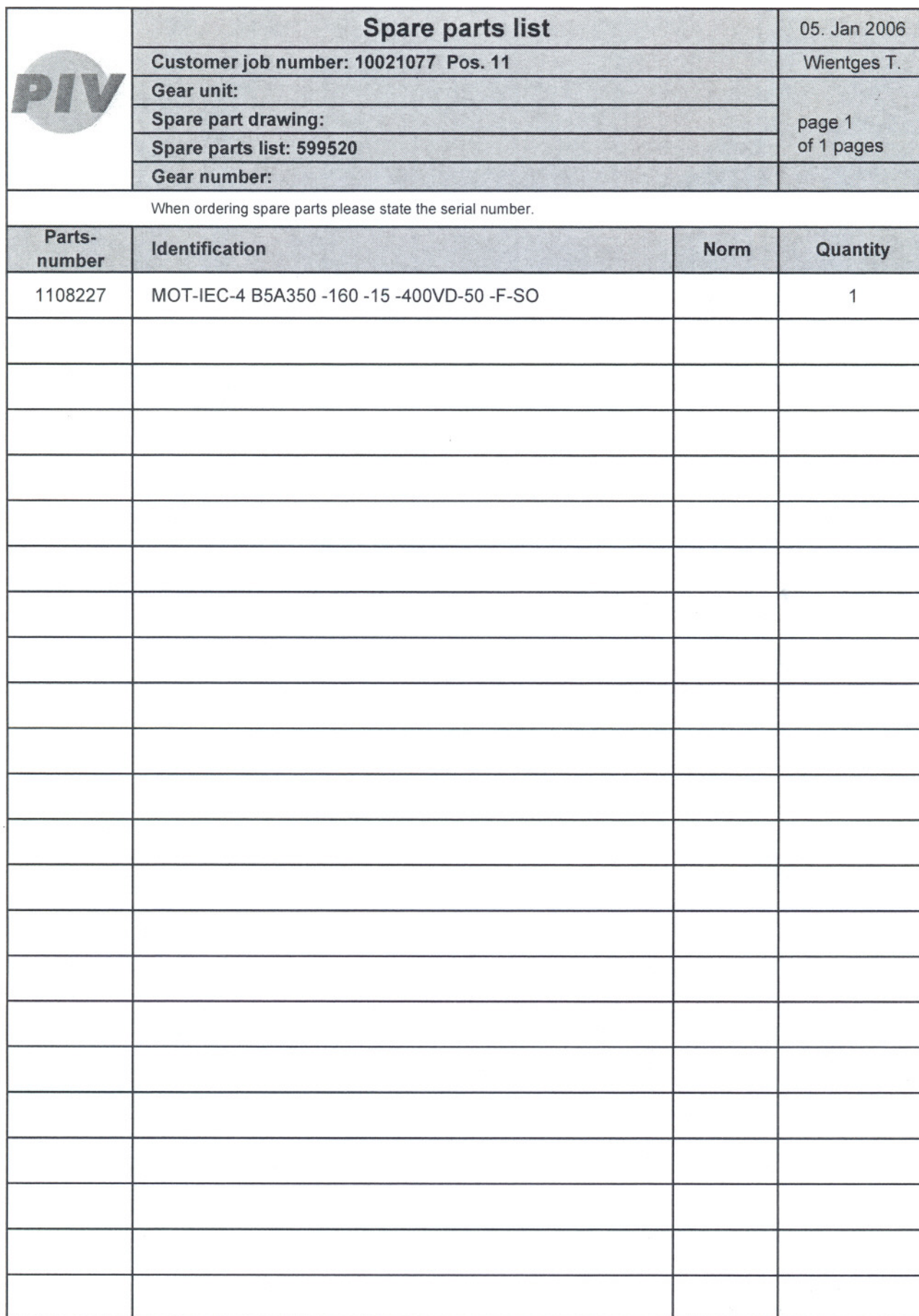
05. Jan 2006

Wientges T.

page 4 of 5 pages

When ordering spare parts please state the serial number.

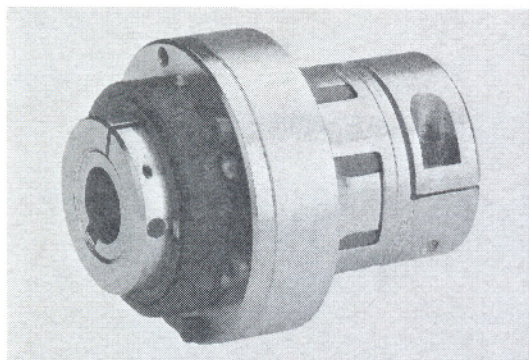
Parts-number	Identification	Norm	Quantity
139953	SHIM 170 X 190 X 0,2	W 3240	2
139954	SHIM 170 X 190 X 0,5	W 3240	1
139955	SHIM 170 X 190 X 1	W 3240	1
150001	BUSH 50,1 X 60 X 17		1
175719	INTERMEDIATE FLANGE LL22		1
202038	RING 40,1 X 50 X 3		1
203243	BEARING COVER C		2
206927	BUSH 50 X 61,9 X 28		1
220136	HELICAL GEAR 71 -4,5		1
220141	INTEGRAL PINION SHAFT 14 - 4,5		1
220146	INTEGRAL PINION SHAFT 15 - 3,5		1
220147	HELICAL GEAR 68 - 3,5		1
220441	INTEGRAL PINION SHAFT 15 -8		1
220442	HELICAL GEAR 48 -8		1
220977	HOLLOW SHAFT NOTE		1
221004	BEARING SLEEVE 50 -70		1
221058	WASHER GR.135/27		1
221107	INSPECTION COVER 28		1
221114	COVER		1
221137	BEARING HOUSING 131R		1
221153	HOUSING K350		1
221207	HOUSING PLD28 -R1/A1		1
335365	BUSH 40,1 X 50 X 50		1



SYNTEX[®] backlash-free, torsionally stiff overload system

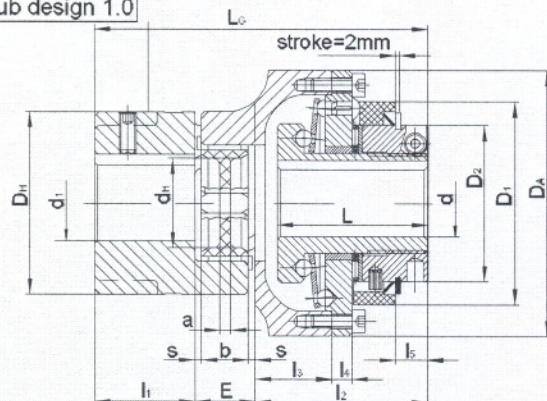


With Shaft Coupling ROTEX[®] GS

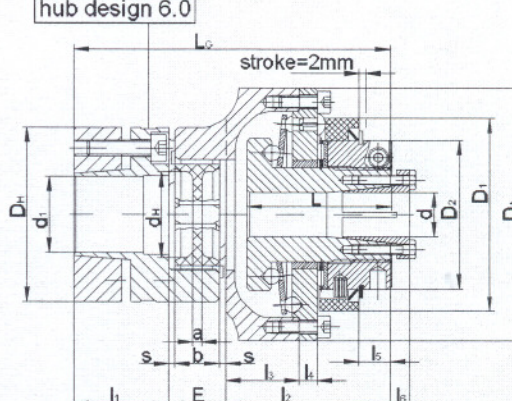


- backlash-free, torsionally stiff shaft connection with overload protection
- low mass moments of inertia
- overload torque to be adjusted when assembled
- drive to be disengaged by limit switch or sensor
- shaft-hub-connection by feather key or frictionally engaged clamping connection (e. g. for servo drives)

hub design 1.0



hub design 6.0



SYNTEX® size	ROTEX® GS size	Torques [Nm]							Dimensions [mm]																			
		SYNTEX® torque range disk spring		ROTEX® GS spider				max. bore		D _A	D ₁	D ₂	D _H	d ₁	E	b	s	a	L	L ₀	I ₁	I ₂	I ₃	I ₄	I ₅	I ₆		
				92 Sh A-GS		98 Sh A-GS																						
				TD1	TD2	T _{1/N}	T _{1max}																				T _{2/N}	T _{2max}
20	24/28	6-20	15-30	35	70	60	120	28	20	80	61	47	55	27	18	14	2	3	45	100	30	52	23	6	10	8		
25	28/38	20-60	45-90	95	190	160	320	38	25	98	78	60	65	30	20	15	2,5	4	50	113	35	58	25	8	11	8		
35	38/45	25-80	78-150	190	380	325	650	45	35	120	90	70	80	38	24	18	3	4	60	136	45	67	28,5	10	13	10		
50	48	60-180	175-300	310	620	525	1050	62	50	162	120	98	105	51	28	21	3,5	4	70	167	56	83	38	13	14	10		

ROTEX [®] GS size	Torques to transmit by the frictionally engaged ROTEX [®] GS clamping ring hub [Nm]													
	bore diameter of clamping ring hub [mm]													
	15	16	19	20	24	28	30	32	35	38	40	42	45	48
24 / 28	60	69	93	102	111	120								
28 / 38			195	176	238	254	283	316	310	361				
38 / 45				254	339	361	404	448	443	513	554	602		
48											863	1036	1155	1067

SYNTEX [®] size	Torques to transmit by the frictionally engaged SYNTEX [®] clamping ring hub [Nm]																
	bore diameter of clamping ring hub [mm]																
	8	10	12	14	15	16	19	20	24	25	28	30	32	35	38	40	42
20	20	31	44	61													
25				73	84	96	135	150									
35				87	100	114	161	178	257	279	350						
50									244	265	333	382	435	520	613	680	750

Example of order:

SYNTEX [®]	25	TD1	ø 20	ROTEX [®] GS	28/38	98Sh A-GS	6.0	ø 24
coupling type	size	disk spring	bore	coupling type	size	spider	hub design	bore



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5 Enclosure A

Hints and instructions regarding the use in  hazardous areas

5.6 Breakdowns, Causes and Elimination

breakdowns	causes	danger hints for hazardous areas	elimination
change of the running noises and / or occurring vibrations	misalignment	increased temperature the the spider surface; danger of ignition by hot surfaces	1) put the unit out of operation 2) eliminate the reason for the misalignment (e. g. loose foundation bolts, break of the engine fixing, heat expansion of unit components, change of the assembly dimension E of the coupling) 3) checking of wear see under point Control
	wear of spider, short-term torque transmission due to metal contact	danger of ignition due to sparking	1) put the unit out of operation 2) disassemble the coupling and remove rests of the spider 3) check coupling parts and exchange damaged coupling parts 4) insert spider, assemble coupling parts 5) check alignment, correct if necessary
	loose screws for axial securement of hubs	danger of ignition due to hot surfaces and sparking	1) put the unit out of operation 2) check alignment of coupling 3) tighten the screws to secure the hubs and secure against self-loosening 4) checking of wear see under point Control
break of cam	wear of spider, torque transmission due to metal contact	danger of ignition due to sparking	1) put the unit out of operation 2) change complete coupling 3) check alignment
	break of the cams due to high shock energy / overload	danger of ignition due to sparking	1) put the unit out of operation 2) change complete coupling 3) check alignment 4) find out the reason of overload
	operating parameters do not correspond to the performance of the coupling	danger of ignition due to sparking	1) put the unit out of operation 2) check the operating parameters and select a larger coupling (consider installation space) 3) assemble new coupling size 4) check alignment
	mistake in service of the unit	danger of ignition due to sparking	1) put the unit out of operation 2) change complete coupling 3) check alignment 4) instruct and train the service staff
premature wear of spider	misalignment	increased temperature the the spider surface; danger of ignition by hot surfaces	1) put the unit out of operation 2) eliminate the reason for the misalignment (e. g. loose foundation bolts, break of the engine fixing, heat expansion of unit components, change of the assembly dimension E of the coupling) 3) checking of wear see under point Control



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5 Enclosure A

Hints and instructions regarding the use in  hazardous areas

5.6 Breakdowns, Causes and Elimination

breakdowns	causes	danger hints for hazardous areas	elimination
premature wear of spider	e. g. contact with aggressive liquids / oils, ozone-influence, too high ambient temperatures etc. effecting a physical change of the spider	danger of ignition due to sparking in case of metallic contact of the cams	1) put the unit out of operation 2) disassemble the coupling and remove rests of the spider 3) check coupling parts and exchange damaged coupling parts 4) insert spider, assemble coupling parts 5) check alignment, correct if necessary 6) make sure that further physical changes of the spider are excluded
	ambient / contact temperatures which are too high for the spider, max. permissible -20 °C / +80 °C	danger of ignition due to sparking in case of metallic contact of the cams	1) put the unit out of operation 2) disassemble the coupling and remove rests of the spider 3) check coupling parts and exchange damaged coupling parts 4) insert spider, assemble coupling parts 5) check alignment, correct if necessary 6) check and regulate ambient / contact temperature (eventually even elimination by using other spider materials)
premature wear of spider (liquefaction of material inside the spider cam)	drive vibrations	danger of ignition due to sparking in case of metallic contact of the cams	1) put the unit out of operation 2) disassemble the coupling and remove rests of the spider 3) check coupling parts and exchange damaged coupling parts 4) insert spider, assemble coupling parts 5) check alignment, correct if necessary 6) find out the reason for the vibrations (eventually elimination by spider with lower or higher shore hardness)



ATTENTION !

KTR does not assume any liabilities or guarantees regarding the use of spare parts and accessories which are not provided by KTR and for the damages resulting herefrom.

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	Geprüft: 17.01.03 Sha	Ersetzt durch:	W	K	V	VA		M