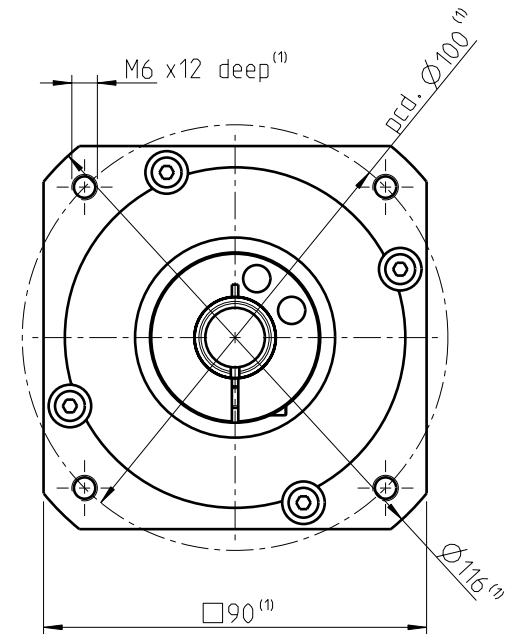
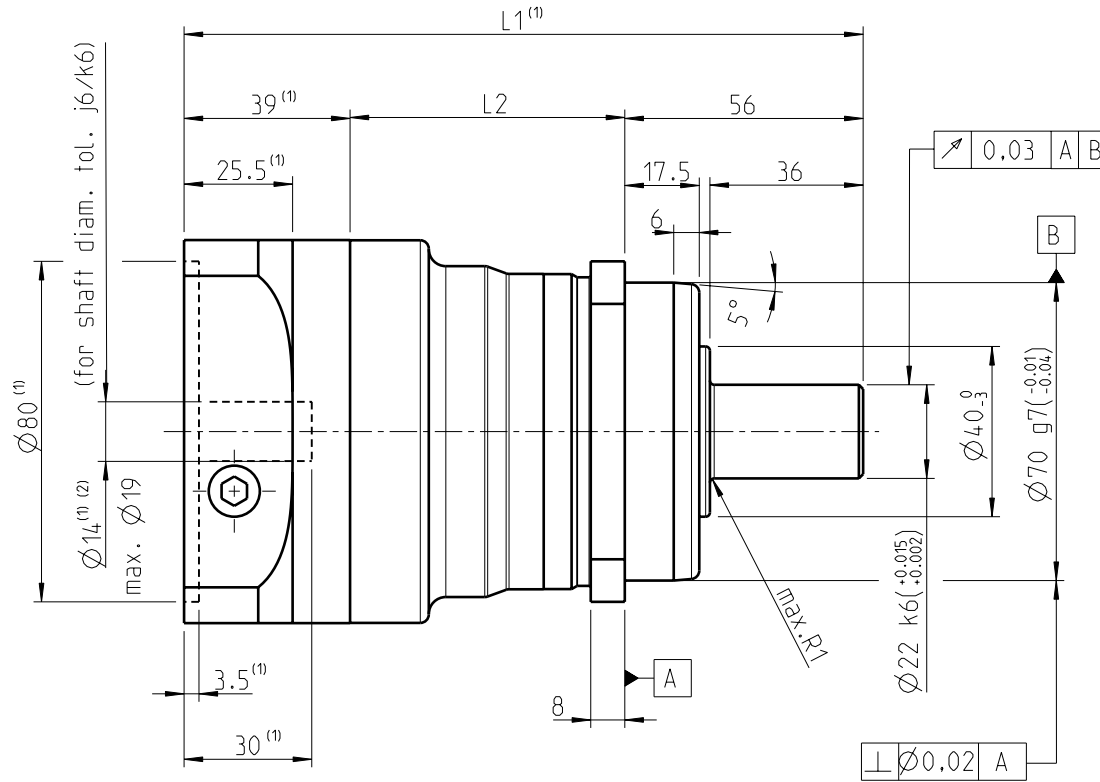
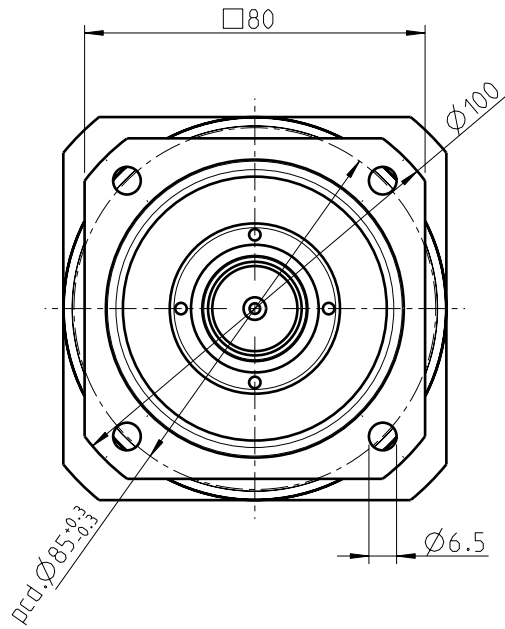



(1)	measurements depend on the motor	
(2)	standard-motor shaft \varnothing	dimensional drawing no.
	9.525/10/11/12/12.7/14/16/19	MB-1555
	24	MB-1556



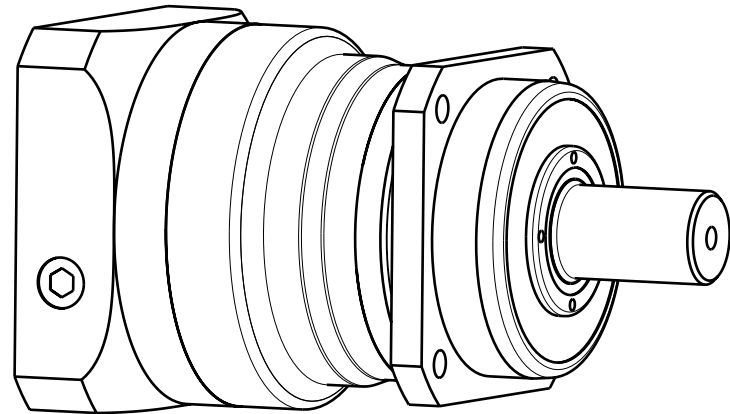
	1-stage	2-stage
L1	159.5	191.5
L2	64.5	96.5

material:
input flange: aluminium - untreated
output flange: steel - black
housing: steel - black


modification reserved!
consider motor fitting instructions!

		general tolerance 2768-cl	scale: 4:5	DIN A3	ISO	
						data sheet PLN 90 uni flange with adapter
h		date	name			
g		Auth. 07.01.09	Burger			
f		Aud. 07.01.09	Bühler			
e		Rel. 07.01.09	Leser			
d						
c						
b						
a						
stat.	change	date	nam.	Neugart GmbH Keltenstrasse 16 D - 77971 Kippenheim	Draw.-No.: MB - 1555 Part.-No.: Ident.-No.:	sheet 1 2 sh.
			date:	name:		

technical data		
planetary gearbox - toothing		straight toothing
life time	h	20.000
life time at $T_{2N} \times 0,88$	h	30.000
output shaft bearing		tapered roller bearing
sealing		radial sealing
degree of protection		IP 65
lubrication		Life Lubrication
operating temperature	°C	-25 / +90
motor mounting		M2 (supported input pinion)
operating mode		S1
operating factor		cB=1
max. perm. motor weight	kg	15
reference speed for calculation of bearing life time (n_2)	min ⁻¹	100
max. perm. axial load for output shaft bearing relating to middle of the shaft L10h/Fr=0/20.000h	N	6400
max. perm. radial load for output shaft bearing relating to middle of the shaft L10h/Fa=0/20.000h	N	5500
max. perm. axial load for output shaft bearing relating to middle of the shaft L10h/Fr=0/30.000h	N	5700
max. perm. radial load for output shaft bearing relating to middle of the shaft L10h/Fa=0/30.000h	N	4800
max. perm. radial load relating to middle of the shaft	N	8000
mounting position		any
motor flange precision		DIN 42955-R
shaft diameter tolerance		j6/k6
min. motor shaft length	mm	23
tightening torque of the clamping screw	Nm	9,5



ratios technical data		1-stage					2-stage									
		3	4	5	8	10	12	15	16	20	25	32	40	64	100	
ratio		3	4	5	8	10	12	15	16	20	25	32	40	64	100	
output torque T_{2N}	Nm	100	140	140	80	60	110	110	150	150	140	150	140	80	60	
max. output torque T_{2max} for 30.000 revolutions at the output shaft	Nm	160	224	224	128	96	176	176	240	240	224	240	224	128	96	
emergency stop 1000 times allowed	Nm	200	280	280	160	120	220	220	300	300	280	300	280	160	120	
max. backlash relating to output shaft	arcmin	3					5									
efficiency at T_{2N} reference temperature 70°C	%	98	98	98	97	96	95	95	95	95	95	95	95	90	80	
mechanical boundary speed (n_1) allowed operating temperature must be kept	min ⁻¹	10.000														
thermal boundary speed (n_1): at 50% T_{2N} and S1 allowed operating temperature must be kept	min ⁻¹	2800	2900	3400	5700	6000	4900	5650	4900	5650	6000	6000	6000	6000	6000	
thermal boundary speed (n_1): at 100% T_{2N} and S1 at 100% T_{2N} allowed operating temperature must be kept	min ⁻¹	2000	1900	2300	4400	5650	3650	4250	3550	4150	4800	5650	6000	6000	6000	
inertia rel. to output torque at motor shaft diameter d=14	kgcm ²	1,01	0,78	0,68	0,59	0,57	1,02	0,95	0,89	0,82	0,76	0,77	0,70	0,63	0,59	
idle running torque at $n_1=3000$ und 20°C gear box temperature	Nm	1,0	0,8	0,6	0,4	0,4	0,4	0,4	0,4	0,3	0,3	0,3	0,3	0,3	0,2	
breakaway torque at $n_1=0$ und 20°C gear box temperature	Nm	0,20	0,20	0,10	0,10	0,10	0,1									
weight with standard flange	kg	3,3					4,2									
torsional stiffness	Nm/arcmin	9					10									
running noise at $n_1=3000$ without load at a distance of 1m	dB(A)	66	63	60	60	60	60	60	60	60	60	60	60	60	60	

	
data sheet PLN 90 uni flange with adapter	
MB-1555	sheet 2/2
07.01.2009	Index:

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