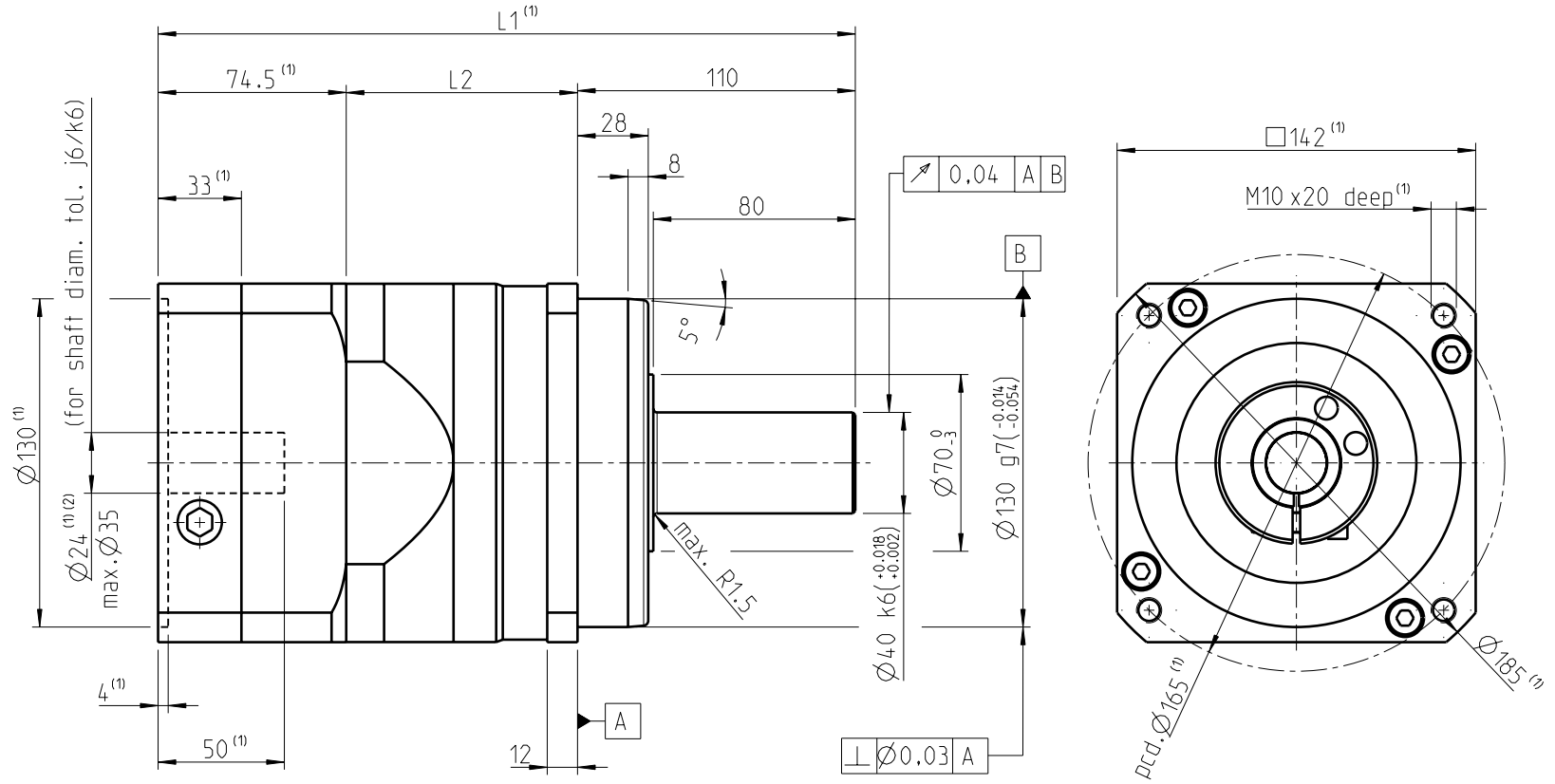
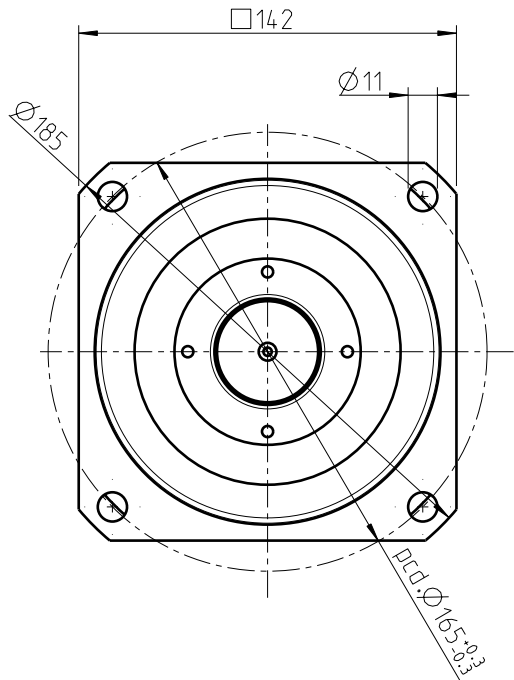


(1)	Measurements depend on the motor	
(2)	standard-motor shaft- \varnothing	dimensional drawing no.
	19/24/28/32/35	MB-1561
	38/42	MB-1562




	1-stage	2-stage
L1	276	335
L2	91.5	150.5

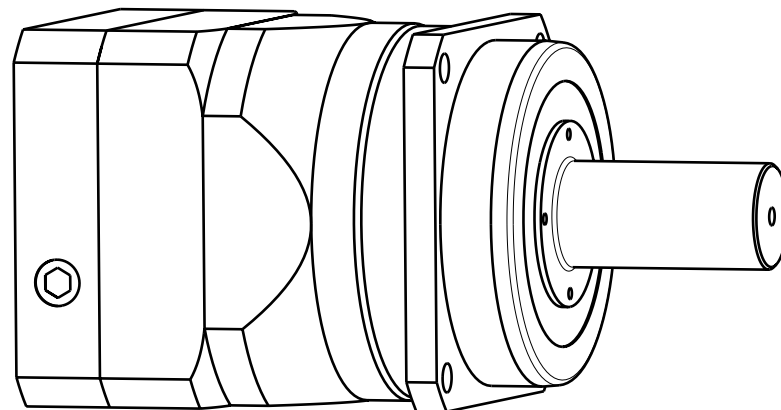
material:
input flange: aluminium
housing: steel / cast - black

consider motor fitting instructions!

modification reserved!


		general tolerance 2768-cl		scale: 3:10		DIN A3		ISO	
		date		name		data sheet PLN 142 universal flange and adapter plate			
h		Auth.	20.10.08	Burger					
g		Aud.	20.10.08	Bühler					
f		Rel.	20.10.08	Leser					
e									
d									
c									
b									
a									
stat	change	date	nam.	Neugart GmbH Keltenstrasse 16 D - 77971 Kippenheim		Draw.-No.: MB - 1561 Part.-No.: Ident-No.:		sheet 1 2 sh.	
				date:		name:			

technical data		
planetary gearbox - toothing		straight toothed
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	50
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	15000
max. perm. radial load for output shaft bearing relating to middle of the shaft L10h/Fr=0/20.000h	N	12500
max. perm. axial load for output shaft bearing relating to middle of the shaft L10h/Fr=0/30.000h	N	13200
max. perm. radial load for output shaft bearing relating to middle of the shaft L10h/Fr=0/30.000h	N	11400
max. perm. radial load relating to middle of the shaft	N	18000
mounting position		any
motor flange precision		DIN 42955-R
shaft diameter tolerance		j6/k6
min. motor shaft length	mm	32
tightening torque of the clamping screw	Nm	40



ratios technical data		1-stage					2-stage																		
		3	4	5	8	10	12	15	16	20	25	32	40	64	100										
ratio																									
output torque T_{2N}	Nm	450	600	750	450	305	780	780	1000	1000	900	1000	900	450	305										
max. output torque T_{2max} for 30.000 revolutions at the output shaft	Nm	720	960	1200	720	488	1248	1248	1600	1600	1440	1600	1440	720	488										
emergency stop 1000 times allowed	Nm	900	1200	1500	900	610	1560	1560	2000	2000	1800	2000	1800	900	610										
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	95	90	83									
mechanical boundary speed (n_1) allowed operating temperature must be kept	min ⁻¹	6500																							
thermal boundary speed (n_1): at 50% T_{2N} and S1 allowed operating temperature must be kept	min ⁻¹	1300	1350	1400	2500	3250	2000	2300	1850	2150	2550	2900	3350	4500	4500										
thermal boundary speed (n_1): at 100% T_{2N} and S1 at 100% T_{2N} allowed operating temperature must be kept	min ⁻¹	900	850	900	1750	2500	1300	1550	1150	1400	1750	1950	2400	3950	4500										
inertia rel. to output torque an motor shaft diameter d=14	kgcm ²	16.77	12.16	10.31	8.73	8.35	16.72	15.19	14.52	13.05	11.89	11.92	10.79	9.39	8.76										
idle running torque at $n_1=3000$ und 20°C gear box temperature	Nm	4.92	3.36	2.62	1.68	1.42	1.96	1.62	1.80	1.50	1.44	1.14	1.10	1.06	0.96										
breakaway torque at $n_1=0$ und 20°C gear box temperature	Nm	0.60	0.53	0.48	0.42	0.39	0.38	0.37	0.36	0.35	0.34	0.33	0.32	0.32	0.32										
weight with standard flange	kg	16					20,5																		
torsional stiffness	Nm/arcmin	44					46																		
running noise at $n_1=3000$ without load at a distance of 1m	dB(A)	74	71	68	68	68	68	68	68	68	68	68	68	68	68										

modification reserved!

	
data sheet PLN 142 universal flange + adapter plate	
MB-1561	sheet 2/2
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