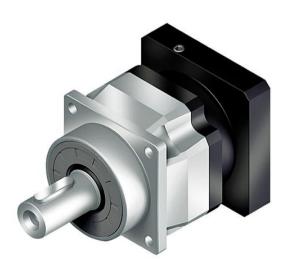


AF und AFR Planetengetriebe







AF Planetengetriebe

Technische Daten

Einfache Montage

Geringes Laufgeräusch

Schutzklasse IP 65 (optional IP67 bei AE)

Kompakte Bauweise

Große Radiallast

Nenn-Abtriebsdrehmoment

T2N: 14 – 2000 Nm

Untersetzungen

1-stufig: 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10

2-stufig:15 / 20 / 25 / 30 / 35 / 40 / 45 / 50 / 60 / 70 / 80 /

90 / 100

Geringes Verdrehspiel

1-stufig:

≤ 1 Winkelminuten (P0)

≤ 3 Winkelminuten (P1)

≤ 5 Winkelminuten (P2)

2-stufig:

≤ 3 Winkelminuten (P0)

≤ 5 Winkelminuten (P1)

≤ 7 Winkelminuten (P2)

Hoher Wirkungsgrad

1-stufig:≥ 97%

2-stufig:≥ 94%

Arbeitstemperatur

-10°C bis 90°C mit Standardfett

Baugrößen

AF 042 / AF 060 / AF 060A / AF 075 / AF075A / AF 100 /

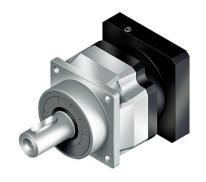
AF 140 / AF 180 / AF 220

Verwendung

Werkzeugmaschinen, Textilmaschinen,

Verpackungsmaschinen, Handhabungssysteme,

Druckmaschinen





AFR Winkelplanetengetriebe

Technische Daten

Einfache Montage Geringes Laufgeräusch Schutzklasse IP 65

Kompakte Bauweise

Nenn-Abtriebsdrehmoment

T2N: 8 - 459 Nm

Untersetzungen

1-stufig: 3 / 4 / 5 / 7 / 8 / 9 / 10 / 14 / 20

2-stufig:15* / 20* / 25 / 30 / 35 / 40 / 45 / 50 / 60 / 70 / 80

/ 90 / 100 / 120 / 140 / 160 / 180 / 200

Geringes Verdrehspiel

1-stufig:

≤ 2 Winkelminuten (P0)

≤ 4 Winkelminuten (P1)

≤ 6 Winkelminuten (P2)

2-stufig:

≤ 4 Winkelminuten (P0)

≤ 7 Winkelminuten (P1)

≤ 9 Winkelminuten (P2)

Hoher Wirkungsgrad

1-stufig:≥ 95%

2-stufig:≥ 92%

Arbeitstemperatur

-10°C bis 90°C mit Standardfett

Baugrößen

AFR 042* / AFR 060 / AFR 090 / AFR 115 / AFR 142 / AFR 180 / AFR 220

Verwendung

Gleiches Einsatzspektrum wie bei Planetengetrieben (Werkzeugmaschinen, Textilmaschinen, Verpackungsmaschinen, Handhabungssysteme, Druckmaschinen, usw.) jedoch mit eingeschränktem Bauraum

* nur das AFR042 bietet Untersetzung 15 und 20 in 2stufiger Ausführung





AF Spezifikationen

Gearboy Performance

Gearbox Perforr Model No.	Hance	Stage	Ratio ^A	AF042	AF060	AF060A	AF075	AF075A	ΛΕ100	AF100A	AF140	AF140A	AF180	AF220
Wodel No.		Otage	3	20	55		130	-	208		342	-	588	1,140
			4	19	50	_	140	_	290	_	542	_		1,700
			5	22	60	_	160	_	330	_	650	_	-	2,000
			6	20	55	_	150	_	310	_	600	_	-	1,900
		1	7	19	50	_	140	_	300	_	550	_	1,100	1,800
			8	17	45	_	120	_	260	_	500	_	1,000	1,600
			9	14	40	_	100	_	230	_	450	_	900	1,500
			10	14	40	_	100	_	230	_	450	_	900	1,500
			12	19	50	50	140	140	290	290	542	542	1,050	1,700
Nominal Output Torque T _{2N}			15	20	55	55	130	130	208	208	342	342	588	1,140
	NIma		16	19	50	50	140	140	290	290	542	542	1,050	1,700
	Nm		20	19	50	50	140	140	290	290	542	542	1,050	1,700
			25	22	60	60	160	160	330	330	650	650	1,200	2,000
			28	19	50	50	140	140	300	300	550	550	1,100	1,800
		2	30	20	55	55	150	150	310	310	600	600	1,100	1,900
			32	17	45	45	120	120	260	260	500	500	1,000	1,600
			35	19	50	50	140	140	300	300	550	550	1,100	1,800
			40	17	45	45	120	120	260	260	500	500	1,000	1,600
			45	14	40	40	100	100	230	230	450	450	900	1,500
			50	22	60	60	160	160	330	330	650	650	1,200	2,000
			60	20	55	55	150	150	310	310	600	600	1,100	1,900
			70	19	50	50	140	140	300	300	550	550	1,100	1,800
			80	17	45	45	120	120	260	260	500	500	1,000	1,600
			90	14	40	40	100	100	230	230	450	450	900	1,500
			100	14	40	40	100	100	230	230	450	450	900	1,500
Emergency Stop Torque T _{2NOT} ^B	Nm	1,2	3~100		3 times of Nominal Output Torque									
Nominal Input Speed n _{1N}	rpm	1,2	3~100	5,000	5,000	5,000	4,000	4,000	4,000	4,000	3,000	3,000	3,000	2,000
Max. Input Speed n ₁₈	rpm	1,2	3~100	10,000	10,000	10,000	8,000	8,000	8,000	8,000	6,000	6,000	6,000	4,000
Micro Backlash P0		1	3~10	-	_	_	≤1	-	≤1	-	≤1	_	≤1	≤1
IVIICIO BACKIASTI PO	arcmin	2	12~100	_	_	-	-	-	≤3	≤3	≤3	≤3	≤3	≤3
Reduced Backlash P1	oromin	1	3~10	≤3	≤3	-	≤3	_	≤3	_	≤3	_	≤3	≤3
Neduced Backlasii Fi	arcmin	2	12~100	≤5	≤5	≤5	≤5	≤5	≤5	≤5	≤5	0 3,000 3,000 2,000 0 6,000 6,000 4,000 - ≤1 ≤1 ≤3 ≤3 ≤3 - ≤3 ≤3 ≤5 ≤5 ≤5		
Standard Backlash P2	arcmin	1	3~10	≤5	≤5	-	≤5	_	≤5	-	≤5	-	≤5	≤5
	arcitiiii	2	12~100	≤7	≤7	≤7	≤7	≤7	≤7	≤7	≤7	≤7	≤7	≤7
Torsional Rigidity	Nm/arcmin	1,2	3~100	3	7	7	14	14	25	25	50	50	145	225
Max. Radial Load F _{2rB} ^C	N	1,2	3~100	610	1,400	1,400	4,100	4,100	9,200			14,000		
Max. Axial Load F _{2aB} ^C	N	1,2	3~100	320	1,100	1,100	3,700	3,700	5,820	5,820	11,400	11,400	19,500	16,300
Service Life ^D	hr	1,2	3~100						30,000	1				
Efficiency n	%	1	3~10						≥97%					
Efficiency [/0	2	12~100						≥94%					
Weight	kg	1	3~10	0.6	1.3	_	3.7	_	6.9	_	13.7	_	28	48
	_	2	12~100	0.8	1.5	2	4.1	5.5	8.1	10.6	16.6	20.2	33	60
Operating Temp	°C	1,2	3~100						C~90°C					
Lubrication	1,2 3~100 Synthetic lubrication oils													
Degree of Gearbox Protection		1,2	3~100						IP65					
Mounting Position		1,2	3~100					all	direction	ons				
Noise (n ₁ =3000rpm, i=10, No load) ^E	dB(A)	1,2	3~100	≤56	≤58	≤60	≤60	≤63	≤63	≤65	≤65	≤67	≤67	≤70

A. Ratio ($i=N_{in}/N_{out}$) B. Max. acceleration torque $T_{2B}=60\%$ of T_{2NOT}

C. Applied to the output shaft center at 100 rpm

D. For continuous operation, the service life time is less than 15,000 hrs

E. These values are measured by gearbox with ratio = 10 (1-stage) or ratio = 100 (2-stage) at 3,000 rpm no loading.
 By lower ratio and/or higher RPM, the noise level could be 3 to 5 dB higher

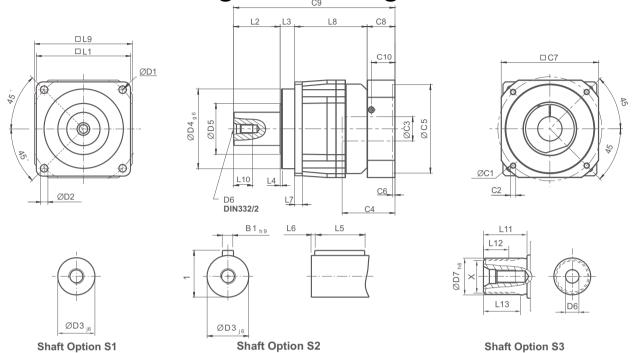


Massenträgheitsmoment AF

Wassentragnerismoment Ar														
Model No.		Stage	Ratio	AF042	AF060	AF060A	AF075	AF075A	AF100	AF100A	AF140	AF140A	AF180	AF220
			3	0.03	0.16	_	0.61	-	3.25	_	9.21	-	28.98	69.61
			4	0.03	0.14	-	0.48	-	2.74	_	7.54	-	23.67	54.37
			5	0.03	0.13	_	0.47	_	2.71	_	7.42	_	23.29	53.27
		4	6	0.03	0.13	_	0.45	-	2.65	-	7.25	-	22.75	51.72
		1	7	0.03	0.13	-	0.45	-	2.62	-	7.14	_	22.48	50.97
			8	0.03	0.13	_	0.44	_	2.58	_	7.07	_	22.59	50.84
			9	0.03	0.13	_	0.44	-	2.57	-	7.04	-	22.53	50.63
			10	0.03	0.13	-	0.44	_	2.57	_	7.03	_	22.51	50.56
			12	0.03	0.03	0.16	0.16	0.61	0.61	3.25	3.25	9.21	9.21	28.98
			15	0.03	0.03	0.13	0.13	0.47	0.47	2.71	2.71	7.42	7.42	23.29
			16	0.03	0.03	0.14	0.14	0.48	0.48	2.74	2.74	7.54	7.54	23.67
			20	0.03	0.03	0.13	0.13	0.47	0.47	2.71	2.71	7.42	7.42	23.29
Mass Moments of Inertia J₁	kg • cm ²		25	0.03	0.03	0.13	0.13	0.47	0.47	2.71	2.71	7.42	7.42	23.29
			28	0.03	0.03	0.14	0.14	0.48	0.48	2.74	2.74	7.54	7.54	23.67
			30	0.03	0.03	0.13	0.13	0.47	0.47	2.71	2.71	7.42	7.42	23.29
			32	0.03	0.03	0.14	0.14	0.48	0.48	2.74	2.74	7.54	7.54	23.67
		2	35	0.03	0.03	0.13	0.13	0.47	0.47	2.71	2.71	7.42	7.42	23.29
			40	0.03	0.03	0.13	0.13	0.47	0.47	2.71	2.71	7.42	7.42	23.29
			45	0.03	0.03	0.13	0.13	0.47	0.47	2.71	2.71	7.42	7.42	23.29
			50	0.03	0.03	0.13	0.13	0.44	0.44	2.57	2.57	7.03	7.03	22.51
			60	0.03	0.03	0.13	0.13	0.44	0.44	2.57	2.57	7.03	7.03	22.51
			70	0.03	0.03	0.13	0.13	0.44	0.44	2.57	2.57	7.03	7.03	22.51
			80	0.03	0.03	0.13	0.13	0.44	0.44	2.57	2.57	7.03	7.03	22.51
			90	0.03	0.03	0.13	0.13	0.44	0.44	2.57	2.57	7.03	7.03	22.51
			100	0.03	0.03	0.13	0.13	0.44	0.44	2.57	2.57	7.03	7.03	22.51



AF Abmessungen, 1-stufig, i=3~10



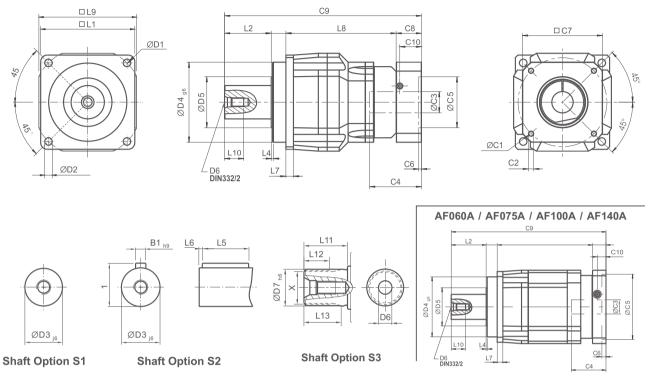
unit mm

ienion	AF042	AF060	AF075	AF100	AF140	AF180	AF220
D1	50	68	85	120	165	215	250
D2	3.4	5.5	6.8	9	11	13	17
D3 j6	13	16	22	32	40	55	75
D4 g6	35	60	70	90	130	160	180
D5	22	45	60	80	75	95	115
D6	M4 x 0.7P	M5 x 0.8P	M8 x 1.25P	M12 x 1.75P	M16 x 2P	M20 x 2.5P	M20 x 2.5P
D7 h6	-	16	22	32	40	55	75
L1	42	62	76	105	142	180	220
L2	19.5	28.5	36	58	82	82	105
L3	6.5	20	20	30	30	30	33
L4	1	1.5	2	2	3	3	3
L5	16	25	32	40	63	70	90
L6	2	2	3	5	5	6	7
L7	4	6	7	10	12	15	20
L8	31	54.5	86.5	89.5	110	150	163.5
L9	42	60	90	115	142	180	220
L10	10	12.5	19	28	36	42	42
L11	-	26	26	26	40	41.5	52
L12	-	15	15	15	20	21.5	28
L13	-	21	22.5	23	33.5	33.5	45
C1 ¹	46	70	100	130	165	215	235
C2 ¹	M4 x 0.7P	M5 x 0.8P	M6 x 1P	M8 x 1.25P	M10 x 1.5P	M12 x 1.75P	M12 x 1.75P
C3 ¹	≤11 / ≤12 ²	≤14 / ≤16 ²	≤19 / ≤24	≤32	≤38	≤48	≤55
C4 ¹	25	34	40	50	60	85	116
C5 ¹	30	50	80	110	130	180	200
C6 ¹	3.5	8	4	5	6	6	6
C71	42	60	90	115	142	190	220
C8 ¹	29.5	19	17	19.5	22.5	29	63
C9 ¹	86.5	122	159.5	197		291	364.5
C10 ¹	8.75	13.5	10.75	13	244.5	20.75	53
B1 h9	5	5	6	10	15	16	20
1	15	18	24.5	35	12	59	79.5
X DIN5480	-	W16x0.8x 30x18x6m	W22x1.25x 30x16x6m	W32x1.25x 30x24x6m	W4 ∮ ¾2x 30x18x6m	W55x2x 30x26x6m	W70x2x 30x34x6m

^{1.} C1~C10 are motor specific dimensions (metric std shown). 2. AF042 ratio 5, 10 offers C3 ≤ 12 option AF062 ratio 5, 10 offers C3 ≤ 16 option.



AF Abmesungen, 2-stufig, i=12~100



[unit: mm]

Dimension	AF042	AF060	AF060A	AF075	AF075A	AF100	AF100A	AF140	AF140A	AF180	AF220
D1	50	6	8	85		12	20	1	65	215	250
D2	3.4	5.	.5	6.8		9	9	,	11	13	17
D3 j6	13	1	6	22		3	2	4	10	55	75
D4 g6	35	6	0	70		9	0	1	30	160	180
D5	22	4	5	60		80		75		95	115
D6	M4 x 0.7P	M5 x	0.8P	M8 x 1.25F	M12 x	1.75P	M16	x 2P	M20x2.5P	M20x2.5P	
D7	56	1	6	22		3	2	4	10	55	75
L1	42	6	2	76		10	05	1	42	180	220
L2	19.5	28	3.5	36		5	8	3	32	82	105
L3	6.5	2	0	20		3	0	3	30	30	33
L4	1	1.	.5	2		2	2		3	3	3
L5	16	2	5	32		4	0	6	3	70	90
L6	2	2	2	3		Į	5		5	6	7
L7	4	(3	7		1	0	1	2	15	20
L8	58.5	65.5	91.5	119.5	134.5	131	150.5	166.5	181.5	205.5	248
L9	42	6		90			15		42	180	220
L10	10	12	2.5	19		2	8	(36	42	42
L11	-	2	6	26		2	6		10	41.5	52
L12	-		5	15		15			20	21.5	28
L13	-	2	1	22.5			3	33.5		33.5	45
C1 ³	46	46	70	70	100	100	130	130	165	165	215
C2 ³	M4 x 0.7P	M4 x 0.7P	M5 x 0.8P	M5 x 0.8P	M6 x 1P	M6 x 1P		M8x1.25P	M10 x 1.5P	M10x1.5P	
C3 ³	≤11 / ≤12	≤11 / ≤12	≤14 / ≤16	≤14 / ≤15.875 / ≤16	≤19 / ≤24	≤19 / ≤24	≤32	≤32	≤38	≤38	≤48
C4 ³	25	25	34	34	40	40	50	50	60	60	85
C5 ³	30	30	50	50	80	80	110	110	130	130	180
C6 ³	3.5	3.5	8	8	4	4	5	5	6	6	6
C7 ³	42	42	60	60	90	90	115	115	142	142	190
C8 ³	29.5	29.5	19	19	17	17	19.5	19.5	22.5	22.5	29
C9 ³	114	143.5	159	194.5	207.5	207.5	258	298	316	340	415
C10 ³	8.75	8.75	13.5	13.5	10.75	10.75	13	13	15	15	20.75
B1 h9	5		5	6			0		2	16	20
1	15	1	8	24.5		3	5	43		59	79.5
X DIN5480	-	W16>	0.8x 8x6m	W22x1.25x 30x16x6m		W32x 30x2	1.25x 4x6m	W40x2x 30x18x6m		W55x2x 30x26x6m	W70x2x 30x34x6m

^{3.} C1~C10 are motor specific dimensions (metric std shown).



AFR Spezifikationen

Gearbox Perforr Model No.		Stage	Ratio ^A	AFR042	AFR060	AFR060A	AFR075	AFR075A	AFR100	AFR100A	AFR140	AFR140A	AFR180	AFR220
			3	9	36	-	90	-	195	-	342	-	588	1,140
			4	12	48	_	120	-	260	_	520	_	1,040	1,680
			5	15	60	-	150	-	325	-	650	-	1,200	2,000
			6	18	55	-	150	-	310	-	600	-		
			7	19	50	-	140	-	300	-	550	-	1,100	1,900
		1	8	17	45	_	120	_	260	_	500	_		
		'	9	14	40	_	100	_	230	_	450	_	19000	1,500
			10	14	60	_	150	-	325	_	650	_	1,200	
			12	_	55	-	150	-	310	_	600	_	1,000	2,000
			14	_	42	_	140	-	300	_	550	_	1,100	1,800
			16	_	45	_	120	_	260	_	500	_	1,000	1,600
			20	_	40	_	100	_	230	_	450	_	900	1,500
			12	12	_	_	_	_	_	_	_	_	-	_
			15	14	_	_	_	_	_	_	_	_	_	_
Nominal Output Torque T _{2N}	Nm		16	15	_	_	_	_	_	_	_	_	_	_
			20	14	_	_	_	-	-	_	_	_	_	_
			25	15	60	60	150	150	325	325	650	650	1,200	2,000
			28	19	50	50	140	140	300	300	550	550	1,100	-
		2	30	20	55	55	150	150	310	310	600	600	1,100	1,900
			32	17	45	45	120	120	260	260	500	500	1,000	1,600
			35	19	50	50	140	140	300	300	550	550	1,100	1,800
			40	17	45	45	120	120	260	260	500	500	1,000	1,600
			45	14	40	40	100	100	230	230	450	450	900	1,500
			48	_	_	55	150	150	310	310	600	600	1,100	1,900
			50	14	60	60	100	100	230	230	650	650	1,200	2,000
			60	20	55	55	150	150	310	310	600	600	1,100	1,900
			64	_	_	45	120	120	260	260	500	500	1,000	1,600
			70	19	50	50	140	140	300	300	550	550	1,100	1,800
			80	17	45	45	120	120	260	260	500	500	1,000	1,600
			90	14	40	40	100	100	230	230	450	450	900	1,500
			100	14	40	60	150	150	325	325	650	650	1,200	2,000
			120	_	_	55	150	150	310	310	600	600	1,100	1,900
			140	_	_	50	140	140	300	300	550	550	1,100	1,800
			160	_	_	45	120	120	260	260	550	550	1,000	1,600
			180	_	_	40	100	100	230	230	450	450	900	1,500
			200	_	_	40	100	100	230	230	450	450	900	1,500
Emergency Stop Torque T _{2NOT} B	Nm	1,2	3~200					s of No						
Nominal Input Speed n _{1N}	rpm	1,2		5,000	5,000	5,000	4,000	4,000	4,000	4,000	3,000	3,000	3,000	
Max. Input Speed n₁B	rpm	1,2	3~200	10,000	10,000			8,000	8,000	8,000	6,000	6,000	6,000	4,000
Micro Backlash P0	arcmin	1	3~20	-	_	-	≤2	-	≤2	-	≤2	-	≤2	≤2
THOIO DUONIAGITTU	ur OIIIIII	2	12~200	_	_	_	≤4	≤4	≤4	≤4	≤4	≤4	≤4	≤4
Reduced Backlash P	arcmi	1	3~20	≤4	≤4	-	≤4	-	≤4	_	≤4	-	≤4	≤4
1	n	2	12~200	≤7	≤7	≤7	≤7	≤7	≤7	≤7	≤7	≤7	≤7	≤7
		1		≤6	≤6	-	≤6	-	≤6	-	≤6	-	≤6	≤6
Standard Backlash P2	arcmi	2	3~20	≤9	≤9	≤9	≤9	≤9	≤9	≤9	≤9	≤9	≤9	≤9
Torsional Rigidity	Nm/arcmin	1,2	12~200	3	7	7	14	14	25	25	50	50	145	225
Max. Radial Load F _{2r} ^c	N	1,2	3~200		1,400	1,400	_		9,200			14,000		
Max. Axial Load F _{2aBB}	N	1,2	3≈200	320	1,100	1,100	3,700	3,700			11,400	11,400	19,500	16,300
Service Life ^D	hr	1,2	3~200	· · · · · · · · · · · · · · · · · · ·										
Efficienc η	%	1	3~20											
у	/0	2	12~200 ≥92%											
	kg	1		0.9	2.1	-	6.4	-	13.9	-	23.7	-	50	83
Weight	_	2	3~20	1.2	1.5	2.8	7.8	8	15.1	15.1	26.7	29.2	54	95
Operating Temp	°C	1,2	12~200						°C~90°					
Lubrication		1,2	3~200				5	Syntheti		ation oi	ls			
Degree of Gearbox Protection 1,2 3≈200									IP65					
Mounting Position		1,2	3~200						direction					
Noise (n,=3000rpm, i=10, No load) ^E	dB(A)	1,2	3~200	≤61	≤63	≤65	≤65	≤68	≤68	≤70	≤70	≤72	≤72	≤74

A. Ratio ($i=N_{in}/N_{out}$)

<sup>B. Max. acceleration torque T₂₈

C. Appliet to the output shaft center at 100 rpm

D. For continuous operation, the service life time is less than 15,000 hrs

E. These values are measured by gearbox with ratio = 10 (1-stage) or ratio = 100 (2-stage) at 3,000 rpm no loadin g.

By lower ratio and/or higher RPM, the noise level could be 3 to 5 dB higher</sup>

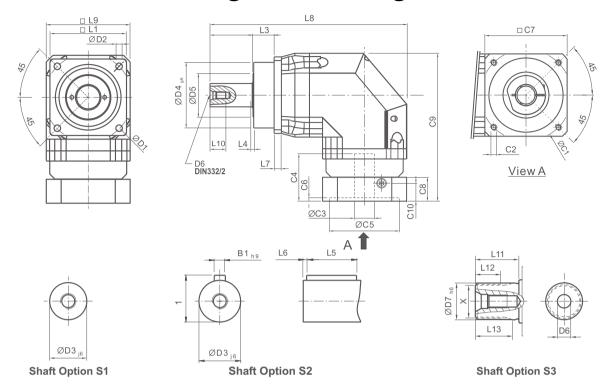


Massenträgheitsmoment AFR

Model No.		Stage	Ratio	AFR042	AFR060	AFR060A	AFR075	AFR075A	AFR100	AFR100A	AFR140	AFR140A	AFR180	AFR220
		4	3~10	0.09	0.35	_	2.25	_	6.84	-	23.4	-	68.9	135.4
		1	12~20	_	0.07	_	1.87	-	6.25	-	21.8	-	65.6	119.8
Mass Moments of Inertia J.	kg • cm²		12~20	0.09	_	_	_	-	-	-	-	-	-	-
iviass ivioments of mertia 3 ₁	kg · ciii	_	25~90	0.09	0.09	0.35	0.35	2.25	2.25	6.84	6.84	23.4	23.4	68.9
			48, 64	-	_	0.07	0.31	1.87	1.87	6.25	6.25	21.8	21.8	65.6
			100~200	_	_	0.07	0.31	1.87	1.87	6.25	6.25	21.8	21.8	65.6



AFR Abmessungen, 1-stufig, i=3~20



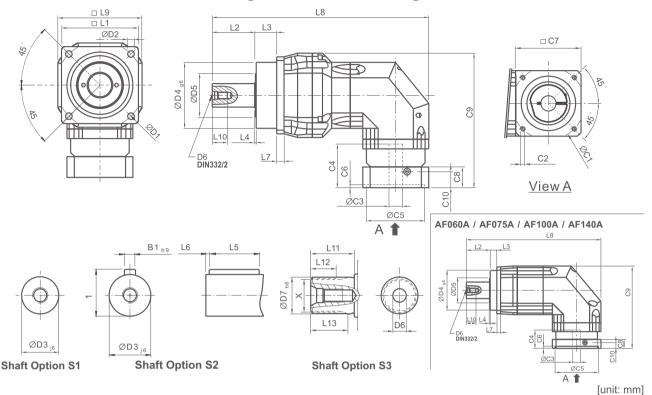
[unit: mm]

ienion	AFR042	AFR060	AFR075	AFR100	AFR140	AFR180	AFR220
D1	50	68	85	120	165	215	250
D2	3.4	5.5	6.8	9	11	13	17
D3 j6	13	16	22	32	40	55	75
D4 g6	35	60	70	90	130	160	180
D5	22	45	60	80	75	95	115
D6	M4 x 0.7P	M5 x 0.8P	M8 x 1.25P	M12 x 1.75P	M16 x 2P	M20 x 2.5P	M20 x 2.5P
D7 h6	-	16	22	32	40	55	75
L1	42	62	76	105	142	180	220
L2	19.5	28.5	36	58	82	82	105
L3	6.5	20	20	30	30	30	33
L4	1	1.5	2	2	3	3	3
L5	16	25	32	40	63	70	90
L6	2	2	3	5	5	6	7
L7	4	6	7	10	12	15	20
L8	111.5	150	219	269.5	338.5	397	484
L9	42	60	90	115	142	180	220
L10	10	12.5	19	28	36	42	42
L11	-	26	26	26	40	41.5	52
L12	-	15	15	15	20	21.5	28
L13	-	21	22.5	23	33.5	33.5	45
C1 ¹	46	70	100	130	165	215	235
C2 ¹	M4 x 0.7P	M5 x 0.8P	M6 x 1P	M8 x 1.25P	M10 x 1.5P	M12 x 1.75P	M12 x 1.75P
C3 ¹	≤11 / ≤12	≤14 / ≤16	≤19 / ≤24	≤32	≤38	≤48	≤55
C4 ¹	25	34	40	50	60	85	116
C5 ¹	30	50	80	110	130	180	200
C6 ¹	3.5	8	4	5	6	6	6
C71	42	60	90	115	142	190	220
C8 ¹	29.5	19	17	19.5	22.5	29	63
C9 ¹	90.5	111.5	152.5	191.5	235.5	303.5	378.5
C10 ¹	8.75	13.5	10.75	13	15	20.75	53
B1 h9	5	5	6	10	12	16	20
H1	15	18	24.5	35	43	59	79.5
X DIN5480	-	W16x0.8x 30x18x6m	W22x1.25x 30x16x6m	W32x1.25x 30x24x6m	W40x2x 30x18x6m	W55x2x 30x26x6m	W70x2x 30x34x6m

^{1.} C1~C10 are motor specific dimensions (metric std shown).



AFR Abmessungen, 2-stufig, i=12~200



AF060A AF060 AF075 AF220 Dimension AF042 AF075A AF100 AF100A AF140 AF140A AF180 D1 50 68 85 120 165 215 250 3.4 D2 5.5 6.8 9 11 13 17 D3 i6 55 13 16 22 32 40 75 130 160 D4 g6 35 60 70 90 180 D5 22 95 115 45 60 80 75 D6 M4x0.7P M5 x 0.8P M8 x 1.25P M12 x 1.75P M16 x 2P M20x2.5P M20x2.5P D7 16 75 76 42 62 105 142 180 220 L2 19.5 28.5 36 58 82 105 L3 6.5 20 20 30 30 33 L4 1 1.5 2 2 3 3 3 70 L5 16 25 32 40 63 90 2 3 5 5 2 6 7 L6 L7 4 6 10 12 15 20 139 187 222.5 295.5 330.5 370.5 434 521 L8 L9 42 180 220 12.5 L10 10 19 36 42 42 26 26 26 40 41.5 52 L11 L12 15 15 15 20 21.5 28 22.5 33.5 L13 33.5 45 46 100 100 130 130 215 $C1^2$ 165 M8x1.25P M8x1.25P M10x1.5P M10x1.5P M12x1.75P $C2^2$ M4 x 0.7P M4 x 0.7P M5 x 0.8P M5 x 0.8P M6 x 1P M6 x 1P ≤14 / ≤15.875 / ≤16 ≤11 / ≤12 ≤19 / ≤24 ≤19/≤24 ≤11 / ≤12 ≤14 / ≤16 ≤32 ≤32 ≤48 C3² ≤38 ≤38 25 60 85 25 34 40 50 50 60 34 40 C4 30 30 50 50 80 80 110 110 130 130 180 C5 C6 3.5 3.5 4 4 5 5 6 6 6 42 42 60 60 90 90 115 115 142 142 190 22.5 29 5 29 5 19 17 17 19 5 19 5 22 5 29 C8² 19 99.5 111.5 126.5 152.5 165 191.5 205 235.5 254.5 323.5 90.5 C93 C10² 8.75 8.75 13.5 13.5 10.75 10.75 13 13 15 15 20.75 B1 h9 5 10 16 20 15 18 24.5 35 43 59 79.5 W16x0.8x W22x1.25x W32x1.25x W40x2x W55x2x W70x2x 30x18x6m 30x26x6m [|]30x34x6m **DIN5480** 30x18x6m

^{2.} C1~C10 are motor specific dimensions (metric std shown).