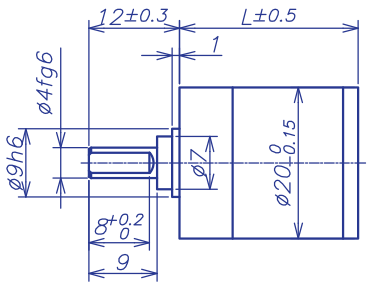
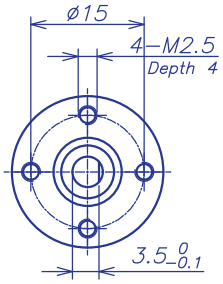
AM-20GP Series





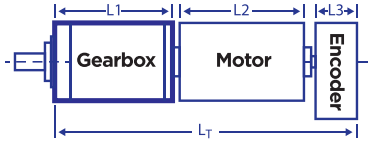
GEARBOX CHARACTER

Gear type	Straight teeth	Radial Play (8mm from flange)	max 0.1mm
Output shaft	Stainless steel hardened	Permissible force press fits	max. 100 N
Main gear	Alloy steel hardened	Permisssible axial load (dynamic)	max. 50N
Ring gear	Stainless steel hardened	Recommended inut speed	8000RPM
Adapter plate	Stainless steel	Operating temperature range	-40°C ~ +100°C
Bearing AT output	Ball bearing	Operating humidity range	10-90%RH
Axial play	0-0.3	Number of stages	1 2 3 4
Directions	CW/CCW	Permissible load (8mm from flange)	20N 40N 40N 40N

GEARBOX DATA

Number of stage	1			2		3			4		
Reduction ratio X:1	3.8	4.4	5.4	14 16 20	19 24 29	53 109 62 72 76 89	84 104	128 157	198 231 270 285 333 410	316 389 479 590	370 455 561 690 850
Reduction ratio absolute	15/4	57/13	27/5	225/16 855/52 81/4	3249/169 1539/65 729/25	3375/64 12825/208 48735/676 1215/16 4617/52 2187/20	185193/2197 87723/845	41551/325 19683/125	50625/256 192375/832 731025/2704 18225/64 2777895/8788 69255/208	2777895/8788 263169/676 124659/260 59049/100	10556001/28561 5000211/10985 2368521/4225 1121931/1625 531441/625
Motor shaft max. diametre (mm)	3	2		3	2	3	2		3		2
Gearbox lenght "L" (mm)	18.8			23.6		28.4			33.2		
Max. continuous torque (N.m)	0.2			0.3		0.5			0.6		
Max. intermittent torque (N.m)	0.3			0.45		0.75			0.9		
Average backlash no load	1.2°			1.4°		1.4°			1.4°		
Gearbox efficiency	90%			81%		73%			65%		
Max. mass inertia (g.cm²)	0.1			0.1		0.1			0.1		
Gearbox weight approx (g)	35			45		55			65		
gearbox model	AM-20GPA-X			AM-20GPB-X		AM-20GPC-X			AM-20GPD-X		

AM-20GP Example of combination



Recommend Motor:

Coreless Motor (w/E):	Brushless Motor (w/E):
AM-CL1623MAN	AM-BL1632AN
AM-CL1626MAN	AM-BL1640AN
AM-CL1633MAN	AM-BL2032AN
AM-CL1643MAN	AM-BL2040AN
AM-CL2232GAN	AM-BL2051AN
AM-CL2232MAN	
AM-CL2242GAN	
AM-CL2242MAN	

Recommend Encoder:

Suitable for Coreless Motor

Encoder S: AM-EN1611S***

Suitable for Brushless Motor

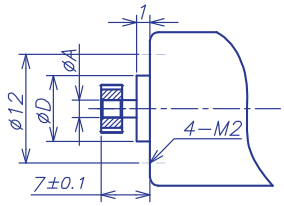
Encoder S: AM-EN1611S***

Encoder T: AM-EN1612T***

INPUT GEARBOX DATA

Modulus	0.35		
Press angle	20°		
Teeth number	10	13	16
Max gear hole "A"	2	2	3
Max motor shaft	2	2	3
Motor dimension "D"	5	5.5	6.5

MOTOR DIMENSION



GEARBOX MOTOR LENGTH "LT"

Gear motor length L_T	52.5	74.3	80.4
Gearbox length L_1	18.8	23.6	28.4
Motor length L_2	23	40	40
Encoder length L_3	10.7	10.7	12

Download datasheet: https://assunmotor.com/documents-download

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