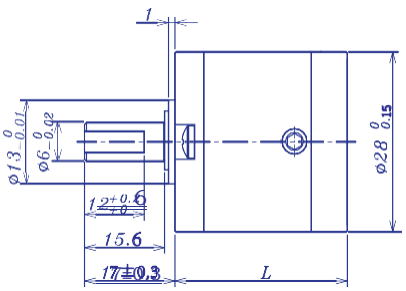
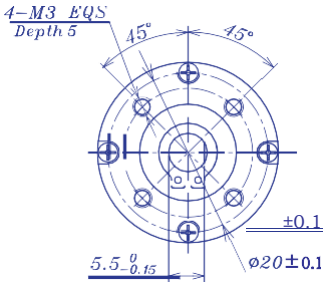
ASSUN
DRIVING THE FUTURE

AM-28P Series

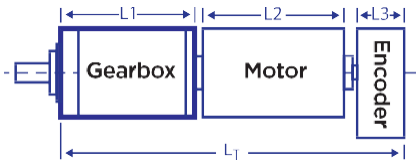




GEARBOX CHARACTER			
Gear type	Straight teeth	Average backlash on load	≤2°
Output shaft	Stainless steel hardened	Radial Play	≤0.1
Main gear	Alloy Steel	Permisssible axial load	≤80N
Ring gear	Steel	Permissible force press fits	≤150N (5mm from mounting face)
Adapter plate	Aluminum Alloy	Recommended inut speed	≤8000RPM
Bearing AT output	Ball bearing	Operating temperature range	-20ºC ~ +50ºC
Axial play	0-0.3	Operating humidity range	10-90%RH
Directions	CW/CCW		

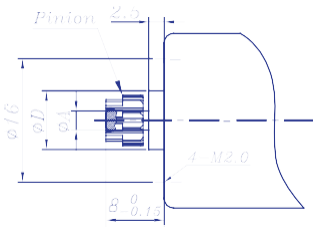
GEARBOX DATA				
Number of stage	1	2	3	4
Reduction ratio X:1	3.4 3.8 4.4 5.3 6.7	12 18 28 13 19 29 15 20 35 17 23 44 26	40 74 129 45 85 152 50 95 184 56 106 233 65 121 296	296 534 1016 327 637 1136 375 760 1304 405 860 1556 447 965 1975
Reduction ratio absolute	24/7 23/6 22/5 21/4 20/3	576/49 18/1 441/16 92/7 484/25 88/3 529/36 16//18 35/1 253/15 231/10 400/9 230/9	13824/343 189/2 2208/49 3381/32 1053/21 4851/40 12167/2 1936/15 5819/90 3200/21 5566/75 735/4 10648/125 700/3 8000/27	85169/288 194481/256 122452/375 7744/9 234256/625 15435/16 25921/64 64000/63 53361/100 92000/81 101871/160 35200/27 14000/9 160000/81
Gearbox lenght "L" (mm)	26.9	33.2	39.5	45.8
Max. continuous torque (N.m)	1.3	1.7	2.1	2.6
Max. intermitten torque (N.m)	1.9	2.6	3.2	3.8
Gearbox efficiency	90%	81%	72%	65%
Moment of inertia range (g.cm²)	1	0.9	0.6	0.6
Gearbox weight approx (g)	78	102	126	149
Gearbox model	AM-28PA-X-01	AM-28PB-X-01	AM-28PC-X-01	AM-28PD-X-01

AM-28P Example of combination



INPUT GEARBOX DATA					
Modulus	0.4				
Press angle	20°				
Teeth number	9	12	15	18	21
Max gear hole "A"	1.5	3.0	4.0		
Max motor shaft	1.5	3.0	4.0		
Motor dimension "D"	10.0				

MOTOR DIMENSION



Recommend Motor:

Coreless Motor:
AM-CL2532MAN
AM-CL2545MAN
AM-CL2831MAN
AM-CL2845MAN

Brushless Motor
AM-BL2845AN
AM-BL2453AN

Recommend Encoder:

Suitable for Coreless Motor

Encoder S: AM-EN1611S***

Suitable for Brushless Motor

Encoder S: AM-EN1611S***

Encoder T: AM-EN2412T***

GEARBOX MOTOR LENGTH "LT"				
Gear motor length L_T	69.6	90.2	81.2	109.5
Gearbox length L_1	26.9	33.2	39.5	45.8
Motor length L_2	32	45	31	53
Encoder length L_3	10.7	12	10.7	10.7

PLANETARY GEARBOX

Softing Italia Srl
Via M. Kolbe 6
20090 Cesano Boscone (MI)
Tel.: 024505171
Email: info@softingitalia.it
www.softingitalia.it/motors

softing Motors