

METRIC & INCH

SINGLE WORM REDUCTION GEARBOXES

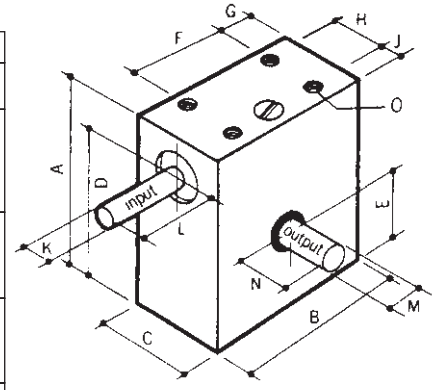
Metric Types M1, M2 & M3 Inch Types 1, 2 & 3

Ratios from 6:1 to 100:1, Torque .73 to 7.37lbf.ft (1 to 10 Nm)

Flush fitting bearing caps easy to install. Drilled and tapped mounting holes on top and bottom.

Input shafts mounted on precision ball bearings.

Drawing Ref.	Metric Types			Inch Types		
	Dimensions in mm			Dimensions in inch		
	M1	M2	M3	Type 1	Type 2	Type 3
A	38.89	52.37	77.77	1.531	2.062	3.062
B	31.75	44.45	63.50	1.250	1.750	2.500
C	19.05	25.4	34.92	0.750	1.000	1.375
D	29.36	41.3	60.32	1.156	1.625	2.375
E	15.87	22.22	31.75	0.625	0.875	1.250
F	19.05	25.40	44.45	0.750	1.000	1.750
G	6.35	9.52	9.52	0.250	0.375	0.375
H	11.10	15.87	25.40	0.437	0.625	1.000
J	3.96	4.75	4.75	0.157	0.187	0.187
KØ	3.00	4.00	7.00	0.125	0.187	0.312
L	19.05	22.22	25.40	0.750	0.875	1.000
MØ	4.00	6.00	9.00	0.187	0.250	0.375
N	19.05	14.27	25.40	0.750	0.562	1.000
O	M3X5dp	M4x5dp	M5x6dp	6BAx0.187dp	4BAx0.187dp	2BAx0.25dp



Mounting holes "O" top-bottom faces. Shaft arrangement "A" illustrated.

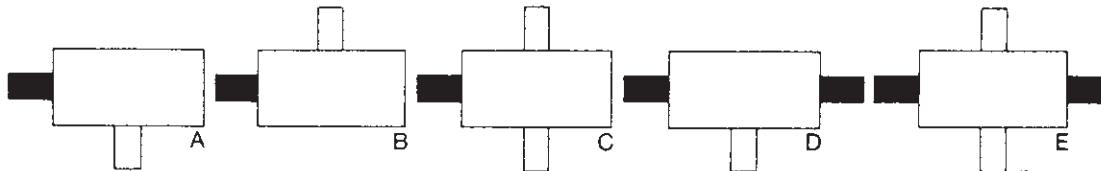
Performance data:

Wormwheel	M1 & Type 1		M2 & Type 2		M3 & Type 3	
	Phosphor Bronze	Anti-Backlash	Phosphor Bronze	Anti-Backlash	Phosphor Bronze	Anti-Backlash
Maximum input speed RPM	10000	3000	10000	3000	10000	3000
Maximum friction torque at input oz/in (g/cm)	0.069 (5)	0.833 (60)	0.16 (12)	3.47(250)	1.12 (20)	17.3 (1250)
Maximum continuous output torque lbf.in/Nm	See graphs	0.796 (0.009)	See graphs	1.5 (0.17)	See graphs	2.6 (0.29)
Backlash at outputs - minutes	30	30	30	30	30	30
Approx. weight oz. (kg.)	2.75 (0.08)	2.75 (0.08)	7 (0.2)	7 (0.2)	21 (0.6)	21 (0.6)

Available Ratios

Type	6	7.5	8	8.33	10	12	12.5	15	16	16.66	17	20	21.5	24	25	30	32	36	40	42	45	48	50	60	70	90	100
M1 & 1			X		X		X			X	X				X									X	X		
M2 & 2		X	X		X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
M3 & 3	X	X		X	X		X	X	X			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X

Shaft Arrangements (plan view)



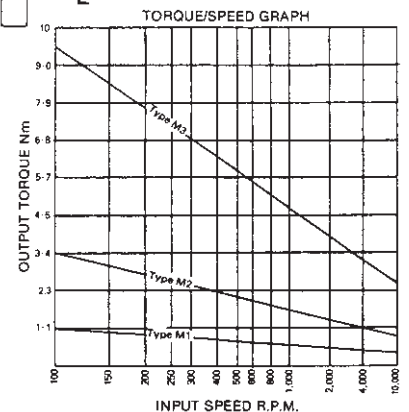
Input shafts shown Output shafts shown

These standard gearboxes are available in many shaft arrangements and ratios.

For an application requiring minimum backlash, spring loaded wormwheels may be incorporated.

The input shaft is mounted in precision ballraces, the output shaft in self-lubricating bearings and the final assembly packed with grease Duckhams Keenomax L2' (AFS 135) having a temperature range of 93° to + 302°F (34° to + 150°C.)

When ordering please state worm reduction gearbox type, ratio, shaft arrangement and standard or anti-backlash version. Eg. Type 1, ratio 6:1, shaft arrangement "A", anti-backlash.



All dimensions are subject to change without notice.