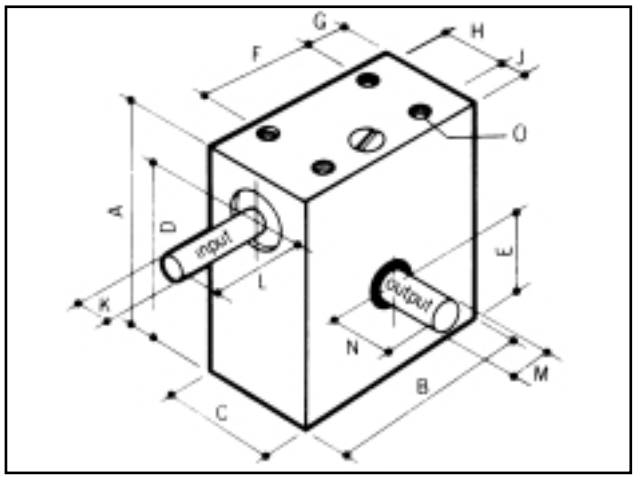


Mounting holes 'O' top-bottom faces

Shaft arrangement 'A' illustrated

Dimensions in millimetres

Drawing Reference	Type M1	Type M2	Type M3
A	38.89	52.37	77.77
B	31.75	44.45	63.50
C	19.05	25.40	34.92
D	29.36	41.30	60.32
E	15.87	22.22	31.75
F	19.05	25.40	44.45
G	6.35	9.52	9.52
H	11.10	15.87	25.40
J	3.96	4.75	4.75
KØ	3.00	4.00	7.00
L	19.05	22.22	25.40
MØ	4.00	6.00	9.00
N	19.05	14.27	25.40
O	M3 x 5Dp.	M4 x 5Dp.	M5 x 6Dp.

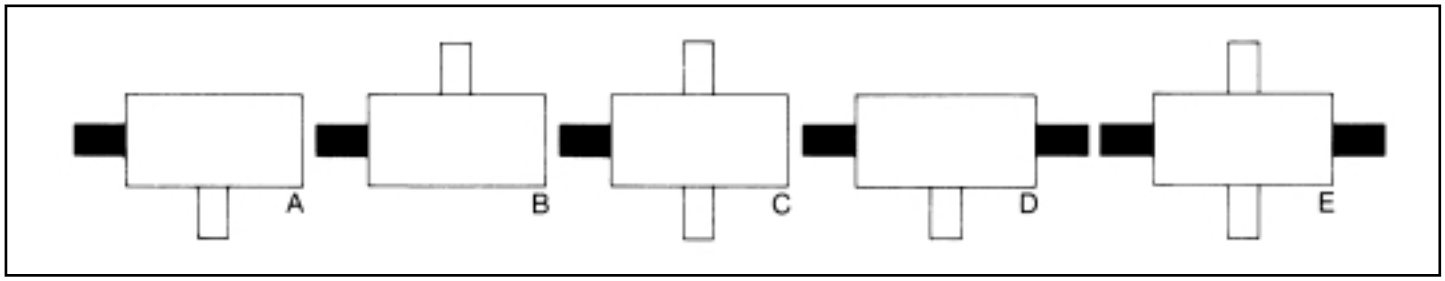
Performance Data

	Type M1		Type M2		Type M3	
Wormwheel	Phosphor bronze	Anti-backlash	Phosphor bronze	Anti-backlash	Phosphor bronze	Anti-backlash
Maximum input speed RPM	10,000	3,000	10,000	3,000	10,000	3,000
Maximum friction torque at input g/cm	5	60	12	250	20	1,250
Maximum continuous output torque Nm	see graph	0.009	see graph	0.17	see graph	0.29
Backlash at outputs - minutes	30		30		30	
Approximate weight Kg	0.08	0.08	0.2	0.2	0.6	0.6

Available Ratios

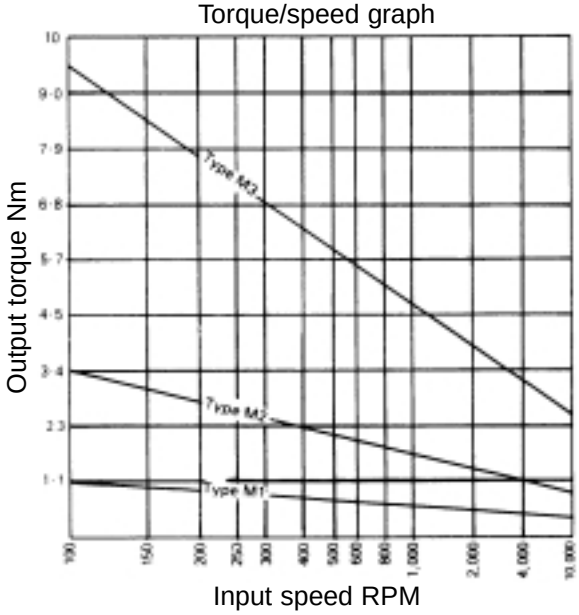
	6	7.5	8	8.33	10	12	12.5	15	16	16.66	17	20	21.5	24	25	30	32	36	40	42	45	48	50	60	70	80	90	100
Type M1			+		+		+			+		+			+	+							+	+		+		
Type M2		+	+		+	+		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			+	+
Type M3	+	+		+	+		+	+	+			+		+	+	+	+	+	+		+	+	+	+	+		+	+

Shaft arrangements (plan view)



Input shafts shown ■ Output shafts shown □

Torque/speed graph



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 -34˚ to +150˚ C.

When ordering state "Worm reduction gearbox" - type, ratio, shaft arrangement and standard or anti-backlash wormwheel.

Materials:

Case	- Aluminium alloy
Worms	- BS970 220MO7 Hardened
Wormwheels	- Phosphor bronze PB1
Shafts	- BS970 220MO7