

# 941D SERIES 16mm PLANETRY (EPICYCLIC) SUB MINIATURE METAL GEARBOX



# RATIOS NOW AVAILABLE AS EX-STOCK ITEMS.

941D41 (3v - 12v)RATIO 4:1 941D621 (3v - 12v) **RATIO 62:1** 941D841 (3v - 12v) **RATIO 84:1** 941D1041 (3v - 12v)**RATIO 104:1** 941D1281 (3v - 12v) **RATIO 128:1** 941D2311 (3v - 12v)**RATIO 231:1** 941D4551 **RATIO 455:1** (3v - 12v)941D5611 (3v - 12v)**RATIO 561:1** 941D10141 (3v - 12v)**RATIO 1014:1**  IMPORTANT NOTICE
Due to the wide range of
applications for this
product it is the users responsibility to establish
the products suitability
for their individual
purpose(s).

Designed for heavy-duty industrial and model applications this robust unit boasts a powerful high quality motor with sintered bronze bearings. The metal gearbox incorporates sleeved bearings, enabling the high torque transfer from the motor to be transmitted through the gearbox.

### MOTOR DATA.

		VOLTAGE		NO LOAD		MAX EFFICIENCY					STALL		
MODEL	OPERATING	SPEED	CURRENT	SPEED	CURRENT	TORQUE		ОИТРИТ	EFF	TORQUE			
		RANGE	NOMINAL	R.P.M.	A	R.P.M	Α	oz - in	g - cm	w	%	oz-in	g - cm
	(941D)	3.0 - 12.0	12.0v CONSTANT	8000	0.05	6200	0.085		6.1	0.394	66	0.39	33.6

## **REDUCTION TABLE. R.P.M. (NO LOAD)**

SUPPLY VOLTAGE	3.0v	6.0v	9.0v	12.0v
941D41	500	1000	1500	2000
941D621	32	65	97	129
941D841	23	48	71	95
941D1041	19	38	58	77
941D1281	16	31	47	63
941D2311	9	17	26	35
941D4551	4	9	13	18
941D5611	3.5	7	11	14
941D10141	2	4	5.9	7.9

WEIGHT		
941D41	35g	
941D621	42g	
941D841	42g	
941D1041	43g	
941D1281	42g	
941D2311	46g	
941D4551	46g	
941D5611	46g	
941D10141	49g	

NOTE: It is not recommended to run the motor/gearbox combination at 1.5v

# GEARED MOTOR TORQUE RATINGS AT MAX. EFFICIENCY.

	At 12V (g.cm)	
4:1	20	
62:1	227	
84:1	512	
104:1	381	
128:1	781	
231:1	705	
455:1	1388	
561:1	1711	
1014:1	2474	

941D SERIES	
No load Backash:	Max 3 deg.
Max Radial Load:	500gf.
(10mm from flange)	
Shaft Axial Load:	500gf.

IMPORTANT NOTICE
At very low ratios the torque produced by this geared moto combination may exceed the maximum permissible torque of the gearbox. In this situation the unit must not be allowed to

NOTE: To establish Torque Rating in Nm, divide g.cm by 10,197.0

**MFA**/como drillsfelderland lane. Worth. Deal. Kent. Ct14 obt

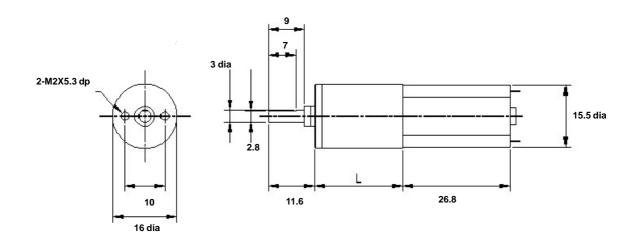
TEL: 01304 612132. E-MAIL: info@mfacomo.com

Note: Motor speeds may vary by (+) or (-) 12.5%

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#### 941D41 (4:1) 15 22.2 941D621 (62:1) 941D841 (84:1) 22.3 941D1041 (104:1) 22 2 941D1281(128:1) 22.3 941D2311 (231:1) 25.8 941D4551 (455:1) 26 941D5611 (561:1) 26

941D10141 (1014:1)

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29.7

GEARBOX REF.

### FOR ACCESSORIES TO FIT THIS SERIES GEARBOX, REFER TO 917D SERIES PAGE.

ADVANTAGES OF PLANETARY GEARBOXES.				
EFFICIENCY:	Efficiencies of planetary gearboxes can be above 90% while some other types of transmission can be 50% or less. This allows the use of smaller motors.			
SIZE:	Planetary gearboxes can be half the size of conventional boxes.			
WEIGHT:	Weight savings can be as high as 60%, allowing smaller, lighter support structures.			
MAINTENANCE:	Other than routine oil changes, no maintenance is required, eliminating the need to hold spares.			
REVERSIBLE:	Planetary gears can be equally efficient in either direction. This is an advantage for use in running machinery in both clockwise and anti-clockwise directions.			
COAXIAL:	The coaxial configuration of input and output shafts allows planetary gears to be installed in line with a motor and a machine.			

Subject to minimum order quantities of 100 units, the following ratios are also available with a six week lead-time. The physical dimensions of these other gearboxes may vary from the data as illustrated above. Details of individual gearboxes are available upon request.

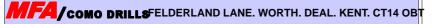
GEARBOX 14:1 WITH MOTOR GEARBOX 29:1 WITH MOTOR GEARBOX 157:1 WITH MOTOR GEARBOX 370:1 WITH MOTOR GEARBOX 1621:1 WITH MOTOR

**GEARBOX 3027:1 WITH MOTOR** 

GEARBOX 19:1 WITH MOTOR GEARBOX 72:1 WITH MOTOR GEARBOX 316:1 WITH MOTOR GEARBOX 690:1 WITH MOTOR GEARBOX 1996:1 WITH MOTOR

24 volt versions are available for this range of motor-gearboxes. Performance data is similar to 12 volt versions. This version also has an extended 10mm rear shaft to accommodate motor encoders. When ordering please use 12v version part number suffixed with 24V.

I.E. 941D621 will be 941D62124V



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