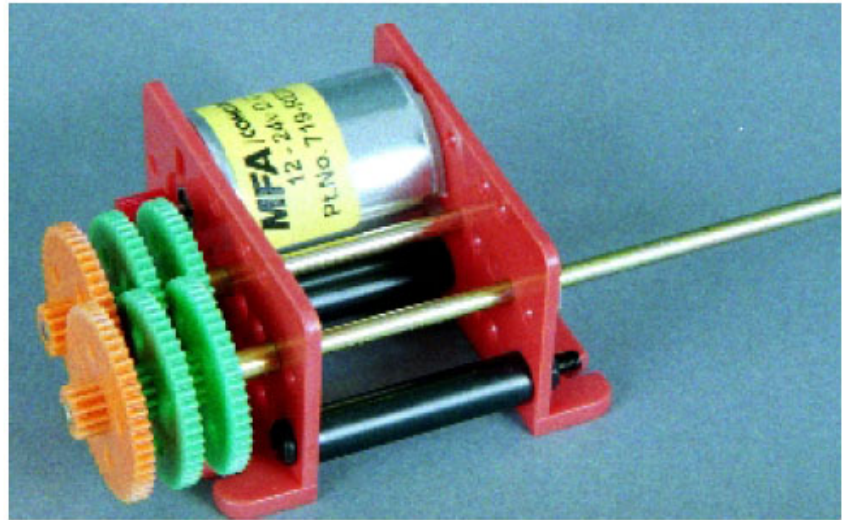


MULTI RATIO GEARBOX - DESIGNED FOR EDUCATIONAL USE

MULTI RATIO GEARBOX. IDEAL FOR CDT (CRAFT, DESIGN AND TECHNOLOGY)

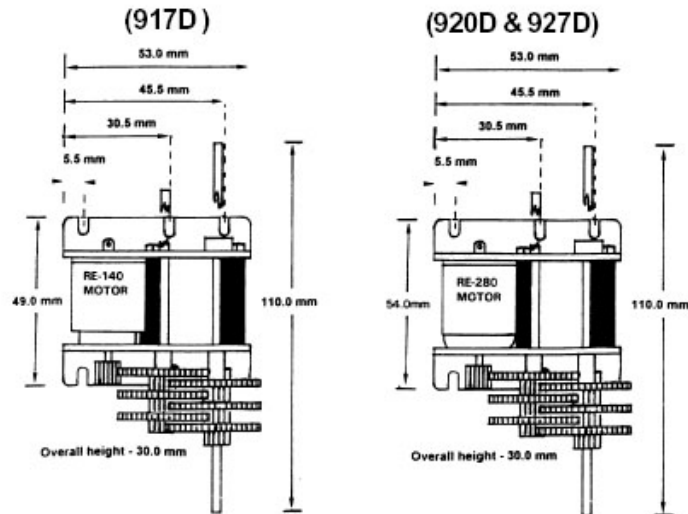
- 917D KIT FORM (RE 140 MOTOR)
- 917D/A ASSEMBLED VERSION (RE 140 MOTOR)
- 920D KIT FORM (RE 280 MOTOR)
- 920D/A ASSEMBLED VERSION (RE 280 MOTOR)
- 927D KIT FORM (RE 280/1 MOTOR)
- 927D/A ASSEMBLED VERSION (RE 280/1 MOTOR)



*** PROVIDES 6 DIFFERENT RATIOS AND 18 SPEEDS.* RUGGED AND COMPACT DESIGN AND CONSTRUCTION.* IDEAL FOR MODELS, CDT (CRAFT, DESIGN AND TECHNOLOGY) PROJECTS.* OPERATES FROM 1.5 - 3v (RE140 &, WITH THE HIGHER TORQUE MOTOR, RE280) AND 12 - 24v (RE280/1) D.C. SUPPLIES. * EXTENSIVE RANGE OF ACCESSORIES AVAILABLE.**

The unit operates on 1.5 - 3v (917D & 917D/A, also with higher torque motor 920D & 920D/A), or 12-24v (927D & 927D/A) D.C. power sources, either battery or suitable transformer. Its simple versatile design and sturdy construction make it suitable for a host of uses from powering models and robots to teaching the principles of mechanics. Current consumption depends on eventual load but is within the range 0.2 to 0.8n amps. The output shaft is 3mm diameter.

GEARBOX DIMENSIONS.



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).

WEIGHT	
917D	54g
920D	76g
927D	76g

MOTOR DATA. (RE-140, RE-280 & RE-280/1)

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY						STALL TORQUE	
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE		OUTPUT	EFF	STALL TORQUE	
			R.P.M.	A	R.P.M.	A	oz - in	g - cm	W	%	oz - in	g - cm
RE - 140	1.5 - 3.0	3.0v CONSTANT	14800	0.300	11500	1.05	0.152	10.92	1.29	41.03	0.68	49.0
RE - 280	1.5 - 3.0	1.5v CONSTANT	4600	0.120	3750	0.53	0.160	11.53	0.44	56.20	0.86	62.0
RE - 280	1.5 - 3.0	3.0v CONSTANT	9200	0.155	7800	0.85	0.278	20.00	1.60	62.30	1.81	130.0
RE - 280/1	12 - 24	12V CONSTANT	8400	0.100	6300	0.30	0.347	25.00	1.62	44.87	1.389	100.0

REDUCTION TABLE R.P.M. (917D)

	1.5V	3.0V
4:1	1850	3700
16:1	462	925
64:1	115	231
256:1	29	57
1024:1	7	14
4096:1	2	4

REDUCTION TABLE R.P.M. (920D)

	1.5V	3.0V
4:1	1150	2300
16:1	287	575
64:1	72	144
256:1	18	36
1024:1	4	9
4096:1	1	2

REDUCTION TABLE R.P.M. (927D)

	12V	15V	18V	24V
4:1	2100	2625	3150	4199
16:1	525	656	787	1050
64:1	131	164	196	261
256:1	33	42	50	67
1024:1	8	10	12	16
4096:1	2	2	3	4