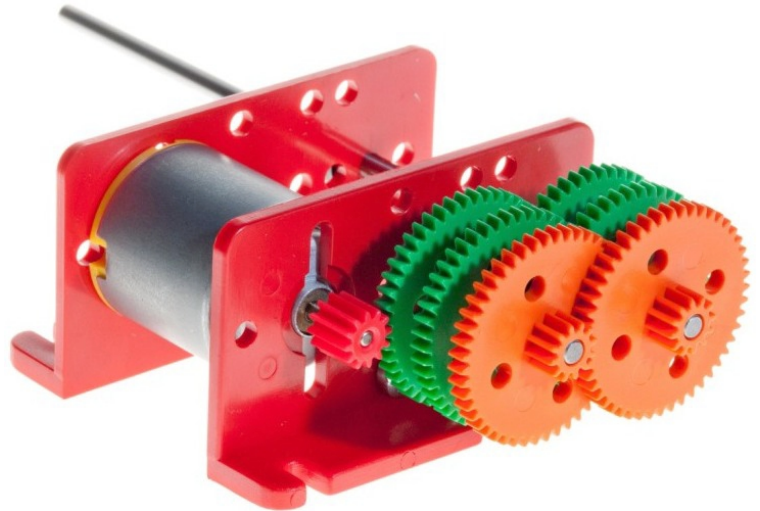


**MULTI RATIO GEARBOX.
IDEAL FOR CDT
(CRAFT, DESIGN AND
TECHNOLOGY)**



KIT FORM

917D (RE140 MOTOR)
920D (RE280 MOTOR)
927D (RE280/1 MOTOR)
932D (RE140/1 MOTOR)

ASSEMBLED VERSION

917D/A (RE140 MOTOR)
920D/A (RE280 MOTOR)
927D/A (RE280/1 MOTOR)
932D/A (RE140/1 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), 6 - 9v RE140/1 AND 12 - 24v (RE280/1) D.C. SUPPLIES.
- * EXTENSIVE RANGE OF ACCESSORIES AVAILABLE.

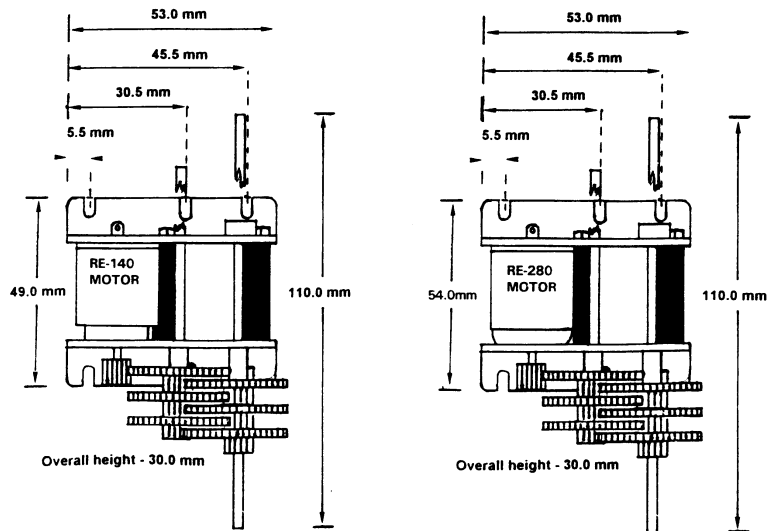
The unit operates on 1.5 - 3v (917D & 917D/A, also with higher torque motor 920D & 920D/A), with 6 - 9v (932D & 932D/A), or 12-24v (927D & 927D/A) D.C. power sources, either battery or suitable transformer. Its simple versatile design and sturdy construction make it suitable for a host of uses from powering 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.

	WEIGHT
917D	54g
920D	76g
927D	76g
932D	54g

GEARBOX DIMENSIONS

(917D & 932D)

(920D & 927D)



MOTOR DATA. (RE140 & RE140/1, RE280 & RE280/1)

MODEL	VOLTAGE		NO LOAD		AT MAXIMUM EFFICIENCY					STALL		
	OPERATING RANGE	NOMINAL	SPEED	CURRENT	SPEED	CURRENT	TORQUE	OUTPUT	EFF	TORQUE		
			R.P.M.	A	R.P.M.	A	oz-in	g-cm	W	%	oz-in	g-cm
RE140 (917D)	1.5 - 3	3v Constant	15300	0.26	12200	1.04	1.444	13	2.51	52.3	0.750	64.0
RE140/1 (932D)	3 - 9	6v Constant	9200	0.066	7071	0.219	0.11	8.1	0.589	44.79	0.48	35.1
RE280 (920D)	1.5 - 3	1.5v Constant	4400	0.12	3600	0.53	0.16	11.6	0.86	56.20	0.87	63.0
RE280 (920D)	1.5 - 3	3v Constant	8800	0.24	7200	1.06	0.32	23.2	1.71	53.8	1.75	126.0
RE280/1 (927D)	12 - 24	12v Constant	8224	0.046	6636	0.194	0.27	19.2	1.31	56.1	1.389	99.3

REDUCTION TABLES R.P.M

917D

	1.5v	3v
4:1	1850	3700
16:1	462	925
64:1	115	231
256:1	29	57
1024:1	7	14
4096:1	2	4

920D

	1.5v	3v
4:1	1150	2300
16:1	287	575
64:1	72	144
256:1	18	36
1024:1	4	9
4096:1	1	2

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

932D

	6v	9v
4:1	2300	3067
16:1	575	767
64:1	144	192
256:1	36	48
1024:1	9	12
4096:1	2	2.67

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).