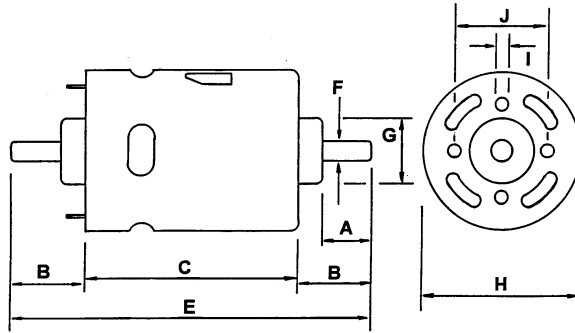


**TORPEDO 800**

Part No. 1114/1



Weight 595g (approx)

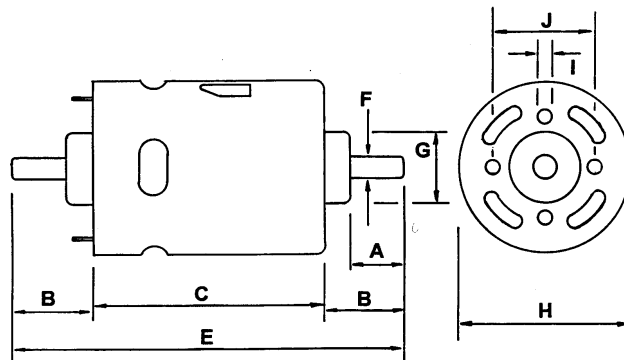
DIMENSIONS	A	B	C	D	E	F	G	H	I	J	K
MILLIMETER	13.2	20.5	69.0		110.0	6.35	21.75	51.8	M5	32.0	
DECIMAL INCHES	0.520	0.810	2.720		4.330	0.250	0.860	2.040		1.260	

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	mN-m	W	%	oz - in	mN-m
RE - 800	12.0v	12.0v CONSTANT	5167	1.058	4289	5.28		82.08	36.88	58.2		482.8

Stall Current RE800 at 12v = 25.86A

**TORPEDO 850**

Part No. 1115/1



Weight 595g (approx)

DIMENSIONS	A	B	C	D	E	F	G	H	I	J	K
MILLIMETER	13.2	20.5	69.0		110.0	6.350	21.75	51.8	M5	32.0	
DECIMAL INCHES	0.520	0.810	2.720		4.330	0.250	0.860	2.040		1.260	

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	mN-m	W	%	oz - in	mN-m
RE - 850	12.0v	12.0v CONSTANT	9778	1.90	8311	10.82		92.13	80.16	61.74		614

Stall Current RE850 at 12v = 61.34A

**BATTERIES**

As MFA 'TITAN' batteries are sealed-lead-acid rechargeable batteries, the problems of liquid leakage, gas discharge, and tedious maintenance from conventional lead acid batteries now have been solved. As a result, MFA 'TITAN' batteries can be used as a power source for hobby & toy use, portable instruments such as VTR's, vacuum cleaners, electric powered bicycles, and electromotive tools that must be lightweight, compact and powerful. They can also be used for power back-up of OA-FA, U.P.S., telecommunication and emergency facilities requiring long term reliability. MFA 'TITAN' batteries are being used in a wide variety of applications in advanced high technical equipment.

**FEATURES OF MFA 'TITAN' BATTERIES**

The advantages of MFA 'TITAN' batteries over its conventional counterpart are numerous. They include:

- 1. Maintenance Free.** MFA 'TITAN' batteries have an excellent life with absolutely no maintenance required apart from routine charging.
- 2. No leakage of liquid or gas.** By a special sealing design, there is no leakage of liquid or gas, so it is safe for all applications, even when fully recharged, there is no possibility of leakage due to the recombination system which converts the gas into liquid. MFA 'TITAN' batteries can be installed safely in equipment with no leakage occurring.
- 3. Low in self-discharge rate.** MFA 'TITAN' batteries keep a low self-discharging rate and they also have a long life, because of using only specially selected lead, calcium-lead, and refined electrolytes.
- 4. Able to operate in a wide temperature range.** MFA 'TITAN' batteries can be used in temperatures ranging from as low as -20oC to as high as 50oC.
- 5. Economical and long life.** MFA 'TITAN' batteries are proven to have a longer life than conventional ones, due to improved durability from our specially selected Pb-Ca alloy.
- 6. Designed for high-discharging purpose.** MFA 'TITAN' batteries are designed especially for high-discharge current. They also have low internal resistance with stable voltage.
- 7. Available in any position.** Our special sealing design enables our batteries to operate in any position, even upside down.

**Application of MFA 'TITAN' batteries.**

**Floating Application**

- \* Most Toy & hobby applications
- \* Automatic fire alarm devices
- \* All types of UPS
- \* Other memory backup devices etc
- \* Security & burglar systems
- \* Telecommunication systems
- \* Electronic cash registers

**Cyclic Application**

- \* Portable video tape recorders
- \* Communication and telephone equipment.
- \* Medical electronics
- \* Automatic fire alarm facilities
- \* Cassette tape recorders
- \* Cordless tools
- \* Measuring equipment

**CYCLON BATTERY 2V 2.5 AH.  
PT. NO. 444**  
Sealed lead acid battery. "D" cell.

**CYCLON BATTERY 2V 5 AH.  
PT. NO. 444/1**  
Sealed lead acid battery. "D" cell.

PART NO.	NOMINAL VOLTAGE	NOMINAL CAPACITY (AH)				DIMENSIONS								WEIGHT (APPROX)	
		20 HR	10 HR RATE	5 HR RATE	1 HR RATE	LENGTH		WIDTH		HEIGHT		HEIGHT OVER TERMINAL			
						(MM)	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(MM)	(INCH)	(LB)	(KG)
178	2	10.5	-			54	2.13	57	2.24	95	3.74	101	3.98	1.54	0.70
629	6	3.0	-	2.60	1.80	134	5.28	34	1.34	60	2.36	66	2.61	1.43	0.65
177	6	4.0	3.80	3.60	2.40	70	2.76	47	1.85	102	4.02	108	4.25	1.72	0.78
1153	6	12.0	11.0	10.0	7.3	151	5.95	50	1.97	94	3.70	100	3.94	4.4	2.0
1095	12	1.2	1.13	1.1	0.72	99	3.9	48	1.9	52	2.05	58	2.3	1.26	0.57
1084	12	1.9	1.79	1.71	1.14	177	6.97	34	1.34	60	2.36	66	2.60	1.66	0.75
887	12	3.0	2.73	2.55	1.80	134	5.28	67	2.64	60	2.36	68	2.68	2.87	1.30
1113	12	7	6.44	6.30	4.20	151	5.95	65	2.56	94	3.70	100	3.94	6.06	2.75
1119	12	12				151		98		94					4.00

**BATTERY CHARGERS**

**2V - 6V - 12V CHARGER.** Suitable for trickle charging 2, 6 or 12v lead acid batteries (wet or sealed dry type). Regulated at approx. 1/2 amp (recommended charge rate for most model size batteries). LED's indicate unit operation. Fused for overload protection. Size 128mm x 97mm x 58mm.

Part No. 229

**'TITAN' PLUG IN CHARGER.** For charging 12v lead-acid batteries. Plugs directly into mains wall socket. Charge rate 720 ma. approx. Features 'charge-complete' indicator. In line fuse and thermal fuse for safety. Instructions included.

PART NO. 827

**'TITAN' PLUG IN CHARGER.** For charging 6v lead-acid batteries. Plugs directly into mains wall socket. Charge rate 1/2 amp approx. Features 'charge-complete' indicator. In line fuse and thermal fuse for safety. Instructions included.

PART NO. 1077/5MOD

Variable speed transformer suitable as a 12volt power source (up to 15v on lower loads) for all Como Drills and 12V gearbox units. It is designed to maintain torque throughout the speed range. The unit is double insulated,protected by a thermal device and rated at 12v D.C. 36 VA.

Part No. 400DHD.

**New MFA 10W Solar Panel.  
Part No. SP10**

In order to preserve our environment, the use of fossil fuels will need to be replaced by renewable power sources such as wind, solar, hydrogen etc. MFA/Como has introduced two high specification solar panels of practical size and output to aid research and development and power models.

The cells are sealed, weather and ultraviolet resistant and will operate effectively from -25 deg C to 90 deg C. They will operate up to 100 humidity. They are TUV approved and CE marked.

Typical applications include:-

REMOTE TELEMETRY  
INSTRUMENTATION SYSTEMS  
SECURITY SENSORS  
LAND BASED NAVIGATION AIDS  
EMERGENCY LIGHTING  
POWER SOURCE FOR MODELS AND EDUCATIONAL PROJECTS  
OFF GRID POWER SUPPLIES  
POWER SOURCE FOR ELECTRIC FENCING.

**Part No. SP10**

Peak Power (W)	10W
Max. Current (ImP)	0.555A
Max. Voltage (Vmp)	18V
Short Circuit Current (Isc)	0.58A
Open Circuit Voltage (Voc)	21.6V
Dimensions	340 x 290 x 25mm
Weight	1.26kg

**New MFA 30W Solar Panel.****Part No. SP30****Part No. SP30**

Peak Power (W)	30W
Max. Current (ImP)	1.66A
Max. Voltage (Vmp)	18V
Short Circuit Current (Isc)	1.82A
Open Circuit Voltage (Voc)	21.8V
Dimensions	736 x 342 x 25mm
Weight	2.9kg

Solar Charging Regulator. Part No. SPM149.

This unit is an electronic switch that switches on the connection to the solar cells if the battery is empty and switches off again when the battery is fully charged. There is a charging LED and a battery full LED on the unit.

**For use with a variety of applications including solar panels, 12v batteries, motorgearboxes etc.**

**CLOCKWORK TIMER. Pt. No. 618**

Compact 30 minute clockwork timer supplied with an easy push fit knob with cursor indication. Unit is faced mounted by 4 only 4x1/4" self tapping screws. Dims 49 x 44 x 46mm. excluding knob shaft.

**12volt FLUORESCENT LAMP. Pt. No. 1121/3**  
Energy saving lamp providing approx. 120w white light with power consumption of only 21w. E27 screw fitting. Ideal where no mains supply is available.

**12V OPERATION ONLY**  
**NOT TO BE USED WITH MAINS ELECTRICITY SUPPLY.**

**12volt LAMP HOLDER. Pt. No. 1121/5**

Plastic construction with aluminium alloy E27 screw socket. Two fixing holes. Ideal for use with 12v fluorescent lamp. Mounting ring dia. 63mm.

**12V OPERATION ONLY.**  
**NOT TO BE USED WITH MAINS ELECTRICITY SUPPLY**

**The MFA/Como Drills**

**51**

# **Mini Drill Kit**

**Part No. 399DPLUS**

**DRILLS  
CUTS  
POLISHES  
ENGRAVES  
SANDS  
CARVES  
ETC.**

**WOOD  
PLASTIC  
METALS  
COMPOSITES  
GLASS  
CERAMICS  
ETC.**

- \* Includes new "MicroTurbo 1 plus" handset.
- \* Powerful, precise and very compact mini drill.
- \* 16 piece toolkit includes drills, burrs, abrasives, brushes, cutting disc, mop, etc.
- \* carry case with rigid plastic workstation insert.
- \* 220/240v input, 12 volt output, variable speed transformer with electronic (torque maintained) circuitry.

**MAKES LIGHT WORK OF THOSE MORE DIFFICULT INTRICATE TASKS  
IN THE HOME AND WORKSHOP.**

# Thunderbolt 52

**Powercuts! - Emergency lighting a problem?**

**In inaccessible areas the MFA/Como Thunderbolt Rechargeable Freestanding Lamp is your answer**

**MFA/Como set new standards with the**

## **MK2 'THUNDERBOLT STAND-ALONE LAMP'**

now 1.1/2Kg (3lbs)  
LIGHTER with  
VARIABLE LIGHT  
OUTPUT  
(via dimmer).

- \* Ultra bright 21W flourescent light.
- \* Long duration.  
*up to 10 hours on max,  
up to 15 hours on mid,  
up to 24 hrs low setting.*
- \* Rechargeable.
- \* Rugged and stable.
- \* Weather resistant.
- \* Removeable reflector for all round lighting.
- \* Internal circuit protection.
- \* Spares and service readily available
- \* Now just 4 kgs.

**Includes advanced 3 stage charger**

**(allows continuous connection for battery charging when lamp not in use)**

**OPTIONAL EXTRA.**

To recharge your Thunderbolt Lamp in remote situations  
Fishing, Camping etc.

**MFA SOLAR PANEL.(Part No. SP10T.)**

12 volt 10 watt output. In average sunlight conditions will re-charge Thunderbolt battery in approx 10 hours from battery low condition.

**Part No. 1122**

**Spares readily available.**

**NO RISK OF PETROL/PARAFFIN  
CONTAMINATION - NO MANTLE  
PROBLEMS**

**includes the advanced 3 stage charger.**

**MFA/COMO DRILLS** FELDERLAND LANE. WORTH. DEAL. KENT. CT14 0BT

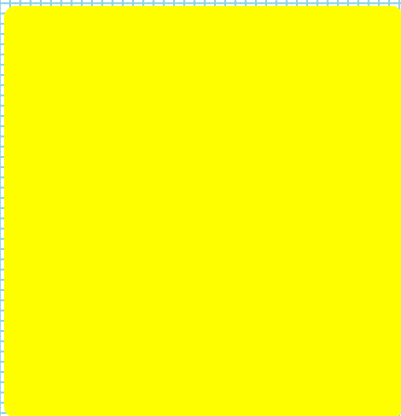
TEL: 01304 612132.  
E-MAIL: info@mfacomo.com

FAX: 01304 614696  
www.mfacomodrills.com

THE ABOVE FIGURES ARE A GUIDE ONLY AND DO NOT FORM ANY CONTRACTUAL OBLIGATION ON THE PART OF MFA/COMO DRILLS.

**MFA '3 watt' LED HEADLAMP. Part No. 1077MK4COMP**

**'3'  
watt  
LED  
  
NEW  
FOR  
2006**



**PROVIDES APPROX. 5 - 25 HOURS OF  
USABLE LIGHT FROM A FULL CHARGE  
(DEPENDING ON SWITCH MODE)**

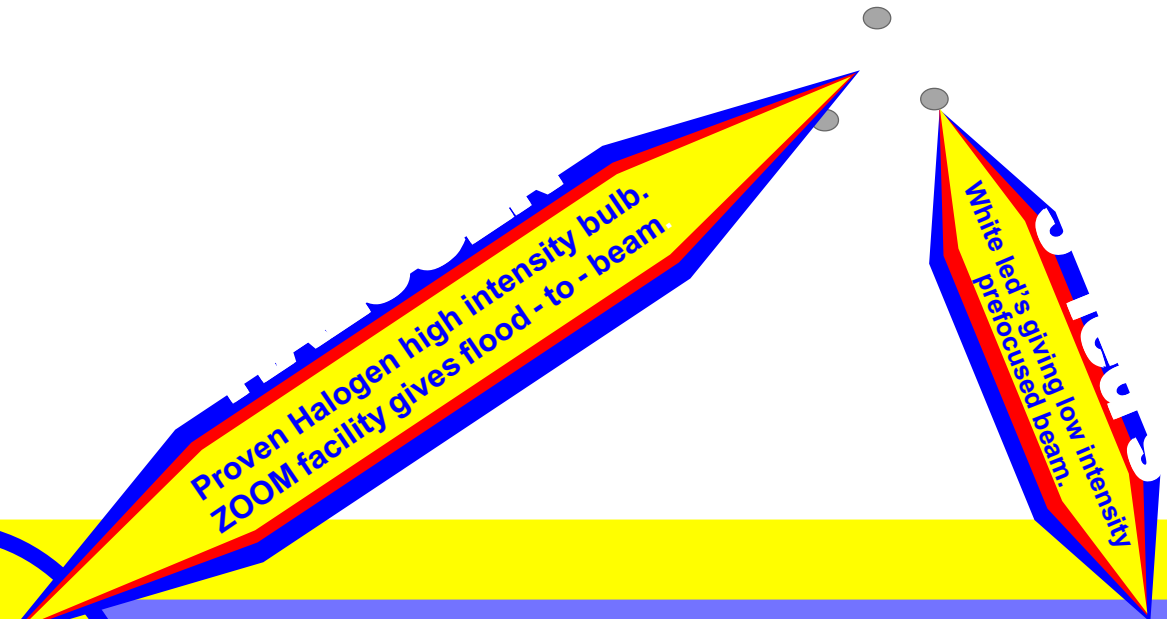
**'3 watt' LED  
HEADLAMP COMPLETE.  
Part No. 1077MK4COMP**

**This kit consists of the  
headlight, pre-wired extendable curly coil lead,  
pre-charged 6v 4ah battery including  
'splash-proof' battery pouch,  
plug-in wall battery charger.**



**MFA 2'n'1 DUAL ZOOM HALOGEN & 3 LED HEADLAMP**  
**Part No. 1077MK3COMP**

**2 'n' 1 Dual Zoom**



A combination giving exceptional endurance.  
**7.5 to 45** hours per charge dependant on low/high switch selection

Also available as separate options:-  
**BASE HEADLAMP (Pt. No. 1077/27)**  
**EXTENDED DURATION KIT (Pt. No. 1077D)**

**All spares readily available**

R.R.P. (INC VAT)

R.R.P. (INC VAT)

Description	Part No. 917D	Ratio	R.R.P.
Multi ratio Gearbox (ready to assemble)			
Multi ratio Gearbox (pre-assembled)	Part No. 917D/A		£4.99
Fixed ratio Gearbox (pre-assembled)	Part No. 917D/A		£6.99
Fixed ratio Gearbox (pre-assembled)	Part No. 918D06/1	6:1 ratio	£9.95
Fixed ratio Gearbox (pre-assembled)	Part No. 918D15/1	15:1 ratio	£9.95
Fixed ratio Gearbox (pre-assembled)	Part No. 918D15/1/1	15:1 ratio	£9.95
Fixed ratio Gearbox (pre-assembled)	Part No. 918D15/11/2	15:1 ratio	£10.95
Fixed ratio Gearbox (pre-assembled)	Part No. 918D30/1/1	30:1 ratio	£9.95
Fixed ratio Gearbox (pre-assembled)	Part No. 918D30/1/2/1	30:1 ratio	£10.95
Fixed ratio Gearbox (pre-assembled)	Part No. 918D100/1/1	100:1 ratio	£9.95
Fixed ratio Gearbox (pre-assembled)	Part No. 918D100/1/2/1	100:1 ratio	£10.95
Fixed ratio Gearbox (pre-assembled)	Part No. 918D250/1/1	250:1 ratio	£10.95
Fixed ratio Gearbox (pre-assembled)	Part No. 918D250/1/2/1	250:1 ratio	£11.95
Fixed ratio Gearbox (pre-assembled)	Part No. 918D1024/1/1	1024:1 ratio	£11.95
Fixed ratio Gearbox (pre-assembled)	Part No. 918D1024/1/2	1024:1 ratio	£12.16
Fixed ratio Gearbox (pre-assembled)	Part No. 919D10/1	11:1 ratio	£18.95
Fixed ratio Gearbox (pre-assembled)	Part No. 919D11/1/24V	11:1 ratio	£20.95
Fixed ratio Gearbox (pre-assembled)	Part No. 919D1001	100:1 ratio	£18.95
Fixed ratio Gearbox (pre-assembled)	Part No. 919D1481	148:1 ratio	£18.95
Fixed ratio Gearbox (pre-assembled)	Part No. 919D1481/24V	148:1 ratio	£20.95
Bevel Gearbox	Part No. 919D24	1:1	£19.95
Fixed ratio Gearbox (pre-assembled)	Part No. 919D24.51	2.5:1 ratio	£18.95
Fixed ratio Gearbox (pre-assembled)	Part No. 919D2.51/24V	2.5:1 ratio	£20.95
Fixed ratio Gearbox (pre-assembled)	Part No. 919D3000/1	3000:1 ratio	£24.57
Fixed ratio Gearbox (pre-assembled)	Part No. 919D3000/1/24V	3000:1 ratio	£26.57
Fixed ratio Gearbox (pre-assembled)	Part No. 919D50/1	50:1 ratio	£18.95
Fixed ratio Gearbox (pre-assembled)	Part No. 919D50/1/24V	50:1 ratio	£20.95
Fixed ratio Gearbox (pre-assembled)	Part No. 919D5001	500:1 ratio	£21.98
Fixed ratio Gearbox (pre-assembled)	Part No. 919D61/24V	6:1 ratio	£18.95
Fixed ratio Gearbox (pre-assembled)	Part No. 919D81/01	810:1 ratio	£23.98
Fixed ratio Gearbox (pre-assembled)	Part No. 919D81/01/24V	810:1 ratio	£25.98
Multi ratio Gearbox, as 917D but with larger RE280 motor	Part No. 9200/A		£8.95
Multi ratio Gearbox, as 917D/A but with RE280 motor	Part No. 927D/A		£8.95
Multi ratio Gearbox, as 917D/A but with RE 280/1 (12-24V motor)	Part No. 927D/A		£8.95
Multi ratio Gearbox, as 917D but with RE140/1 (6-9V Motor)	Part No. 932D/A		£4.99
Multi ratio Gearbox, as 917D/A but with RE140/1 (6-9V Motor)	Part No. 932D/A		£6.99
Planetary Gearbox (epicyclic)	Part No. 940D51	5:1 ratio	£19.78
Planetary Gearbox (epicyclic) 24 volt motor	Part No. 940D51/24V	5:1 ratio	£22.78
Planetary Gearbox (epicyclic)	Part No. 940D1001	100:1 ratio	£26.93
Planetary Gearbox (epicyclic) 24 volt motor	Part No. 940D1001/24V	100:1 ratio	£29.93
Planetary Gearbox (epicyclic)	Part No. 940D2641	264:1 ratio	£31.16
Planetary Gearbox (epicyclic)	Part No. 940D5161	516:1 ratio	£34.16
Planetary Gearbox (epicyclic) 24 volt motor	Part No. 940D5161/24V	516:1 ratio	£36.16
Planetary Gearbox (epicyclic) Sub miniature.	Part No. 941D41	4:1 ratio	£13.40
Planetary Gearbox (epicyclic) Sub miniature.	Part No. 941D621	62:1 ratio	£18.61
Planetary Gearbox (epicyclic) Sub miniature.	Part No. 941D2311	231:1 ratio	£21.75
Planetary Gearbox (epicyclic) Sub miniature.	Part No. 941D10141	1014:1 ratio	£24.36
Planetary Gearbox (epicyclic)	Part No. 942D51	5:1 ratio	£21.78
Planetary Gearbox (epicyclic)	Part No. 942D1001	100:1 ratio	£28.93
Planetary Gearbox (epicyclic)	Part No. 942D2641	264:1 ratio	£33.16
Planetary Gearbox (epicyclic)	Part No. 942D5161	516:1 ratio	£33.16
Planetary Gearbox (epicyclic) 24 volt motor	Part No. 942D5161/24V	516:1 ratio	£36.66
Planetary Gearbox (epicyclic)	Part No. 944D41	4:1 ratio	£14.04
Planetary Gearbox (epicyclic)	Part No. 944D621	62:1 ratio	£19.20
Planetary Gearbox (epicyclic)	Part No. 944D1004	104:1 ratio	£19.20
Planetary Gearbox (epicyclic)	Part No. 944D2311	231:1 ratio	£22.34
Planetary Gearbox (epicyclic) 24 volt motor	Part No. 944D2311/24V	231:1 ratio	£22.34
Fixed ratio Gearbox (pre-assembled)	Part No. 950D5.1	2.5:1 ratio	£17.19
Fixed ratio Gearbox (pre-assembled)	Part No. 950D61	6:1 ratio	£17.19
Fixed ratio Gearbox (pre-assembled)	Part No. 950D111	11:1 ratio	£17.19
Fixed ratio Gearbox (pre-assembled)	Part No. 950D501	50:1 ratio	£17.19
Fixed ratio Gearbox (pre-assembled)	Part No. 950D1001	100:1 ratio	£17.19
Fixed ratio Gearbox (pre-assembled)	Part No. 950D1481	148:1 ratio	£17.19
Fixed ratio Gearbox (pre-assembled)	Part No. 950D5001	500:1 ratio	£20.22
Fixed ratio Gearbox (pre-assembled)	Part No. 950D8101	810:1 ratio	£20.22
Fixed ratio Gearbox (pre-assembled)	Part No. 950D30001	3000:1 ratio	£22.81
Fixed ratio Gearbox (pre-assembled)	Part No. 950D3000/124V	3000:1 ratio	£26.57
Belt Drive reduction unit (Rocket 800 motor)	Part No. 960D211	2.1:1 ratio	£59.95
Belt Drive reduction unit (Rocket 850 motor)	Part No. 960D211	2.1:1 ratio	£59.95
Belt Drive reduction unit without motor	Part No. 966D2.11	2.1:1 ratio	£39.95
6:1 ratio	Part No. 970D61		£24.83
16:1 ratio	Part No. 970D161		£24.83
47:1 ratio	Part No. 970D471		£24.83
156:1 ratio	Part No. 970D1561		£24.83
750:1 ratio	Part No. 970D7501		£27.86
2812:1 ratio	Part No. 970D2812		£30.44
4:1 ratio	Part No. 975D41		£34.76
104:1 ratio	Part No. 975D1041		£41.63
504:1 ratio	Part No. 975D5041		£44.42
6:1 ratio	Part No. 980D61		£23.07
16:1 ratio	Part No. 980D161		£23.07
47:1 ratio	Part No. 980D471		£23.07
156:1 ratio	Part No. 980D1561		£23.07
750:1 ratio	Part No. 980D7501		£26.10
2812:1 ratio	Part No. 980D2812		£28.68
4:1 ratio	Part No. 986D41		£92.05
100:1 ratio	Part No. 986D1001		£96.94
488:1 ratio	Part No. 986D4881		£105.26
4:1 ratio	Part No. 990D41		£25.62
64:1 ratio	Part No. 990D641		£33.88
256:1 ratio	Part No. 990D2561		£38.45
4:1 ratio	Part No. 995D41		£125.16
100:1 ratio	Part No. 995D1001		£141.60
488:1 ratio	Part No. 995D4881		£150.75
4:1 ratio	Part No. 996D41		£
50:1 ratio	Part No. 996D501		£
102:1 ratio	Part No. 996D1021		£
493:1 ratio	Part No. 996D4931		£
4:1 ratio	Part No. 997D41		£
49:1 ratio	Part No. 997D491		£
103:1 ratio	Part No. 997D1031		£
445:1 ratio	Part No. 997D4451		£
4:1 ratio	Part No. 998D41		£
52:1 ratio	Part No. 997D521		£
98:1 ratio	Part No. 997D981		£
517:1 ratio	Part No. 997D5171		£
6:1 ratio			£1-69
156:1 ratio			£2-69
750:1 ratio			£7-68
2812:1 ratio			£1-48
4:1 ratio			£1-97
104:1 ratio			£6-35

**ALL ITEMS IN THIS RANGE CARRY THE €€ MARK WHERE APPLICABLE.**

**ACCESSORIES FOR 917D, 917D/A, 920D/A, 927D/A, 927D, 927D/A.**

**RACK & PINION SET.** PT.No.917D/1. Consists of 1 rack 917D2430, 1 pinion 917D2401, 2 self-tapping mounting screws. For turning the rotary output of the gearbox to linear one. The pinion gear is a press fit onto the shaft, be careful not to bend the shaft. The rack can be attached to most surfaces e.g. wood/plastic/metal by drilling the appropriate size holes first to take the self-tapping screws.

**CHAIN & SPROCKET SET.** PT.No. 917D/3. Consists of 2 small chain sprockets 8 tooth 917D2445, 2 large sprockets 16 tooth 917D2446, and 1 metre (approx) length of chain 917D2448. For vehicle/robot final drive etc. Use two large or two small to obtain 1 to 1 ratio, one large and one small to obtain reduction as desired. The chain can easily be cut to desired length(s) by opening each side of a link with a pair of pointed pliers, removing a length and the links carefully tightened again. The sprockets are a press-fit onto the gearbox shaft so, be careful not to bend the shaft!

**WORM DRIVE SET.** PT.No.917D/4. Consists of 1 worm gear 917D2420 and 1 spur gear 917D2404. To obtain very slow output speeds, as well as turning the output through 90 degrees. The pinion gear is a press fit onto the gearbox shaft, be careful not to bend! Note the spur gear has many holes moulded in it, these can be used for operating micro-switches by simply inserting appropriate pins/nuts & bolts.

**CROWN WHEEL & PINION.** PT.No.917D/5. Consists of 1 crown wheel 917D2440 and one pinion 917D2401. For turning the output shaft drive through 90 degrees. The pinion is a press fit onto the gearbox shaft, be careful not to bend!

**SPUR GEAR SET.** PT.No.917D/6. Consists of 1 each spur gear, 10 tooth 917D2401, 20 tooth 917D2403 & 40 tooth 917D2404. For reducing/increasing the r.p.m. of the gearbox shaft. Also for taking the drive away from the gearbox (e.g. vehicle drive axle).

**PULLEY SET.** PT.No.917D/7. Consists of one 915.5mm dia pulley, one 14/10mm dia pulley, one 30/25mm dia pulley 3.9mm bore with brass sleeve to free wheel on 3mm dia shaft, one 70 x 5mm "O" ring belt drive and two micro-switch pins.

ACCESSORIES FOR 917D, 917D/A, 920D, 920D/A, 927D & 927D/A

R.R.P (inc VAT)

Inline Coupling, 3mm-3mm	Pkt of 1
Inline Coupling, 3mm-4mm	Pkt of 1
Voltage Regulator 6v-15v DC input, 1.5v, 1.5amp output	
Voltage Regulator 6v-15v DC input, 4.5v, 1.5amp output	
Gearbox Motor Kit	Pkt of 1
Gear, 10 tooth, 2.9mm bore.	Pkt of 10
Gear, 15 tooth, 2.9mm bore.	Pkt of 10
Gear, 20 tooth, 2.9mm bore.	Pkt of 10
Gear, 40 tooth, 2.9mm bore.	Pkt of 10
Stop Rings.	Pkt of 10
Micro-switch operating pins.	Pkt of 10
Warm Drive.	Pkt of 10
Custom Gearbox Brackets	Pkt of 2
Gearbox Brackets	Pkt of 10
Rack	Pkt of 10
Crown Gear	Pkt of 10
Chain Sprocket, 8 tooth 2.9mm bore	Pkt of 10
Chain Sprocket, 16 tooth 2.9mm bore	Pkt of 10
Chain in 1 metre length approx.	Pkt of 10
Double Gear, 48/12, 2.9mm bore	Pkt of 10
Double Gear, 48/12, 3.1mm bore	Pkt of 10
Pinion - 12 tooth (for motor), 1.9mm bore	Pkt of 10
Pulley - 14/10mm dia, 2.9mm bore	Pkt of 10
Pulley - 30/25mm dia, 2.9mm bore	Pkt of 10
Pulley - 30/25mm dia, 3.9mm bore with brass sleeve	Pkt of 10
Pulley - 8/5.5mm dia, 2.9mm bore	Pkt of 10
Robotic Wheels - 25mm x 17mm, 2.6mm bore	Pkt of 4
Robotic Wheels - 35mm x 10mm, 2.6mm bore	Pkt of 4
Robotic Wheels - 51mm x 16mm, 2.6mm bore	Pkt of 4
Robotic Wheels - 79mm x 19mm, 3.5mm bore	Pkt of 4
Robotic Wheels - 37mm x 16mm, 2.6mm bore	Pkt of 4
Robotic Wheels - 44mm x 16mm, 2.6mm bore	Pkt of 4
Robotic Wheels - 56mm x 16mm, 2.6mm bore	Pkt of 4
Robotic Wheels - 54mm x 30mm, 2.6mm bore	Pkt of 1
'O' Ring, 70mm x 5mm dia.	Pkt of 1
Perforated Metal Strip, 8.5mm x 300mm	Pkt of 5
Perforated Metal Sheet, 150mm x 200mm	Pkt of 1
Shaft (long for output) 3mm dia	Pkt of 10
Shaft (short for intermediate) 3mm dia	Pkt of 10
Brass spacer 5mm	Pkt of 10
Brass spacer 8mm	Pkt of 10
Spacers - 25mm	Pkt of 10
Spacers - 30mm	Pkt of 10
Gearbox Brackets	Pkt of 2

ACCESSORIES FOR 918D SERIES GEARBOX, (WITH RE280 MOTOR & RE280/1 MOTOR)

Inline Coupling, 2mm - 3mm.	Pkt of 1
Pinions (plastic) 12 tooth	Pkt of 1
Pulley 25mm Dia (Aluminium)(2mm bore)	Pkt of 1
Pulley 25mm Dia (Aluminium)(4mm bore)	Pkt of 1
Pulley 16mm Dia (Aluminium)(2mm bore)	Pkt of 1
Pulley 16mm Dia (Aluminium)(4mm bore)	Pkt of 1
Gear Adapter (for 917D2401, 2402, 2403, 2404)(2mm bore)	Pkt of 1
Gear Adapter (4mm bore)	Pkt of 1
Nylon bevel gears 1:1 (4mm bore)	Pkt of 2
'O' Ring 70mm x 5mm Dia	Pkt of 1
Steel Shaft (4mm OD x 150mm	
Bearing Block 4mm I.D.	
Universal Coupling (4mm - 4mm)	(Pair)

ACCESSORIES FOR 919D & 950D SERIES GEARBOX.

R.R.P (inc VAT)

In-Line Coupling, 6mm- 6mm	Pkt of 1
In-Line Coupling, 6mm- 8swg (mechano)	Pkt of 1
Universal Coupling, 5mm- 6mm	Pkt of 1
In-Line Coupling, 5mm- 5mm	Pkt of 1
Speed Regulator (6-15v DC input, 4v-12v output)	
Speed Regulator, (as 919D2, Panel Mounted)	
Speed Regulator, (as 919D2P but 24v)	
Pulley 16mm Dia (Aluminium)(6mm bore)	Pkt of 1
Pulley 25mm Dia (Aluminium)(6mm bore)	Pkt of 1
Timing Pulley, 10tooth	Pkt of 1
Timing Pulley, 12tooth	Pkt of 1
Timing Pulley, 14tooth	Pkt of 1
Timing Pulley, 16tooth	Pkt of 1
Timing Pulley, 20tooth	Pkt of 1
Timing Pulley, 25tooth	Pkt of 1
Timing Pulley, 30tooth	Pkt of 1
Timing Pulley, 35tooth	Pkt of 1
Timing Pulley, 44tooth	Pkt of 1
Timing Belt, Length (circumference) 165mm	Pkt of 1
Timing Belt, Length (circumference) 185mm	Pkt of 1
Timing Belt, " " " 200mm Pkt of 1	
Timing Belt, " " " 305mm Pkt of 1	
Timing Belt, " " " 390mm Pkt of 1	
Timing Belt, " " " 455mm Pkt of 1	
Timing Belt, " " " 545mm Pkt of 1	
Timing Belt, " " " 630mm Pkt of 1	
Timing Belt, " " " 840mm Pkt of 1	
Bevel Gearbox, 1:1	Pkt of 1
Bevel Gears (pair nylon)	Pkt of 2
Steel Shaft, 5mm OD x 150mm	Pkt of 1
Gear Adapter (for 917D2401, 2402, 2403, 2404) Pkt of 1	
RFI Screening self adhesive 210mm x 297mm	
Double Ended Motor Mount	
Bearing Blocks, 5mm I.D.	Pkt of 2
Bearing Blocks, 6mm I.D.	Pkt of 2
Spares 8mm pinion	Pkt of 1
Sound absorption pad	Pkt of 1
'O' Ring 70mm x 5mm Dia	Pkt of 1
Universal Coupling (6mm - 6mm)	
'O' ring (70 x 5mm)	

ACCESSORIES FOR GEARBOXES, 917D, 917D/A, 918D, 919D, 920D & 920D/A.

Motor Suppression Kit	Pt No 259	£0.75
Sound Suppression Kit	Pt No 308B/G/B	£1.50
Solar Panel, 95 x 65 x 7.5mm, 0.45volt output	Pt No 1070	£5.95
Anti Vibration Mounts M3 (Rubber size, dia. 8mm, Length 8mm)(Pkt 4)	Pt No. 1071	£6.84
Anti Vibration Mounts M4 (Rubber size, dia 15mm, Length 15mm)(Pkt 4)	Pt. No. 1072	£6.99
MFA/COMO DRILLS TITAN BATTERIES.		
2v 10.5 AH, Re-chargeable sealed lead acid, Size 54 x 58 x 95	Pt No 178	£9.53
6v 3 AH, "	Pt No 629	£17.95
6v 4 AH, "	Pt No 177	£9.40
6v 12AH, "	Pt. No. 1153	£18.96
12v 1.2AH "	Pt. No. 1085	£12.97
12v 1.9AH "	Pt. No. 1084	£15.66
12v 3 AH, "	Pt No 887	£18.95
12v 7 AH, "	Pt No 1113	£18.95
12v 12AH "	Pt. No. 1161	£34.95
Battery Charger for above, MFA 2-6-12 Charger	Pt No 229	£25.95
Battery Charger Plug-in, 12 volt	Pt No 827	£11.95
Battery Charger Plug-in, 6 volt	Pt. No. 1077/5M0D	£11.95
Variable Speed Transformer	Pt. No. 400HDH	£44.09

DELIVERY & PACKING. For all orders please add £2-50. (UK mainland only) Please allow for postal delivery times.

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