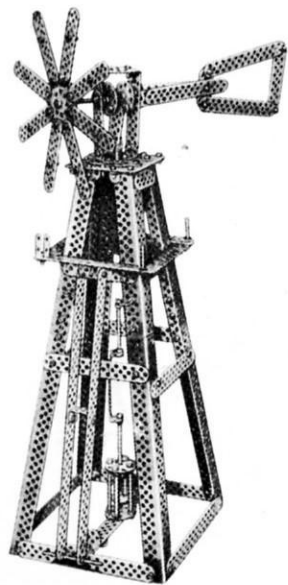


WINDMILL PUMP



DESCRIPTION

Used for raising water for agricultural and other purposes. By a special device which turns the sails away from the wind, when the force is too great, a fairly even pumping speed can be maintained.

CONSTRUCTION

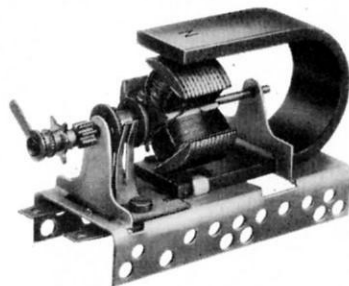
The tower uprights are made with A27's and A18's, braced at the foot by F17's and half-way up by F13's. The catwalk is made with A9's joined by F5's, secured by two S25's and two SU2's.

The upper platform consists of F9's bolted to form a square and attach to uprights by A1's.

SPECIFICATION

Part No.		Part No.		Part No.	
A1	8	F17	8	SU2	2
A9	4	N1	168	U1	4
A18	4	P29	5	U2	1
A27	4	P49	2	U3	2
B1	108	S25	4	W10	4
F5	14	S55	7	W16	5
F9	20	S87	2		
F13	8	SU1	1		

Permag ELECTRIC MOTOR 2051



The sturdy and surprisingly powerful Trix "Permag" motor is used to drive and operate many of the models.

Mounted on a girder-type base which enables it to be bolted in position within the framework of the model it is working.

The powerful permanent magnet gives a strong "field" and the tripolar laminated armature revolves in sturdy bearings, giving only minimum air gap between the pole-pieces and the magnet. This means that the motor is very economical in current.

For light model work it will run from a single pocket flash lamp battery ($4\frac{1}{2}$ volts), but for heavy work (such as driving cranes or lifting heavy loads) it is better to use batteries with a bigger capacity, e.g., bell batteries or accumulators. Any battery giving between 4 and 8 volts is suitable. The motor should never, of course, be connected up to the house lighting mains, whether A.C. or D.C.

One of the great features of this motor is that it can be used to drive by belt, by chain, by gear or by direct shaft drive. It is very light in proportion to the power it develops and every boy who runs models will want to have one.

TRIX

EXTRA - PAKS

These Extra-paks are used in conjunction with the Trix Construction Sets, and the models on which they are used are fully illustrated and described in the four different sets of assembly blue-prints which can be obtained.

Set No. 1/13/H ... 13 simple models.

Set No. 2/11/H ... 11 more advanced models.

Set No. 3/15/H ... 15 very advanced models.

Set No. 4/9/S ... 9 electric battery-operated models.

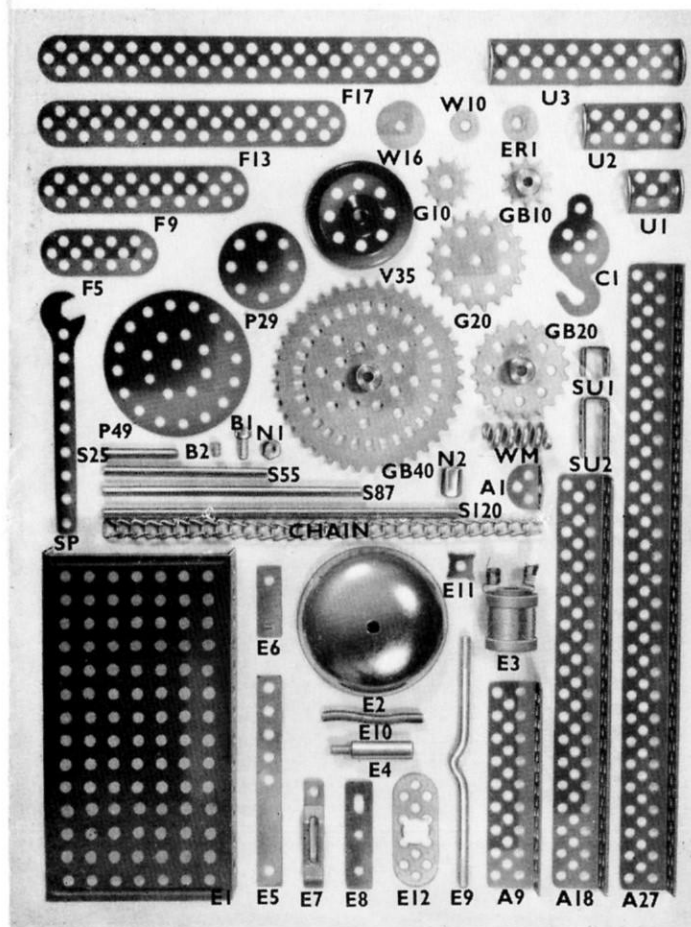
Leaflet SCD illustrates 50 Standard Construction Details, including Double Disc Wheels; Crank and Pulleys; Piston and Cylinder; Hoist Mechanisms, etc. In addition to illustrating and describing the famous Trix Permag Electric Motor No. 2051.

Any two of the above will be sent post free on receipt of 1s. stamps, or the whole set of 5 will be sent for 2s. 6d.

TRIX

310 SUMMER LANE, BIRMINGHAM 19

Part No.	Description	No. Used per Pak
EXTRA-PAK No. 1		
P49	Pierced Disc	2
S87	Spindle	1
SU1	'U' Piece	2
SU2	'U' Piece	2
U3	'U' Piece	2
V35	Dished Pulley	2
EXTRA-PAK No. 2		
A9	Angle Piece	2
E12	Lamp Holder	1
S87	Spindle	1
V35	Dished Pulley	2
EXTRA-PAK No. 3		
A1	Angle Piece	1
B1	Bolt	12
F5	Flat Strip	2
N1	Nut	24
U1	'U' Piece	1
U2	'U' Piece	2
W10	Washer — Small	1
EXTRA-PAK No. 4		
A18	Angle Piece	1
E6	Contact Spring	4
E7	Commutator Brush	2
E8	Fibre Insulator	2
E10	Connecting Coil	2
W10	Washer — Small	4
EXTRA-PAK No. 5		
A1	Angle Piece	1
A18	Angle Piece	1
E4	Core	1
E5	Brass Strip	1
F5	Flat Strip	2
F9	Flat Strip	2
EXTRA-PAK No. 6		
A27	Angle Piece	2
EXTRA-PAK No. 7		
E3	Bobbin	1
EXTRA-PAK No. 8		
B1	Bolt	24
E11	Commutator	2
ER1	Eccentric Washer	2
P29	Pierced Disc	2
S25	Spindle	2
EXTRA-PAK No. 9		
E2	Bell	1
E9	Crank Axle	1
N1	Nut	24
EXTRA-PAK No. 10		
DS	Double-Ended Spanner	1
SD	Screwdriver	1
SP	Spanner	2



48 DIFFERENT PARTS

ILLUSTRATION SHOWS THE VARIOUS CONSTRUCTOR COMPONENTS USED IN THE TRIX SYSTEM. WITH THEM YOU CAN ACTUALLY MAKE 48 EXCITING MODELS WHICH INCLUDE FUNICULAR RAILWAY, MOBILE DOCKYARD CRANE, WINDMILL PUMP, MORSE TELEGRAPH, ETC. ETC.

Part No.	Description	No. Used per Pak
EXTRA-PAK No. 11		
F5	Flat Strip	8
F17	Flat Strip	4
EXTRA-PAK No. 12		
F9	Flat Strip	10
F13	Flat Strip	3
EXTRA-PAK No. 13		
B2	Grub-Screw	4
C1	Crane Hook	1
E5	Brass Strip	1
E8	Fibre Insulator	2
ER1	Eccentric Washer	2
N2	Connecting Nut	1
P29	Pierced Disc	3
S25	Spindle	2
S55	Spindle	6
S120	Spindle	1
W16	Washer — Large	4
EXTRA-PAK No. 14		
G10	Gear Wheel	1
G20	Gear Wheel	1
GB10	Gear Wheel with Boss	2
GB20	Gear Wheel with Boss	1
GB40	Gear Wheel with Boss	1
EXTRA-PAK No. 15		
CH	Chain	1
EXTRA-PAK No. 16		
U1	'U' Piece	4
U2	'U' Piece	4
U3	'U' Piece	2
V35	Dished Pulley	4
EXTRA-PAK No. 17		
35	Tyre — Small	2
EXTRA-PAK No. 18		
49	Tyre — Large	2
EXTRA-PAK No. 19		
B1	Bolt	24
N1	Nut	36
EXTRA-PAK No. 20		
A1	Angle Piece	5
A18	Angle Piece	2
EXTRA-PAK No. 21		
A9	Angle Piece	2
SU1	'U' Piece	2
SU2	'U' Piece	2
S87	Spindle	2
EXTRA-PAK No. 22		
E1	Base Plate	1
E4	Core	1
E6	Contact Spring	2
E10	Connecting Coil	1
W10	Washer — Small	1
EXTRA-PAK No. 23		
P49	Pierced Disc	2
WM	Worm	2