

MULTITECH SYSTEMS

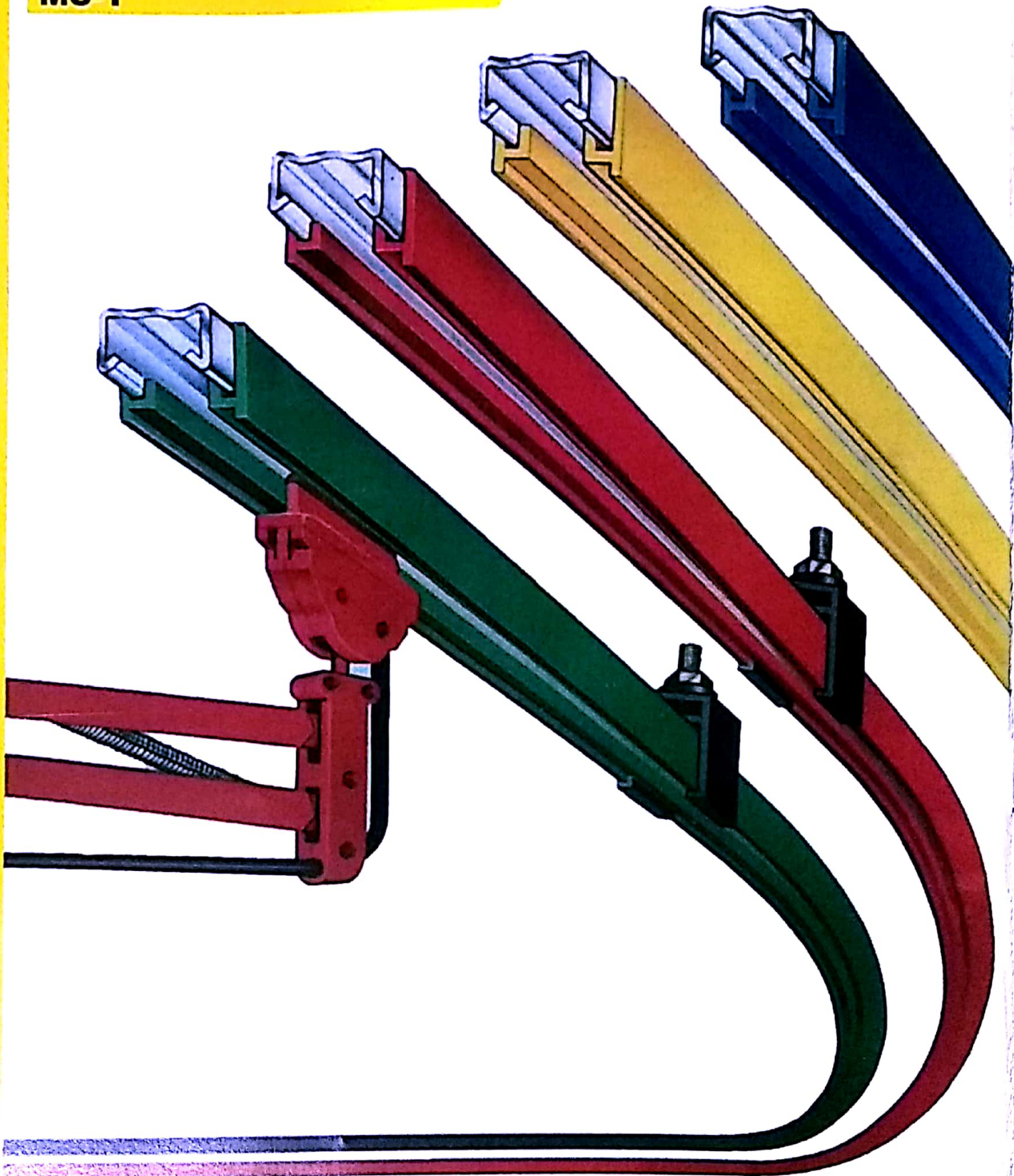


MULTITECH SYSTEMS

E-mail : multitech_systems@yahoo.com

Website : www.multitechsystems.net
: www.multitechsystems.co

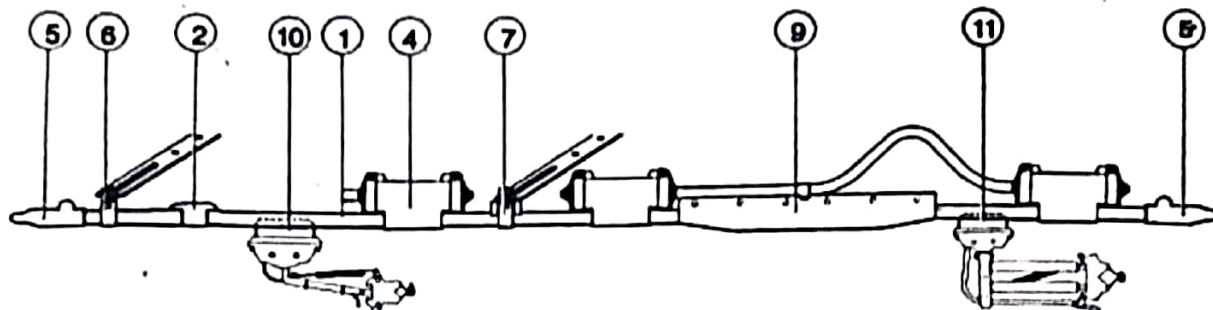
COMPACT SHROUDED CONDUCTOR SYSTEM MS-1



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COMPACT SHROUDED CONDUCTOR SYSTEM

40A - 100A - 250A



Collector and conductor support brackets are available

1. Bar, Covered and pin assembly - 4M Long



No. 101

100A Rolled G.I.
Conductor assembly
250A-Rolled Cu-
Conductor assembly.
40A-Rolled S.S.
Conductor assembly.
Max. Working temp. 80°C



2. Splice Cover



No. 702

Moulded Plastic one
piece clip on cover

3. Crimping tool



No. 703

For copper
conductors only.

4. Centre power feed kit



No. 104



Kit comprising
power feed clamp
fixing nuts and bolts
and insulating cover.

5. End cap



No. 105

Kit comprising stop
bolt and PVC push-on
insulating cover.

6. Hanger clamp



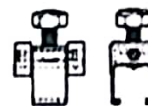
No. 106

Plastic moulded
snap-on type suport.

7. Anchor clamp

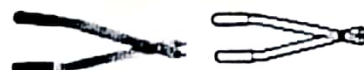


No. 107



Plastic moulded
snap-on type with self
anchoring feature For
use at anchor points.

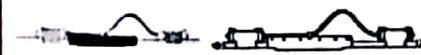
8. Jointing tool



No. 108

Special assembly tool
required to connect
bars on site.

9. Expansion assembly



No. 109

Complete factory
assembled unit of 2
meters over all length.

10. 125A S type collector



No. 110



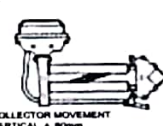
For use with hoist
applications. Straight
runs only.

COLLECTOR MOVEMENT
VERTICAL : 45mm
LATERAL : 35mm

11. 125A D type collector



No. 111



For use on straight/
curved systems.

COLLECTOR MOVEMENT
VERTICAL : 80mm
LATERAL : 80mm

Technical data:

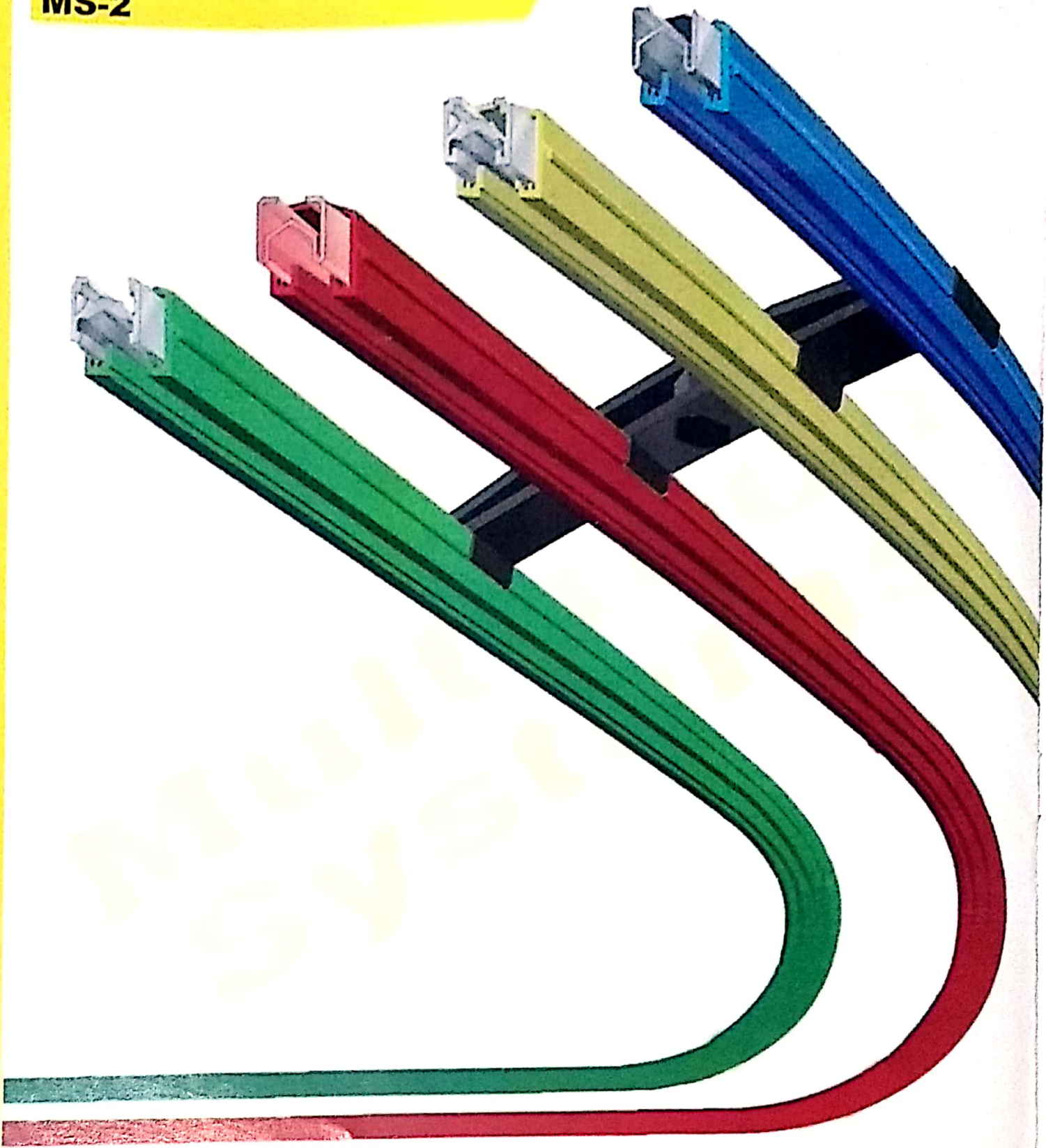
Conductor specing: Indoor 30mm min. / Outdoor 40mmmin.

For working temperatures exceeding 80 C consult our technical department.

NOTE : Tandem collectors are required when expansion sections are fitted.

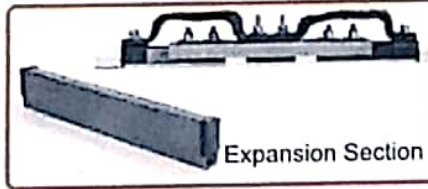
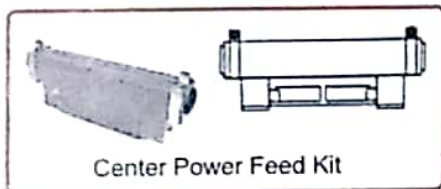
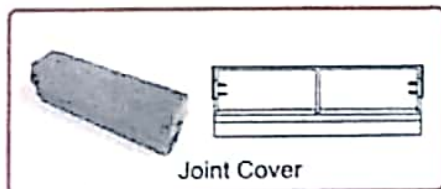
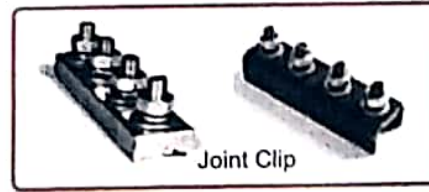
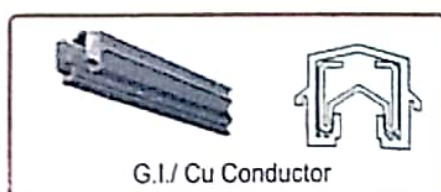
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COMPACT SHROUDED CONDUCTOR SYSTEM **MS-2**



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COMPACT SHROUDED CONDUCTOR SYSTEM



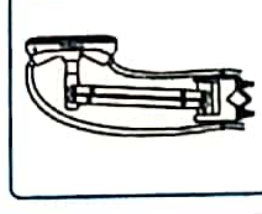
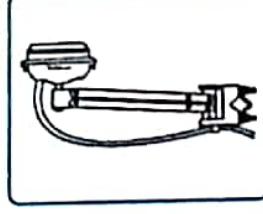
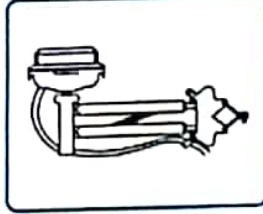
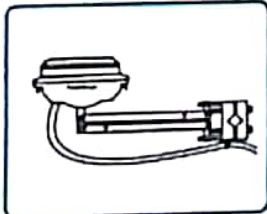
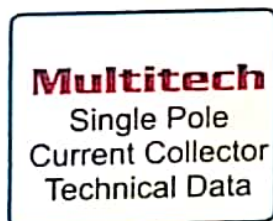
CURRENT COLLECTORS

Heavy Duty Current Collectors are of fully Articulated Design.

This provides multi axis degree of freedom thereby allowing compensation of machine motion tolerances and insulation variation.

Spring Loaded unit provides positive pressure contact with conductors, thus ensures uninterrupted power transmission during motion.

Variety of designs for different applications and site conditions.



Type	MMACC 60	DACC 125	MACC 125	MACC 250
Current Rating	60 A	125 A	125 A	250 A
Collector movement Horizontal / Vertical	± 125 ± 50	± 50 ± 60	± 200 ± 60	± 200 ± 60
Mounting Bracket	16 sqmm bar	25 sqmm bar	25 sqmm bar	25 sqmm bar
Mounting Distance from conductor contact surface	100 mm	127 mm	127 mm	127 mm
Sintered Copper Shoe	125 A	125 A	125 A	250 A
Shoe Holder	Nylon	Nylon	Nylon	ABS
Structure	Metallic	Moulded	Metallic	Metallic

ELECTRO- HYDRAULIC THRUSTERS

Thruster is an electro hydraulic device, designed to exert a constant force to any mechanism to be operated. The Thruster works on a principle of hydraulics. On supply of electric power, motor driven centrifugal impeller draws the oil from the low pressure end of the chamber to the high pressure upper end. The piston mounted on the same shaft moves to the upper end with full thrust, till its movement is stopped by the stopper shoulder at the end of the stroke. Pressure build up stops when power is discontinued. Radial blade design of the impeller enables it to rotate both in clockwise and anticlockwise direction. Therefore power supply to star connection can be in any R-Y-B phase sequence.

SPECIAL FEATURES :-

- Packaged self contained unit -No external piping and accessories required.
- Self aligned movement
- Rated force available for the entire stroke.
- Compatible for use with any existing or new system.
- Low power consumption.
- Moving parts being immersed in oil, No frictional losses.
- Minimum maintenance.

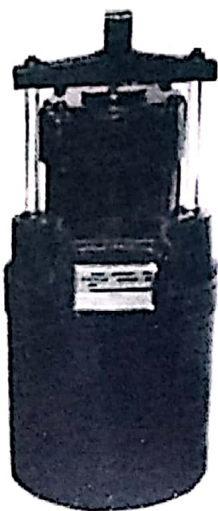


THRUSTER SET 520 :-

A compact 90 watt, 415 volts, 50 cycles, 3 phase Electric motor is directly mounted on the top of a piston. The piston is housed in the C.I. Tank filled with fluid. The piston moves the fluid from low pressure area to high pressure area. The specially designed impeller which is mounted on the motor shaft produces required fluid pressure.

THRUSTER : ST 535 to ST 13300

This range of thruster has two thrust rods and a common piston. The motor is mounted on the top cover of the tank. A separator plate divides the tank in two partitions-low pressure side and high pressure side. The spacer bushes control the thruster. The models are suitable for large capacity, Higher motor ratings and larger thruster forces.



TYPE	Rated output		Input	Dimensions in mm																Weight (kg.)	Oil Capacity Liters
	Thrust Kgs.	Stroke mm	Watts	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q			
ST 520	18	51	90	349	51	59	19	25	13	12.7	19	16	19	32	19	306	121	90	14	2.0	
ST 535	34	51	150	444	51	171	22	29	14	19.1	22	21	27	41	25	250	138	110	30	2.5	
ST 546	45	51	180	444	51	171	22	29	14	19.1	22	21	27	41	25	250	138	110	30	2.5	
ST 870	68	76	200	508	76	216	25	32	16	22.2	25	24	29	48	32	292	152	124	40	4.5	
ST 8110	114	76	250	508	76	216	25	32	16	22.2	25	24	29	48	32	292	152	124	40	4.5	
ST 13200	225	127	420	660	127	254	32	38	19	25.4	29	27	43	54	38	381	152	127	55	9.0	
ST 13300	295	127	580	660	127	254	32	38	19	25.4	29	27	43	54	38	381	152	127	55	9.0	

MAINTENANCE

The thruster is designed for long trouble free service and needs no maintenance. The motor bearings are adequately sized and windings are designed to meet the sudden jerks and shocks. Normal maintenance like topping of the oil levels replacement of oil seal and gaskets is required. The terminal box must be cleaned periodically.

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THRUSTER BRAKES

Thruster Brake is a device to retard the speed and to hold the moving machinery when it is stationary. The braking force to the shoes is applied through the spring by means of lever/ rod mechanism. The shoes are moved clear of the drum again through lever / arm linkage mechanism by thruster which over comes spring force.

"MULTITECH SYSTEMS" offers a complete range of Electro hydraulic thruster for the total range of thruster brakes.

1. Base / Arms :

Rigid welded construction with accessible fixing

2. Shoes :

Self-aligning easily removable high grade cast iron fitted with best quality fabric linings. Large cooling surface drum when brakes are cleared.

3. Tie Rod/ Guide Rod :

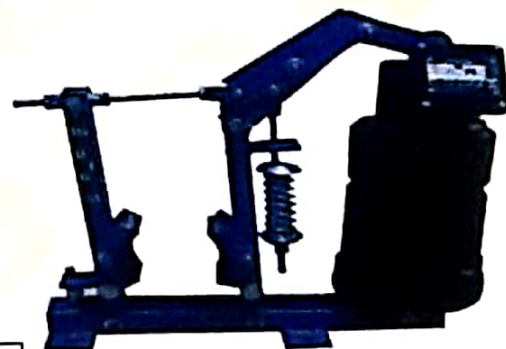
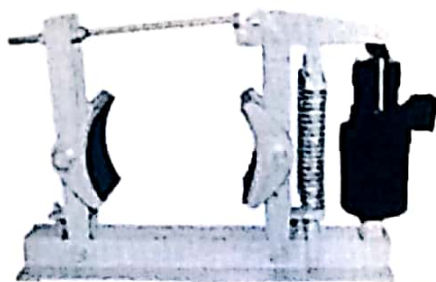
Large Section securely fixed in a lug. The tie rod transmits the spring force on the shoes by a simple lever system.

4. Springs :

Compression springs are vertically mounted through the guide rods and are held securely between guide plates. One or more springs are used depending upon the brake size and thruster capacity to obtain the desired braking torque.

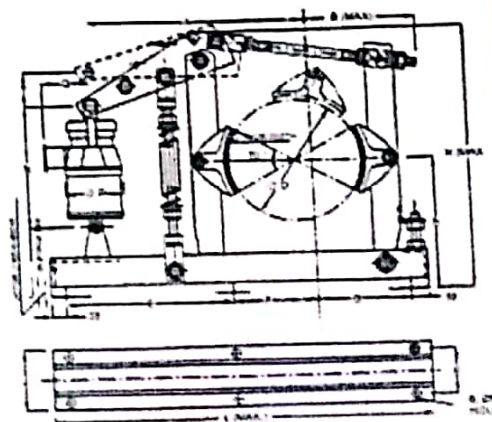
Brake Type	Drum Diameter (mm)	Thruster Capacity (kgs)	Thruster Stroke (mm)	Braking Torque (Kg-M)
MDT 100- 18	100	18	51	6
MDT 160- 18	160	18	51	9
MDT 200- 18	200	18	51	20
MDT 200- 34	200	34	51	32
MDT 250- 18	250	18	51	35
MDT 250- 34	250	34	51	42
MDT 300- 18	300	18	51	42
MDT 300- 34	300	34	51	62
MDT 400- 34	400	34	51	90
MDT 400- 46	400	46	51	110
MDT 400- 68	400	68	76	170
MDT 500- 46	500	46	51	190
MDT 500- 68	500	68	76	290
MDT 500- 114	500	114	76	485
MDT 600- 68	600	68	76	350
MDT 600- 114	600	114	76	580

MILL DUTY THRUSTER BRAKES ROLLING DIMENSIONS AND WEIGHTS

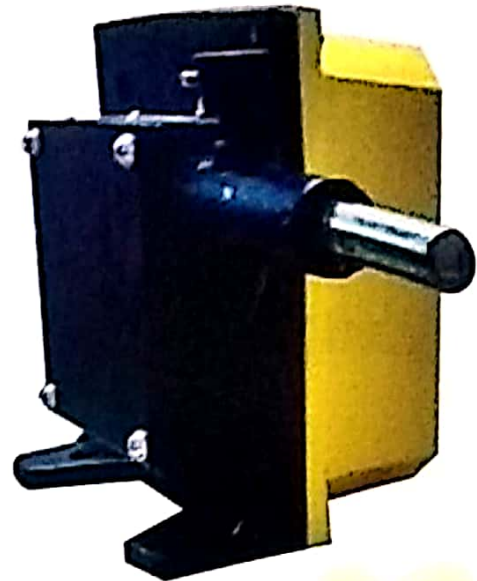


DIMENSIONS DETAILS :

Drum Dia D	100	160	200	250	300	400	500	600	700	800
A	235	265	360	355	430	503	618	688	905	955
B	165	195	215	240	285	350	410	480	585	635
C	70	70	88	100	140	180	200	240	280	320
E	150	150	350	320	460	508	680	765	960	1060
F	-	-	-	-	105	65	150	150	180	205
G	100	100	170	170	250	377	380	465	600	650
H	125	125	200	225	275	310	417	475	550	600
I	415	415	513	563	600	630	857	970	1260	1400
J	130	130	180	160	205	236	302	322	335	350
K	100	100	125	120	145	180	215	235	245	260
L	405	465	600	635	780	955	1130	1300	1650	1800
M	13	13	15	18	20	20	25	25	38	38
Wt. Brake Kgs.	17	20	27	30	70	88	125	190	210	240



ROTARY GEARED LIMIT SWITCHES (MODEL GRLS)



INTRODUCTION :

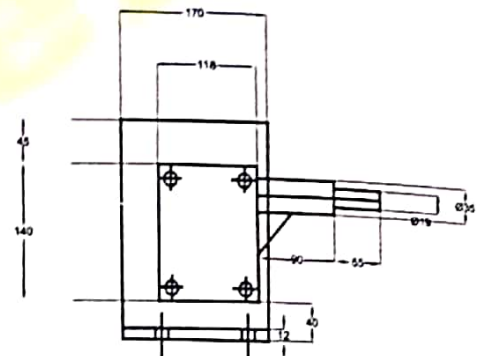
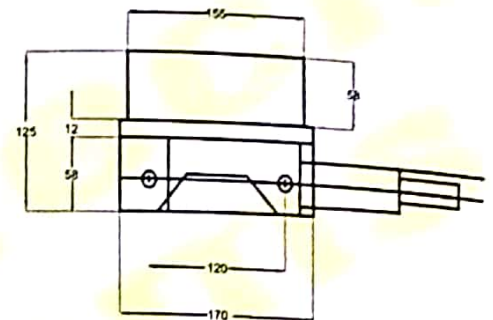
Rotary Geared Limit Switch GRLS is used to trip supply when the moving loads reach the extreme end positions of working zone.

OPERATION :

A two (or more) Contact Elements are operated by respective rotating Cams, Suitable adjusted on a Cam Shaft Which rotates with fixed speed ratio of the drive motor shaft. The Cams can be suitably positioned so that they trip motor supply and stop the motion at the required point of travel.

APPLICATION :

Rotary Geared Limit Switches are suitable for use on reversing drives such as Hoists, Winches, Rolling Mills and various other mechanisms used in steel plants such as Coke Oven, Feeding machinery etc.



BODY MATERIAL	MS Sheet (Powder Coated)
PROTECTION DEGREE	IP-41CONFIRMING TO IS 13947 (PART)-11993
GEAR TATIO	48:1 60:1 96:1
DRIVE	WORM DRIVE
CABLE ENTRIES	2X3/4" CONDUCT
CONTACT MATERIAL	SILVER CADMIUM
RATED VOLTAGE INSULATION	500 V.A.C.
THERMAL TEST CURRENT	10Amps. / 40Amps.
NO. OF CONTACT	2 NC OR 4NC
CAM SETTING	ADJUSTABLE

Rotation	Effective Rotation	Useful Rotation	2 Contacts Model	Contacts Model
48 : 1	42	40	GRLS/48/2SH	GRLS/48/4SH
60 : 1	52	50	GRLS/60/2SH	GRLS/60/4SH
96 : 1	84	80	GRLS/96/2SH	GRLS/96/4SH

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WORM DRIVE LIMIT SWITCHES (FG MODEL)

APPLICATION :-

These Limit Switches are designed and manufactured according to safety standard and are suitable for use on reversing drives such as Hoists Crane Winches Rolling Mills, Coke Oven etc.

DESIGN :-

The driving motion is transmitted by Worm Gear. All Gears and Hub are made of low wear thermoplastic. The rotational movements are transmitted to switches by adjustable cams.

DRIVING CAMS :-

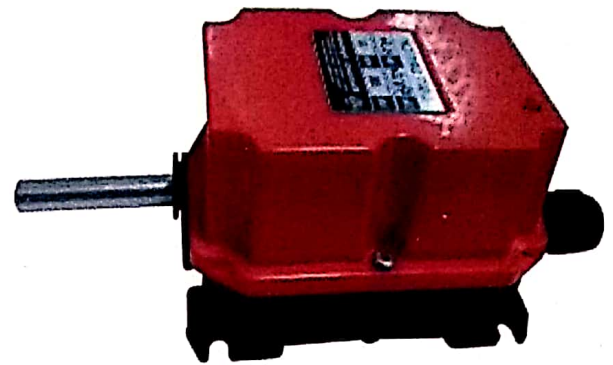
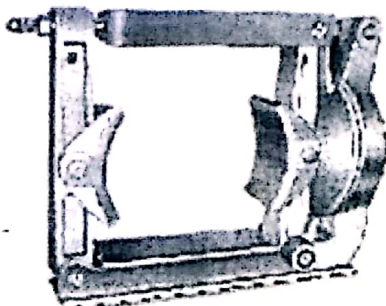
Each lever has a single micro matic register screw.

TECHNICAL DATA :-

Body Material	- Black GFN
Cover Material Yellow	- Impact- Proof Thermo-Plastic
Protection Degree	- IP-55 (is ;1394- Part- I)
Mounting Position	- All Position Mounting
Gear ratios	- 1:12.5, 1:25, 1:100, 1:200 and 1:400
Drive	- Worm Screw
Cable entries	- Twin 3/4" BS conduct
Input speed	- 1200 RPM Maximum
Contacts Material	- Double brake, Silver Cadmium
Wire Connection	- Screw terminal contact
Rated Voltage	- Up to 500 V ac
Thermal Test Current	- 10 A

A. C. ELECTRO MAGNETIC BRAKES

Brakes are suitable for single phase A. C. Supply up to 440V and are available for a wide range of drum size. 100mm to 375mm dia.

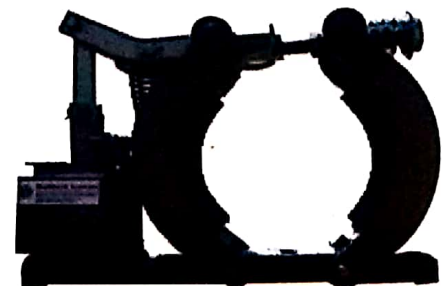


Mechanical Data :

Ratio	Effective Rotations	Useful Rotations	2 Contacts Mode	4 Contacts Mode
1:12.5	12	11.6	FG-12.5 P4	FG-12.5 P4
1:25	24.5	23.2	FG-25 P2	FG-25 P2
1:50	49	46.5	FG-50 P2	FG-50 P2
1:100	98	93	FG-100 P2	FG-100 P2
1:200	196	185	FG-200 P2	FG-200 P2
1:400	392	372	FG-400 P2	FG-400 P2

DIMENSION 'H'

FOR 2 CONTACTS 84mm.
4 CONTACTS 104mm.

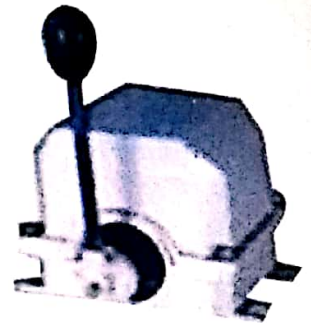


D. C. ELECTRO MAGNETIC BRAKES

Brakes are suitable for 220 Volts D. C. power Supply and are available for a wide range of drum size 100mm to 600mm dia.

MASTER / CAM CONTROLLERS

Master controller are used for remote operation of the equipment like E.O.T. cranes & rolling mills drives etc. the enclosure of the controller confirms to I.P. 54 degrees of protection, making it just proof. It has up to 6 notches either side with maximum 24 contacts as per desired sequence. Controller are provided with spring & Dead man's handle arrangement. They are compact up to 4-0-4 step. Suitable for Hoist-Grab, Cross Travel Long Travel. up to 16 contacts per motion with spring return arrangement is provided.



SALIENT FEATURES

1. Long Life :- Millions of operations are possible without significant wear to melamine cams and contacts which are rated for 40 amps. at 500 V.A.C.
2. Simple Maintenance :- Maintenance is simplified through the use of individual interchangeable contact blocks. Contacts tips can be easily inspected without removing the block or disturbing connections. When contacts are worn, only fixed and moving contacts can be replaced by removing only one screw. The remaining contact block and circuits are undisturbed.
3. Wide Electrical Clearance :- The design of contact block provides generous electrical creepage and clearance preventing arcing between contact blocks or to ground. Heavy duty terminal screws are located for convenience and ease of wiring

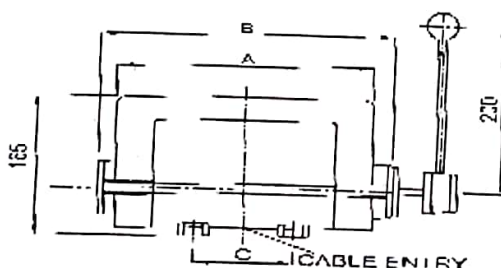
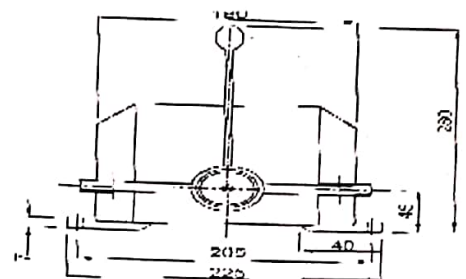
Technical Data :

Body Material	Sheet Steel / Aluminium Die cast
Protection Degree	IP - 44 / IP - 54
Mounting position	Confirming to IS - 13947 (Part-1) 1993
Contact material	Horizontal / Vertical
Rated Voltage Insulation	Silver Cadmium
Thermal Test Current	500 V A.C.
Cable entries	10 Amps.
Frequency of operation	2X20 & 2x26 standard Conduit
Contacts	1000 switching per hour
No. of contacts	Single / double break
No. of steps	24 maximum
Optional	7 - 0 - 7 maximum

Spring return / deadman's
Handle arrangement



Type	A	B	C	D	No. of Contacts	No. of Cable Entries	
						Dia 20	Dia 25
Small	170	220	90	70	8	1	1
Medium	285	225	140	140	16	2	2
Big	370	435	140	140	24	2	2



Size	L	D	No. of Cams	No. of Cams dia	No. of entries
				20	20
A	135	105	6	2	2
B	195	165	12	2	4
C	245	215	18	2	4
D	305	265	24	2	6

Multitech Systems

LEVER | COUNTER WEIGHT OPERATED LIMIT SWITCHES

INTRODUCTION :

Lever (and weight operated) type Limit Switch LLS/CWLS operates the control change-over Contacts of motor of an moving equipment when a Cam moving with loads actuates the Lever of limit switch. This turns the cams on a square shaft and operates the **NO | NC** contact elements.

OPERATION :

Two or more Contact Elements are operated by respective rotating Cams which are suitably fixed on square Cam shaft turned by a lever or weight. The contacts operate at 140° from central neutral position.

DESIGN :

The Sheet Steel body, Lever and Cover of the Limit Switch are finished by powder coating treatment. The Cam Shaft is mounted in the housing on moulded Nylon bushes (bearing) and are fixed through the front & rear walls.

TECHNICAL DATA :

Body material	powder coated sheet
Degree of protection	IP - 41
Mounting position	floor mounting
Cable Entries	Twin. 3/4" BS conduit
No. of contact	2 / 3 / or 4
Wire Connection	silver-cadmium
Rated Voltage	500 Vac
Thermal Test Current	10A

OPERATING EXECUTIONS :

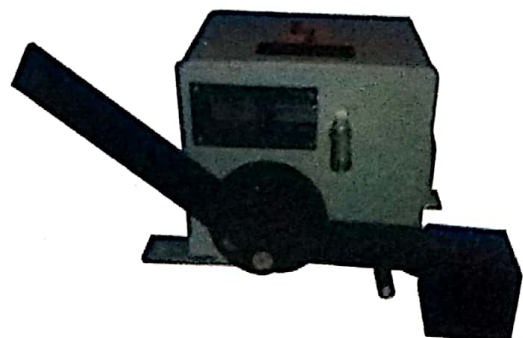
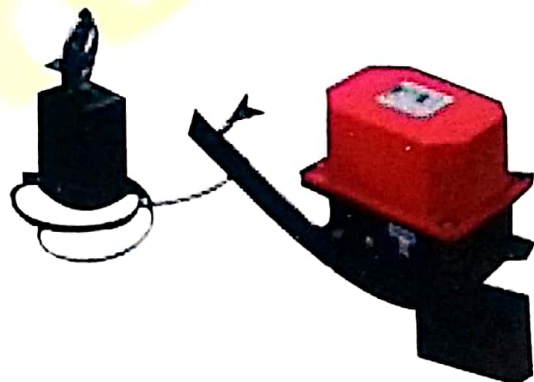
The operating mechanism can be offered in two executions.

1. ROLLER OPERATING A LEVER :

These Limit Switches are used for E. O. T. Cranes Wagon Shunting devices Elevators travel mechanism or such linearly moving mechanisms to prevent over-travel. The position of operating lever is in up / down and can be changed in steps of 90° at site.

2. LEVER ACTUATED BY A DEAD WEIGHT :

These Limit Switches are used to prevent over hoist motion with weight. Counter weight is provided in this case. The same is lifted with wire rope to prevent over hoist position.



WIRE / PUNCHES STAINLESS STEEL GRID RESISTORS

INTRODUCTION :-

Resistors are supplied for both AC & DC requirements. The basic types of resistors are stainless steel wire and punched steel. Suitable for current rating 10 to 800 amps. Multiple paths are used for system having higher ratings.

STAINLESS STEEL WIRE GRID RESISTORS :-

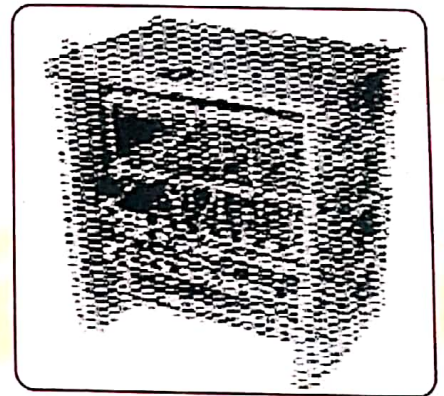
These resistors consist of stainless steel wires or strip form of grids. The standard modules with current rating from 7 Amps to 400 Amps Single or multiples options are available.

PUNCHED STEEL GRID RESISTORS :-

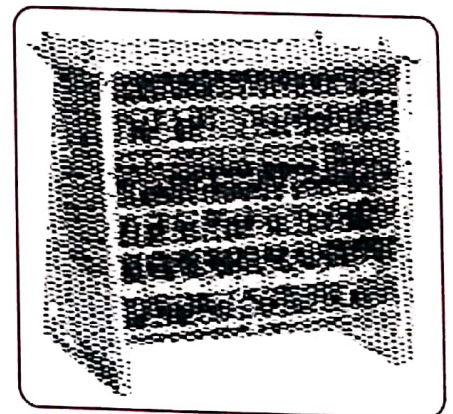
Punched grid resistors consist of grids punched from sheet of corrosion resistant nickel chromium alloy sheet steels. The punched steel grids are very robust with no effect of jerks, shocks or vibration. Ideal for heavy duty operating conditions like steel mill application. Available in Current rating 8 Amps to 800 Amps.

Technical data / Features :

Enclosed	- Sheet Steel duly galvanised / painted
Mounting position	- Floor
Protection Degree	- IP - 11 / IP - 21 / IP - 23 / IP - 33
Current rating (s.s. grid) continuous	- 7 - 400 Amps
Current rating (s.s. grid) continuous	- 7 - 800 Amps
Cooling	- Air / oil cooled
Temperature rise	- 2250C / 2500C / 3750C
Cable entry	- Bottom

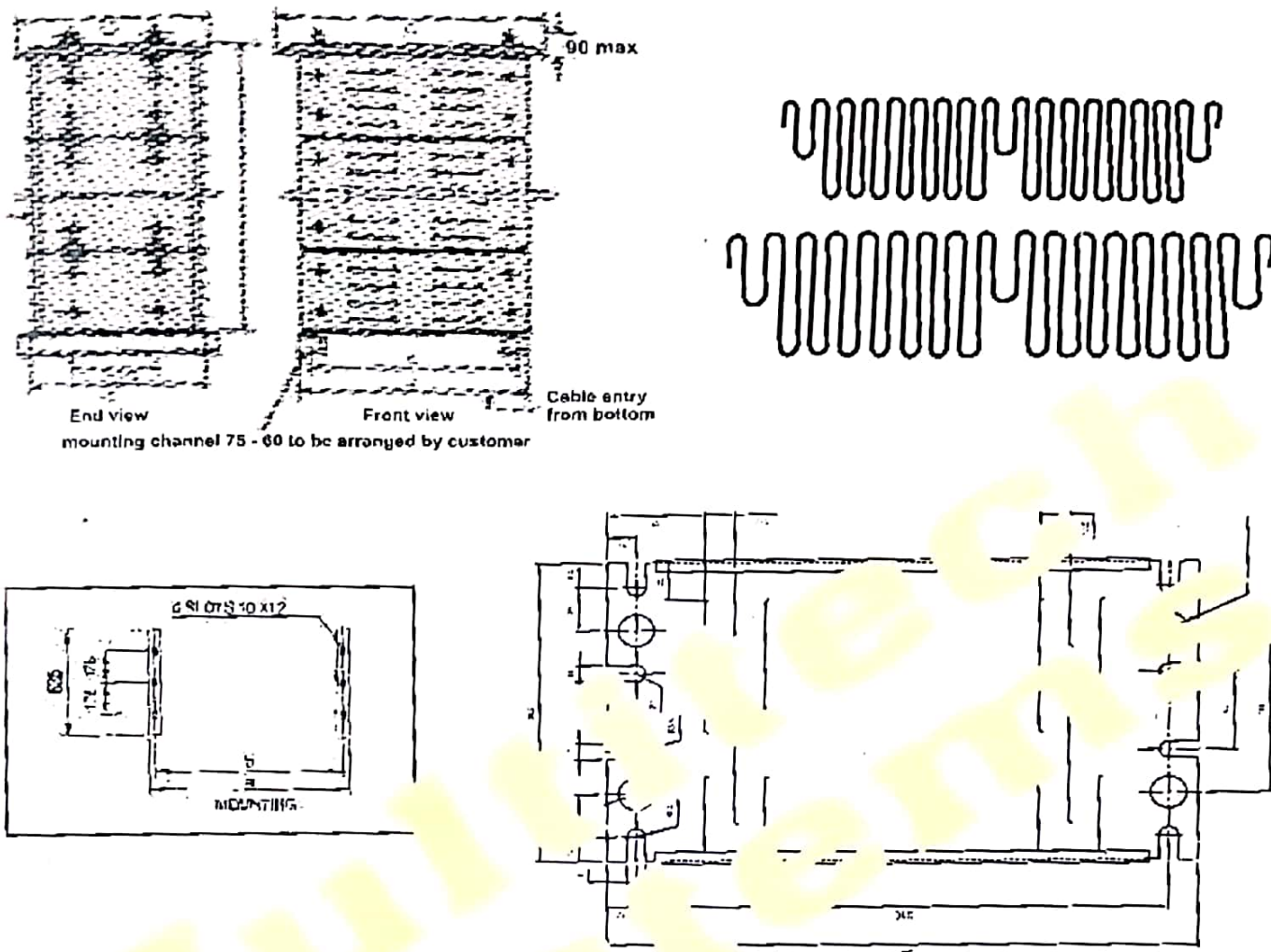


Rated Value Ohms	Grid Type	Current Rating for various duty factors (Amps)			
		25% ED	40% ED	60% ED	100% ED
0.010	PS 10	390	325	280	234
0.022	PS 20	265	220	190	158
0.032	PS 32	220	182	153	131
0.046	PS 46	185	151	130	110
0.068	PS 68	152	126	110	90
0.100	PS 100	125	103	88	74
0.150	PS 150	101	84	72	61
0.220	PS 220	83	70	59	50
0.300	PS 300	82	59	50	43
0.460	PS 460	58	48	40	35
0.720	PS 720	47	39	33	28
1.000	PS 1000	40	33	28	24
1.500	PS 1500	32	27	23	19
2.500	PS 2500	25	21	18	15
4.500	PS 4500	15	13	11	8



Multitech Systems

DIMENSION DETAILS OF ATAINLESS STEEL WIRE TYPE RESISTANCE BOXES



Installation / Dimensional detail of Stainless Steel Grid Type Resistance Boxes

Unit Size	A	a	b	Unit Size	A	a	b	Unit Size	A	a	b	h
Ss1	430	381	355	SL1	650	600	574	SB1	880	830	810	180
SS2	430	381	355	SL2	650	600	574	SB2	880	830	810	360
SS3	430	381	355	SL3	650	600	574	SB3	880	830	810	540
SS4	430	381	355	SL4	650	600	574	SB4	880	830	810	720
SS5	430	381	355	SL5	650	600	574	SB5	880	830	810	900
SS6	430	381	355	SL6	650	600	574	Sb6	880	830	810	1080

TELECRANE®

RADIO REMOTE CONTROL

Model : F21-E1B

(PC PROGRAMMABLE)

GENERAL

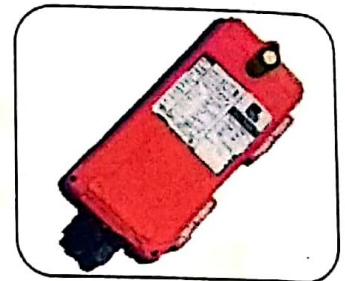
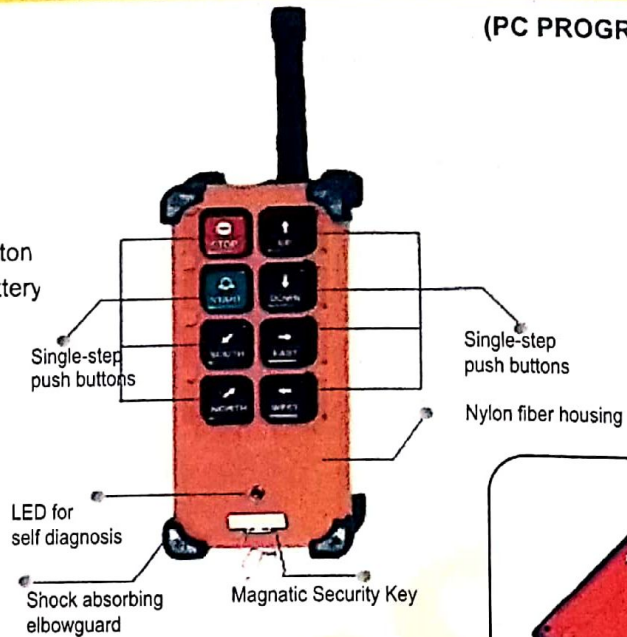
- ☆ Encoding : Microprocessor based
- ☆ Decoding : Microprocessor based
- ☆ Range : 100MAprox
- ☆ Temperature : 35°C - +80°C

TRANSMITTER

- ☆ 6 single-step buttons, 1 Emergency stop, 1 Start button
- ☆ Powered by size AA x 2 Alkaline or rechargeable battery
- ☆ Providing 9 control contacts.
- ☆ Size : 164 x 75 x 46 mm (excluding protrusion).
- ☆ Power supply : 3V
- ☆ Weight : about 350g
- ☆ Housing : Nylon fiber

RECEIVER

- ☆ Power supply : 110/220VAC 50 Hz
- ☆ Size : 185 x 85 x 85 mm
- ☆ Housing : Nylon fiber
- ☆ Power supply : 110A/25V
- ☆ Size : External
- ☆ Housing : About 550 g



Receiver

TELECRANE®

RADIO REMOTE CONTROL

Model : F24-BB

(PC Programmable)

GENERAL

- ☆ Encoding : Microprocessor based
- ☆ Decoding : Microprocessor based
- ☆ Range : 100MAprox
- ☆ Temperature : 35°C - +80°C

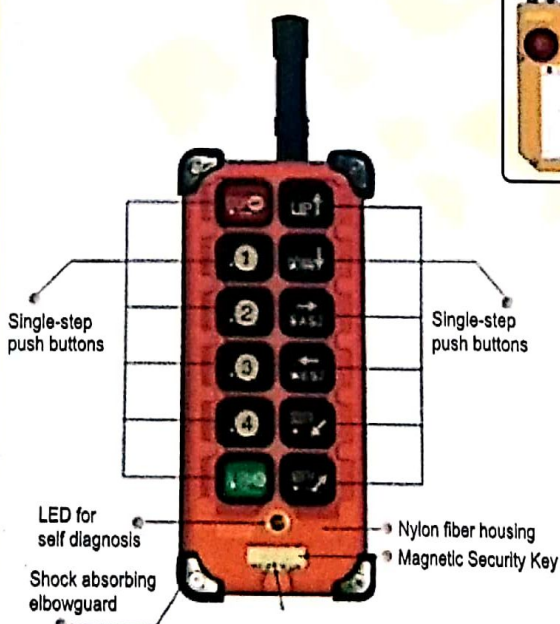
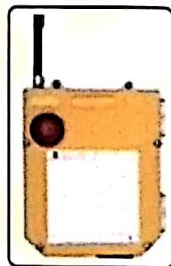
TRANSMITTER

- ☆ 6 single-step buttons, 1 Emergency stop, 1 Start button.
- ☆ Powered by size AA x 2 Alkaline or rechargeable battery.
- ☆ Providing 9 control contacts.
- ☆ Size : 164 x 75 x 46 mm (excluding protrusion).
- ☆ Power supply : 3V
- ☆ Weight : about 350g
- ☆ Housing : Nylon fiber

RECEIVER

- ☆ Power supply : 110/220VAC 50 Hz
- ☆ Size : 185 x 85 x 85 mm
- ☆ Housing : Nylon fiber
- ☆ Power supply : 110A/25V
- ☆ Size : External
- ☆ Housing : About 550 g

Receiver



TELECRANE®

RADIO REMOTE CONTROL

Model : F24- 12D

(PC Programmable)

GENERAL

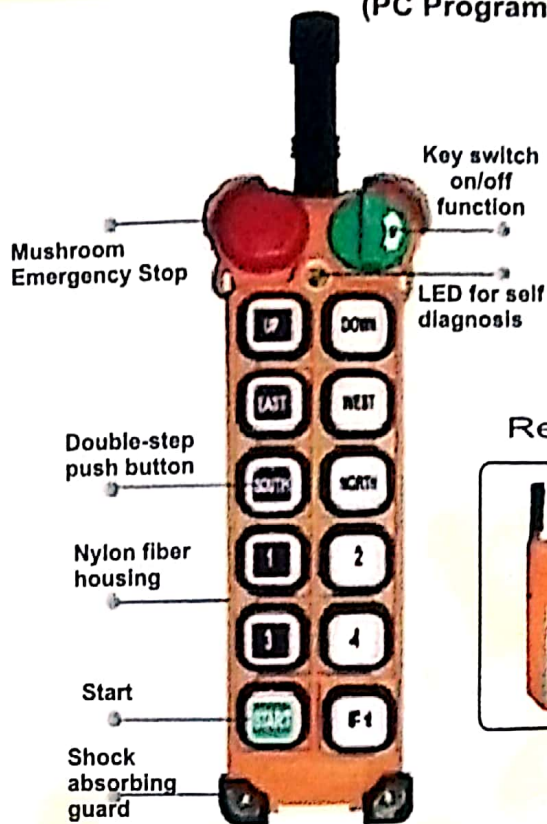
- ☆ Encoding : Microprocessor based
- ☆ Decoding : Microprocessor based
- ☆ Range : 100MAprox
- ☆ Temperature : 35°C - +80°C

TRANSMITTER

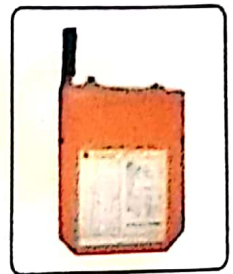
- ☆ 6 single-step buttons, 1 Emergency stop, 1 Start button.
- ☆ Powered by size AA x 2 Alkaline or rechargeable battery.
- ☆ Providing 9 control contacts.
- ☆ Size : 164 x 75 x 46 mm (excluding protrusion).
- ☆ Power supply : 3V
- ☆ Weight : about 350g
- ☆ Housing : Nylon fiber

RECEIVER

- ☆ Power supply : 110/220VAC 50 Hz
- ☆ Size : 185 x 85 x 85 mm
- ☆ Housing : Nylon fiber
- ☆ Power supply : 110A/25V
- ☆ Size : External
- ☆ Housing : About 550 g



Receiver



TELECRANE®

RADIO REMOTE CONTROL

Model : F21- 2S

(PC Programmable)

GENERAL

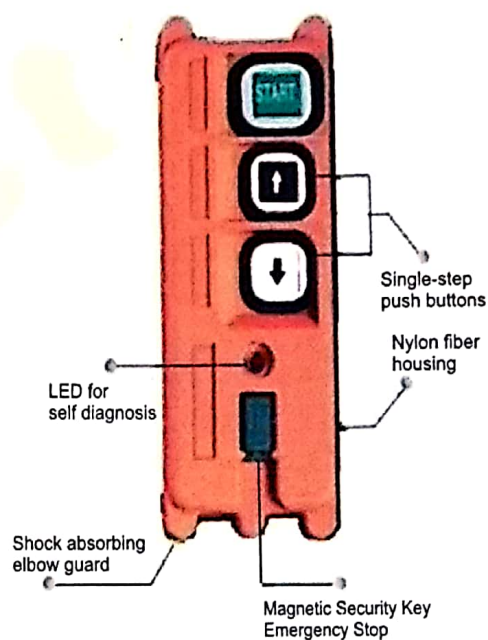
- ☆ Encoding : Microprocessor based
- ☆ Decoding : Microprocessor based
- ☆ Range : 100MAprox
- ☆ Temperature : 35°C - +80°C

TRANSMITTER

- ☆ 2 single-step buttons, 1 Emergency stop, 1 Start button.
- ☆ Powered by size AA x 2 Alkaline or rechargeable battery.
- ☆ Size : 130 x 45 x 22 mm (excluding protrusion).
- ☆ Power supply : 3V
- ☆ Weight : about 120g
- ☆ Housing : Nylon fiber

RECEIVER

- ☆ Power supply : 110/220VAC 50 Hz
- ☆ Size : 84 x 82 x 48 mm
- ☆ Housing : Nylon fiber
- ☆ Relay output : 10A/250V
- ☆ Antenna : External
- ☆ Weight : About 550 g

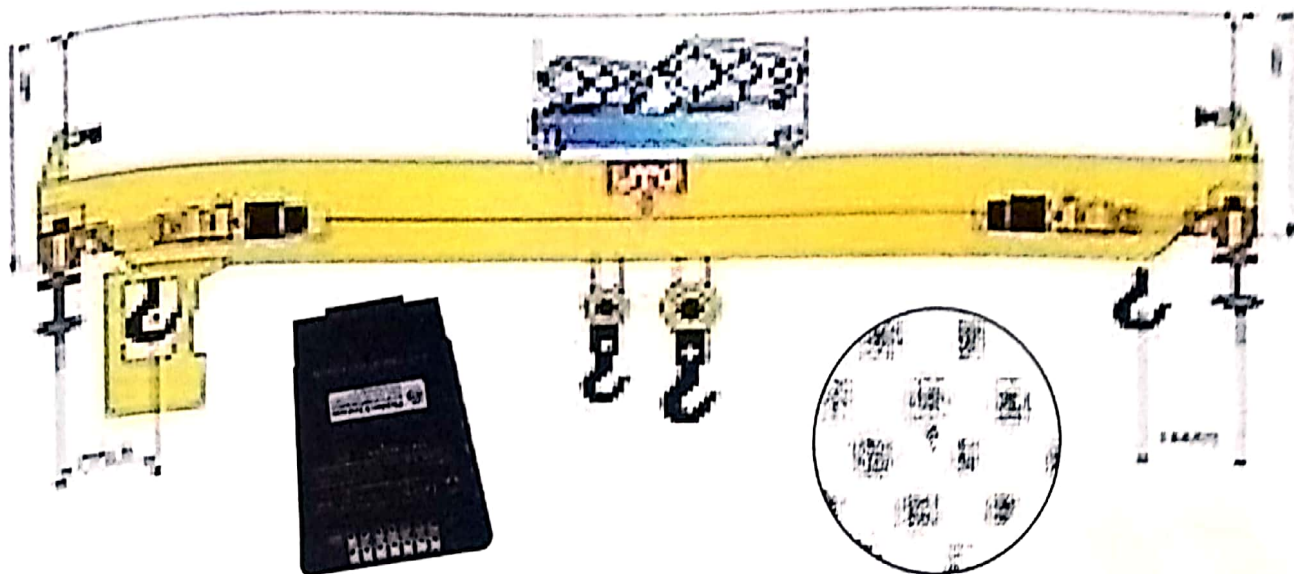


Receiver



Multitech Systems

ANTI CRANE COLLISION LIMIT SWITCH



Multitech Systems offers anti crane collision switch for two over head cranes on the same rail. these units are installed on two cranes on the same rail approaching each other with these units, the two cranes on the same rail will never collide with each other & thus the damage caused due to collision can be saved. The minimum distance in between two cranes will always be maintained, and the cranes will be able to move away from each other but not closer.

Unit has inbuilt infra red transmitter & receiver along with other processing circuit and power supply. it works on 110 VAC and 220 VAC supply and offers potential free relay contacts. these contacts are interlocked with the contactor for direction of motion towards each other. set consist of a control unit and a reflector. control unit is fixed on one crane and the reflector on the other crane opposite to the control unit. same away another control unit should be fixed on second crane and it's reflector on first crane opposite to each other. make sure that both the control unit should not be placed opposite to each other alignment of both the units is necessary, as the rays transmitted by the transmitter will be reflected back by the reflector. a laser alignment tool is provided for perfect alignment of control unit and reflector. the reflected beam will be picked up by the receiver when both the cranes come closer. when the two cranes come within the range, the moving crane will be stopped immediately. this range can be adjusted for single set point as required. for two set points, one can be adjusted to get an alarm at required distance and another can be set to stop the crane at required distance.

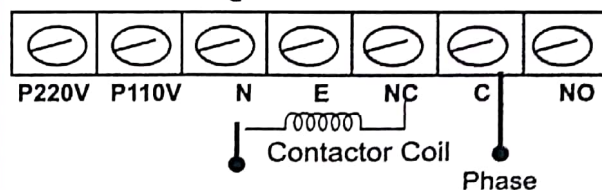
Specifications

Models:	Range 03 meters (Max) Single Set Point
Model ACC03:	Range 10 meters (Max) Single Set Point
Model ACC10:	Range 03 meters (Max) Single Set Point
Model ACC102:	Independently Adjustable at 8 & 10 Mtrs.
Supply Voltage:	110 VAC or 220 VAC (User Selectable)
Laser Alignment:	Provided for Alignment of Sensor and Reflector
Out Put:	Potential free Relay Contacts
Contacts Rating:	5 Amps (Max) at 220 V
Output Connections:	Through Terminal Strip
Dimensions:	180 mm x 145 mm x 55 mm
Housing:	Metal Housing

Terminal Strip Connections

1. P- Phase 220VAC
2. P- Phase 110VAC
3. N- Neutral
4. E- Earth Terminals
5. NC- OUTPUT-Normally Closed Contact
6. C - OUTPUT-Common
7. NO- OUTPUT-Normally Open Contact

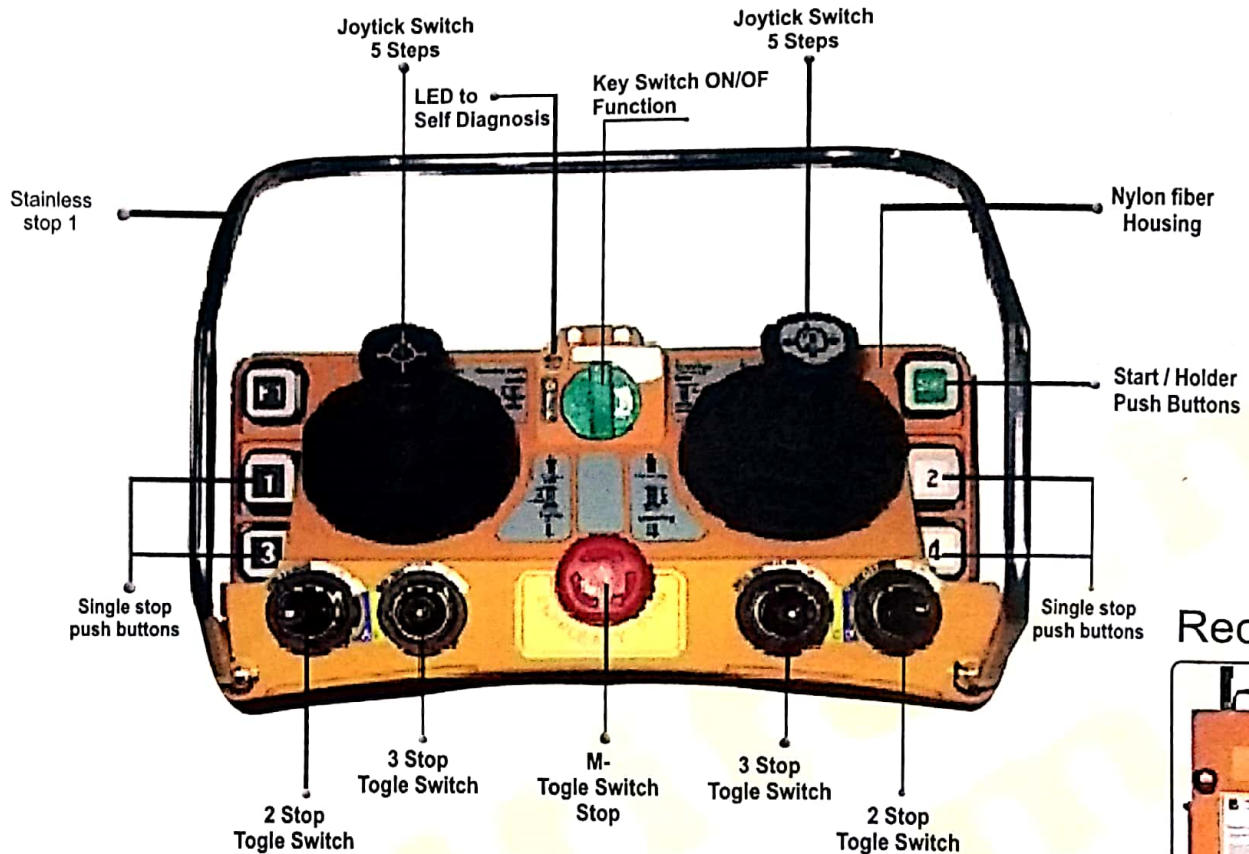
Connection Diagram:



TELECRANE® RADIO REMOTE CONTROL

Model : F24-BB

(PC Programmable)



Receiver



GENERAL

- ☆ Encoding : Microprocessor based
- ☆ Decoding : Microprocessor based

- ☆ Range : 100MApprox
- ☆ Temperature : 35° C - +80° C

TRANSMITTER

- ☆ 6 single-step buttons, 1 Emergency stop, 1 Start button.
- ☆ Powered by size AA x 2 Alkaline or rechargeable battery.
- ☆ Providing 9 control contacts.
- ☆ Size : 164 x 75 x 46 mm (excluding protrusion).

- ☆ Power supply : 3V
- ☆ Weight : about 350g
- ☆ Housing : Nylon fiber











RECEIVER

- ☆ Power supply : 110/220VAC 50 Hz
- ☆ Size : 185 x 85 x 85 mm
- ☆ Housing : Nylon fiber

- ☆ Power supply : 110A/25V
- ☆ Size : External
- ☆ Housing : About 550 g

PENDANT PUSH BUTTON STATION :

PL Series pendant stations for control circuits Single & Double Row Ip65
Single & Double Speed Customised Pendant

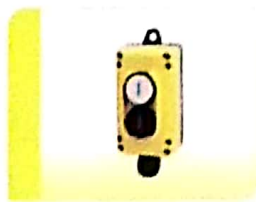
	N° PUSH BUTTONS	CODE		N° PUSH BUTTONS	CODE
	4+1	PL05		2+2	PLB04
	4+1	PL05D2 PL05D4		2+2	PLB04D2
	6+1	PL07		4+2	PLB06
	6+1	PL07D2 PL07D4 PL07D6		4+2	PLB06D2 PLB06D4
	6+2	PL08		6+2	PLB08
	6+2	PL08D2 PL08D4 PL08D6		6+2	PLB08D2 PLB08D4 PLB08D6
	8+2	PL10		8+2	PLB10
	10+2	PL12		10+2	PLB12
				12+2	PLB14



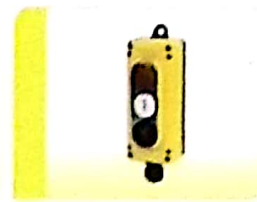
P02



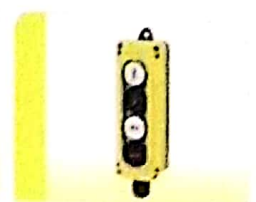
P03



TLP2

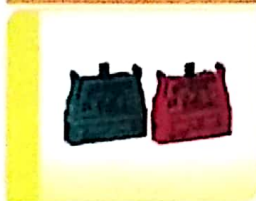


TLP3.B



TLP4

CONTACT BLOCKS



1 NC PL004001
1 NO PI004002

MULTI-SPEED CONTACT BLOCKS



A2 VEL. NO+NO
1NO+1NO PI004010

KEY SWITCH



0-1 PL006001
1-0-2 PI006002

ROTARY SWITCH



0-1 PL007001
1-0-2 PL007002

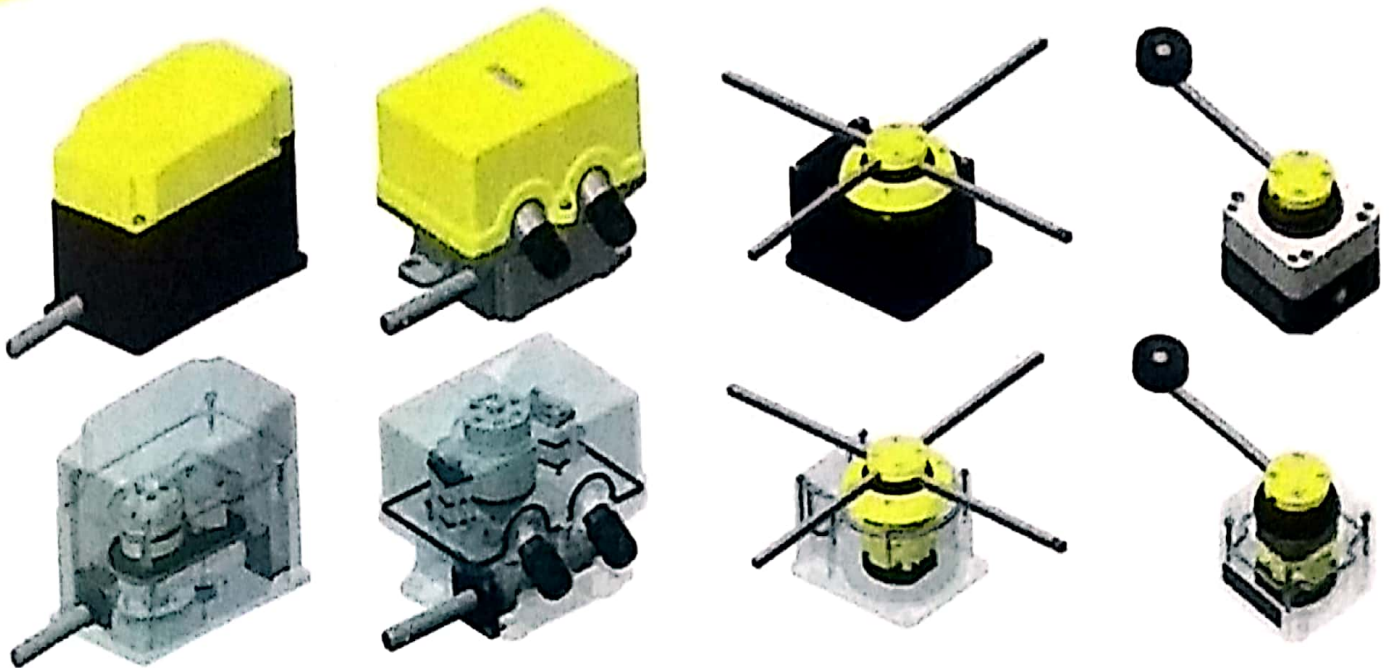
MUSHROOM OPERATOR B30 TURN TO RELEASE EN ISO 13250



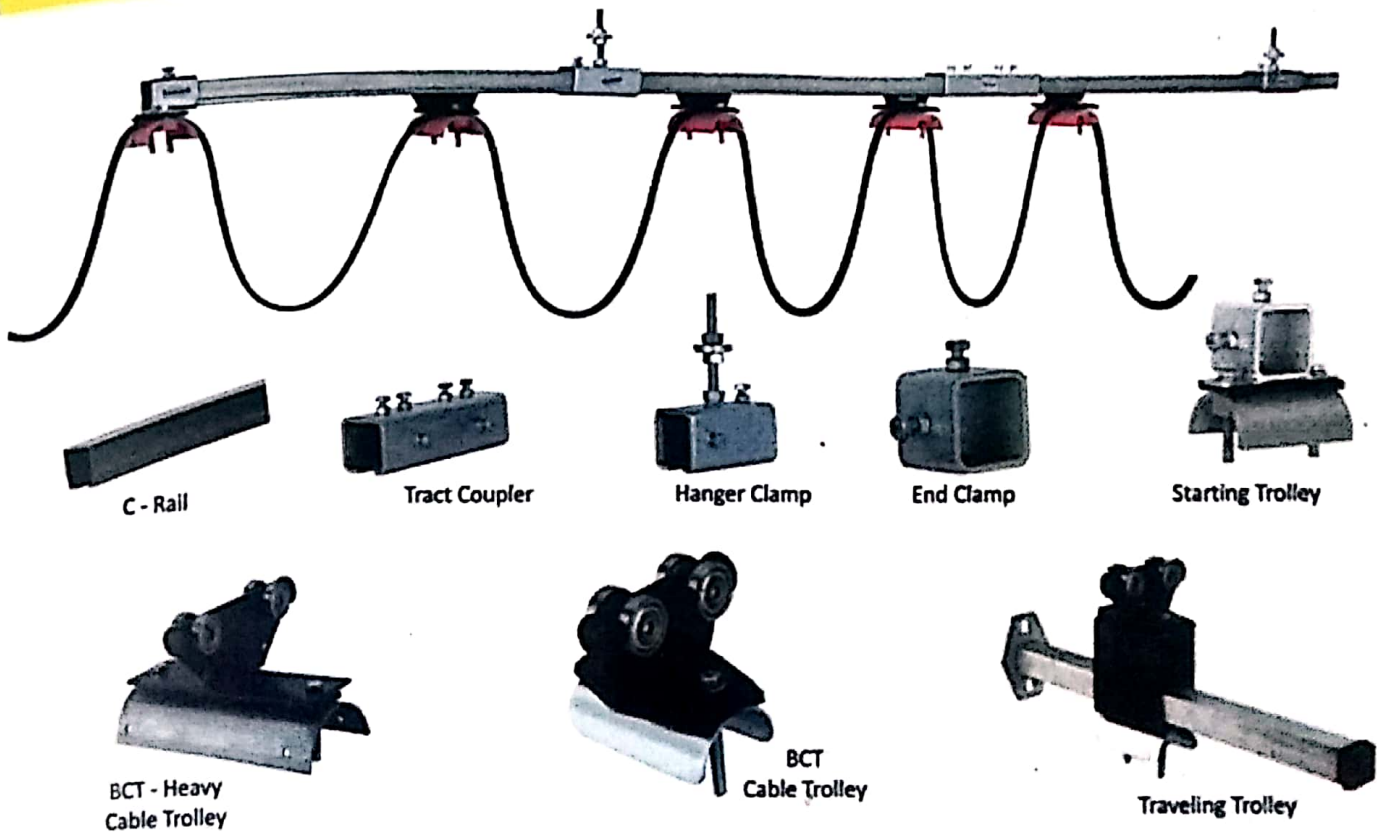
WITH VISION
STANDARD PI006001
PI006002

Multitech Systems

LIMIT SWITCHES

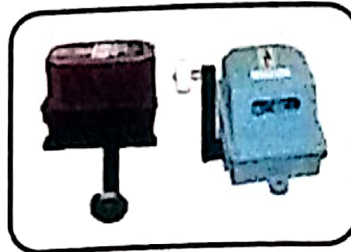


FESTOON / C RAIL SYSTEM





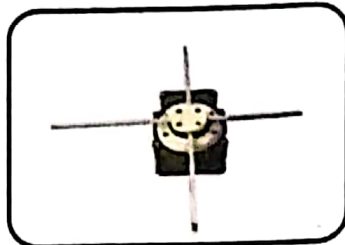
ROTARY GEARED LIMIT



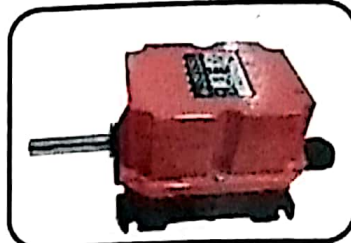
LEVER LIMIT SWITCH



COUNTER WT. LIMIT SWITCHESES



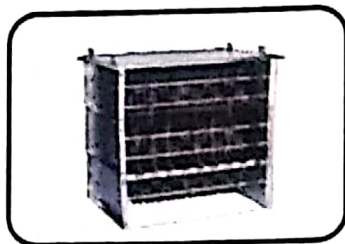
CROSS BAR LIMIT SWITCHES



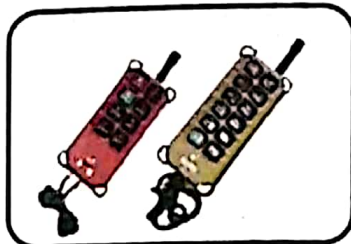
WORM DRIVE FG TYPE LIMIT SWITCH



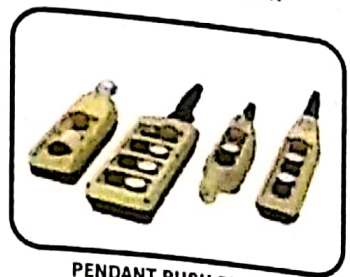
MASTER CONTROLLER



RESISTANCE PUNCHED GRID TYP BOXES



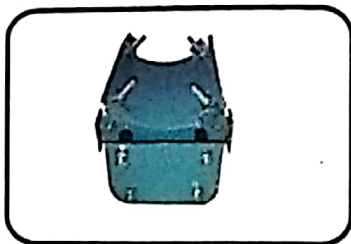
RADIO REMOTE CONTROL SYSTEM



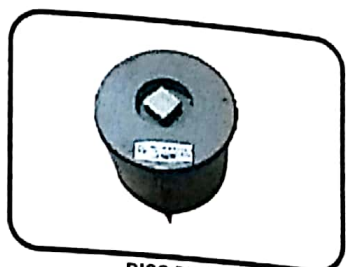
PENDANT PUSH BUTTON



DOUBLE DECKER CABLE TROLLEY



HEAVY DUTY CABLE TROLLEY



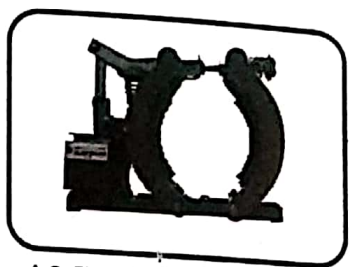
DISC BRAKE



ELECTRO HYDRAULIC THRUSTER BRAKES



ELECTRO-HYDRAULIC THRUSTERS



A.C. ELECTROMAGNETIC BRAKES

Complete In-house Testing Facilities

Compatible with all other makes

Computer Aided Design



Multitech Systems

Plot No. 53, Gali No. 6, Krishna Colony
Opp. Sector-25, Faridabad-121004, Haryana
Mob. : 9811423747, 9910043747
E-mail : multitech_systems@yahoo.com
Website : www.multitechsystems.net
: www.multitechsystems.co