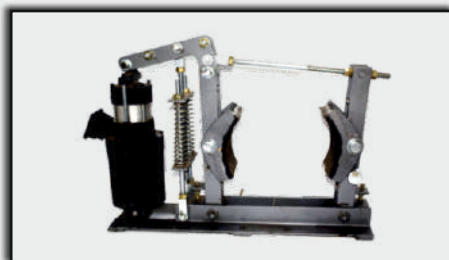
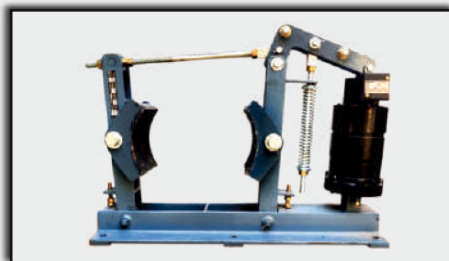
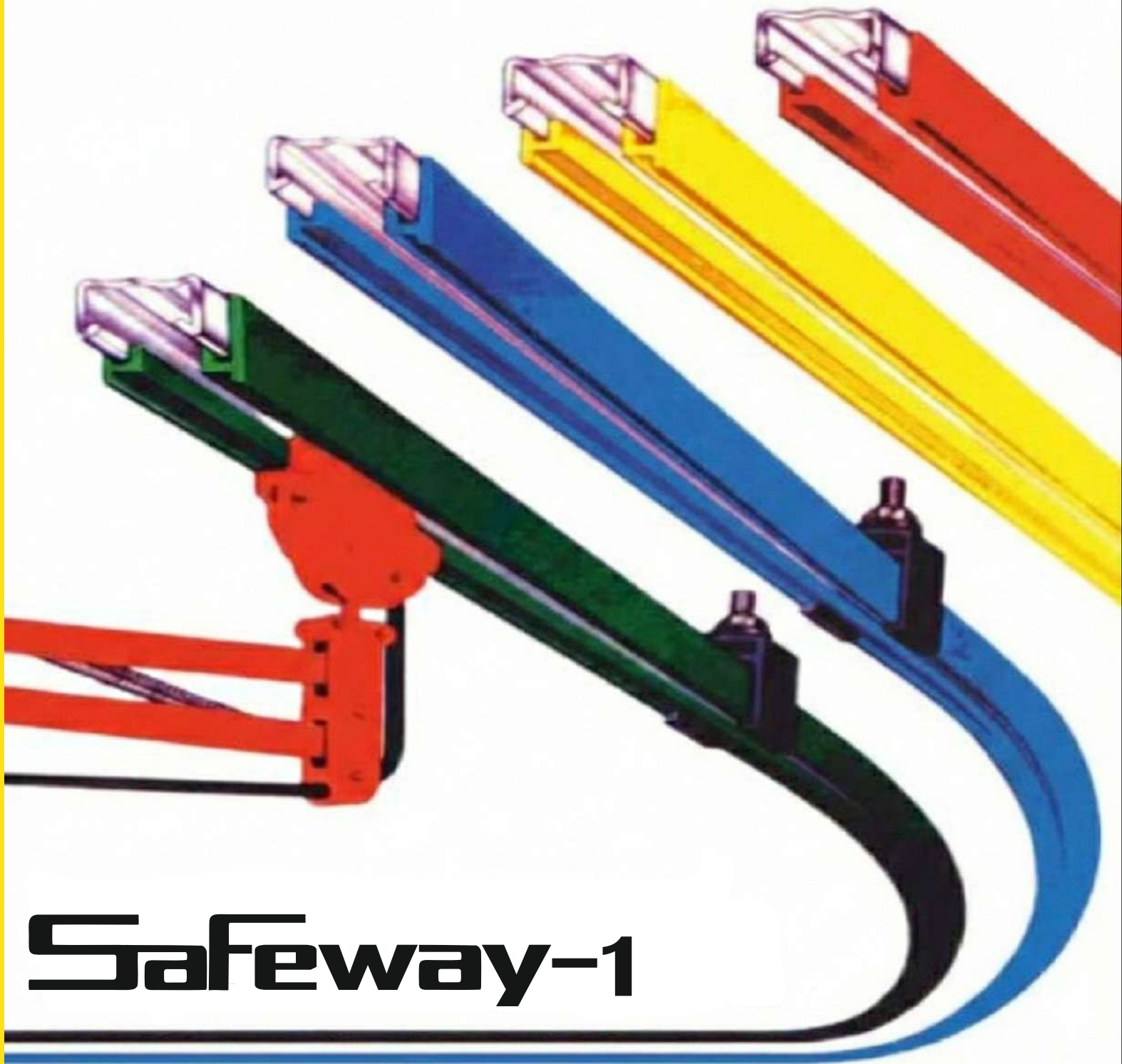


MULTITECH SYSTEMS



Compact Shrouded Conductor System

MTS - 1



Safeway-1



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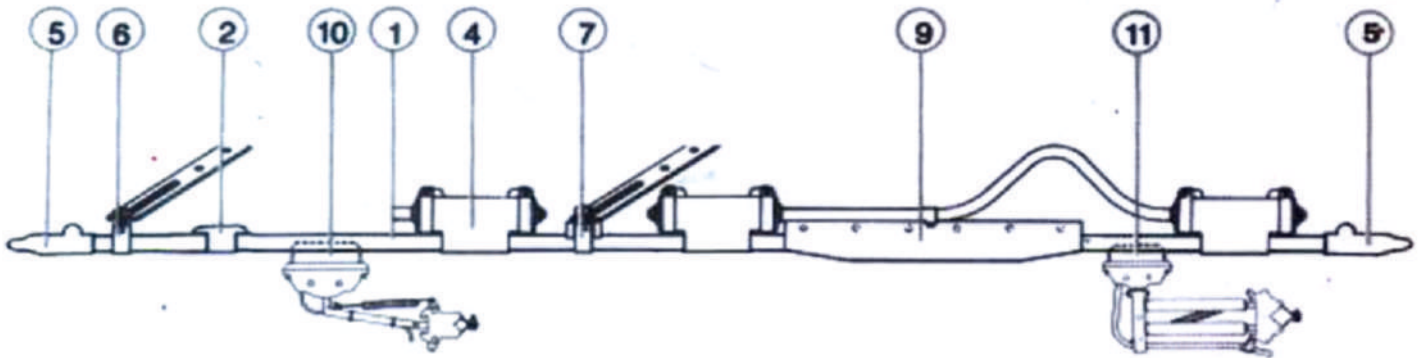
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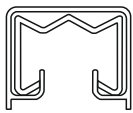
Compact Shrouded Conductor System



Collector and conductor support brackets are available

1. Bar, Covered and Pin Assembly - 4M Long 125

No.101.



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

7. Anchor clamp

No.107



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

2. Splice Cover

No.102



Moulded Plastic one piece clip on cover

8. Jointing tool

No.108



Special assembly tool required to connect barson site.

3. Crimping Tool

No.103



For Copper Conductors Only.

9. Expansion assembly

No.109



Complete factory assembled unit of 2 meters over all lenth

4. Centre Power Feed Kit

No.104



Kit comprising Power Feed Clamp fixing Nuts and bolts and insulating cover.

10. 125A S Type collector

No.110



COLLECTOR MOVENT
VERTICAL : 45mm
LATERAL : 35mm

For use with hoist applications. Straight runs only.

5. End cap

No.105



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

11. 125A D type collector

No.111



COLLECTOR MOVENT
VERTICAL : 60mm
LATERAL : 50mm

For use on straight/ curved systems.

6. Hanger clamp

No.106



Plastic moulded snap-on type suport.

Technical Data:

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

For working temperatures exceeding 800 C consult our technical departmant

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



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Compact Shrouded Conductor System

MTS - 2



Safeway-2



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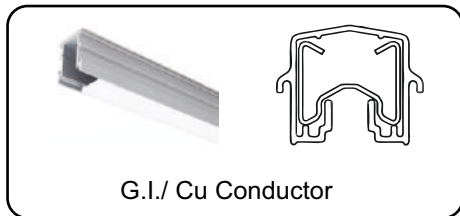
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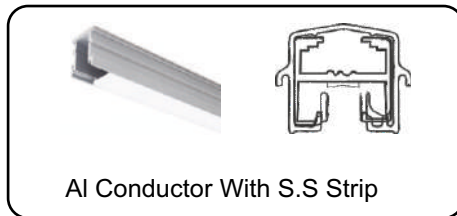


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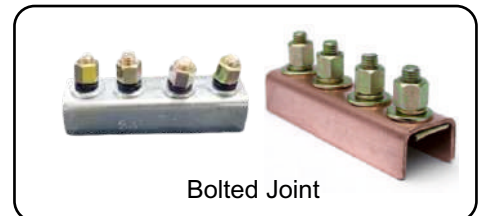
Multitech Systems



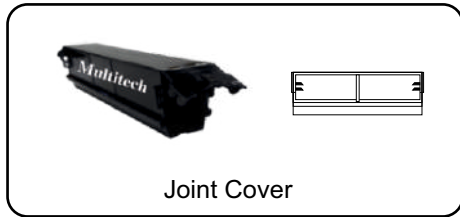
G.I./ Cu Conductor



Al Conductor With S.S Strip



Bolted Joint



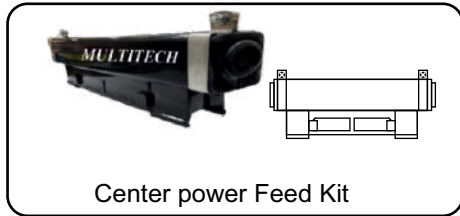
Joint Cover



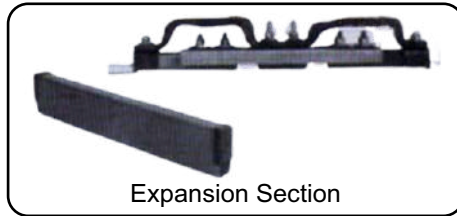
Hanger Clamp (1 Pole)



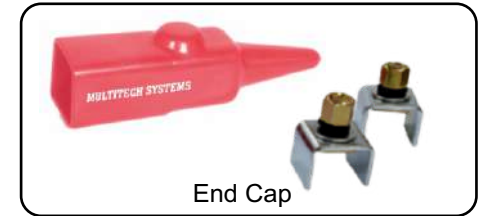
Hanger Clamp (4 Pole)



Center power Feed Kit



Expansion Section



End Cap

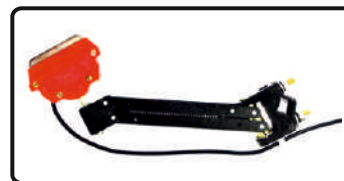
CURRENT COLLECTORS

Heavy Duty Current Collectors are of fully Articulated Design.

This provides multi axis degree of movement thereby allowing compensation of machine motion tolerances and installation variation.

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

Variety of designs for different applications and site conditions.



Type	MACC 60	MACC 125	MACC 250
Current Rating	60A	125A	250A
Collector movement Horizontal Vartical	±125 ±50	±200 ±60	±200 ±60
Mounting Bracket	16 sqmm bar	25 sqmm bar	25 sqmm bar
Mounting Distance From conductor contact surface	100mm	127mm	127mm
Sintered Copper Shoe	125A	125A	250A
Shop Holder	Nylon	Nylon	ABS
Structure	Metallic	Metallic	Metallic

INSTALLATION MULTITECH SYSTEMS can be installed in most atmospheres such as dusty, humid chemical / acidic etc

MAINTENANCE COST No periodic maintenance is required. Only consumable item is contact shoe.



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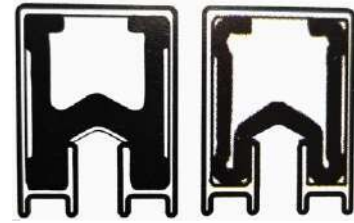
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Safeway-3 MTS - 3

500 / 600 / 800 / 1000 / 1250A
AL./Cu. Cu. AL./Cu AL./Cu Cu.



STANDARD CONDUCTOR
LENGTH 4.5 MTR.

BOLTED JOINTS



SF3- 1 POLE HANGER COVER



SF3- ANCHOR CLAMP



SF3- JOINT CLAMP ALUMINIUM



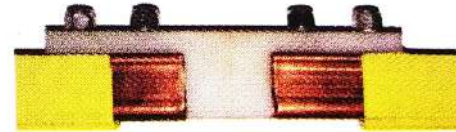
SF3- JOINT CLAMP COPPER



SF3- JOINT COVER



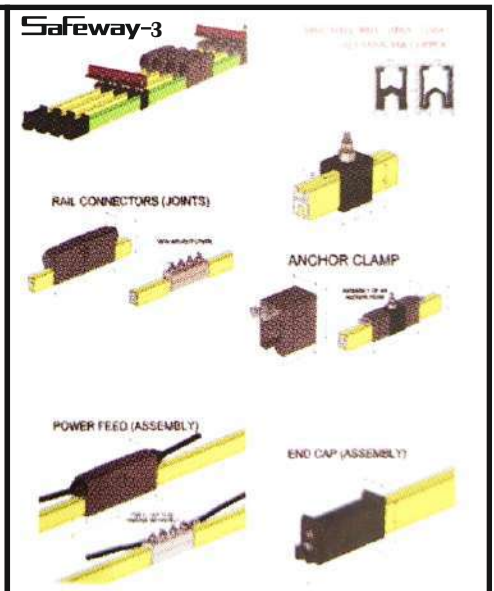
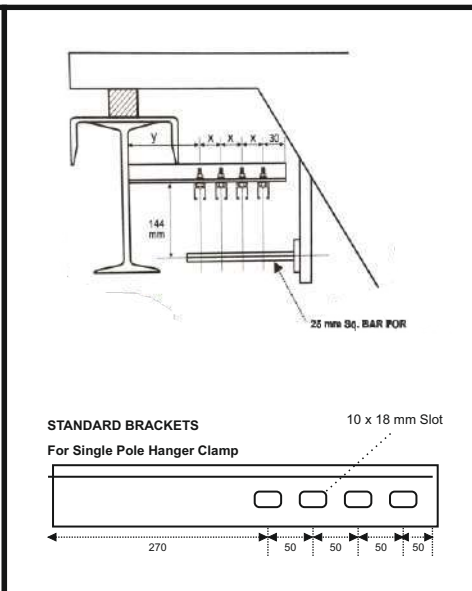
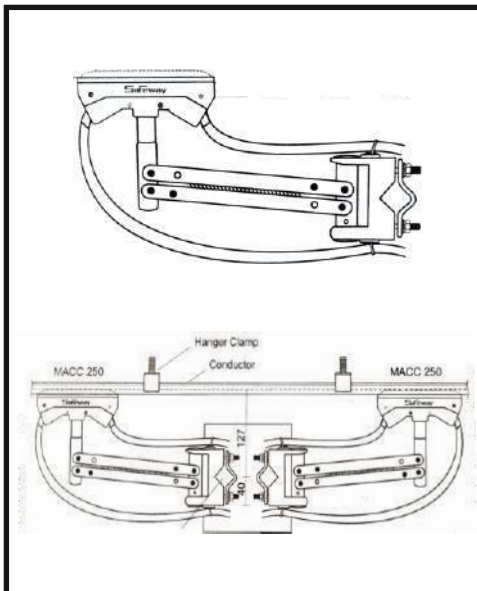
SF3- END CAP



SF3- ISOLATING SECTION



SF3- EXPANSION COPPER



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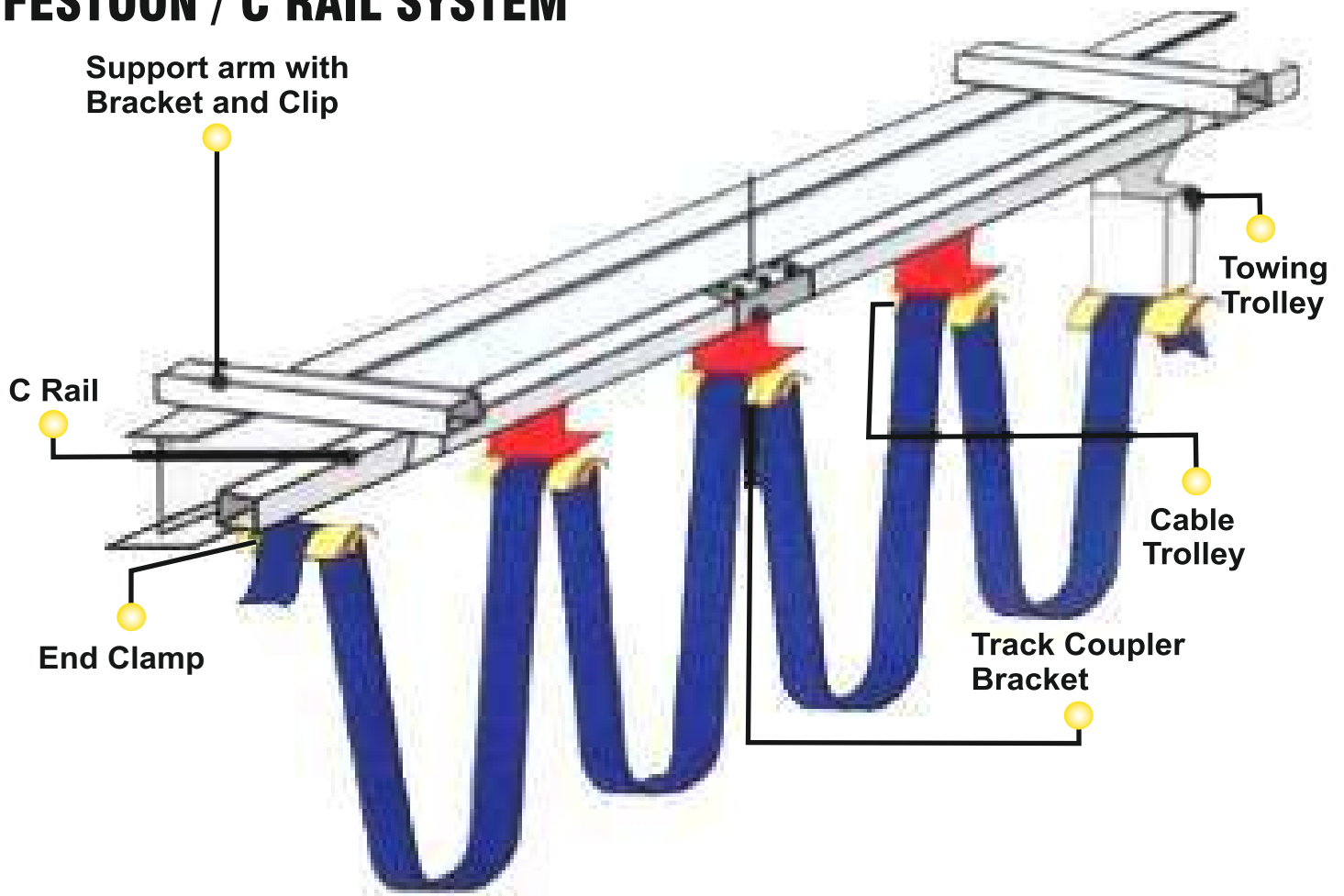
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Safeway FESTOON / C RAIL SYSTEM



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Electro-Hydraulic Thruster (18 kg)

Type : ST 520

INTRODUCTION

Electro-hydraulic thruster is a device which develops linear (or force) required to operate the required mechanism. The input to the device is three phase supply. The thrusters are widely used in material handling machines. Thrusters in various models develop 18kg to 114kg. In stroke lengths of 51mm, 76mm, 127mm Thrusters should be mounted with in $\pm 10^\circ$ From vertical, Working fluid - Transformer oil to BS 148.

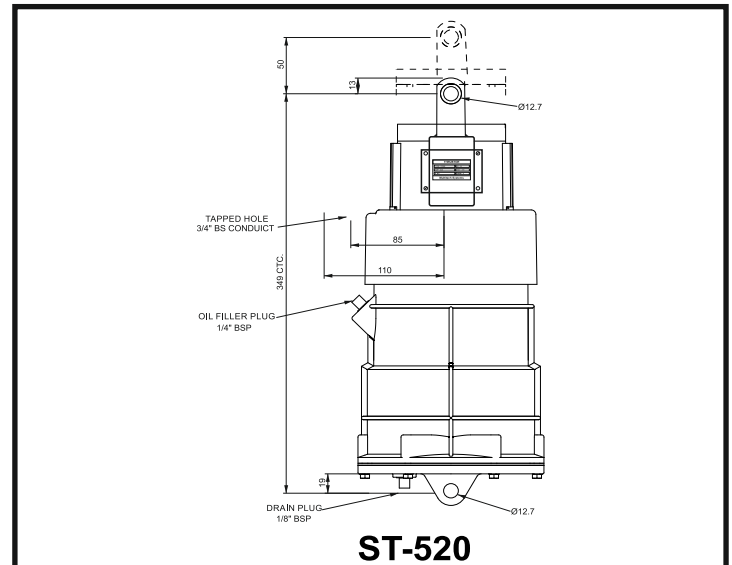
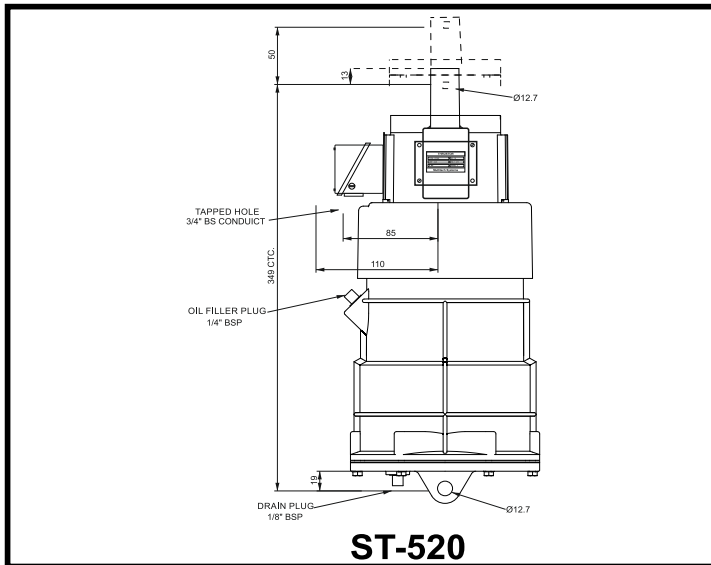
Technical Data

Thruster Model	ST - 520
Lifting Force	18 Kg
Stroke	51 mm
Current	0.4 amps
Power	90 Watt
Oil Capacity	2 Liters Transformer Oil
Weight	12 Kg
Voltage A. C.	415V 3 ϕ ,AC
Ingress Protection	IP 55 (IS/IEC 600529 : 2001)
Ambient Temperature	50°C Max

* 380V, 460V, 550V on Enquiry



Electro-hydraulic Thrusters
ST 520



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Electro-Hydraulic Thruster (34 kg)

Type : ST 535

INTRODUCTION

Electro-hydraulic thruster is a device which develops linear (or force) required to operate the required mechanism. The input to the device is three phase supply. The thrusters are widely used in material handling machines. Thrusters in various models develop 18kg to 114kg. In stroke lengths of 51mm, 76mm, 127mm Thrusters should be mounted with in $\pm 10^\circ$ From vertical. Working fluid - Transformer oil to BS 148.

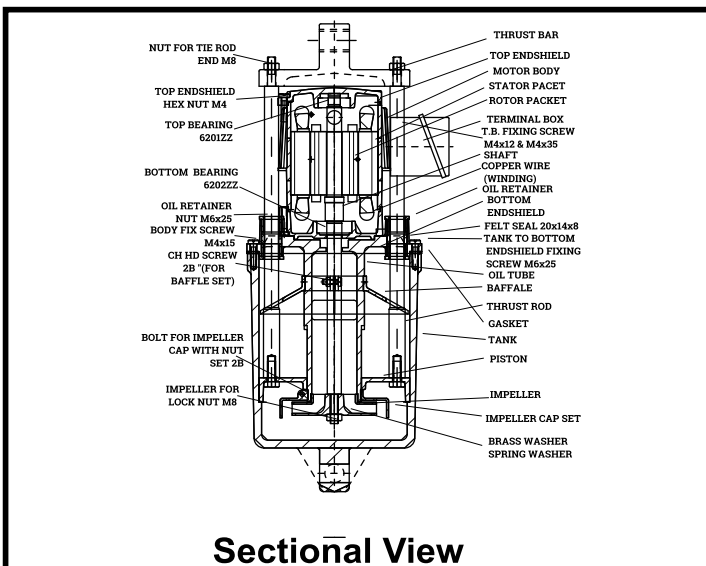
Technical Data

Thruster Model	ST - 535
Lifting Force	34 Kg
Stroke	51 mm
Current	0.55 amps
Power	150 Watt
Oil Capacity	2.5 Liters Transformer Oil
Weight	16 Kg
Voltage A. C.	415V 3 ϕ , AC
Ingress Protection	IP 55 (IS/IEC 600529 : 2001)
Ambient Temperature	50°C Max

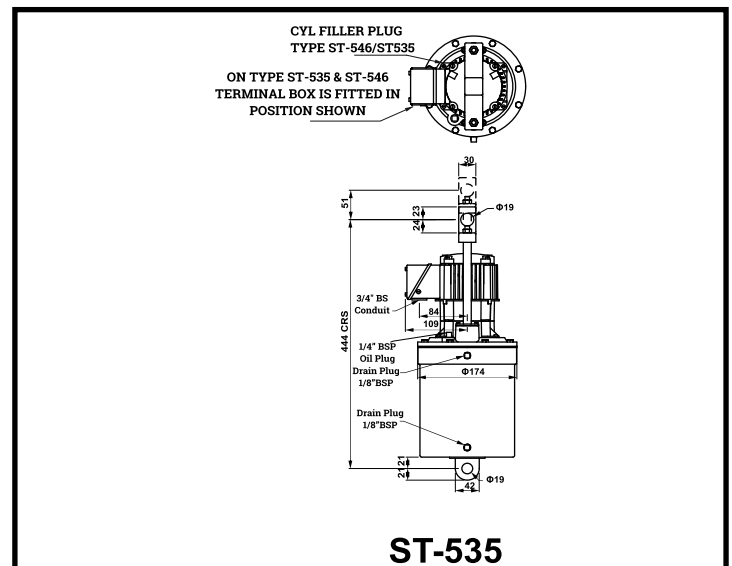
* 380V, 460V, 550V on Enquiry



Electro-hydraulic Thrusters
ST 535



Sectional View



ST-535



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Electro-Hydraulic Thruster (46 kg)

Type : ST 545

INTRODUCTION

Electro-hydraulic thruster is a device which develops linear (or force) required to operate the required mechanism. The input to the device is three phase supply. The thrusters are widely used in material handling machines. Thrusters in various models develop 18kg to 114kg. In stroke lengths of 51mm, 76mm, 127mm Thrusters should be mounted with in $\pm 10^\circ$ From vertical. Working fluid - Transformer oil to BS 148.

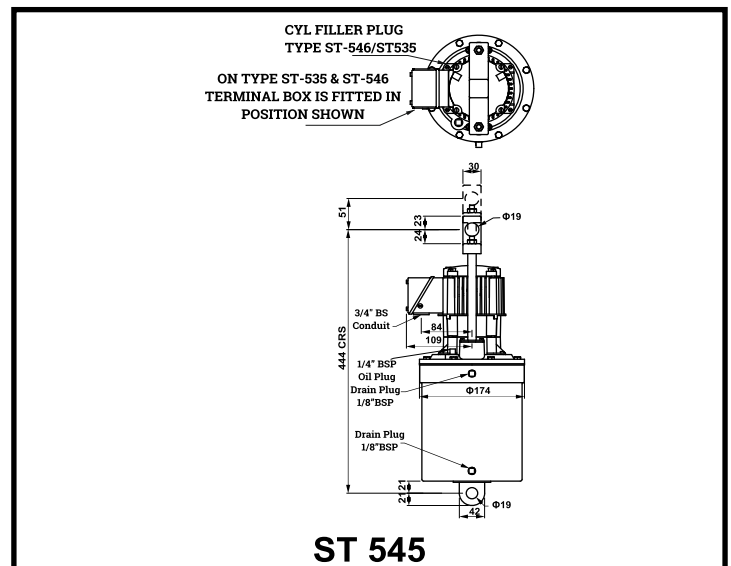
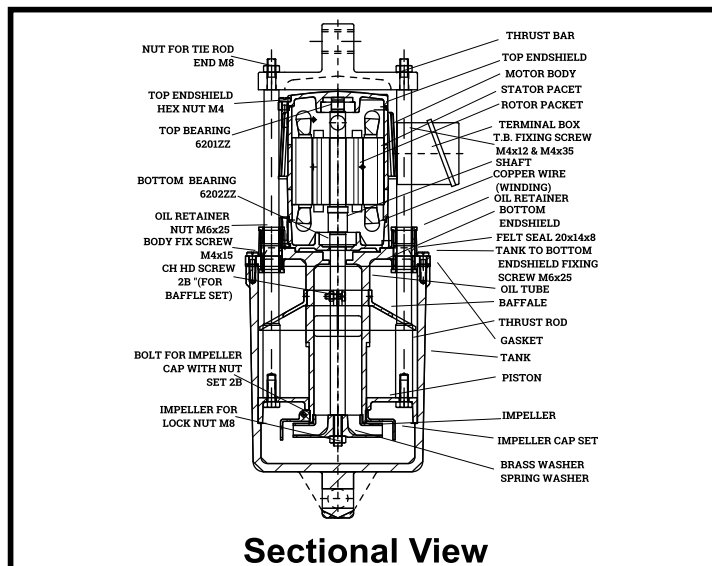
Technical Data

Thruster Model	ST - 545
Lifting Force	46 Kg
Stroke	51 mm
Current	0.6 amps
Power	180 Watt
Oil Capacity	2.5 Liters Transformer Oil
Weight	18 Kg
Voltage A. C.	415V 3 ϕ , AC
Ingress Protection	IP 55 (IS/IEC 600529 : 2001)
Ambient Temperature	50°C Max

* 380V, 460V, 550V on Enquiry



Electro-hydraulic Thrusters
ST 545



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Electro-Hydraulic Thruster (68 kg)

Type : ST 870

INTRODUCTION

Electro-hydraulic thruster is a device which develops linear (or force) required to operate the required mechanism. The input to the device is three phase supply. The thrusters are widely used in material handling machines. Thrusters in various models develop 18kg to 114kg. In stroke lengths of 51mm, 76mm, 127mm Thrusters should be mounted with in $\pm 10^\circ$ From vertical. Working fluid - Transformer oil to BS 148.

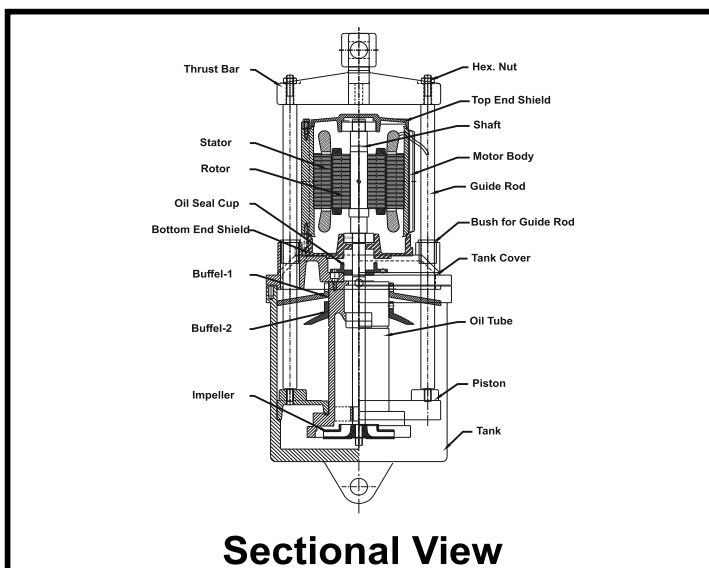
Technical Data

Thruster Model	ST - 870
Lifting Force	68 Kg
Stroke	76 mm
Current	0.7 amps
Power	200 Watt
Oil Capacity	4.5 Liters Transformer Oil
Weight	30 Kg
Voltage A. C.	415V 3 ϕ , AC
Ingress Protection	IP 55 (IS/IEC 600529 : 2001)
Ambient Temperature	50°C Max

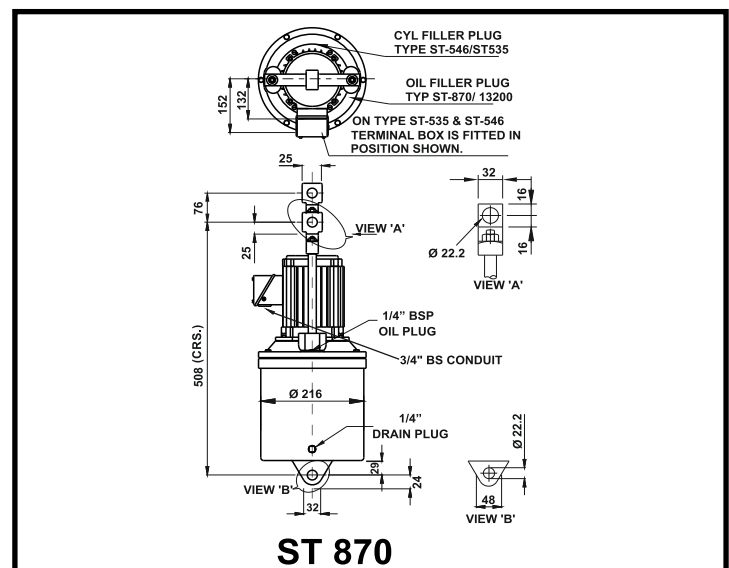
* 380V, 460V, 550V on Enquiry



Electro-hydraulic Thrusters
ST 870



Sectional View



ST 870



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Electro-Hydraulic Thruster (114 kg)

Type : ST 8110

INTRODUCTION

Electro-hydraulic thruster is a device which develops linear (or force) required to operate the required mechanism. The input to the device is three phase supply. The thrusters are widely used in material handling machines. Thrusters in various models develop 18kg to 114kg. In stroke lengths of 51mm, 76mm, 127mm Thrusters should be mounted with in $\pm 10^\circ$ From vertical. Working fluid - Transformer oil to BS 148.

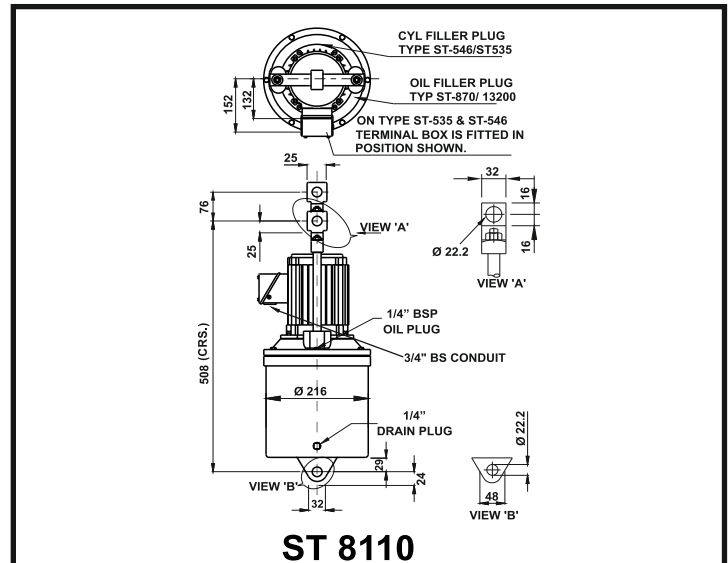
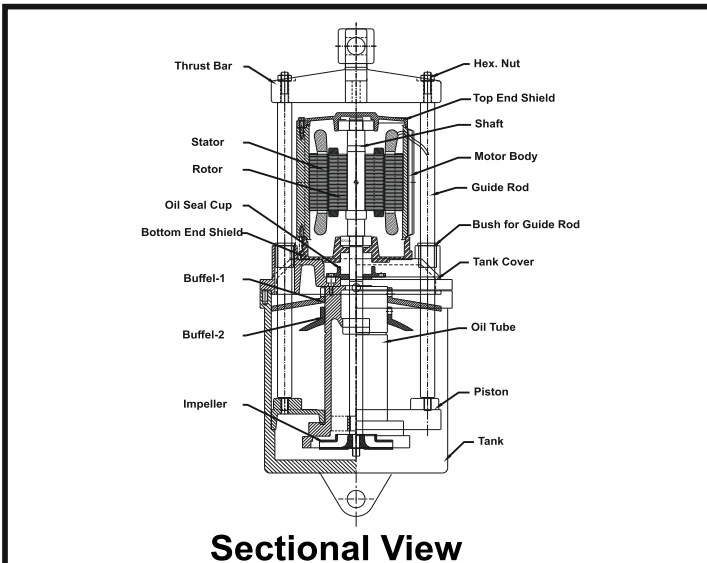
Technical Data

Thruster Model	ST - 8110
Lifting Force	114 Kg
Stroke	76 mm
Current	0.8 amps
Power	250 Watt
Oil Capacity	4.5 Liters Transformer Oil
Weight	35 Kg
Voltage A. C.	415V 3 ϕ , AC
Ingress Protection	IP 55 (IS/IEC 600529 : 2001)
Ambient Temperature	50°C Max

* 380V, 460V, 550V on Enquiry



Electro-hydraulic Thrusters
ST 8110



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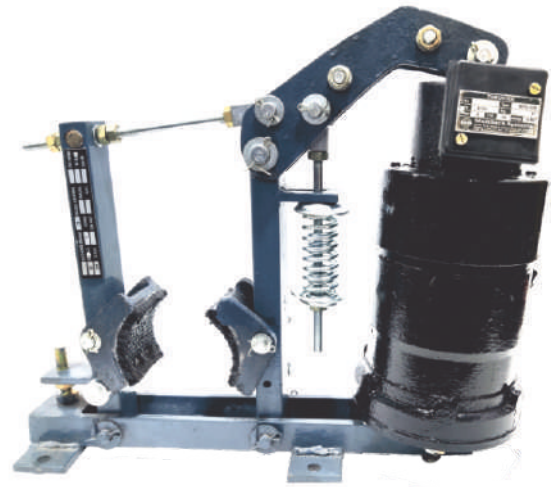


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MDT 100-18 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.



Technical Date

Item	Brake	Thruster
Model	MDT-100-18	ST-520
Drum Dia	100 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	6 Kg-m	-
Thrust	-	18Kg
Stroke	-	51mm
Oil + Capacity	-	Transformer Oil 2 Litrs
Rated Voltage	-	415V±10%, 3Ph AC, 50Hz
Current At 415 VAC	-	0.4 Amps
Insulation	-	F Class
Ingress Protection	-	IP-44 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	9 kg	12 kg
Painting	Colour RAL 7021	

Selection Of Brake Size

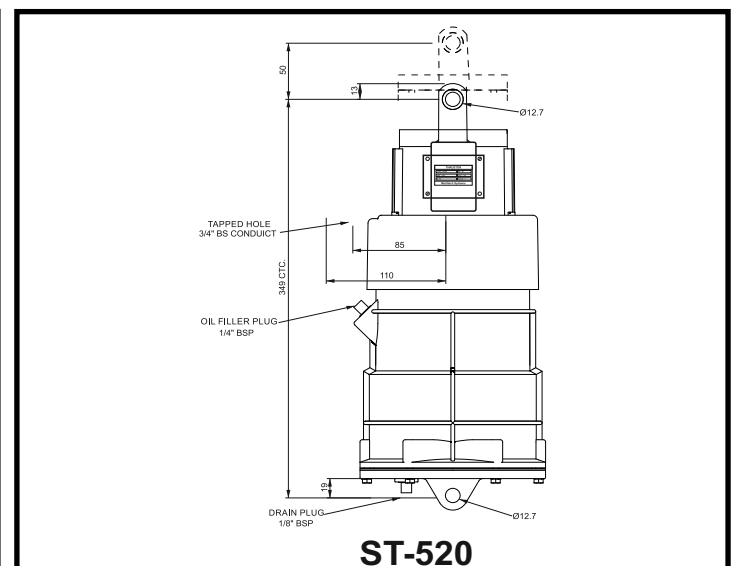
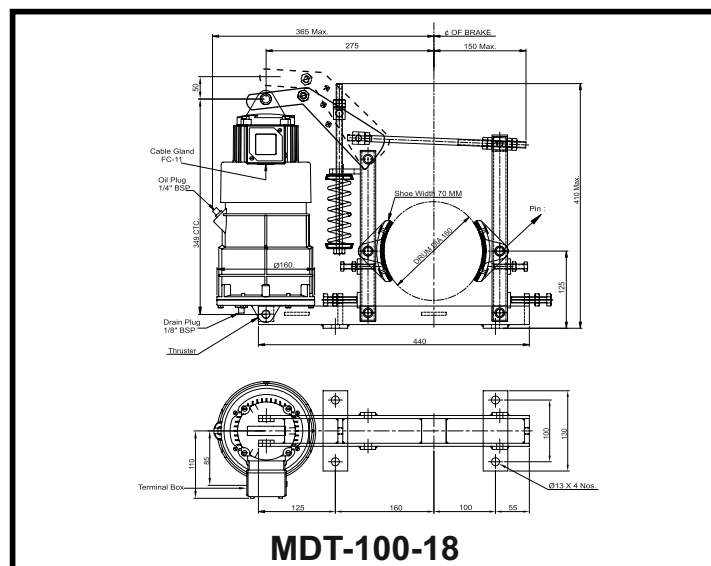
Electo-hydraulic thruster is a device which develops liner thrust (or force) required to operate the required mechanism. The input to the device is three phase supply.

The brake torque must be => than motor full load as referred with drum. Formula as below:

$$T = \text{Torque in Kgm} = \frac{716 \times \text{Hp}}{\text{rpm}}$$

$$T = \text{Torque in Nm} = \frac{9552 \times \text{Kw}}{\text{rpm}}$$

Where Hp/Kw = motor output & rpm = Rev/minute



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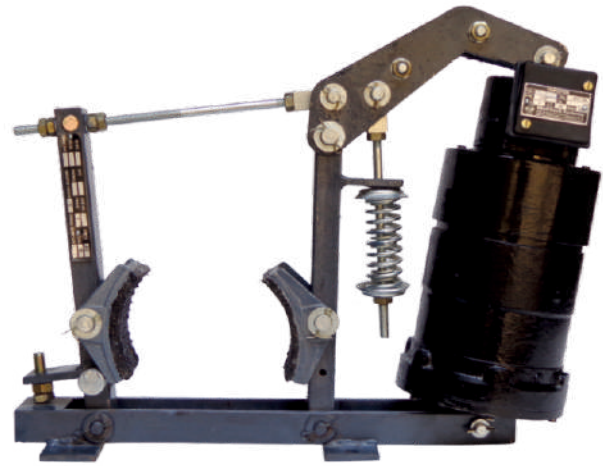


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MDT 150-18 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.



Technical Date

Item	Brake	Thruster
Model	MDT-150-18	ST-520
Drum Dia	150 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	7.5 Kg-m	-
Thrust	-	18Kg
Stroke	-	51mm
Oil + Capacity	-	Transformer Oil 2 Litrs
Rated Voltage	-	415V±10%, 3Ph AC, 50Hz
Current At 415 VAC	-	0.4 Amps
Insulation	-	F Class
Ingress Protection	-	IP-44 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	11 kg	12 kg
Painting	Colour RAL 7021	

Selection Of Brake Size

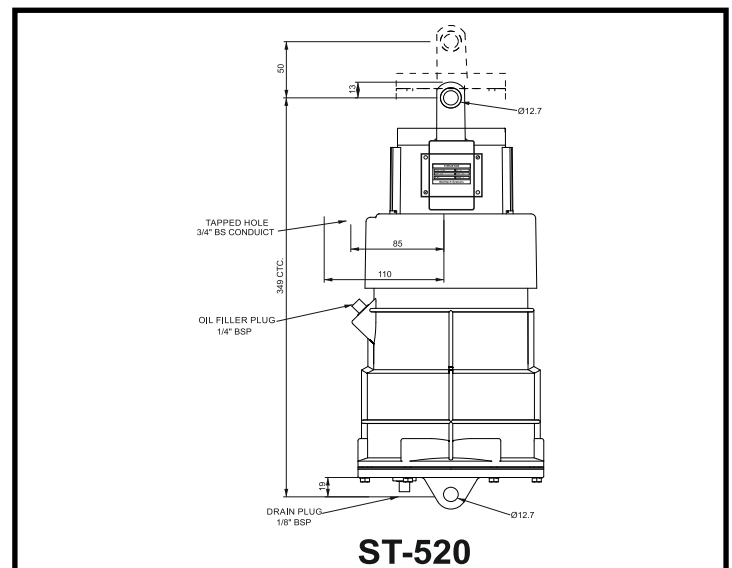
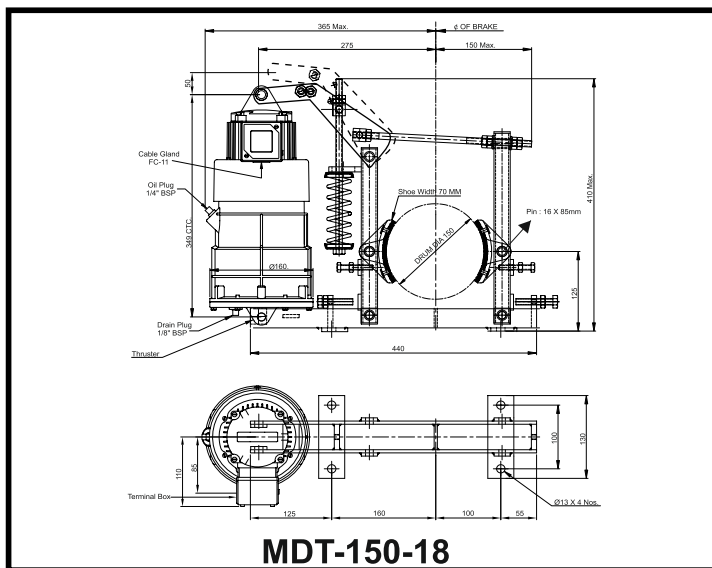
Electo-hydraulic thruster is a device which develops liner thrust (or force) required to operate the required mechanism. The input to the device is three phase supply.

The brake torque must be => than motor full load as referred with drum. Formula as below:

$$T = \text{Torque in Kgm} = \frac{716 \times \text{Hp}}{\text{rpm}}$$

$$T = \text{Torque in Nm} = \frac{9552 \times \text{Kw}}{\text{rpm}}$$

Where Hp/Kw = motor output & rpm = Rev/minute



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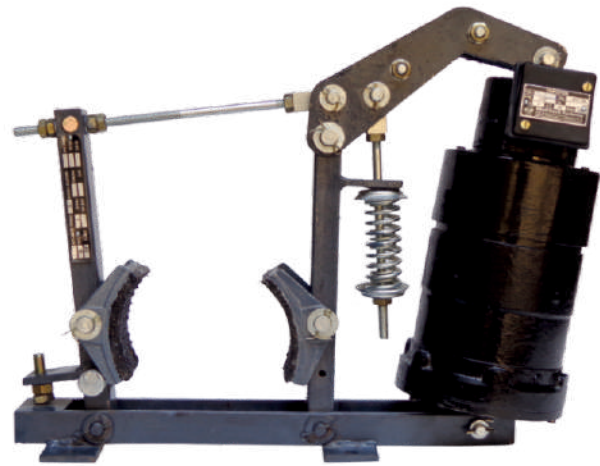
MDT 160-18 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.

Technical Date

Item	Brake	Thruster
Model	MDT-160-18	ST-520
Drum Dia	160 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	9 Kg-m	-
Thrust	-	18Kg
Stroke	-	51mm
Oil + Capacity	-	Transformer Oil 2 Litrs
Rated Voltage	-	415V±10%,3Ph AC, 50Hz
Current At 415 VAC	-	0.4 Amps
Insulation	-	F Class
Ingress Protection	-	IP-44 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	11 kg	12 kg
Painting	Colour RAL 7021	



Selection Of Brake Size

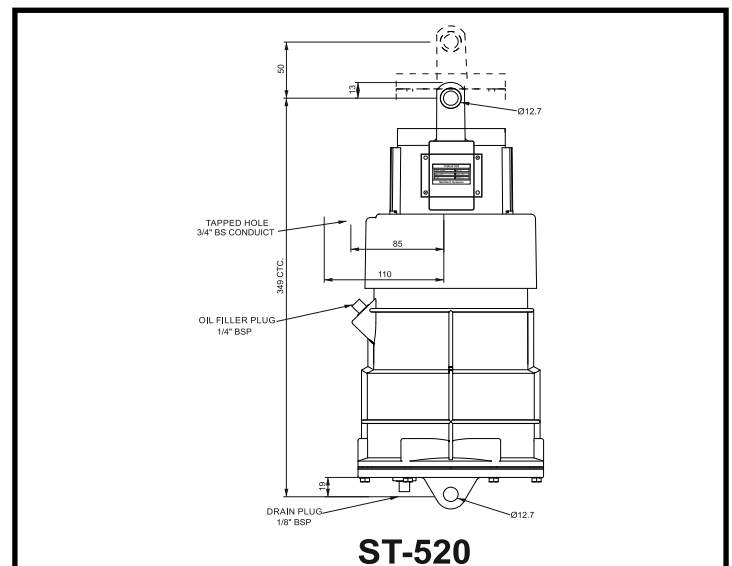
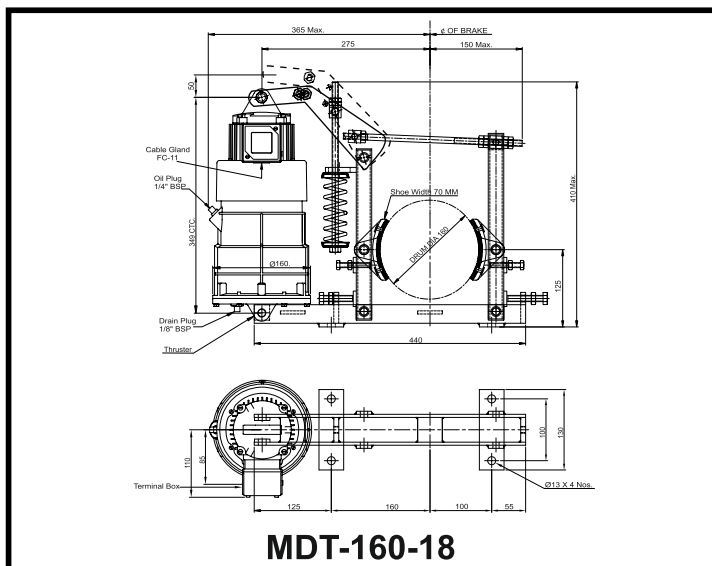
Electo-hydraulic thruster is a device which develops liner thrust (or force) required to operate the required mechanism. The input to the device is three phase supply.

The brake torque must be => than motor full load as referred with drum. Formula as below:

$$T = \text{Torque in Kgm} = \frac{716 \times \text{Hp}}{\text{rpm}}$$

$$T = \text{Torque in Nm} = \frac{9552 \times \text{Kw}}{\text{rpm}}$$

Where Hp/Kw = motor output & rpm = Rev/minute



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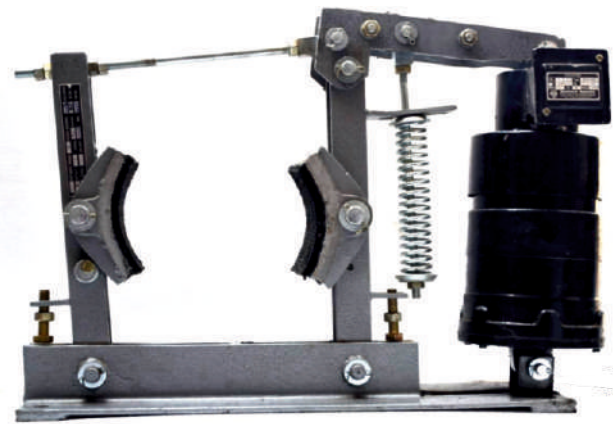
MDT 200-18 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.

Technical Date

Item	Brake	Thruster
Model	MDT-200-18	ST-520
Drum Dia	200 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	20 Kg-m	-
Thrust	-	18Kg
Stroke	-	51mm
Oil + Capacity	-	Transformer Oil 2 Litrs
Rated Voltage	-	415V±10%, 3Ph AC, 50Hz
Current At 415 VAC	-	0.4 Amps
Insulation	-	F Class
Ingress Protection	-	IP-44 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	18 kg	12 kg
Painting	Colour RAL 7021	



Selection Of Brake Size

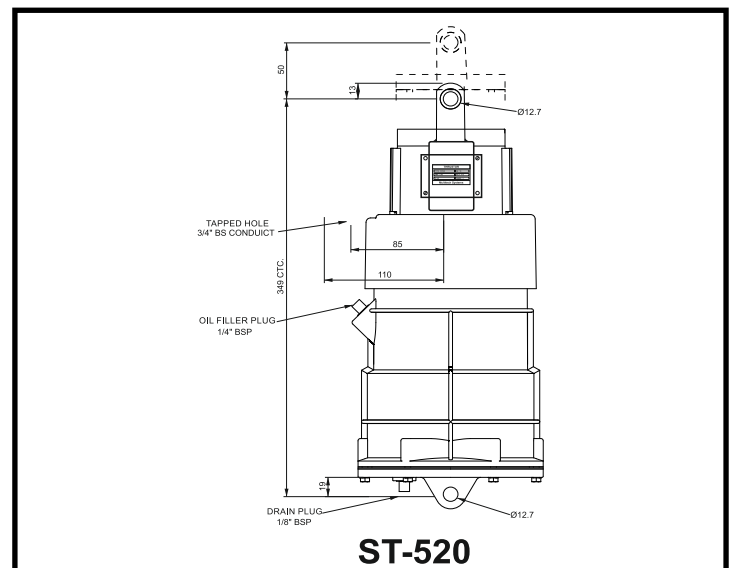
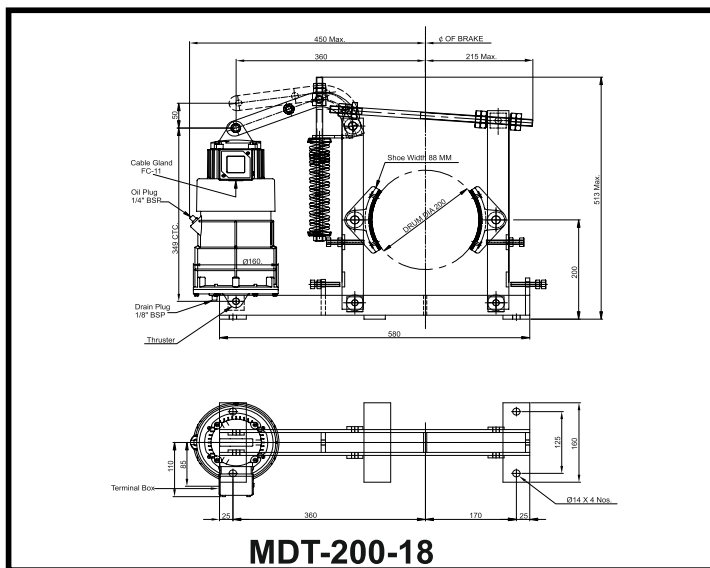
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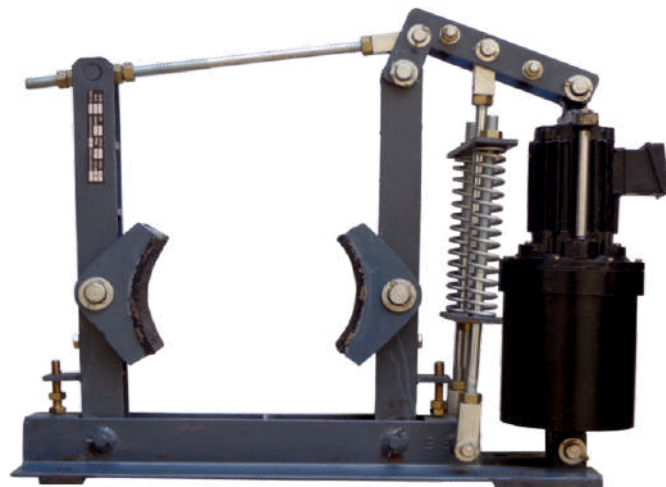
MDT 200-34 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.

Technical Date

Item	Brake	Thruster
Model	MDT-200-34	ST-535
Drum Dia	200 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	32 Kg-m	-
Thrust	-	34Kg
Stroke	-	51mm
Oil + Capacity	-	Transformer Oil 2 Litrs
Rated Voltage	-	415V±10%,3Ph AC, 50Hz
Current At 415 VAC	-	0.5 Amps
Insulation	-	F Class
Ingress Protection	-	IP-44 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	24 kg	16 kg
Painting	Colour RAL 7021	



Selection Of Brake Size

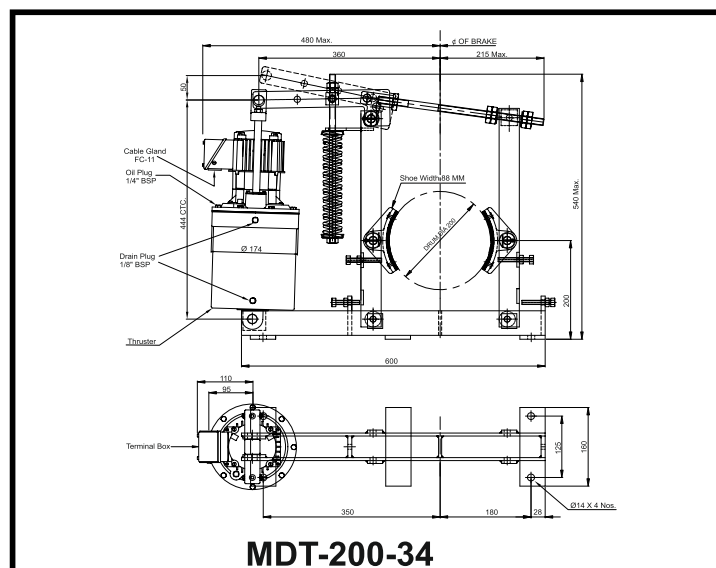
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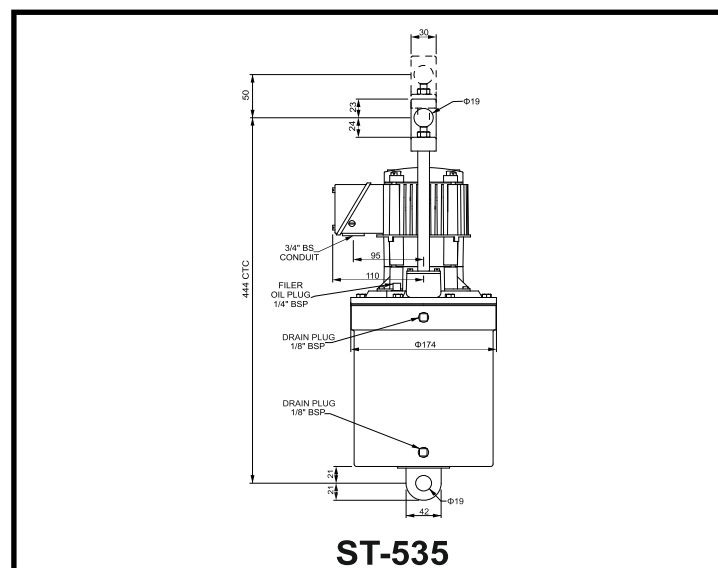
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MDT-200-34



ST-535



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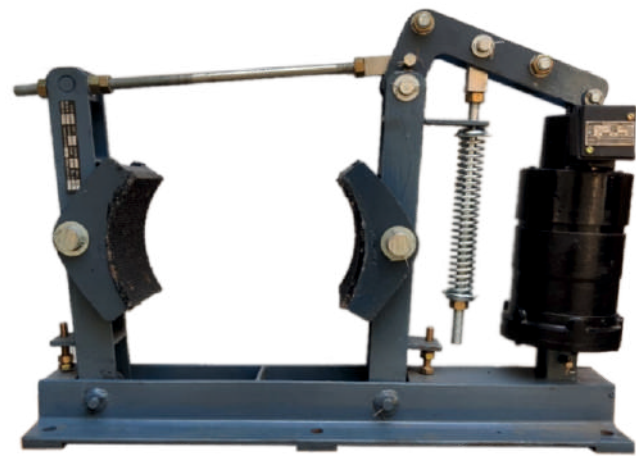
MDT 250-18 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.

Technical Date

Item	Brake	Thruster
Model	MDT-250-18	ST-520
Drum Dia	250 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	35 Kg-m	-
Thrust	-	18Kg
Stroke	-	51mm
Oil + Capacity	-	Transformer Oil 2 Litrs
Rated Voltage	-	415V±10%, 3Ph AC, 50Hz
Current At 415 VAC	-	0.4 Amps
Insulation	-	F Class
Ingress Protection	-	IP-44 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	23 kg	12 kg
Painting	Colour RAL 7021	



Selection Of Brake Size

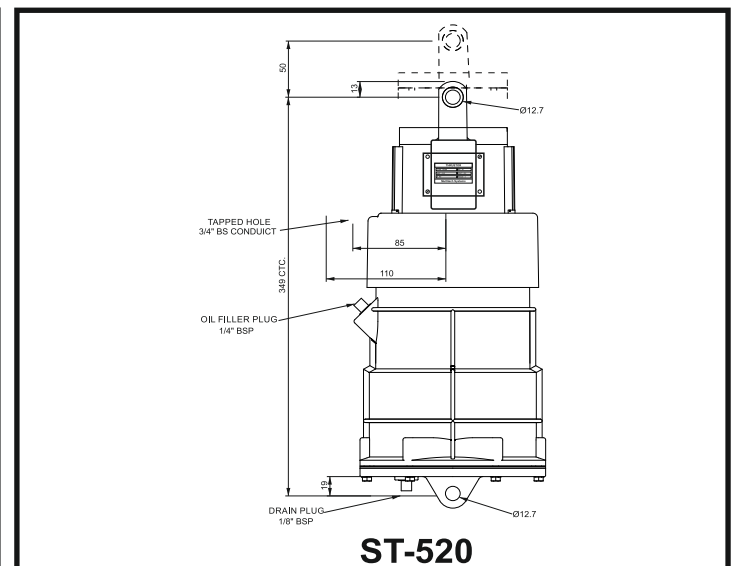
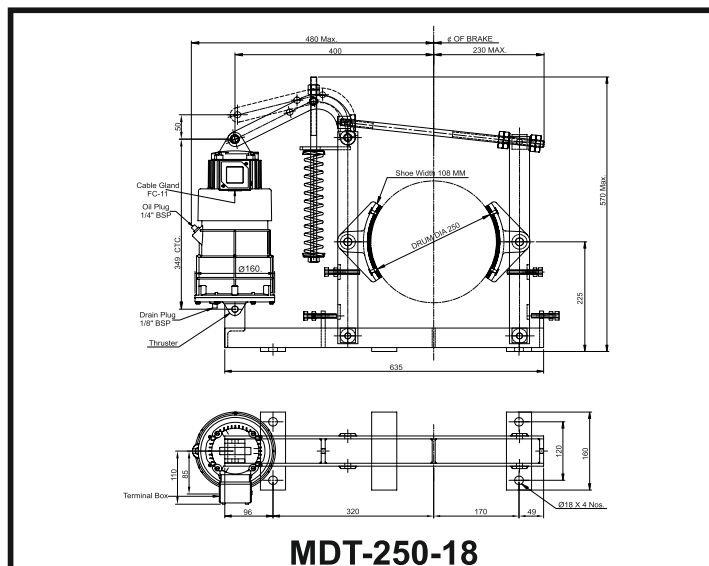
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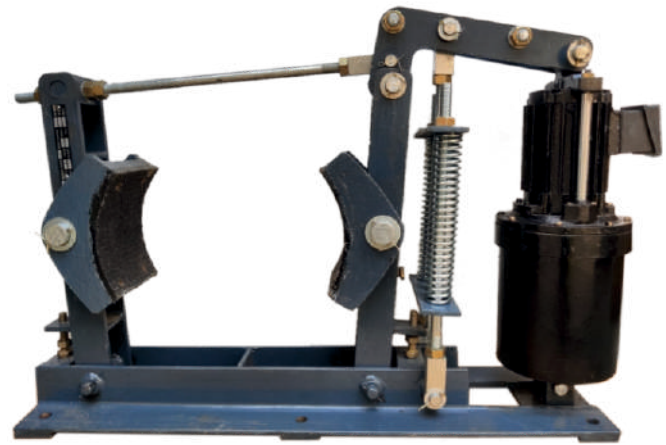
MDT 250-34 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.

Technical Date

Item	Brake	Thruster
Model	MDT-250-34	ST-535
Drum Dia	250 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	42 Kg-m	-
Thrust	-	34Kg
Stroke	-	51mm
Oil + Capacity	-	Transformer Oil 2 Litrs
Rated Voltage	-	415V±10%, 3Ph AC, 50Hz
Current At 415 VAC	-	0.5 Amps
Insulation	-	F Class
Ingress Protection	-	IP-44 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	29 kg	16 kg
Painting	Colour RAL 7021	



Selection Of Brake Size

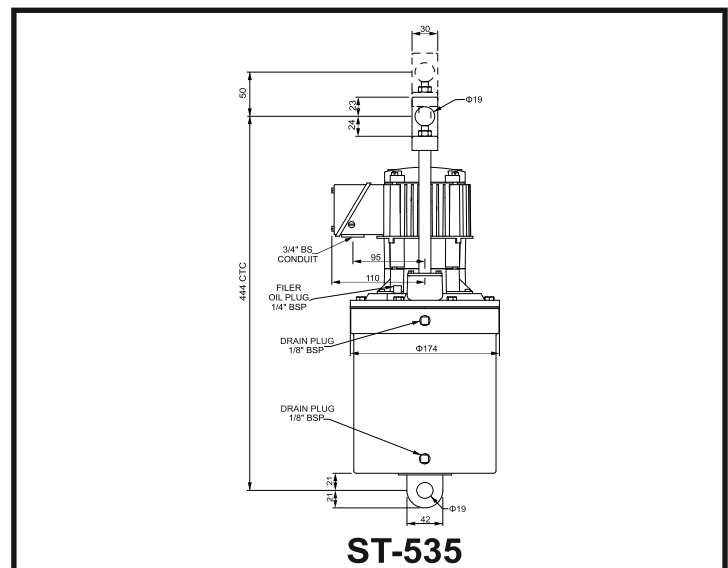
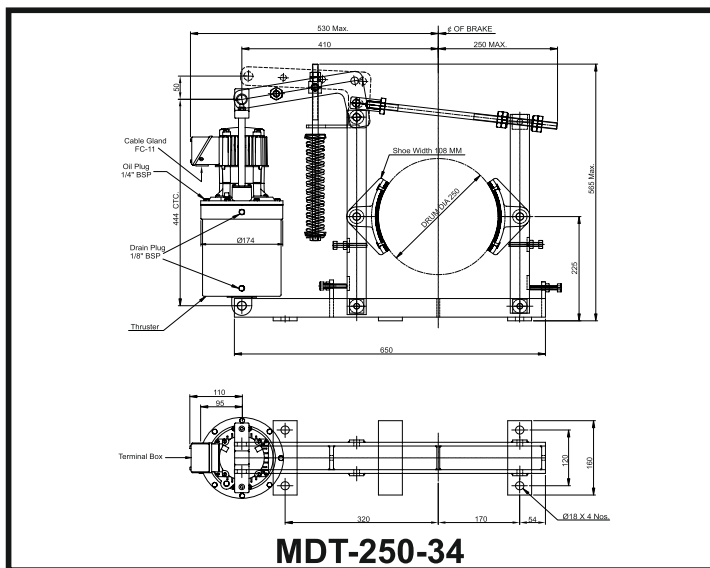
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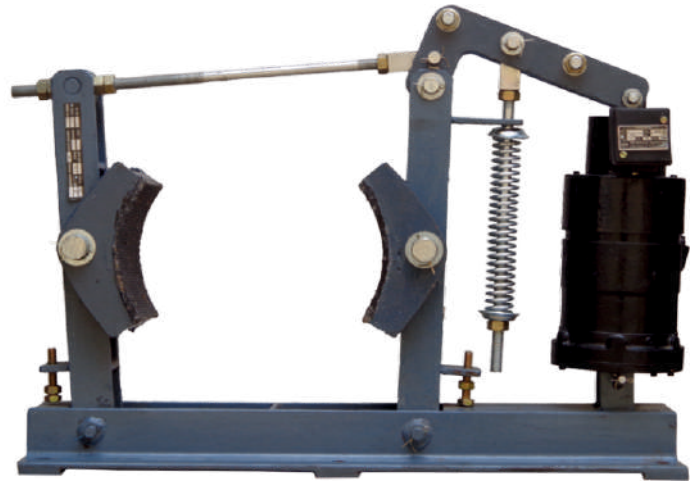
MDT 300-18 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.

Technical Date

Item	Brake	Thruster
Model	MDT-300-18	ST-520
Drum Dia	300 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	42 Kg-m	-
Thrust	-	18Kg
Stroke	-	51mm
Oil + Capacity	-	Transformer Oil 2 Litrs
Rated Voltage	-	415V±10%, 3Ph AC, 50Hz
Current At 415 VAC	-	0.4 Amps
Insulation	-	F Class
Ingress Protection	-	IP-44 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	26 kg	12 kg
Painting	Colour RAL 7021	



Selection Of Brake Size

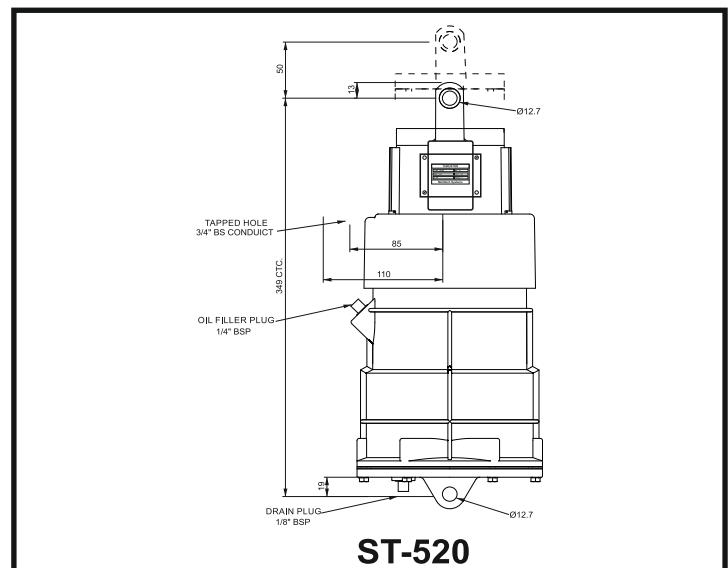
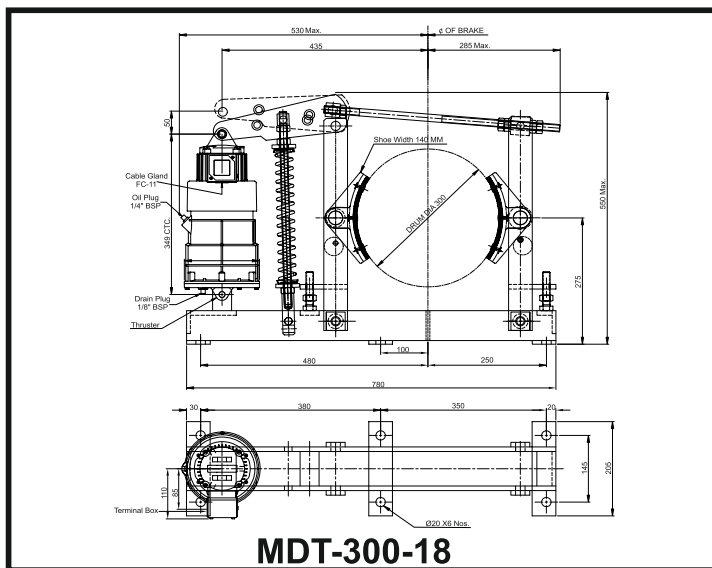
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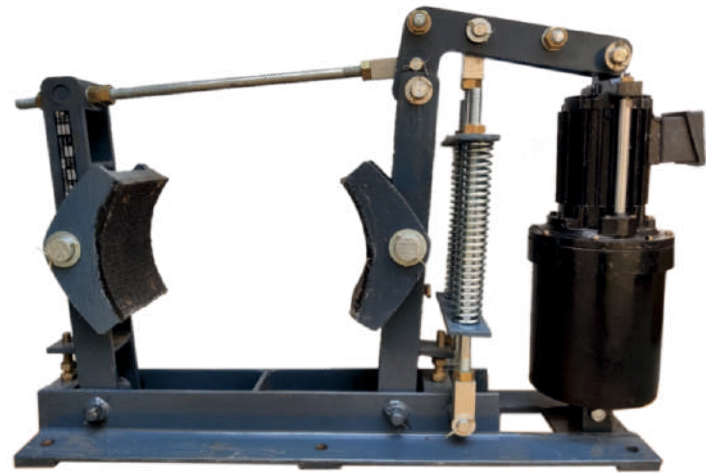
MDT 300-34 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.-

Technical Date

Item	Brake	Thruster
Model	MDT-300-34	ST-535
Drum Dia	300 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	62 Kg-m	-
Thrust	-	34Kg
Stroke	-	51mm
Oil + Capacity	-	Transformer Oil 2 Litrs
Rated Voltage	-	415V±10%,3Ph AC, 50Hz
Current At 415 VAC	-	0.5 Amps
Insulation	-	F Class
Ingress Protection	-	IP-44 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	34 kg	16 kg
Painting	Colour RAL 7021	



Selection Of Brake Size

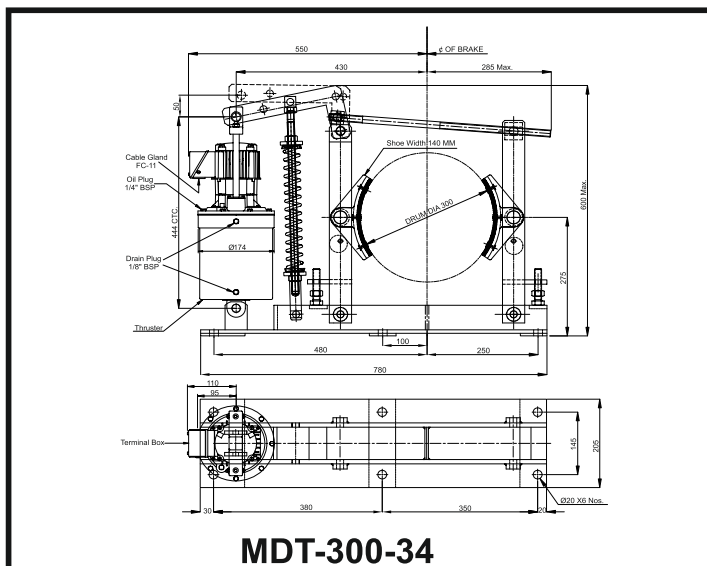
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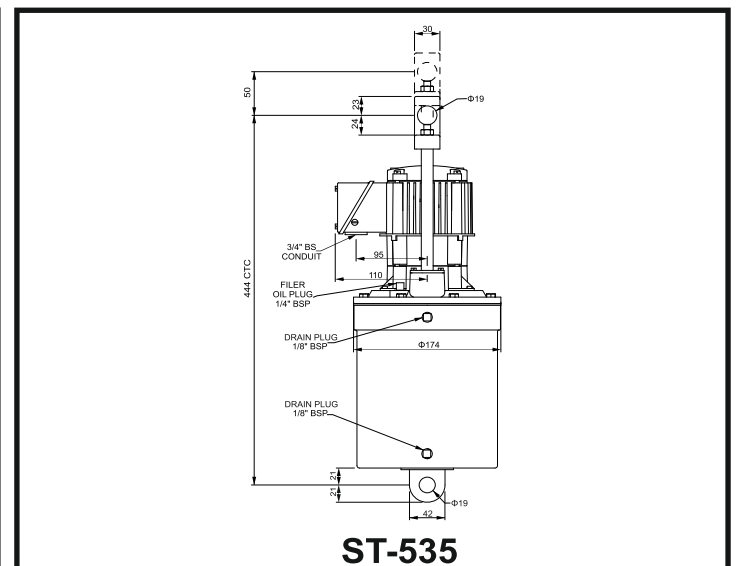
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Where Hp/Kw = motor output & rpm = Rev/minute



MDT-300-34



ST-535



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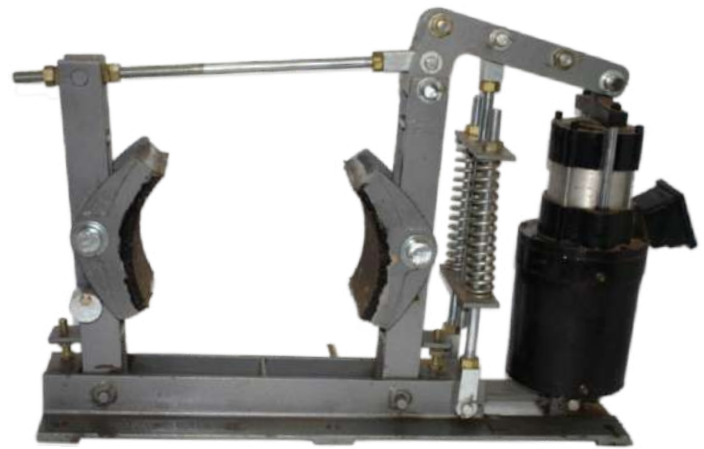
MDT 300-46 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.

Technical Date

Item	Brake	Thruster
Model	MDT-300-46	ST-545
Drum Dia	300 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	72 Kg-m	-
Thrust	-	46Kg
Stroke	-	51mm
Oil + Capacity	-	Transformer Oil 2 Litrs
Rated Voltage	-	415V±10%, 3Ph AC, 50Hz
Current At 415 VAC	-	0.6 Amps
Insulation	-	F Class
Ingress Protection	-	IP-44 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	34 kg	18kg
Painting	Colour RAL 7021	



Selection Of Brake Size

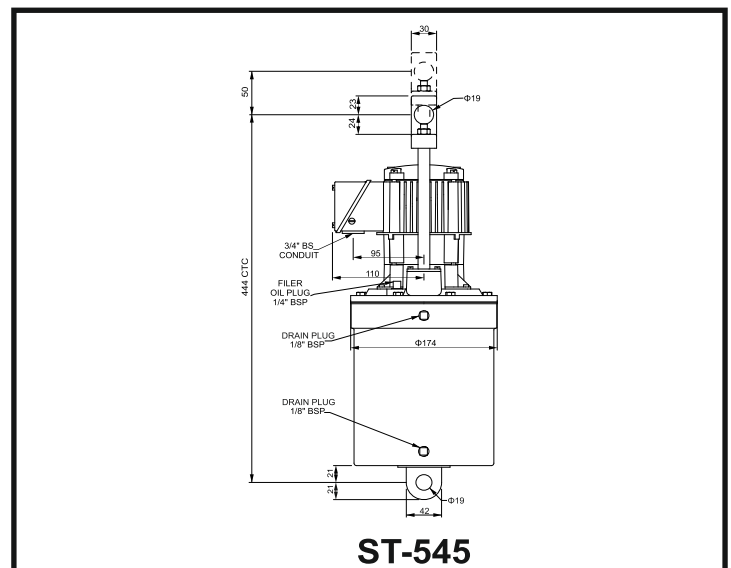
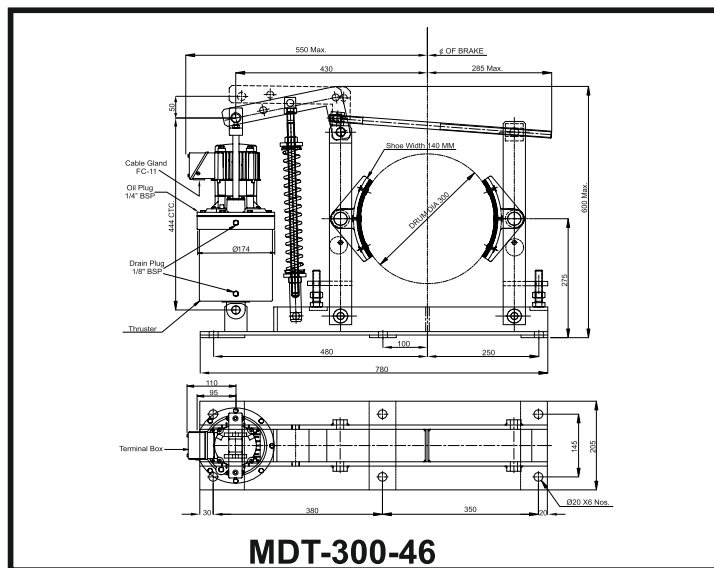
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Where Hp/Kw = motor output & rpm = Rev/minute



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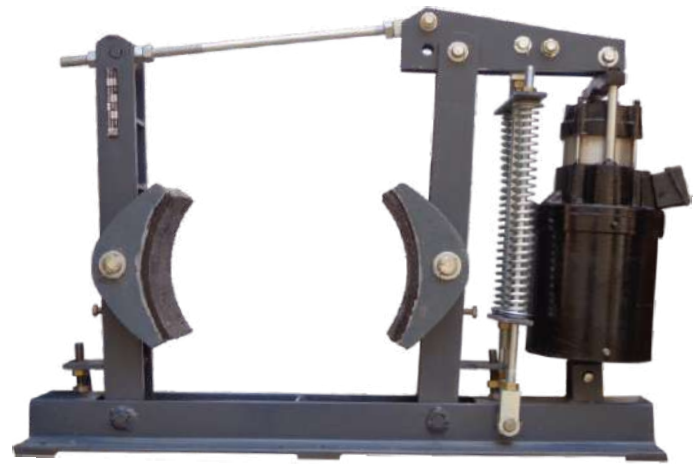
MDT 300-68 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.

Technical Date

Item	Brake	Thruster
Model	MDT-300-68	ST-870
Drum Dia	300 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	90 Kg-m	-
Thrust	-	68Kg
Stroke	-	76mm
Oil + Capacity	-	Transformer Oil 2 Litrs
Rated Voltage	-	415V±10%,3Ph AC, 50Hz
Current At 415 VAC	-	0.7 Amps
Insulation	-	F Class
Ingress Protection	-	IP-44 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	34 kg	30 kg
Painting	Colour RAL 7021	



Selection Of Brake Size

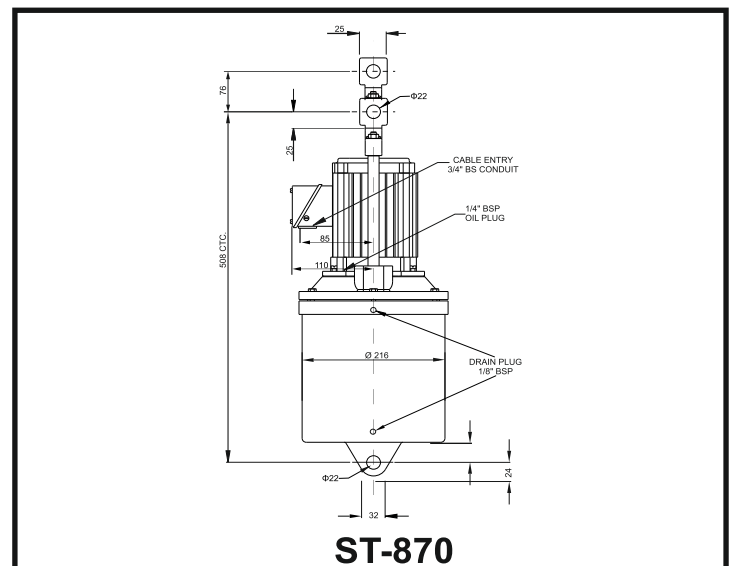
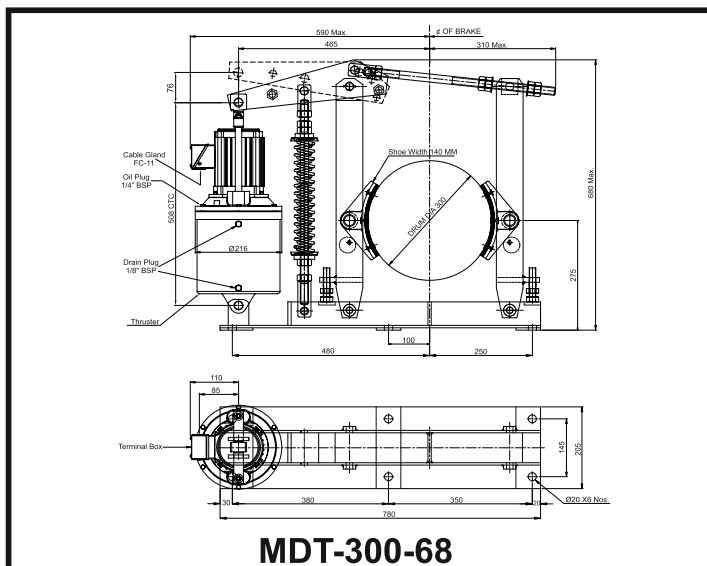
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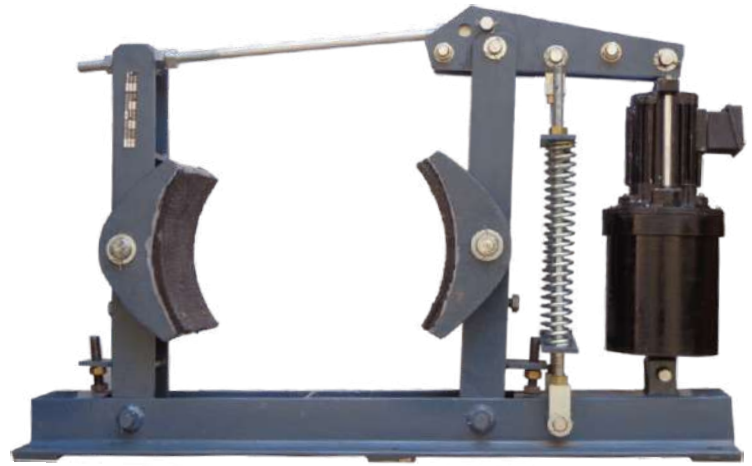
MDT 400-34 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.

Technical Date

Item	Brake	Thruster
Model	MDT-400-34	ST-535
Drum Dia	400 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	90 Kg-m	-
Thrust	-	34Kg
Stroke	-	51mm
Oil + Capacity	-	Transformer Oil 2.5 Litrs
Rated Voltage	-	415V±10%,3Ph AC, 50Hz
Current At 415 VAC	-	0.5 Amps
Insulation	-	F Class
Ingress Protection	-	IP-44 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	54 kg	16kg
Painting	Colour RAL 7021	



Selection Of Brake Size

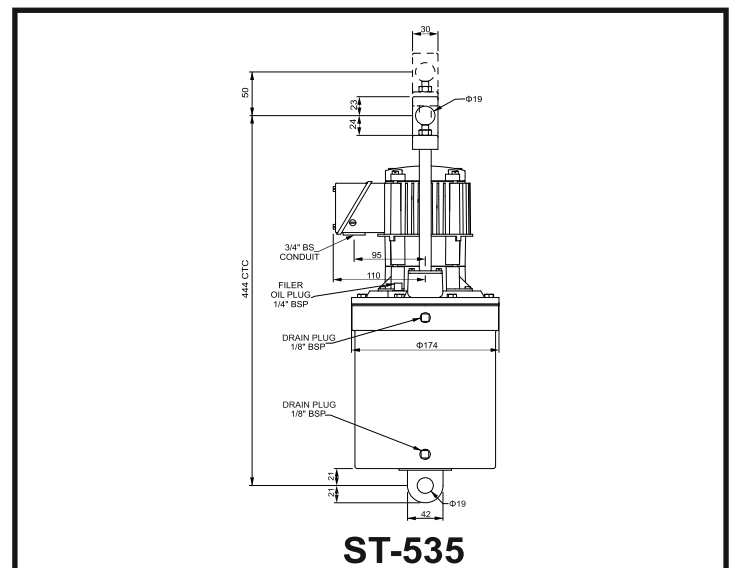
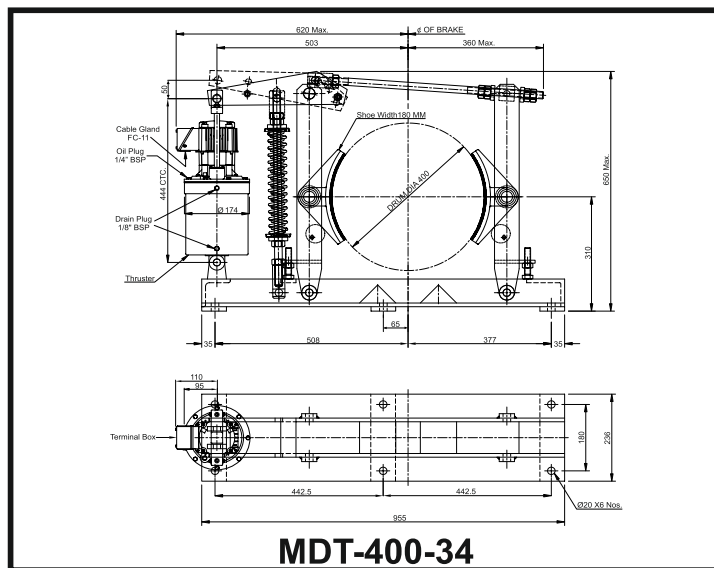
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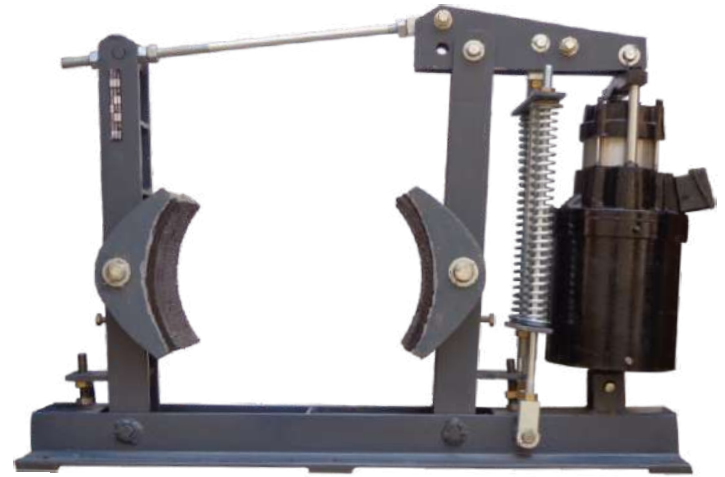
MDT 400-68 Mill Duty Thruster Brakes

INTRODUCTION

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Technical Date

Item	Brake	Thruster
Model	MDT-400-68	ST-870
Drum Dia	400 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	170 Kg-m	-
Thrust	-	68 Kg
Stroke	-	76 mm
Oil + Capacity	-	Transformer Oil 4.5 Litrs
Rated Voltage	-	415V±10%, 3Ph AC, 50Hz
Current At 415 VAC	-	0.7 Amps
Insulation	-	F Class
Ingress Protection	-	IP-55 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	43 kg	30kg
Painting	Colour RAL 7021	



Selection Of Brake Size

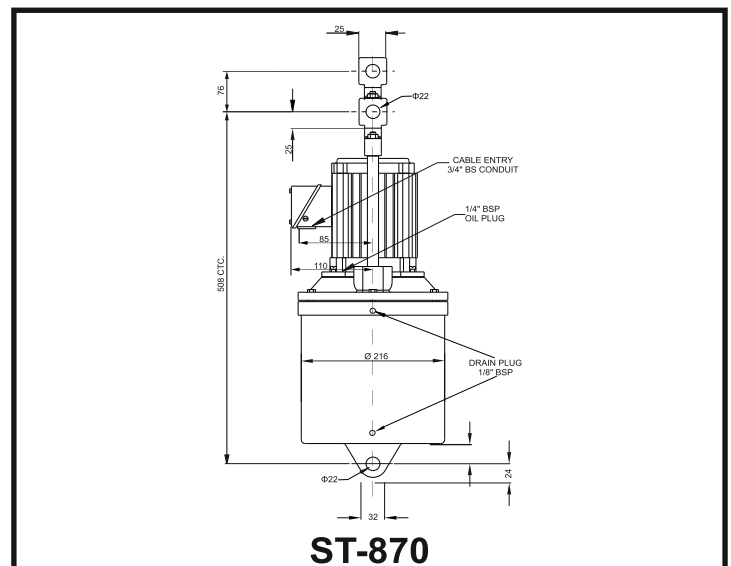
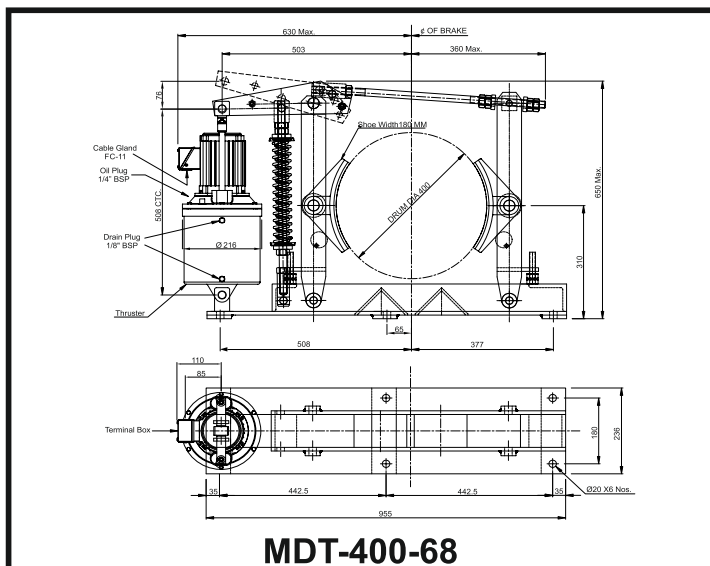
Electo-hydraulic thruster is a device which develops liner thrust (or force) required to operate the required mechanism. The input to the device is three phase supply.

The brake torque must be => than motor full load as referred with drum. Formula as below:

$$T = \text{Torque in Kgm} = \frac{716 \times \text{Hp}}{\text{rpm}}$$

$$T = \text{Torque in Nm} = \frac{9552 \times \text{Kw}}{\text{rpm}}$$

Where Hp/Kw = motor output & rpm = Rev/minute



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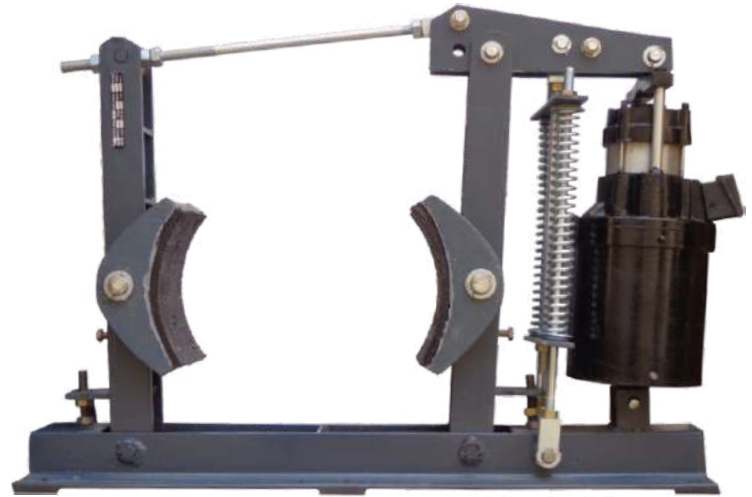
MDT 400-114 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.

Technical Date

Item	Brake	Thruster
Model	MDT-400-114	ST-8110
Drum Dia	400 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	290 Kg-m	-
Thrust	-	114Kg
Stroke	-	76mm
Oil + Capacity	-	Transformer Oil 2.5 Litrs
Rated Voltage	-	415V±10%,3Ph AC, 50Hz
Current At 415 VAC	-	0.8 Amps
Insulation	-	F Class
Ingress Protection	-	IP-55 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	43 kg	35 kg
Painting	Colour RAL 7021	



Selection Of Brake Size

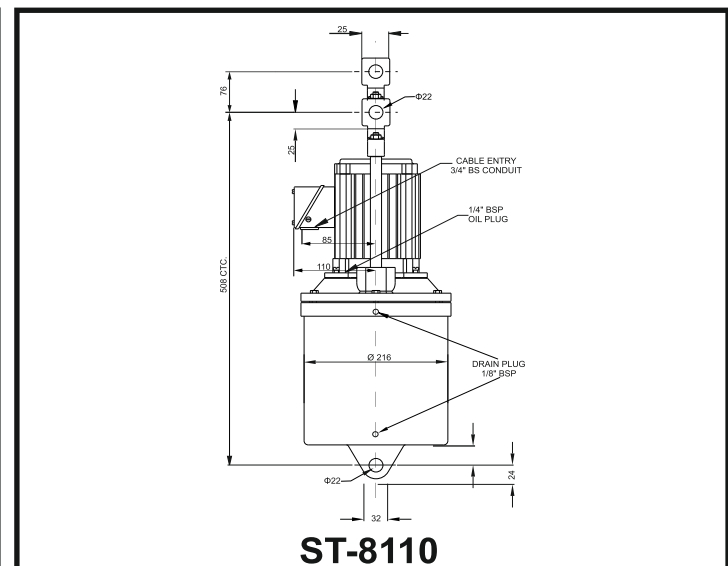
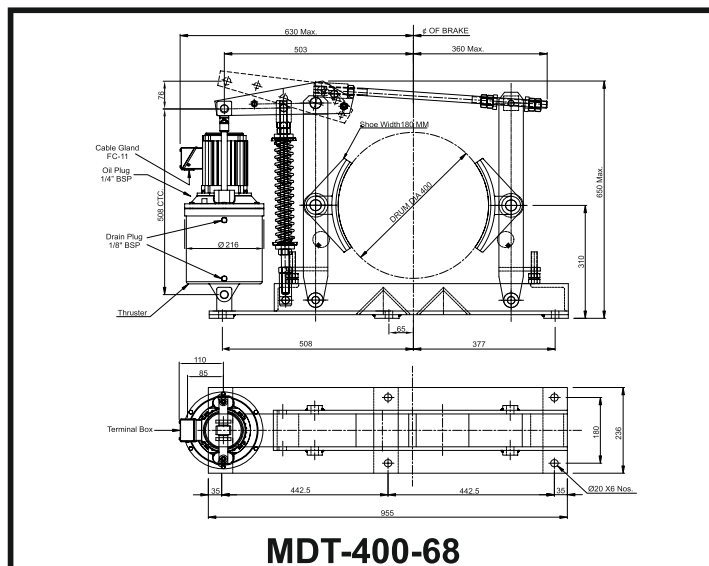
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The brake torque must be => than motor full load as referred with drum. Formula as below:

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$$T = \text{Torque in Nm} = \frac{9552 \times \text{Kw}}{\text{rpm}}$$

Where Hp/Kw = motor output & rpm = Rev/minute



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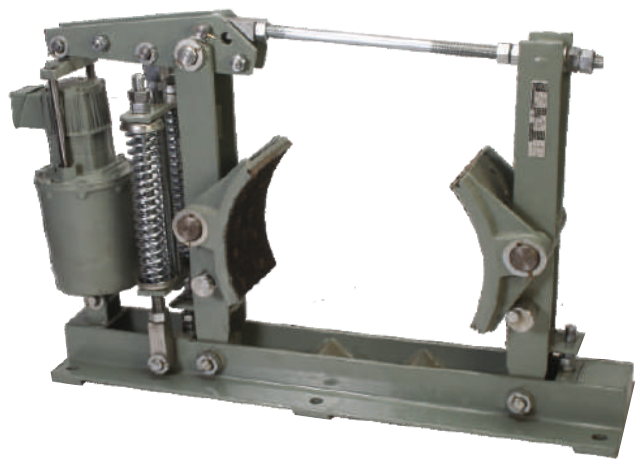
MDT 500-34 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.

Technical Date

Item	Brake	Thruster
Model	MDT-500-34	ST-535
Drum Dia	500 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	110 Kg-m	-
Thrust	-	35Kg
Stroke	-	51 mm
Oil + Capacity	-	Transformer Oil 2.5 Litrs
Rated Voltage	-	415V±10%, 3Ph AC, 50Hz
Current At 415 VAC	-	0.5 Amps
Insulation	-	F Class
Ingress Protection	-	IP-55 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	90 kg	16kg
Painting	Colour RAL 7021	



Selection Of Brake Size

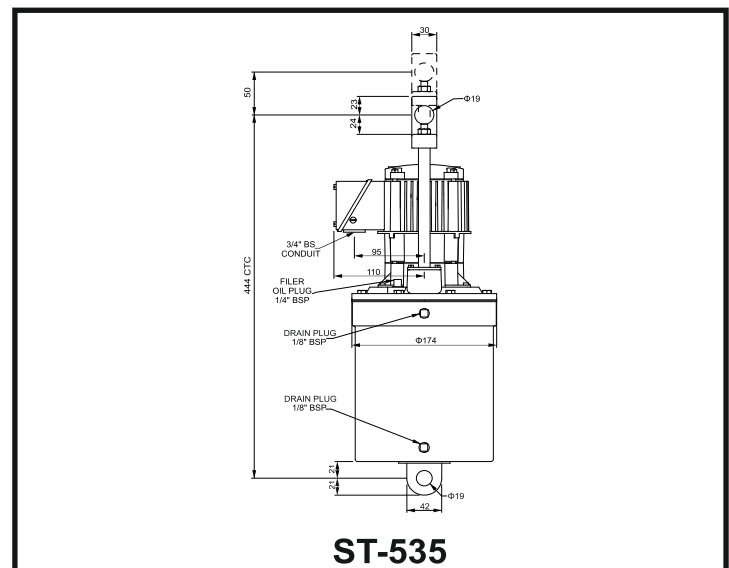
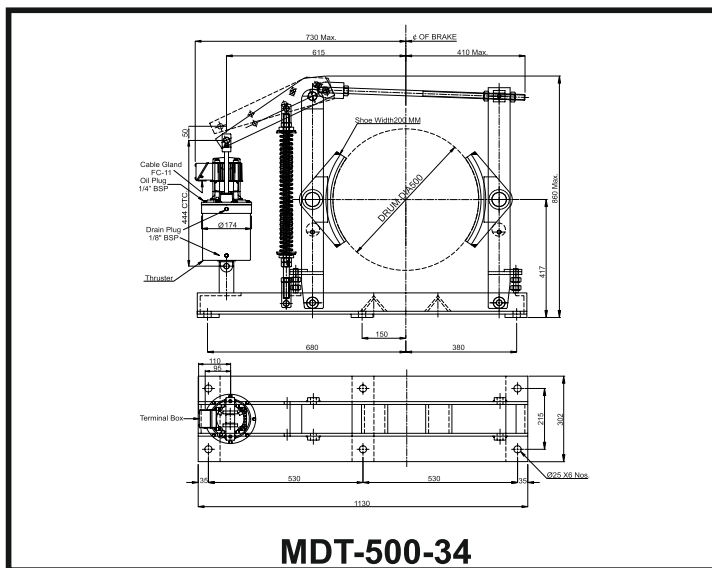
Electo-hydraulic thruster is a device which develops liner thrust (or force) required to operate the required mechanism. The input to the device is three phase supply.

The brake torque must be => than motor full load as referred with drum. Formula as below:

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$$T = \text{Torque in Nm} = \frac{9552 \times \text{Kw}}{\text{rpm}}$$

Where Hp/Kw = motor output & rpm = Rev/minute



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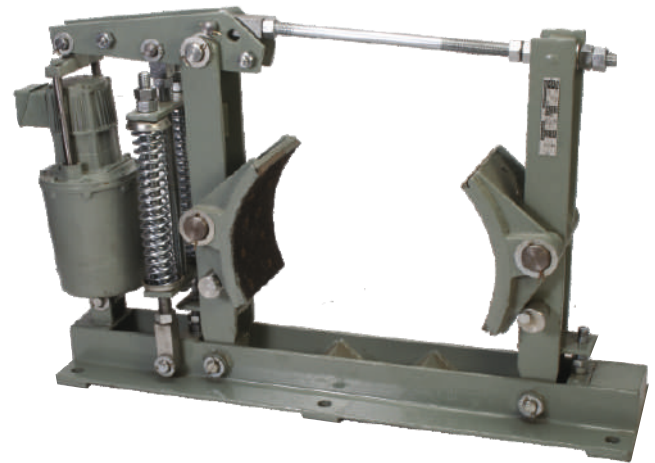
MDT 500-46 Mill Duty Thruster Brakes

INTRODUCTION

Thruster Brake is device to retard the speed of moving machinery and to stop it accurately to the desired position. The braking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum, retarding its speed, and finally stopping it.

Technical Date

Item	Brake	Thruster
Model	MDT-500-46	ST-545
Drum Dia	500 mm	-
Brake Shoe	Asbestos free/BA	-
Braking Torque	190 Kg-m	-
Thrust	-	46Kg
Stroke	-	51mm
Oil + Capacity	-	Transformer Oil 4.5 Litrs
Rated Voltage	-	415V±10%, 3Ph AC, 50Hz
Current At 415 VAC	-	0.6 Amps
Insulation	-	F Class
Ingress Protection	-	IP-55 IS/IEC 60529 (2001)
Surface Temperature	-	+50°C
Weight	62 kg	18 kg
Painting	Colour RAL 7021	



Selection Of Brake Size

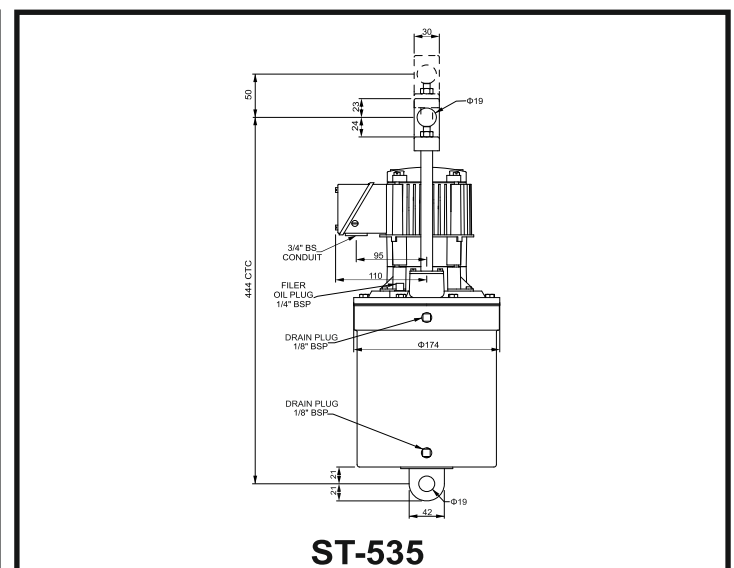
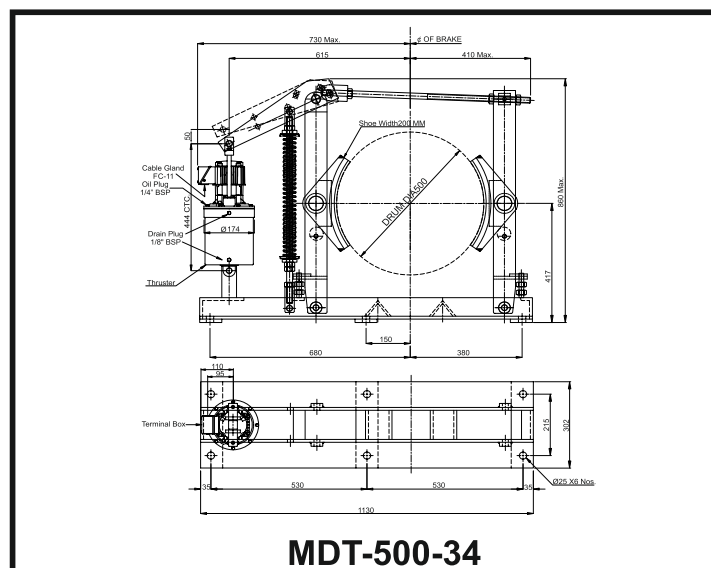
Electo-hydraulic thruster is a device which develops liner thrust (or force) required to operate the required mechanism. The input to the device is three phase supply.

The brake torque must be => than motor full load as referred with drum. Formula as below:

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Where Hp/Kw = motor output & rpm = Rev/minute



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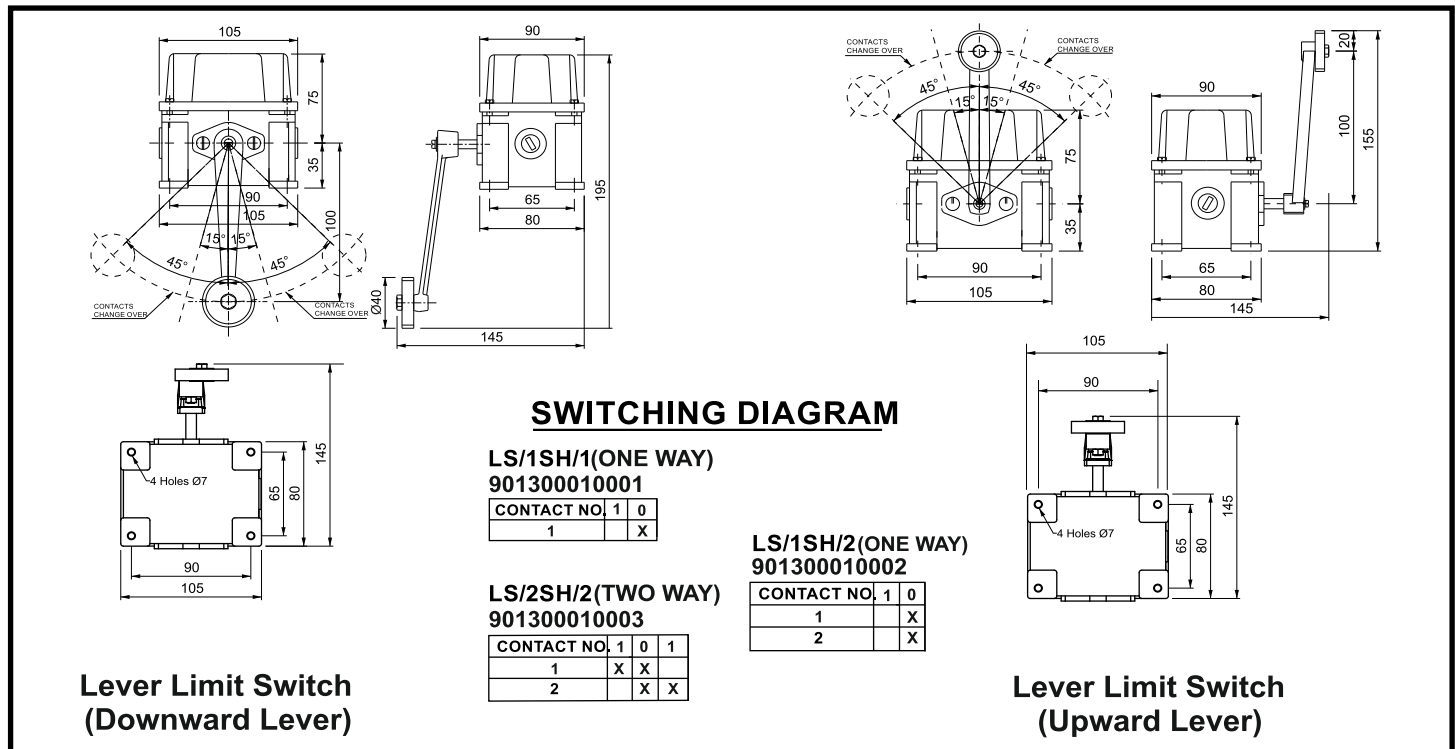
Lever Type Limit Switch 10A

INTRODUCTION

Lever Type Limit Switch operates the control change-over contacts of motor of an moving equipments when a cam moving with loads actuates the lever of Limit Switch. This turns the cam on a square shaft and operate the NO/NC change over contact elements.

Technical Data

Body Material	Aluminium Die Cast (Powder Coated)
Protection Degree	IP-55 Confirming to (IS/IEC-60529(2001)
Mounting Popsition	Floor
Cable Entries	2, 3/4" Conduit
No. Of Contacts	MAX 2
Contact Material	Silver Cadmium
Wire Connection	Screw Terminal
Rated voltage	500 V.A.C. Max
Thermal Test Current	10 A



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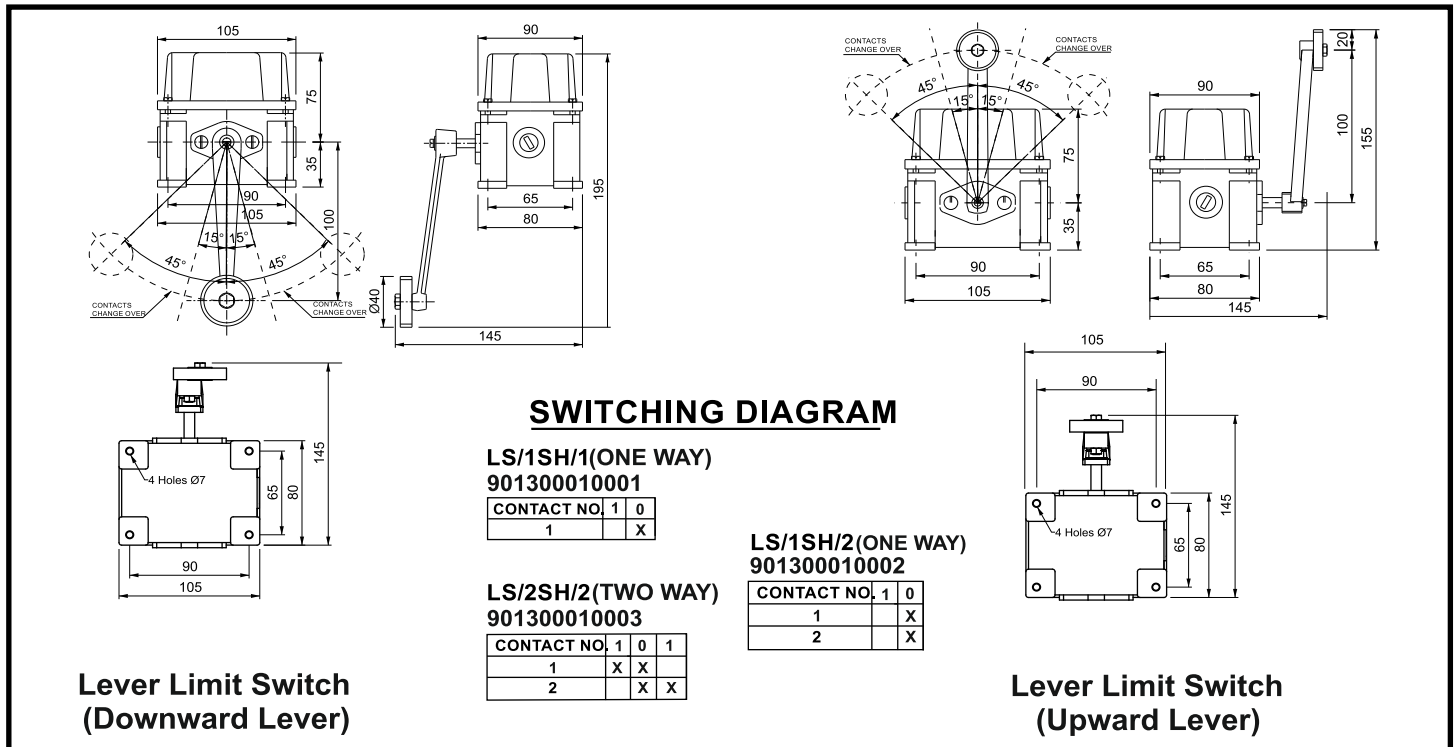
Lever Type Limit Switch 40A

INTRODUCTION

Lever Type Limit Switch operates the control change-over contacts of motor of an moving equipments when a cam moving with loads actuates the lever of Limit Switch. This turns the cam on a square shaft and operate the NO/NC change over contact elements.

Technical Data

Body Material	Aluminium Die Cast (Powder Coated)
Protection Degree	IP-55 Confirming to (IS/IEC-60529(2001))
Mounting Popsition	Floor
Cable Entries	2, 3/4" Conduit
No. Of Contacts	MAX 4
Contact Material	Silver Cadmium
Wire Connection	Screw Terminal
Rated voltage	500 V.A.C. Max
Thermal Test Current	40 A



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Lever Limit Switches

INTRODUCTION

Lever type Limit Switch operates the control change-over Contacts of motor of an moving equipment when a Cam moving with load actuates the Lever of limit switch. This turns the cams on a square shaft and - operates the NO/NC contact elements. These Limit Switch are used for controlling over travel of linear motion

OPERATION:

Two or more Contact Elements are operated by respective rotating Cams, which are suitably fixed on a square Cam Shaft turned by a lever.

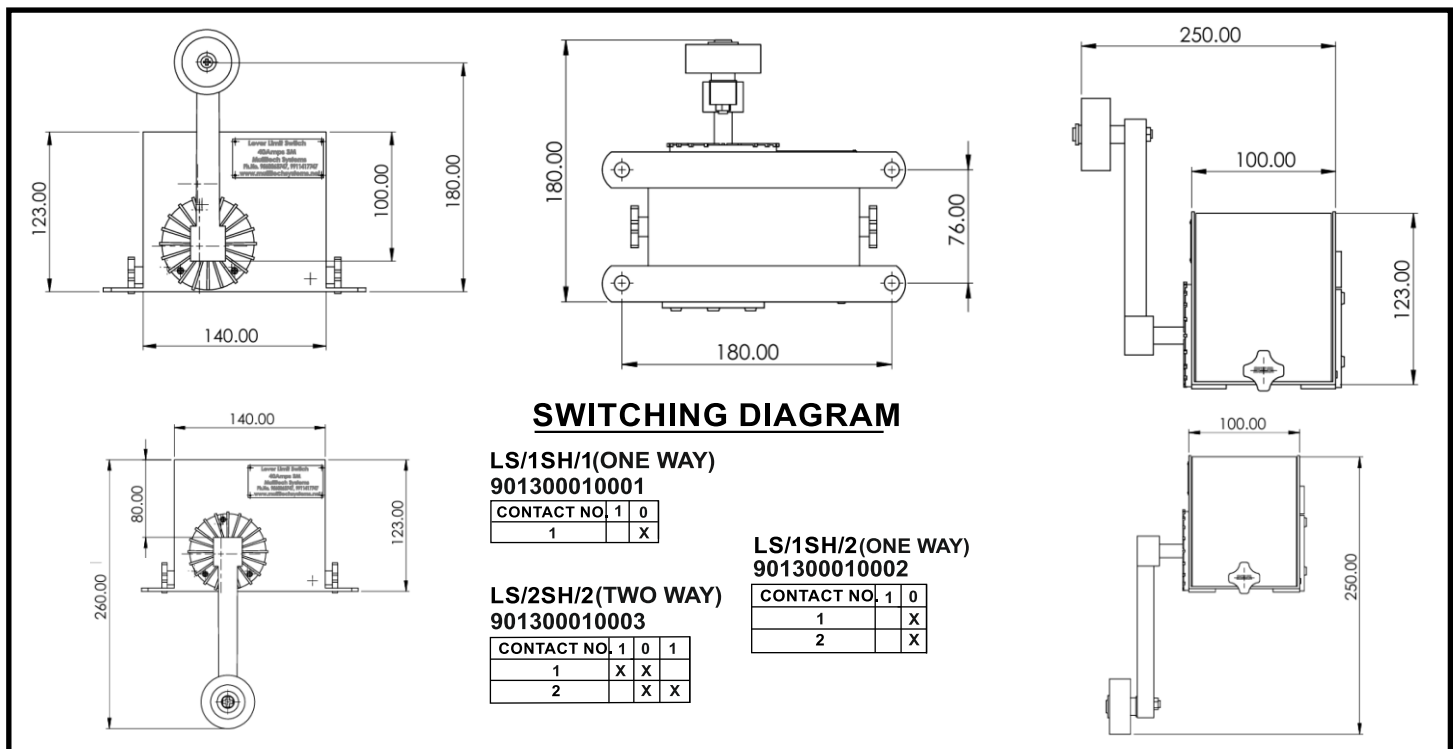
DESIGN: MS SHEETBODY

The MS Sheet 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
Mounting Position	Floor Mounting
Cable Entries	Twin. 3/4 BS Conduit
No. of Contact	2/3/4
Wire Connection	Silver-Cadmimum
Rated Voltage	500 V AC
Thermal Test Current	40 Amps



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Counter/ Gravity Weight Limit Switch

INTRODUCTION

Weight Operated Limit Switches are used on control/ power circuit of reversing drives so as to limit their rotation / movement with in a predetermined position. Complying to IEC/EN 60947-5-1, IEC/EN 60529, IEC 60068-2-78, IEC 60068-2-30

Operation

When the snatch block of the crane reaches its top position the snatch block pushes a plate which is hanging from one end of the lever of the limit switch. Due to the weight placed on the other end of the lever this lever is pushed up. When the lever is pushed up the shaft to which this lever is connected rotates there by rotating the cams which eventually open the contacts



Technical Data

Body material	Powder coated, Aluminum Die cast
Degree of protection	IP-55 IS/IEC-600529 : 2001
Mounting position	Floor mounting
Cable Entries	Twin, 3/4" BS conduit
No. of contact	2
Contact	Silver-cadmium
Wire connection	Screwed Terminals
Thermal Test Current	40 A
Rated Voltage	500 VAC

Switching Diagram

CWLS/1SH/1
101400020001

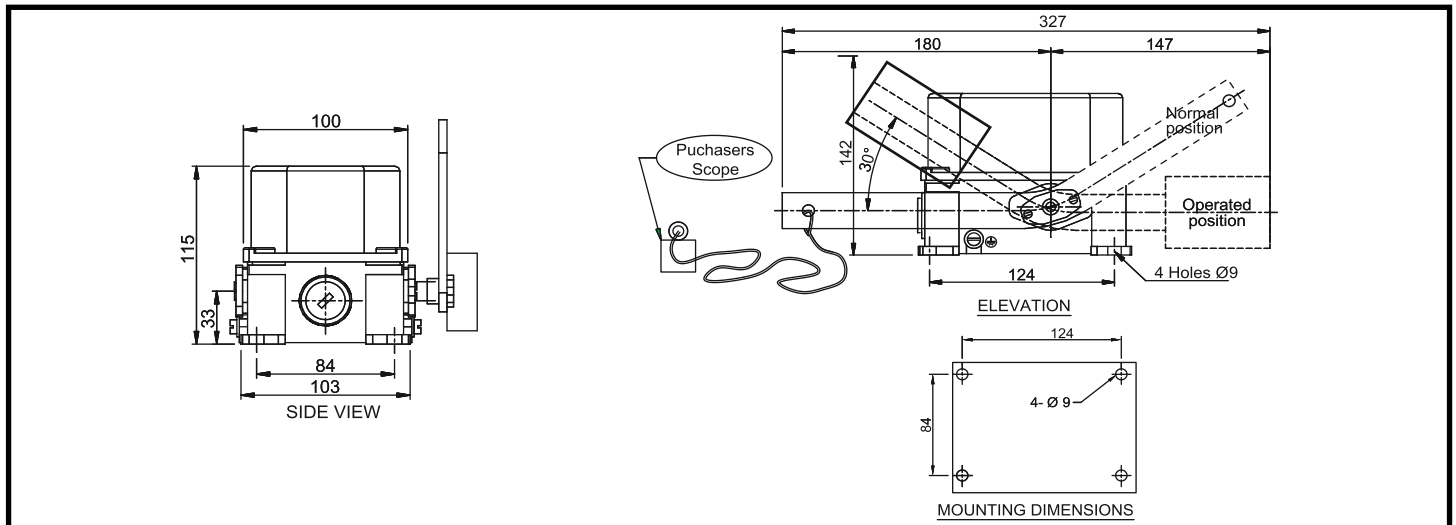
CONTACT NO.	0	1
1	X	

CWLS/1SH/2
101400020002

CONTACT NO.	0	1
1	X	
2	X	

CWLS/1SH/11
101400020003

CONTACT NO.	0	1
1	X	
2		X



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Geared Rotary Limit Switch GRLS/48/2SH

INTRODUCTION

Rotary Geared Limit Switch GRLS is used to trip Motor Supply when the moving loads reach the extreme end positions of working zone. The driving motion is transmitted by worm gear through worm shaft. The rotations & movements are transmitted to switches by adjustable cams. Complying to IEC/EN 60947-5-1, IEC/EN 60529, IES 60060-2-78 IES 60068-2-30.

Application

A Rotary Geared Limit Switch are suitable for use on reversing Odrives such as Hoists, Winches Rolling Mills & various other mechanisms used in steed plants such as Coke Oven, Feeding Oven Machin ery etc.

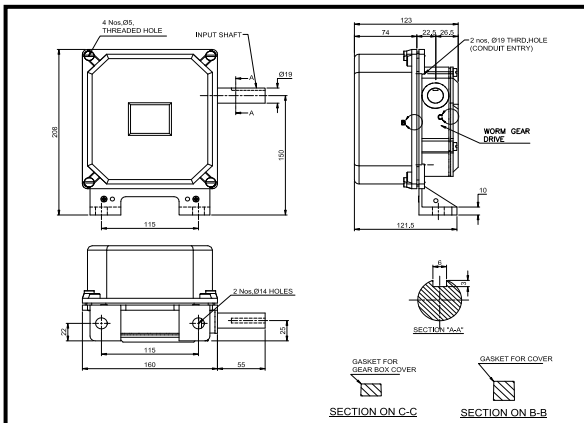


Mechanical Data

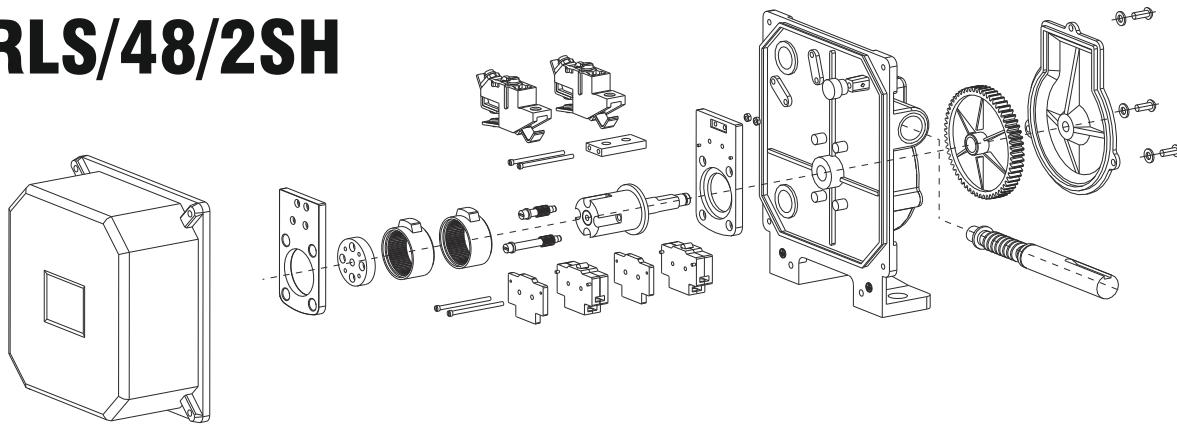
Ratio	Effective Rotations	Useful Rotations	2 Contacts Model
48:1	48	40	GRLS/48/2SH

Technical Data :

Body Material	Aluminium Die Cast
Protection Degree	IP-55 Confirmingto (IS/IEC : 60529(2001)
Gear Ratio	48:1
Drive	Worm Drive
Cable Entries	2x3/4" Conduit
Contact Material	Silver Cadmium
Rated Voltage Insulation	500 V.A.C.
Thermal Test Current	40 Amps
No. Of Contacts	2NC OR 2NO
Cam Setting	Adjustable



GRLS/48/2SH



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Geared Rotary Limit Switch GRLS/48/4SH

INTRODUCTION

Rotary Geared Limit Switch GRLS is used to trip Motor Supply when the moving loads reach the extreme end positions of working zone. The driving motion is transmitted by worm gear through worm shaft. The rotations & movements are transmitted to switches by adjustable cams. Complying to IEC/EN 60947-5-1, IEC/EN 60529, IES 60060-2-78 IES 60068-2-30.

Application

A Rotary Geared Limit Switch are suitable for use on reversing Odrives such as Hoists, Winches Rolling Mills & various other mechanisms used in steed plants such as Coke Oven, Feeding Oven Machin ery etc.

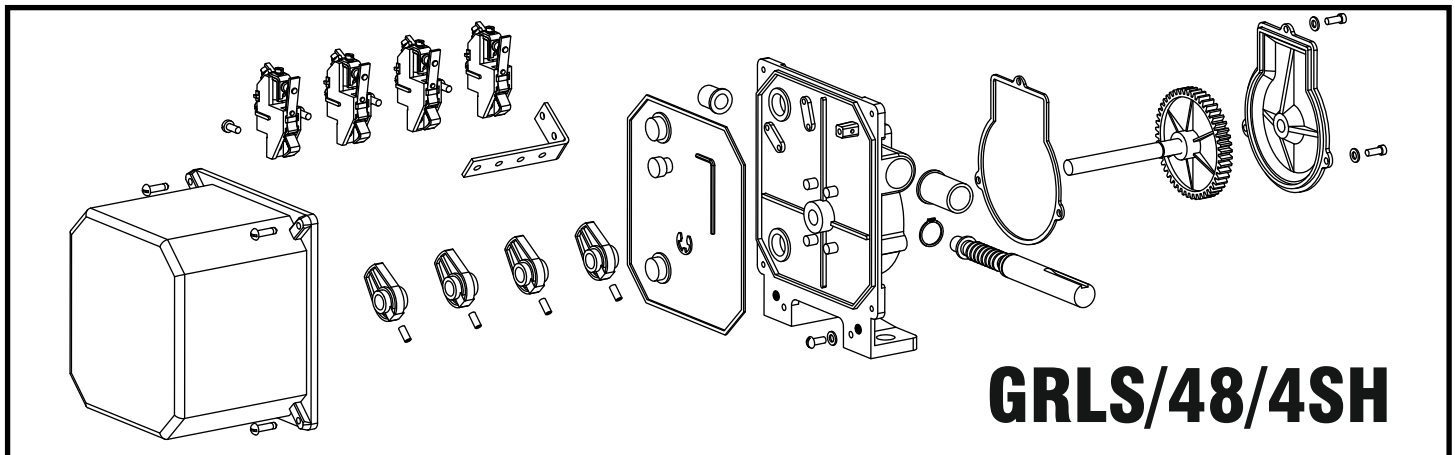
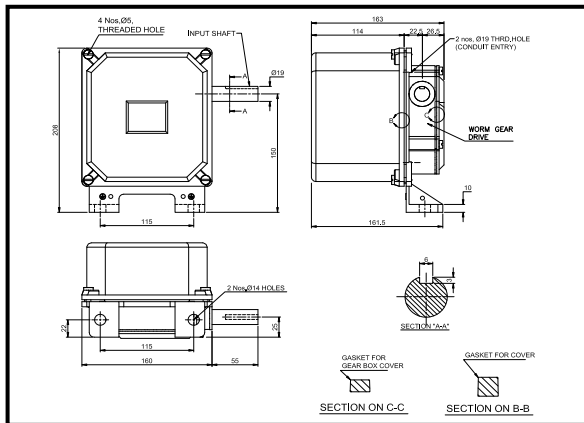


Mechanical Data

Ratio	Effective Rotations	Useful Rotations	2 Contacts Model
48:1	48	40	GRLS/48/4SH

Technical Data :

Body Material	Aluminium Die Cast
Protection Degree	IP-65 Confirmingto (IS/IEC : 60529(2001))
Gear Ratio	48:1
Drive	Worm Drive
Cable Entries	2x3/4" Conduit
Contact Material	Silver Cadmium
Rated Voltage Insulation	500 V.A.C.
Thermal Test Current	40 Amps
No. Of Contacts	4NC OR 4NO
Cam Setting	Adjustable



GRLS/48/4SH



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Geared Rotary Limit Switch GRLS/60/2SH

INTRODUCTION

Rotary Geared Limit Switch GRLS is used to trip Motor Supply when the moving loads reach the extreme end positions of working zone. The driving motion is transmitted by worm gear through worm shaft. The rotations & movements are transmitted to switches by adjustable cams. Complying to IEC/EN 60947-5-1, IEC/EN 60529, IES 60060-2-78 IES 60068-2-30.

Application

A Rotary Geared Limit Switch are suitable for use on reversing Odrives such as Hoists, Winches Rolling Mills & various other mechanisms used in steed plants such as Coke Oven, Feeding Oven Machin ery etc.

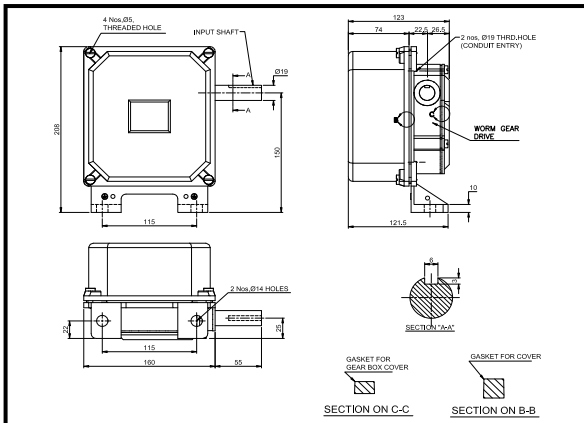


Mechanical Data

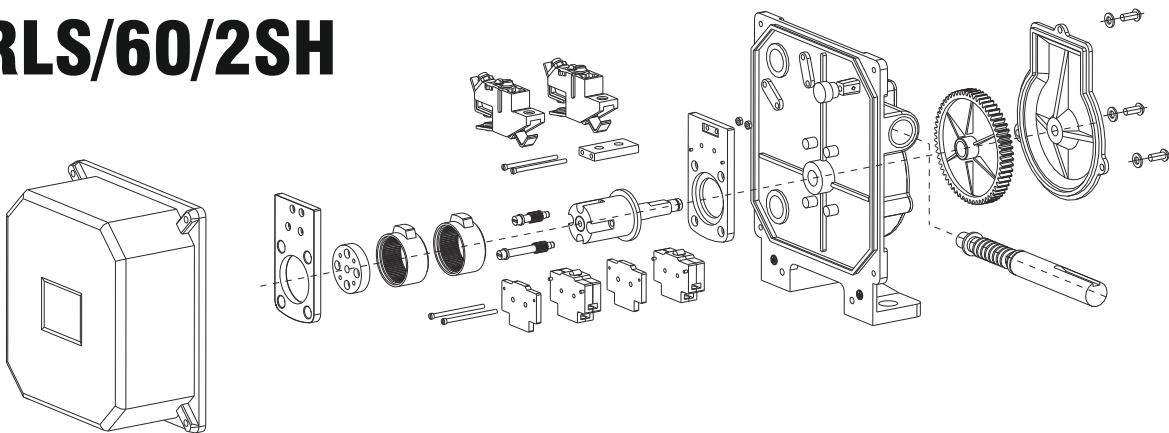
Ratio	Effective Rotations	Useful Rotations	2 Contacts Model
60:1	60	52	GRLS/60/2SH

Technical Data :

Body Material	Aluminium Die Cast
Protection Degree	IP-55 Confirmingto (IS/IEC : 60529(2001))
Gear Ratio	60:1
Drive	Worm Drive
Cable Entries	2x3/4" Conduit
Contact Material	Silver Cadmium
Rated Voltage Insulation	500 V.A.C.
Thermal Test Current	40 Amps
No. Of Contacts	2NC OR 2NO
Cam Setting	Adjustable



GRLS/60/2SH



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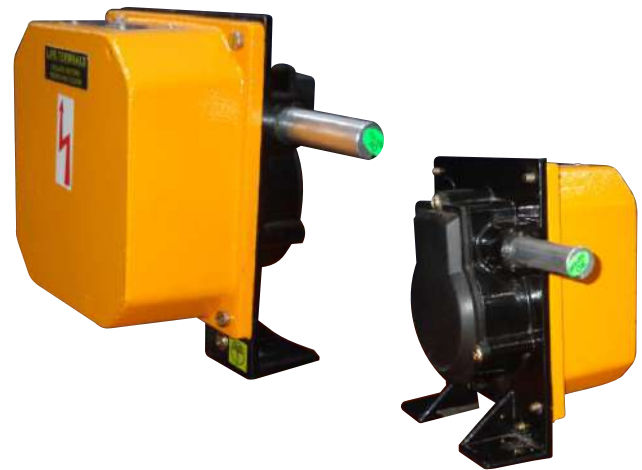
Geared Rotary Limit Switch GRLS/96/2SH

INTRODUCTION

Rotary Geared Limit Switch GRLS is used to trip Motor Supply when the moving loads reach the extreme end positions of working zone. The driving motion is transmitted by worm gear through worm shaft. The rotations & movements are transmitted to switches by adjustable cams. Complying to IEC/EN 60947-5-1, IEC/EN 60529, IES 60060-2-78 IES 60068-2-30.

Application

A Rotary Geared Limit Switch are suitable for use on reversing Odrives such as Hoists, Winches Rolling Mills & various other mechanisms used in steed plants such as Coke Oven, Feeding Oven Machin ery etc.

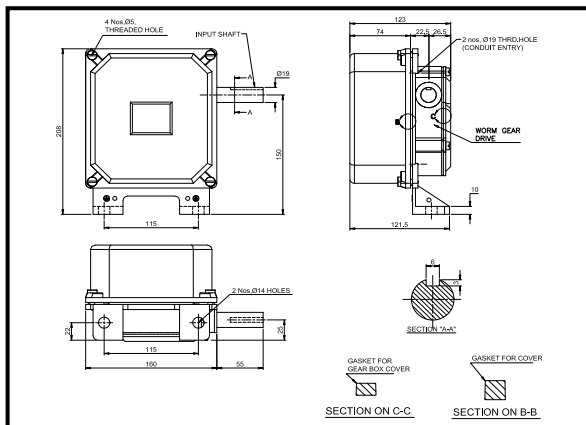


Mechanical Data

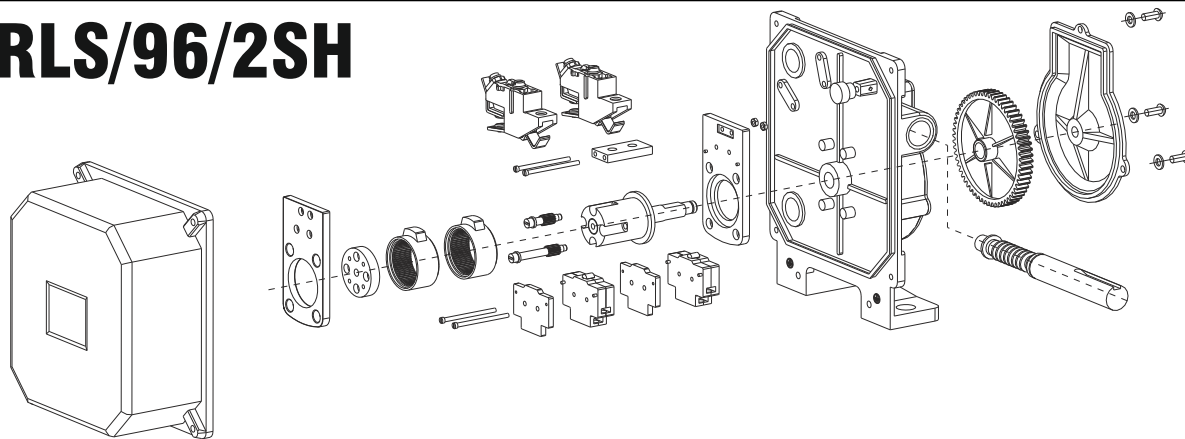
Ratio	Effective Rotations	Useful Rotations	2 Contacts Model
96:1	96	84	GRLS/96/2SH

Technical Data :

Body Material	Aluminium Die Cast
Protection Degree	IP-55 Confirmingto (IS/IEC : 60529(2001))
Gear Ratio	96:1
Drive	Worm Drive
Cable Entries	2x3/4" Conduit
Contact Material	Silver Cadmium
Rated Voltage Insulation	500 V.A.C.
Thermal Test Current	40 Amps
No. Of Contacts	2NC OR 2NO
Cam Setting	Adjustable



GRLS/96/2SH



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Master Controller(IP-41)

INTRODUCTION

Master Controller is housed in enclosure and provided with an easily removable cover with ample area for maintenance. the can shaft is mounted on bearing bushes on walls of housing. The Cam are made of thermoplast material and fixed on square spindle switch which is moved by a handle. The cams are cut to correspond to the switching program Aluminum die cast Powder Coated Suitable for Hoist-GraB, Mill duty, E. O. T. Cranes and Rolling mill drives.

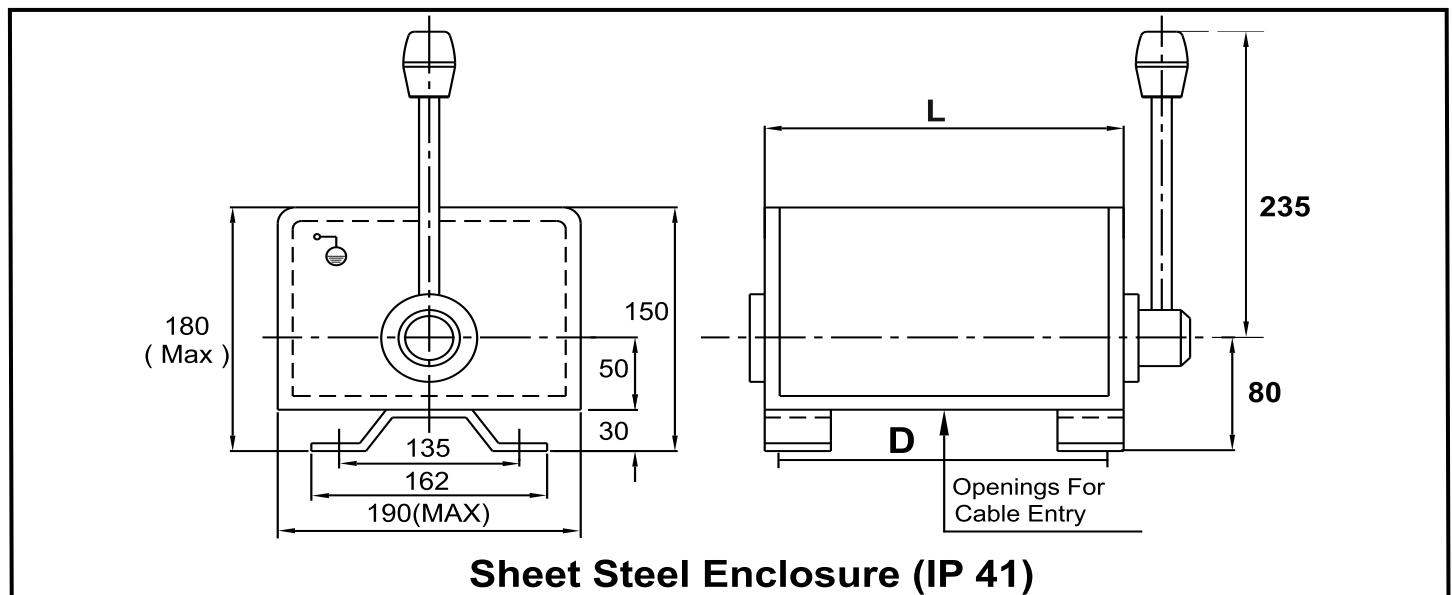
Technical Data :

Body Material	Sheet metal
Protection Degr ee	IP - 41 (IS/IEC-60529(2001))
Mountin G Posirtion	Horizontal
Contact Material	Silver Cadmium
Rated Voltage	500 V. A. C.
Thermal Test Current	10 Amps.
Cable Entries	2 X 20, 2 x 26 standarded conduit
Input Speed	1200 RPM, Maximum
Contacts	Single break
No. of Contacts	24 maximum
No. of Steps	6-0-6 maximum
Optional	spring return /deadman's handle arrangement



Sheet Steel Enclosure (IP 41)

Dimension Details					
Type	L	D	No. Of Contacts	No. Of Cable Entries	
				Dia 20	Dia 26
1	135	105	8	2	2
2	195	165	12	2	4
3	245	215	18	2	4
4	305	265	24	2	6



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Master Controller(IP-54)

INTRODUCTION

Master Controller is housed in enclosure and provided with an easily removable cover with ample area for maintenance. The cam shaft is mounted on bearing bushes on walls of housing. The Cams are made of thermoplast material and fixed on square spindle switch which is moved by a handle. The cams are cut to correspond to the switching program Aluminum die cast Powder Coated Suitable for Hoist-GraB, Mill duty, E. O. T. Cranes and Rolling mill drives.

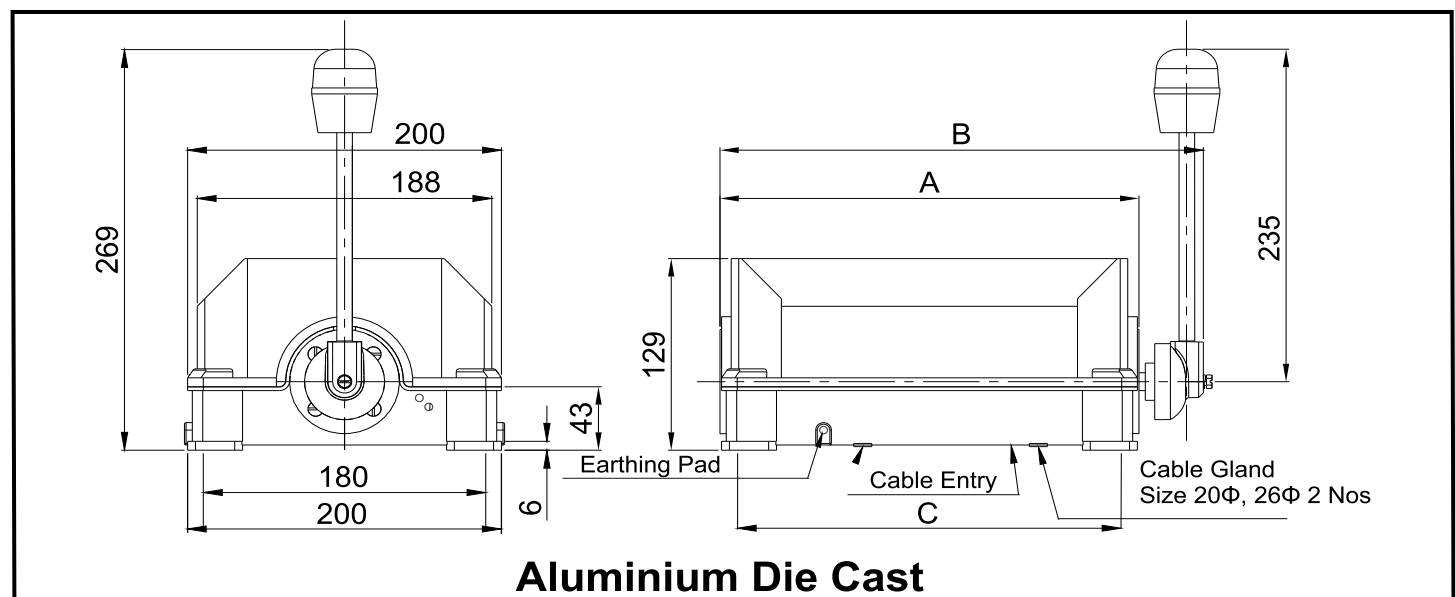
Technical Data :

Body Material	Aluminium Die Cast
Protection Degree	IP - 54 (IS/IEC-60529(2001))
Mounting Position	Horizontal
Contact Material	Silver Cadmium
Rated Voltage	500 V. A. C.
Thermal Test Current	40 Amps.
Cable Entries	2 X 20, 2 x 26 standard conduit
Input Speed	1200 RPM, Maximum
Contacts	Single break
No. of Contacts	24 maximum
No. of Steps	6-0-6 maximum
Optional	spring return /deadman's handle arrangement



Aluminum Die Cast IP 54

Dimension Details						
Type	A	B	C	No. Of Contacts	No. Of Cable Entries	
					Dia 20	Dia 25
Small	170	220	150	8	1	1
Medium	267	317	245	16	2	2
Big	370	420	140	24	2	2



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Punched Grid Resistance Box - PS

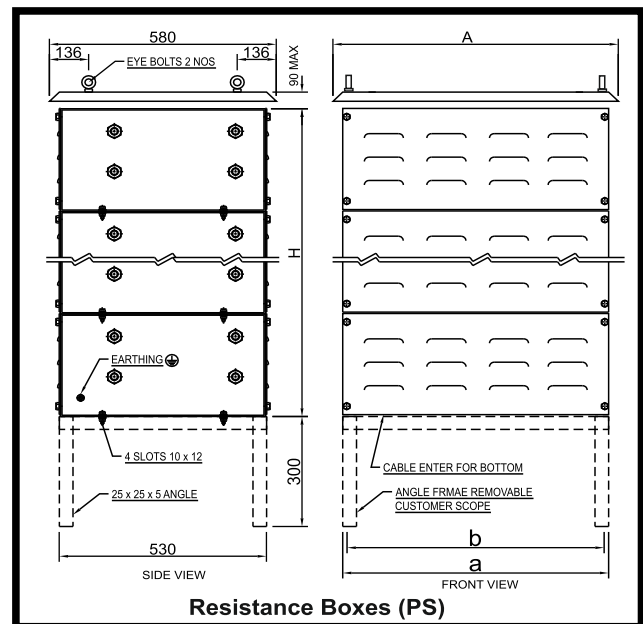
INTRODUCTION

Resistance boxes are used to add resistance into an electric motor circuit for modifying the performance characteristic of slipping induction motor of EOT cranes, rubber mills, steel rolling mills, cement mills, power plants, conveyors, coke oven, blowers etc. For speed control and developing starting torque with low starting currents. They are also used as Dynamic Braking for VVVF AC drives, electric loading of ac alternators, degenerators and dynamometers. Resistors are designed to meet requirements of both A.C & D.C. applications.



Technical Data Dynamic Breaking Resistor

Type Of Grid	Punched Grid
Cooling	Natural Air cooled
Resistors Material	Stainless Steel / Fechral
Enclosure	Sheet Steel (Galvanized)
Mounting	Floor Mounting Horizontal
Cable Entry	Bottom
Protection Degree	IP-20 / IP-21 / IP-23 / IP-33.
Over Ambient Temperature	375° C
Current Rating	8 Amps -----3000 Amps
Connections	Series / Parallel
Voltage	600 V
Terminals	3/8"
Other Voltage	1100/3300 V on request



Resistance Boxes

Current rating chart for punched grid resistors for 375°C temperature rise

Grid Type	Rated value (Ohms)	Current rating for various duty factors (Amps)			
		25% ED	40 %ED	60%ED	100%ED
PS10	0.010	390	325	280	234
PS15	0.015	318	265	228	190
PS22	0.022	265	220	190	158
PS32	0.032	220	182	153	131
PS46	0.046	185	151	130	110
PS68	0.068	152	126	110	90
PS100	0.100	125	103	88	74
PS150	0.150	101	84	72	61
PS220	0.220	83	70	59	50
PS300	0.300	82	59	50	43
PS460	0.460	58	48	40	35
PS720	0.720	47	39	33	28
PS1000	1.000	40	33	28	24
PS1500	1.500	32	27	23	19
PS2500	2.500	25	21	18	15
PS4500	4.500	15	13	11	8

Resistance Boxes (PS)

Dimension Details of Punched Stainless Steel Resistance Boxes

Unit Size	A	a	b	Unit Size	A	a	b	H
A1	430	380	360	B1	580	530	510	280
A2	430	380	360	B2	580	530	510	560
C1	730	680	650	D1	880	830	805	280
C2	730	680	650	D2	880	830	805	560
C3	730	680	650	D3	880	830	805	840
C4	730	680	650	D4	880	830	805	1120
C5	730	680	650	D5	880	830	805	1400
C6	730	680	650	D6	880	830	805	1680



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Dynamic Braking Resistor PS

INTRODUCTION

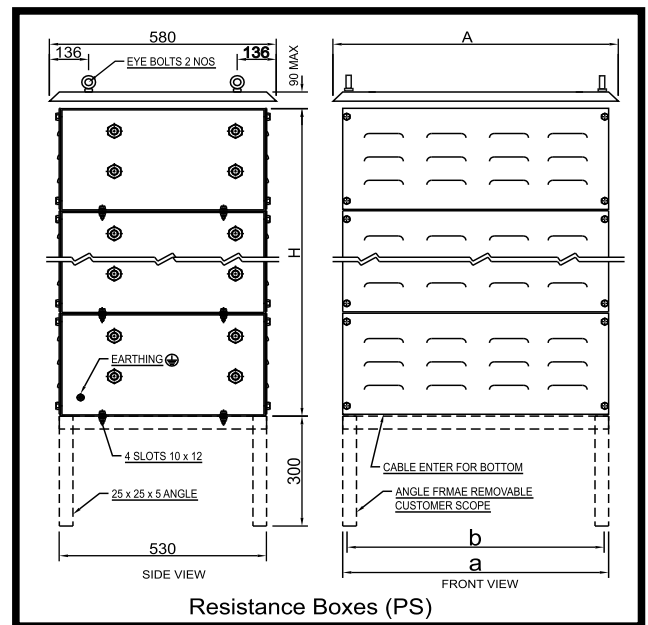
Braking Resistor are used in the d.c. Link of the frequency converter. A braking chopper activates the resistor. If the output frequency converter drops-be it by a control process, a drop in speed or a braking operation-below the current operating frequency of the motor, the motor takes on the function of a generator. The consequence is arise in the link voltage. If this voltage exceeds the specific value of the unit in question, chopper the specific value of the unit in resistor. If the voltage drops to a value just above the grid voltage of the link, the chopper will interrupt the circuit. This process will be repeated until the motor speed once again matches the applied operating frequency. The braking resistor takes on the energy and converts it into heat.

Braking Resistor Operating modes

Braking Resistor are usually only activated for a short time, save the braking energy and give off the short time, save the braking energy and give off the stored heat to the environment during the breaks when they are inactive. This intermittent operation with a cyclic duration factor (c.d.f) indicated in % of the duty cycle time. The duty cycle time t_{sp} is calculated from the total of the braking time to plus resting time t_r . The overload capacity of the resistor is dependent on the thermal time constant and thus on the design, among others.

The Resistance Value Of The Braking Resistors

In general, the resistance value of a braking resistor is not critical, If may range between the lowest value of the admissible value for the braking chopper and a maximum value where the required braking performance is still achieved. Assuming a standard reserved of 25% which takes into account the manufacturing tolerance and the resistance change de to heating up as well as the lower mean value of the link voltage as compared with the chopper activating voltage, the maximum value for the braking resistor is calculated as:



Dynamic Braking Resistor PS

Dimension Details of Punched Stainless Steel Resistance Boxes

Unit Size	A	a	b	Unit Size	A	a	b	H
A1	430	380	360	B1	580	530	510	280
A2	430	380	360	B2	580	530	510	560
C1	730	680	650	D1	880	830	805	280
C2	730	680	650	D2	880	830	805	560
C3	730	680	650	D3	880	830	805	840
C4	730	680	650	D4	880	830	805	1120
C5	730	680	650	D5	880	830	805	1400
C6	730	680	650	D6	880	830	805	1680



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Anti-Collision Limit Switch

INTRODUCTION

The anti-collision system is a safety device to avoid collision of two electric overhead travelling cranes on the same bay. The system works on the principle of retro-reflective infrared waves.

The system comprises of an emitter cum receiver module and a reflector. The emitter continuously emits infrared waves in to the direction of the reflector. The waves are reflected back to the receiver end of the system which activates an alarm signal an stops/reduce the speed of the crane. If two cranes are away from each other the reflected waves will not reach the sensor and the cranes operate normally.

The advanced digital anti-collision system incorporates a Micro-Controller Based Circuit for taking digital inputs for easy range setting and gives an accurate cut-off range to the device. Two sets of anti-collision systems are required for collision avoidance between the two cranes.

Technical Specifications:

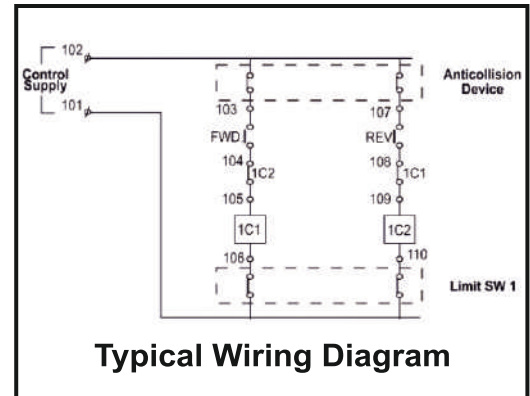
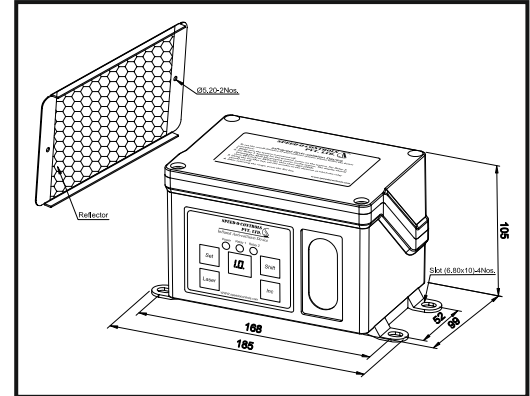
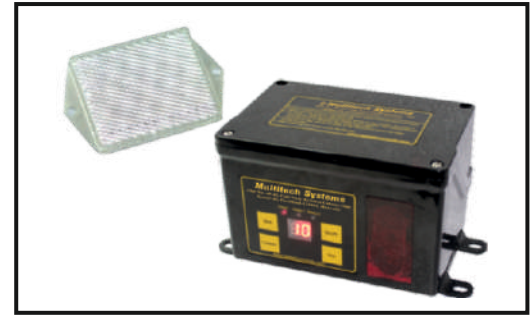
Micro Controller Based System	(MTSACD 0-10)
Supply Voltage	110VAC - 220VAC
Operating Temperature	Upto 70C
Output	Upto 2 Potential free relays
Sensing Distance (adjustable)	1 - 3 / 3 - 10 meters

Installation Procedure:

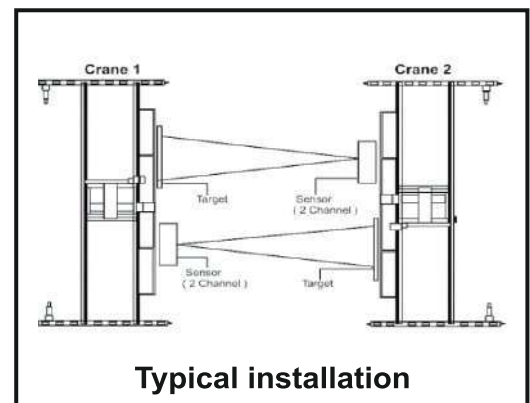
1. Mount the Transmitter/Emitter(Control Unit) on one crane as shown in installation scheme.
2. Connect the power supply as per the connection diagram.
3. Press the laser switch and mark the point for refelctor mounting. Mount the reflector on the second crane.
4. Smilarly follow the procedure to mount the control unit and reflector for the other crane.
5. Connect the relay output as shown in the figure. The Anti-collision device works licks an LT limit switch.

Range Adjustment Setting:

1. Make sure the system is powered off.
2. For Relay 1, keeping Inc key pressed, power on the system For Relay 2, keeping the Shift key pressed, power on the system. The display should show SET/(r11) or SET/(r12), then show digit (d00).
3. Using the Inc. key, set the number to the distance at which the relay should cut-off.
4. After selecting the range, press the Set key.
5. Restart the system.



Typical Wiring Diagram



Typical installation



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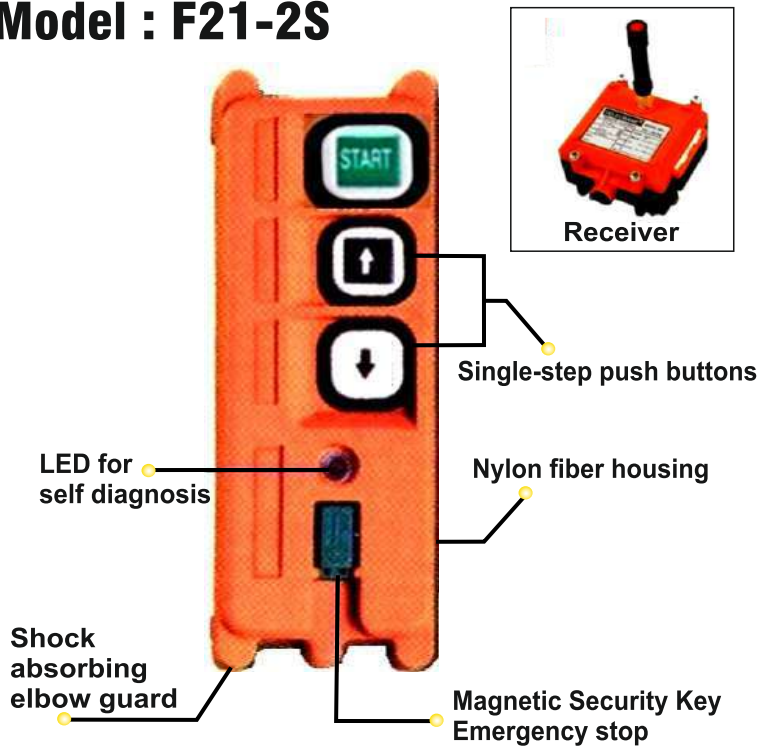
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TELECRANE® RADIO REMOTE CONTROL

Model : F21-2S



GENERAL

- Encoding : Microprocessor based
- Decoding : Microprocessor based
- Range : 100M Approx.
- Temperature : -35°C - +80°C

TRANSMITTER

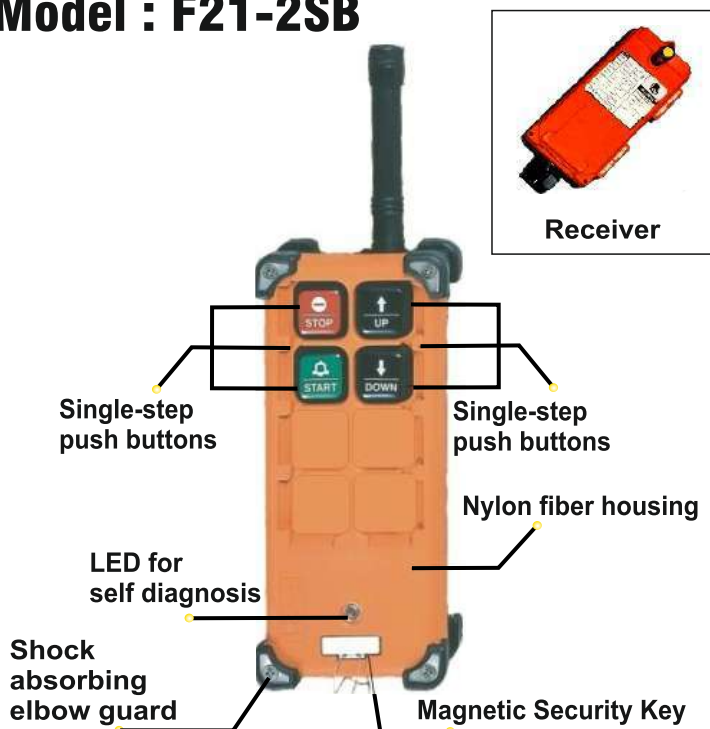
- 2 single-step buttons, 1 start button
- Powered by size AA x 2 Alkaline or rechargeable battery.
- Size : 130 x 45 x 22 mm
- Power Supply : 3V
- Weight : About 120 g
- Housing : Nylon Fiber

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

TELECRANE® RADIO REMOTE CONTROL

Model : F21-2SB



GENERAL

- Encoding : Microprocessor based
- Decoding : Microprocessor based
- Range : 100M Approx.
- 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.
- Providing 9 control contacts.
- Size : 164 x 75 x 46 mm (excluding protrusion)
- Power Supply : 3V
- Weight : About 350 gms
- Housing : Nylon Fiber

RECEIVER

- Power Supply : 110/220VAC 50 Hz
- Size : 185 x 85 x 85 mm
- Housing : Nylon fiber
- Relay output : 10A/250V
- Antenna : External
- Weight : About 550 g



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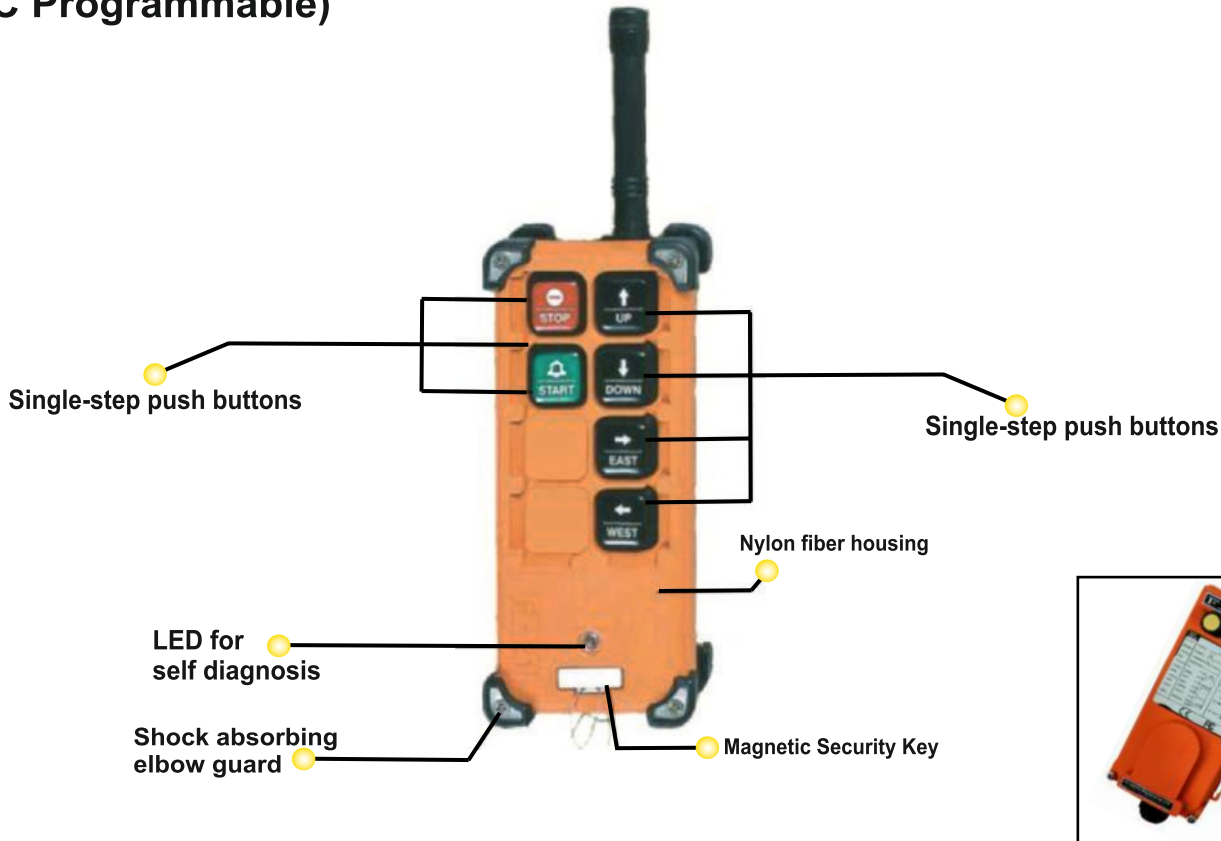
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TELECRANE® RADIO REMOTE CONTROL

Model : F21-4SB

(PC Programmable)



GENERAL

- Encoding : Microprocessor based
- Decoding : Microprocessor based
- Range : 100M Approx.
- Temperature : -30°C - +80°C-

TRANSMITTER

- 4 single-step buttons, 1 Emergency stop, 1 button
- Powered by size AA x 2 Alkaline or rechargeable battery.
- Proving 9 control contacts.
- Size : 164 x 75 x 46 mm (excluding protrusion)
- Power Supply : 3V
- Weight : About 350 gms
- Housing : Nylon Fiber

RECEIVER

- Power Supply : 110/220VAC 50Hz
- Size : 185 x 85 x 85 mm
- Housing : Nylon fiber
- Relay output : 10A/250V
- Antenna : External
- Weight : About 550 g



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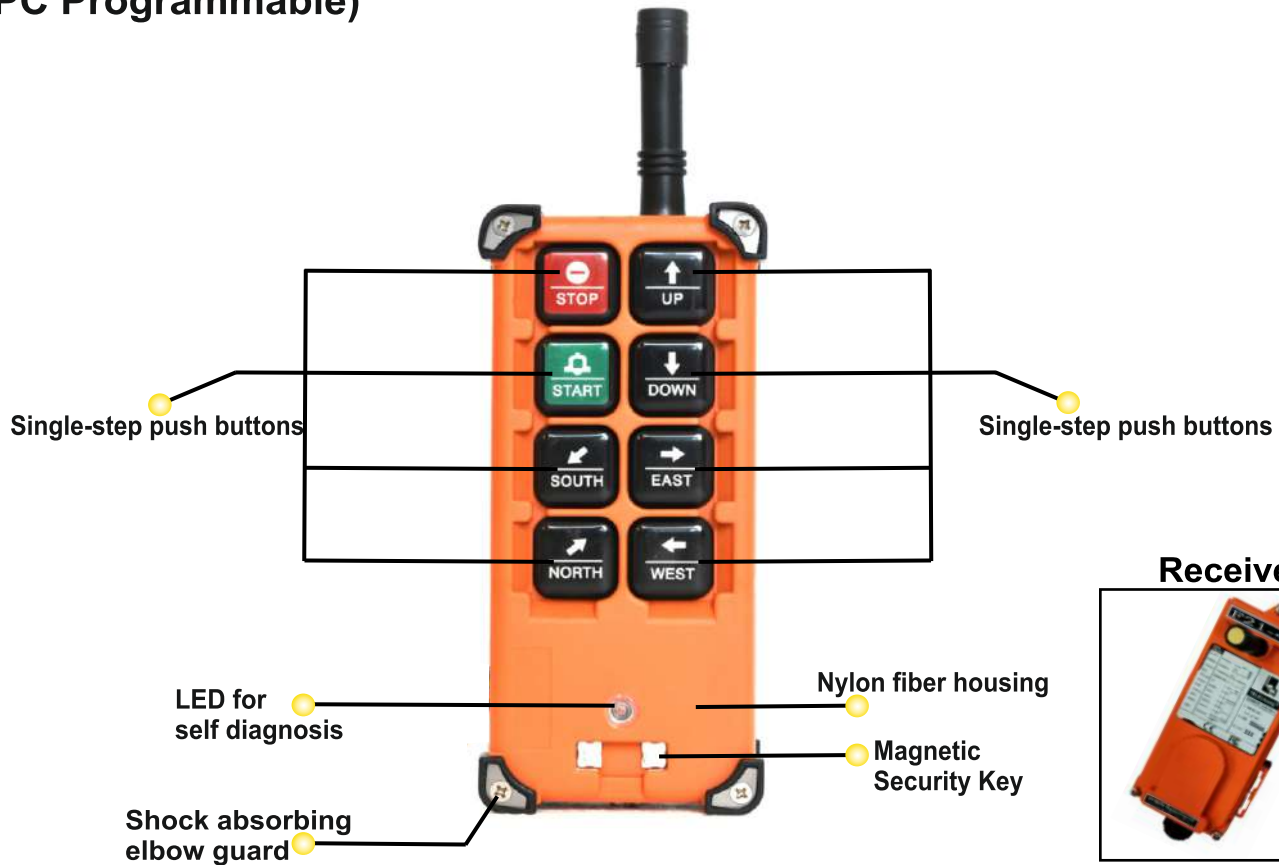
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TELECRANE® RADIO REMOTE CONTROL

Model : F21-E1B

(PC Programmable)



GENERAL

- Encoding : Microprocessor based
- Decoding : Microprocessor based
- Range : 100M Approx.
- Temperature : -30°C - +80°C-

TRANSMITTER

- 6 single-step buttons, 1 Emergency stop, 1 button
- Powered by size AA x 2 Alkaline or rechargeable battery.
- Proving 9 control contacts.
- Size : 164 x 75 x 46 mm (excluding protrusion)
- Power Supply : 3V
- Weight : About 350gms
- Housing : Nylon Fiber

RECEIVER

- Power Supply : 110/220VAC 50Hz
- Size : 185 x 85 x 85 mm
- Housing : Nylon fiber
- Relay output : 10A/250V
- Antenna : External
- Weight : About 550 g



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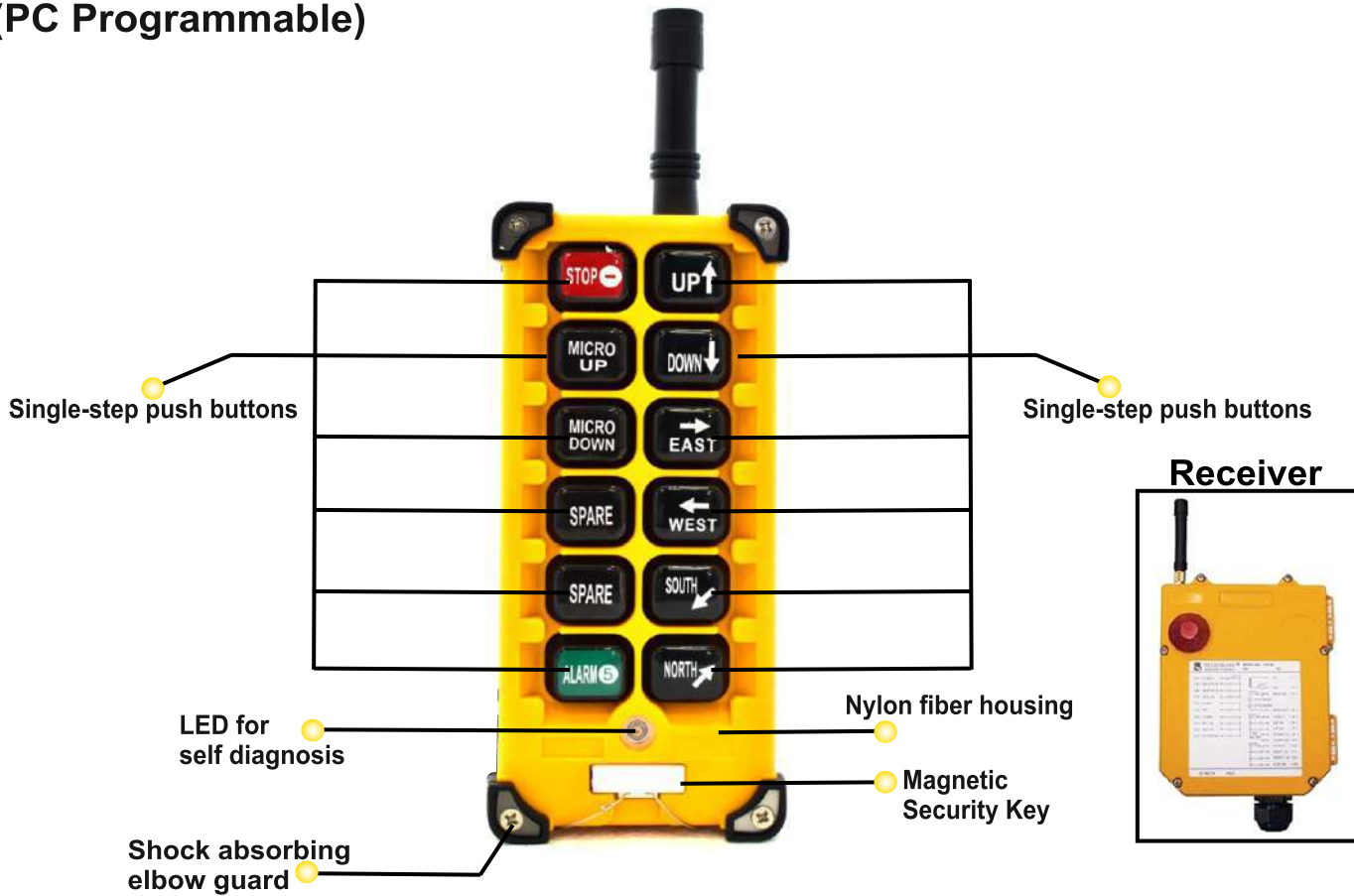
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TELECRANE® RADIO REMOTE CONTROL

Model : F24-BB

(PC Programmable)



GENERAL

- Encoding : Microprocessor based
- Decoding : Microprocessor based
- Range : 100M Approx.
- Temperature : -30°C - +80°C

TRANSMITTER

- 10 single-step buttons, 1 Emergency stop, 1 Start button
- Powered by size AA x 2 Alkaline battery.
- Size : 186 x 61 x 51 mm (excluding protrusion)
- Power Supply : 3V
- Weight : about 260gms
- Housing : Nylon Fiber

RECEIVER

- Power Supply : 110/220VAC 50Hz
- Size : 200 x 162 x 51 mm
- Housing : Nylon Fiber
- Weight : about 1225 gms



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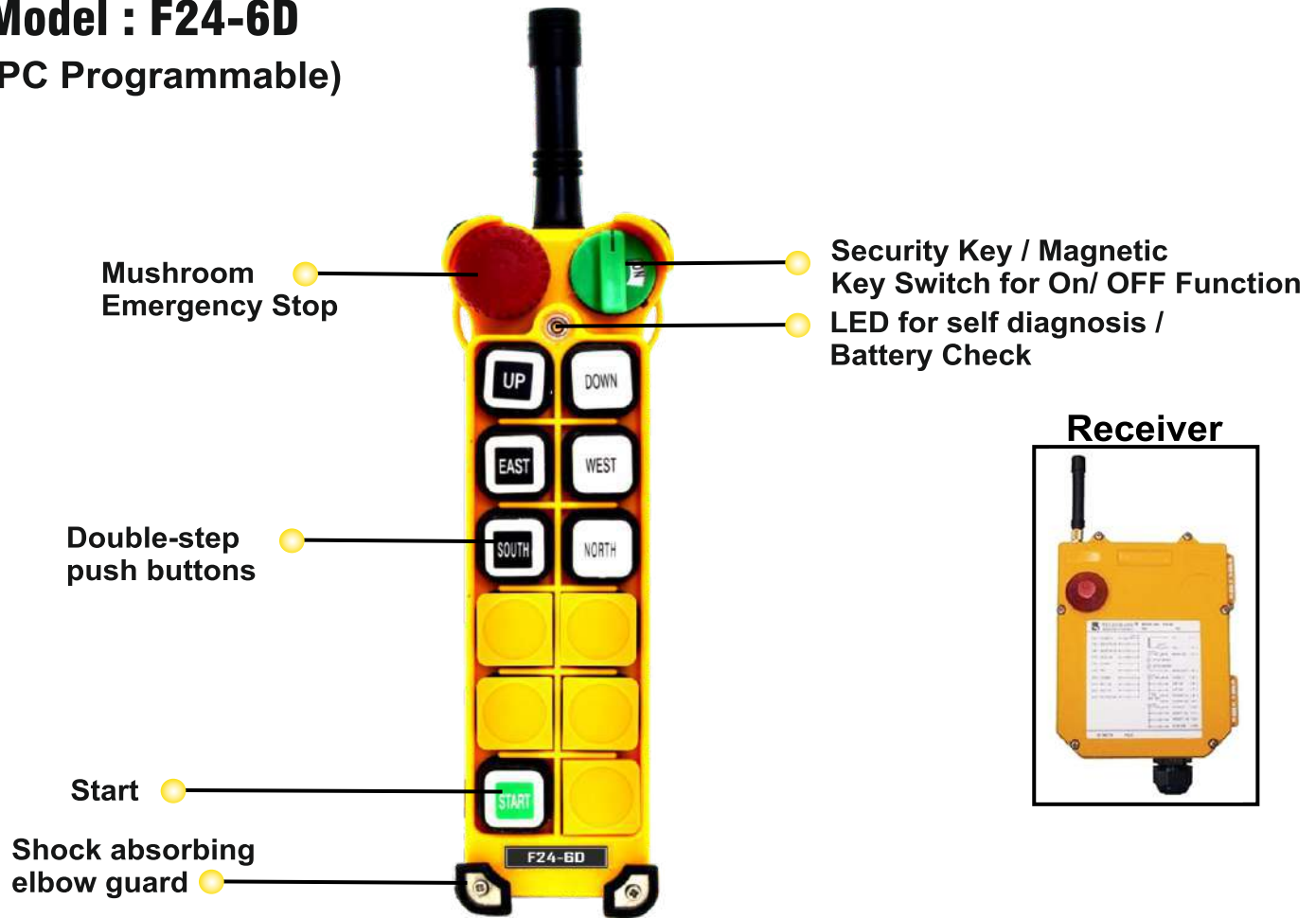


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TELECRANE® RADIO REMOTE CONTROL

Model : F24-6D

(PC Programmable)



GENERAL

- Encoding : Microprocessor based
- Decoding : Microprocessor based
- Range : 100M Approx.
- Temperature : -30°C - +75°C-

TRANSMITTER

- 6 Double-step buttons, 1 Emergency stop, 1 Rotary key switch, 1 Start button
- Powered by size AA x 2 Alkaline battery.
- Size : 186 x61 x 51 mm (excluding protrusion)
- Power Supply : 3VDC
- Weight : About 260gms
- Housing : Nylon Fiber

RECEIVER

- Power Supply : 110/220VAC 50Hz
- Size : 200 x 162x 51 mm
- Housing : Nylon Fiber
- Weight : About 1225 gms



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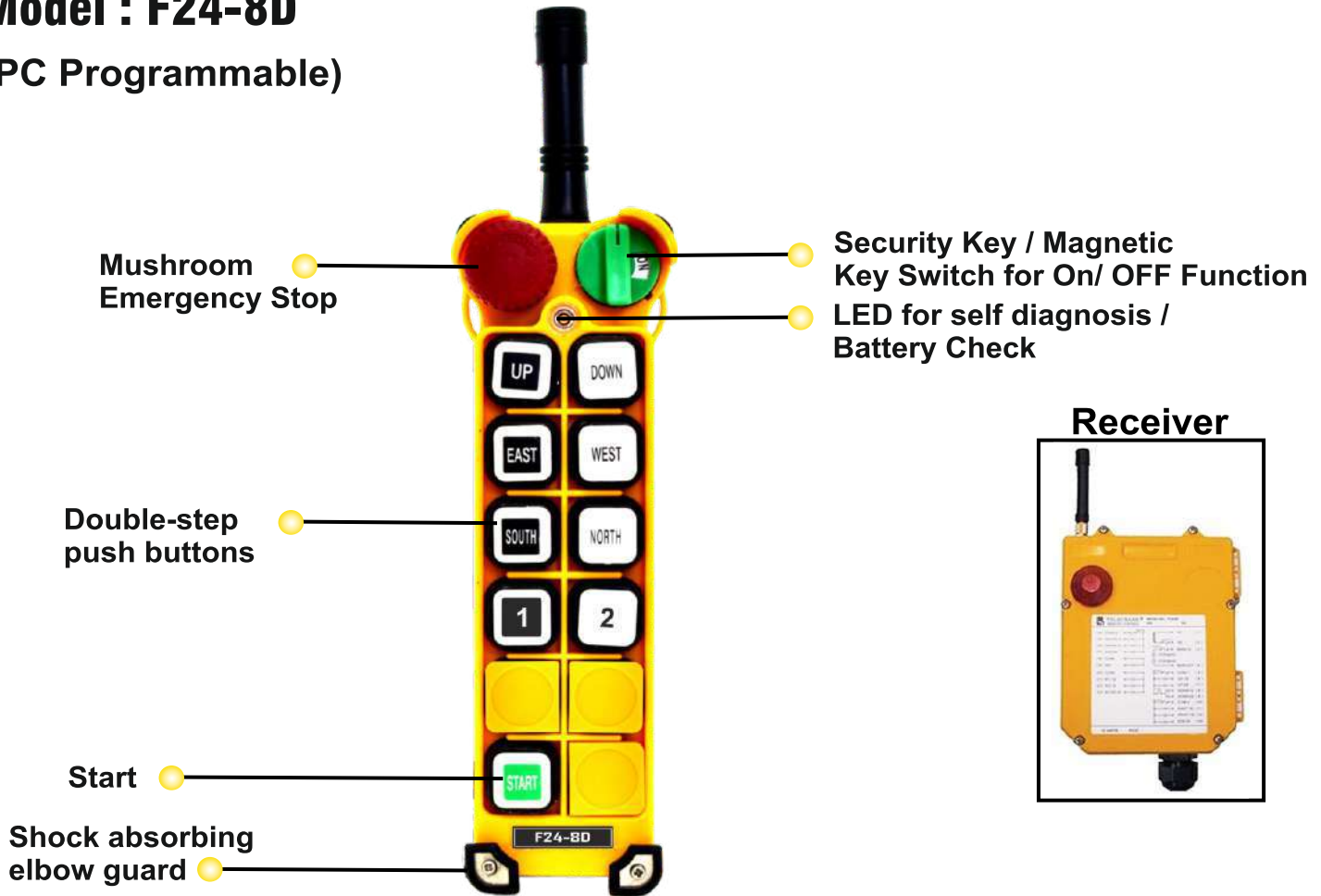
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TELECRANE® RADIO REMOTE CONTROL

Model : F24-8D

(PC Programmable)



GENERAL

- Encoding : Microprocessor based
- Decoding : Microprocessor based
- Range : 100M Approx.
- Temperature : -35°C - +75°C

TRANSMITTER

- 8 /double-step buttons, 1 Emergency stop, 1 Rotary key switch, 1 Start button
- Powered by size AA x 2 Alkaline battery.
- Size: 186 x 61 x 51 mm (excluding protrusion)
- Power Supply : 3VDC
- Weight : About 260gms
- Housing : Nylon Fiber

RECEIVER

- Power Supply : 110/220VAC 50Hz
- Size : 185 x 85 x 85 mm
- Housing : Nylon Fiber
- Weight : About 1225gms



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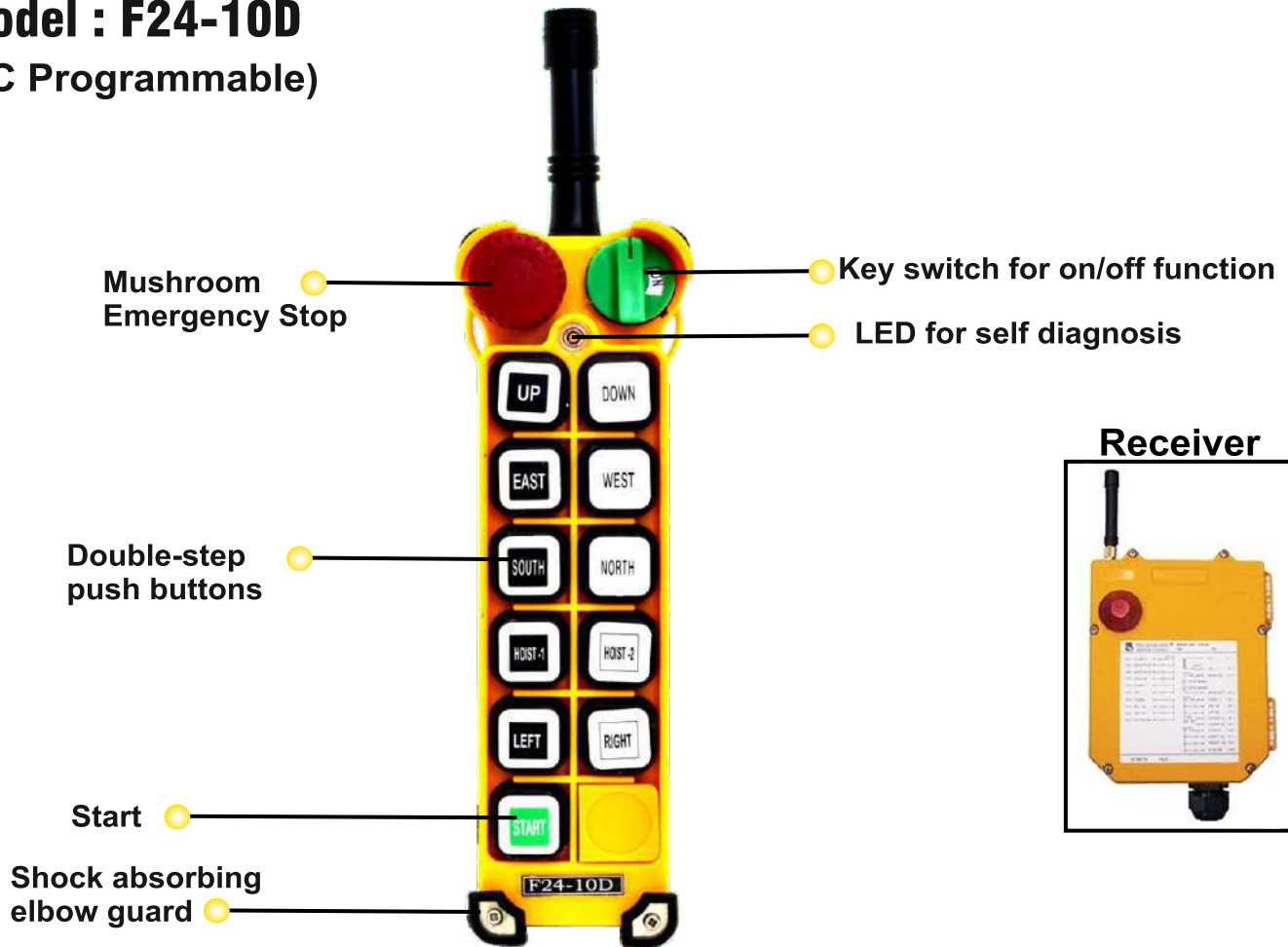
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TELECRANE® RADIO REMOTE CONTROL

Model : F24-10D

(PC Programmable)



GENERAL

- Encoding : Microprocessor based
- Decoding : Microprocessor based
- Range : 100M Approx.
- Temperature : -30°C - +75°C-

TRANSMITTER

- 10 single-step buttons, 1 Emergency stop, 1 Rotary key switch, 1 Start button
- Powered by size AA x 2 Alkaline battery.
- Size : 186 x 61 x 51 mm (excluding protrusion)
- Power Supply : 3VDC
- Weight : About 260gms
- Housing : Nylon Fiber

RECEIVER

- Power Supply : 110/220VAC 50Hz
- Size : 200 x 162 x 51 mm
- Housing : Nylon Fiber
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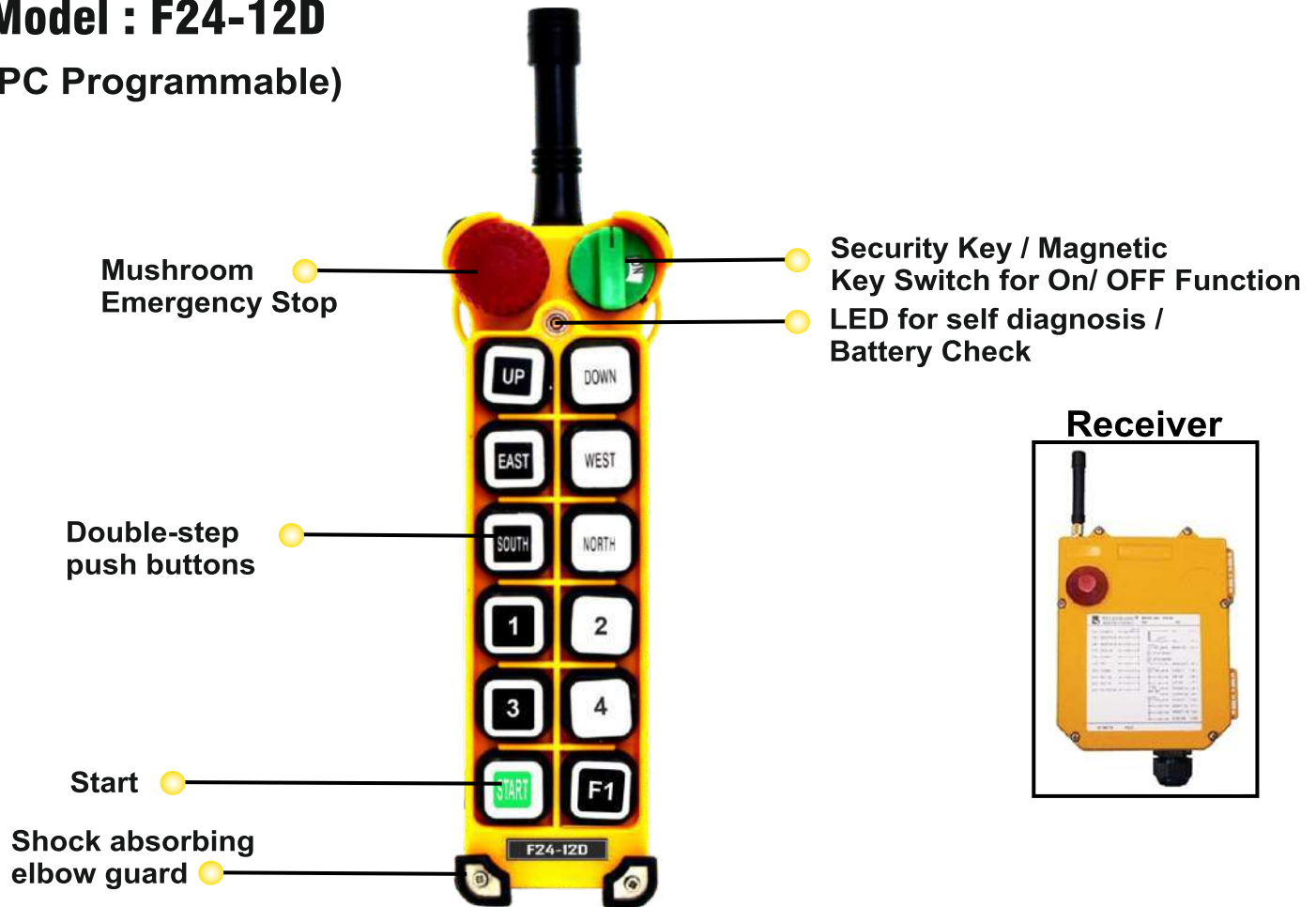
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TELECRANE® RADIO REMOTE CONTROL

Model : F24-12D

(PC Programmable)



GENERAL

- Encoding : Microprocessor based
- Decoding : Microprocessor based
- Range : 100M Approx
- Temperature : -30°C - +75°C -

TRANSMITTER

- 11 double-step buttons, 1 Emergency stop, 1 Rotary key switch, 1 Start button
- Powered by size AA x2 Alkaline battery,
- Size : 186 x 61 x 51 mm (excluding protrusion)
- Power Supply : 3VDC
- Weight : About 260gms
- Housing : Nylon Fiber

RECEIVER

- Power Supply : 110/220 Vac 50Hz
- Size : 200 x 162 x 51 mm
- Housing : Nylon Fiber
- Weight : About 1225 gms



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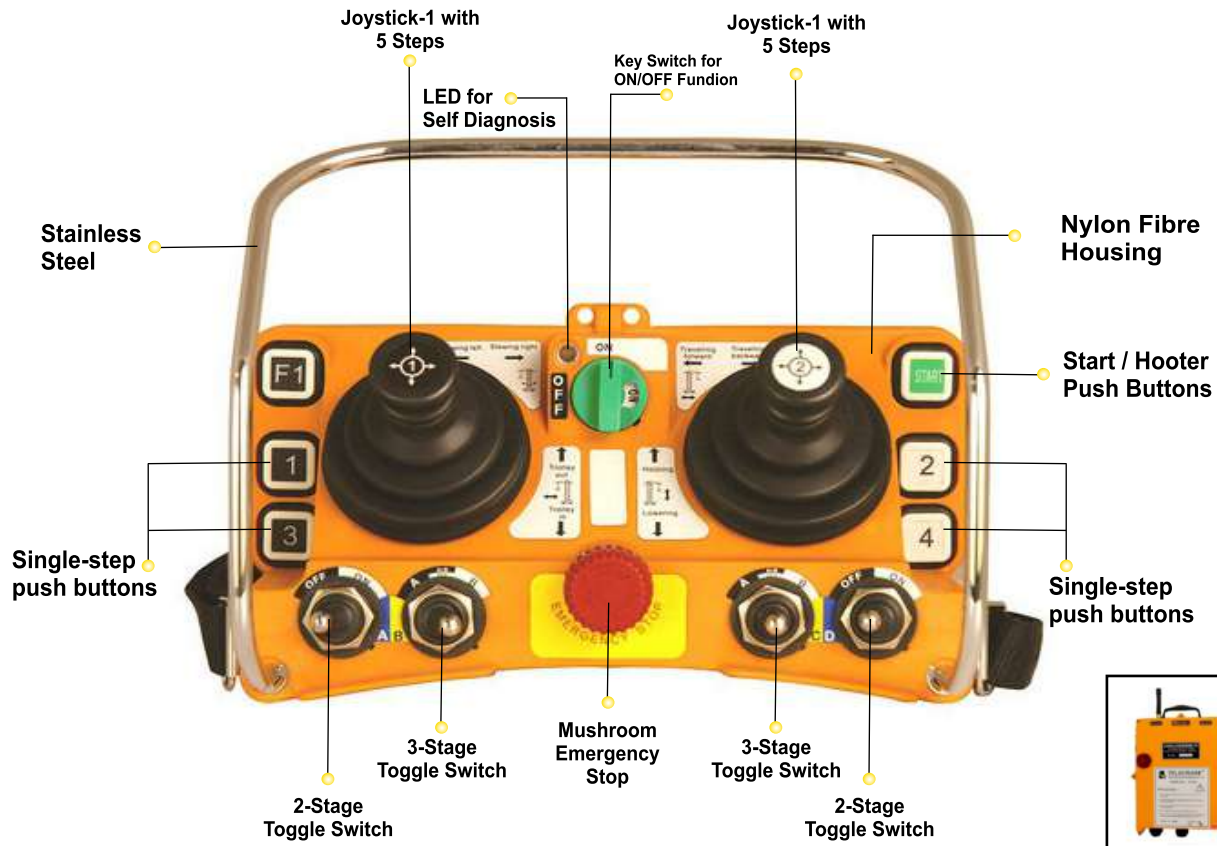
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TELECRANE® RADIO REMOTE CONTROL

Model : F24-60

(PC Programmable)



GENERAL

- Encoding : Microprocessor based
- Decoding : Microprocessor based
- Range : 100M Approx.
- Temperature : -30°C - +80°C

TRANSMITTER

- 10 single-step buttons, 1 Emergency stop, 1 Start button
- Powered by size AA x 2 Alkaline battery.
- Size : 186 x 61 x 51 mm (excluding protrusion)
- Power Supply : 3V
- Weight : about 260gms
- Housing : Nylon Fiber

RECEIVER

- Power Supply : 110/220VAC 50Hz
- Size : 290 x 230 x 70 mm
- Housing : Nylon Fiber
- Weight : about 1225 gms



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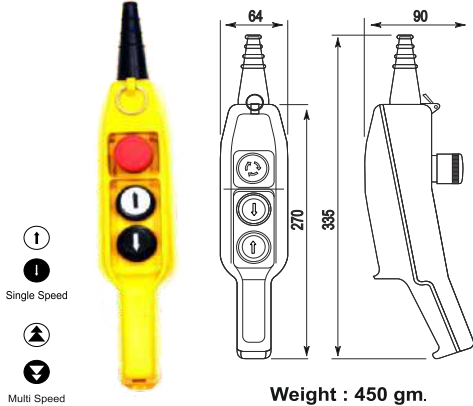
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SV-3S / 3D Push Buttons Pendant

2 + 1 - Single Speed / Two Speed
 Description : 2 Push Button with 1 NO / (1 NO + 1 NO)
 Progressives Contacts
 + 1 Emergency Stop with 1 NC Contact



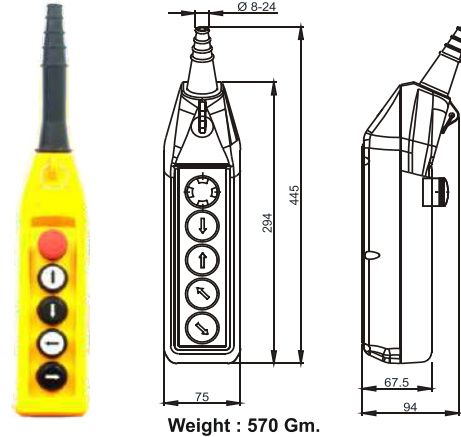
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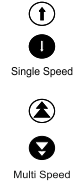
Weight : 450 gm.

SV-5S Push Buttons Pendant

4 + 1 - Single Speed
 Description : 4 Push Button with 1 NO Contact
 + 1 Emergency Stop with 1 NC Contact



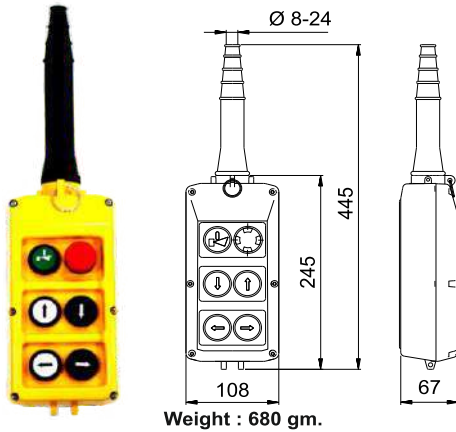
SV / 5 S



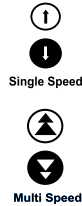
Weight : 570 Gm.

SH-6S / 6D Push Buttons Pendant

2 + 2 - Single Speed
 Description : 4 Push Button with 1 NO Contacts
 + 1 Emergency Stop with 1 NC Contact
 + Start / Alarm with 2 No Contacts



SH / 6S



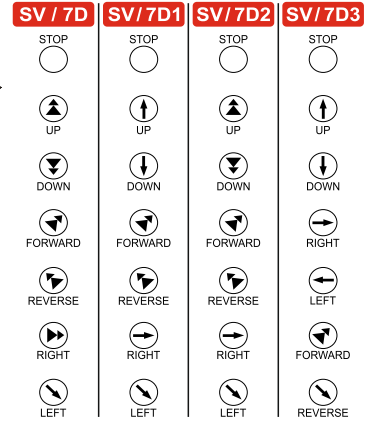
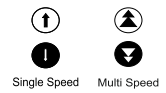
Weight : 680 gm.

SV-7S / 7D Push Buttons Pendant

Description : 6 Push Button with 1 NO / 2 NO Contacts
 + 1 Emergency Stop with 1 NC Contact



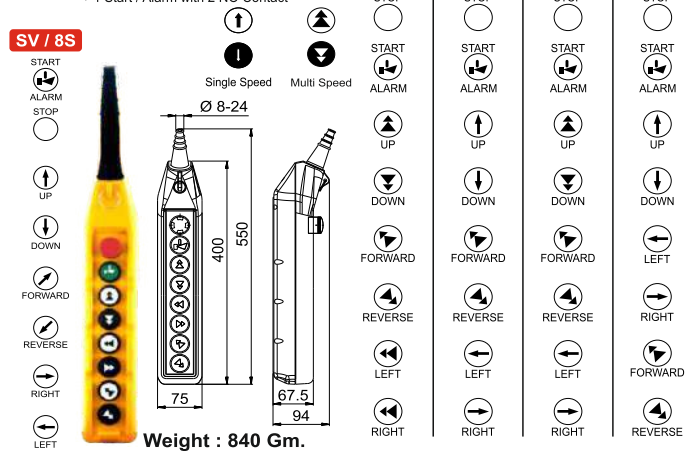
SV / 7S



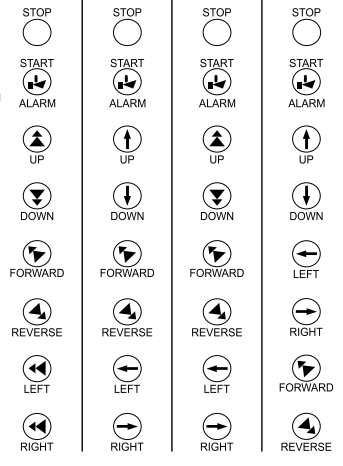
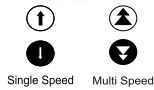
Weight : 830 Gm.

SV-8S & 8D Push Buttons Pendant

6 + 2 - Single / Double Speed
 Description : 6 Push Button with 1 NO / 2 NO Contacts
 + 1 Emergency Stop with 1 NC Contact
 + 1 Start / Alarm with 2 NO Contact



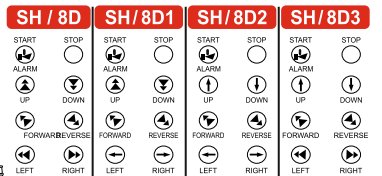
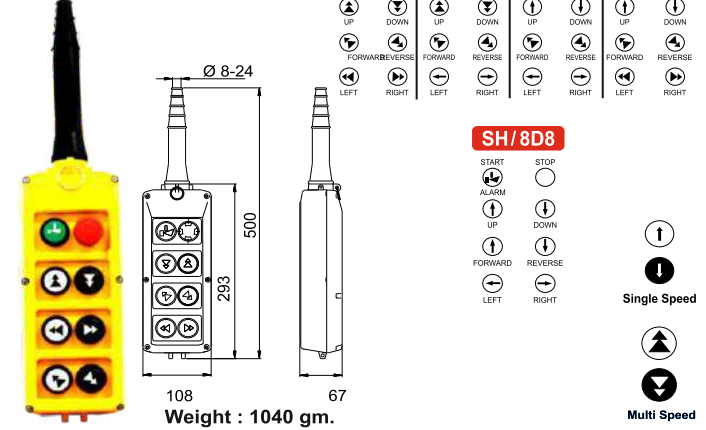
SV / 8S



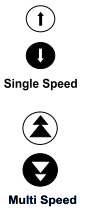
Weight : 840 Gm.

SH-8S / 8D Push Buttons Pendant

6 + 2 - Two Speed
 Description : 6 Push Button with (1NO) / (1NO+1NO)
 Progressive Contacts
 + 1 Emergency Stop with 1 NC Contact
 + Start / Alarm with 2 No Contacts



SH / 8D8



Weight : 1040 gm.



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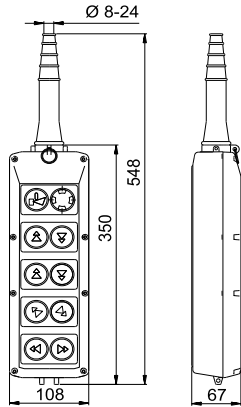
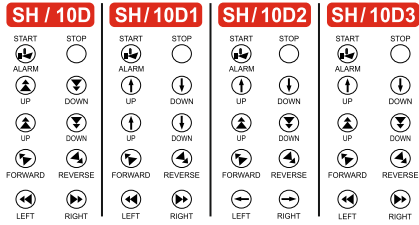


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SH-10S / 10D Push Button Pendant

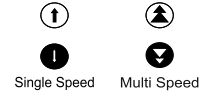
10 + 2 - Two Speed
 Description : 8 Push Button with (1NO+1NO)
 Progressive Contacts
 + 1 Emergency Stop with 1 NC Contact
 + Start / Alarm with 2 NO Contact



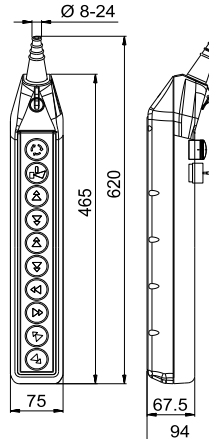
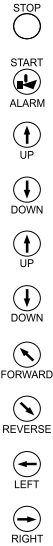
Weight : 1090 gm.

SV-10S / 10D Push Button Pendant

8 + 2 - Two Speed
 Description : 8 Push Button with (1NO+1NO)
 Progressive Contacts
 + 1 Emergency Stop with 1 NC Contact
 + Start / Alarm with 2 NO Contact

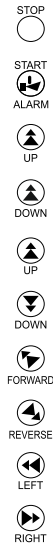


SV / 10S

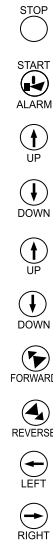


Weight : 1040 gm.

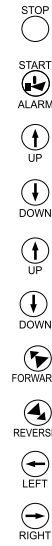
SV / 10S



SV / 10D1



SV / 10D2

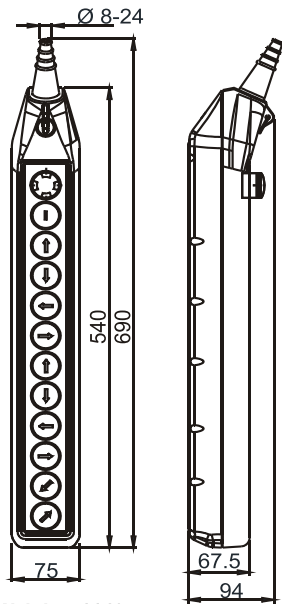


SV-12S Push Button Pendant

10 + 2 - Single Speed
 Description : 10 Push Button with 1 NO Contact
 + 1 Emergency Stop with 1 NC Contact
 + 1 Start / Alarm with 2 NO Contact



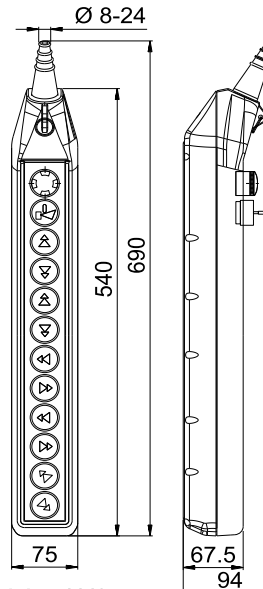
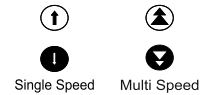
SV / 12D2



Weight : 1140 gm.

SV-12D Push Button Pendant

SV / 12D Push Buttons : 10 + 2 - Single/ Double Speed
 Description : 10 Push Button with (1NO) / (1NO+1NO) Contact
 + 1 Emergency Stop with 1 NC Contact
 + 1 Start / Alarm with 2 NO Contact



Weight : 1140 gm.

SV / 12D



SV / 12D1



SV / 12D2



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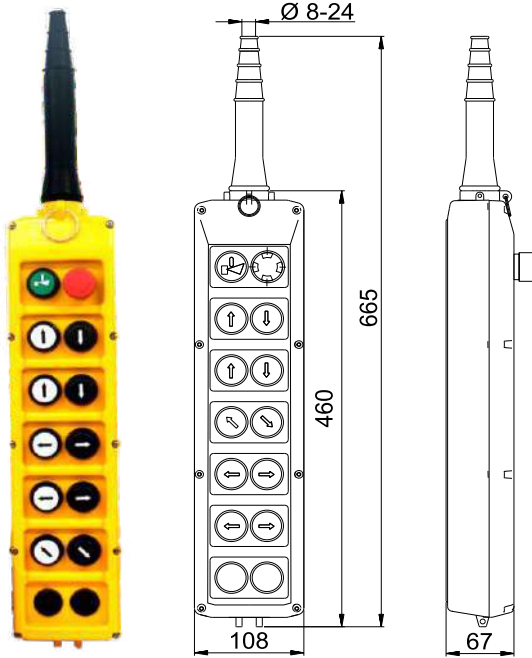


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SH-12S Push Button Pendant

10 + 2 - Single Speed
 Description : 10 Push Button with 1 NO Contact
 + 1 Emergency Stop with 1 NC Contact
 + 1 Start / Alarm with 2 NO Contact

SH/12S



Weight : 1280 gm.



SH-12D Push Button Pendant

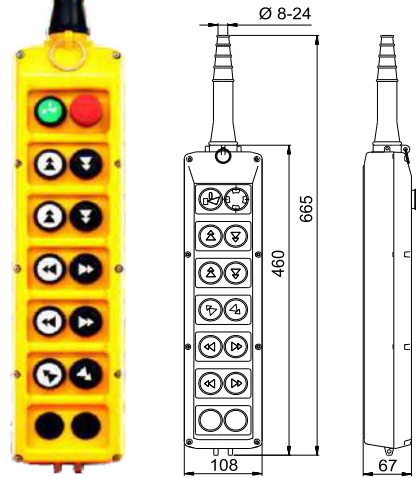
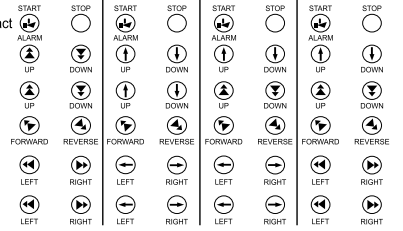
10 + 2 - Two Speed
 Description : 10 Push Button with (1 NO + 1 NO)
 Progressive Contacts
 + 1 Emergency Stop with 1 NC Contact
 + 1 Start / Alarm with 2 NO Contact

SH/12D

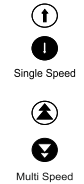
SH/12D1

SH/12D2

SH/12D3



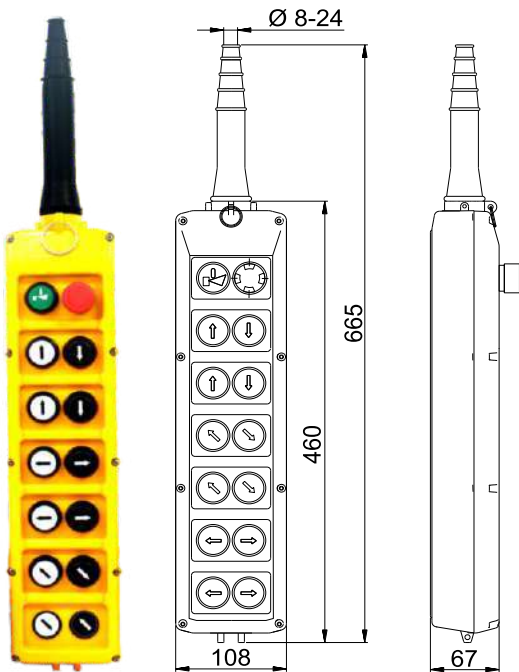
Weight : 1390 gm.



SH-14S Push Button Pendant

12 + 2 - Single Speed
 Description : 1 Push Button with 1 NO Contact
 + 1 Emergency Stop with 1 NC Contact
 + 1 Start / Alarm with 2 NO Contact

SH/14S



Weight : 1280 gm.



SH-14D Push Button Pendant

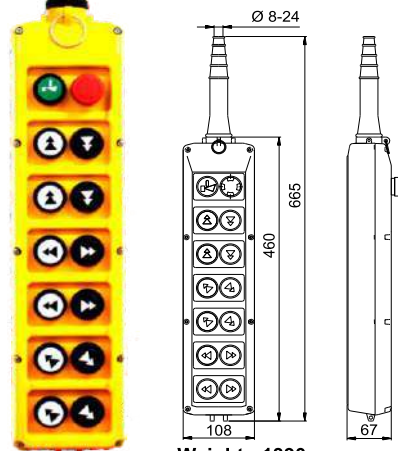
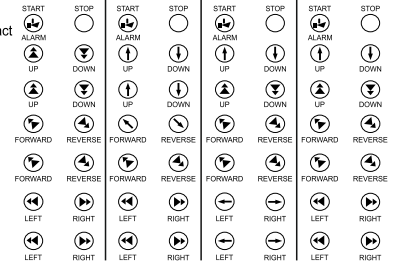
12 + 2 - Two Speed
 Description : 12 Push Button with (1 NO + 1 NO)
 Progressive Contacts
 + 1 Emergency Stop with 1 NC Contact
 + 1 Start / Alarm with 2 NO Contact

SH/14D

SH/14D1

SH/14D2

SH/14D3



Weight : 1390 gm.



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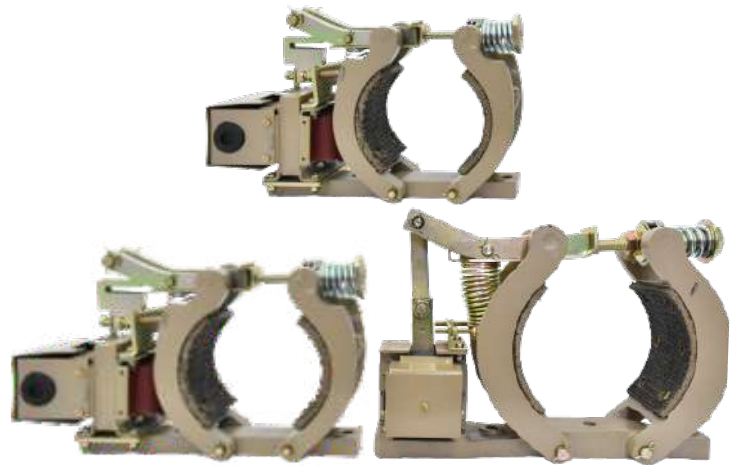


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AC SOLENOIDS BRAKES

Technical Specification

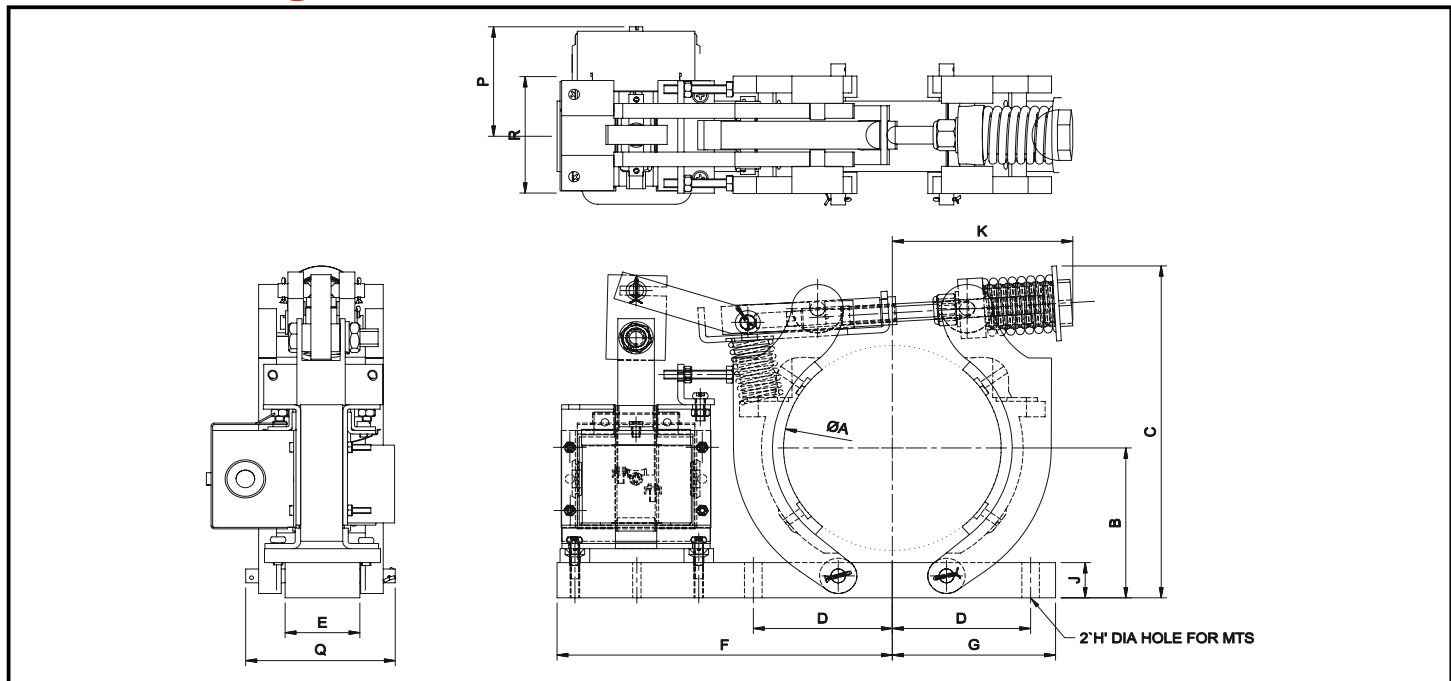
Model	EMD - 4	EMD - 5.5	EMD - 7
Item Code			
Drum Dia (mm)	4" (101.6mm)	5.5" (139.7mm)	7" (177.8mm)
Breaking Torque (Kgm)	1.36	4.8	10.2
Stroke (mm)	25	31.4	31.4
Voltage Input	415	415	415
Holding Voltage	415	415	415
Operating Temperature	Ambient Temp.	Ambient Temp.	Ambient Temp.
Coil	CLASS F Insulation	CLASS F Insulation	CLASS F Insulation
Rating	Intermittent	Intermittent	Intermittent
No of Operations	720 Operations/Hr	720 Operations/Hr	720 Operations/Hr
Total Weight (kg)	5.5 Kg	11.5 Kg	15.5 Kg



Dimensions (mm)

BRAKE SIZE	TORQUE RATING NM	TORQUE RATING Kg-m	A	B	C	D	E	F	G	H	J	K	P	Q	R
4.0"	13.6	1.3	102	73	178	67	32	140	78	10	16	73	79	76	79
5.5"	48	4.8	140	102	240	89	32	213	105	11	25	124	79	95	79
7.0"	102	10.2	178	127	291	111	64	241	127	14	25	124	79	121	79

G A Drawing



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DC ELECTROMAGNETIC BRAKE



FAIL SAFE BRAKE
(WITH MANUAL RELEASE)

FAIL SAFE BRAKE
(WITHOUT MANUAL RELEASE)

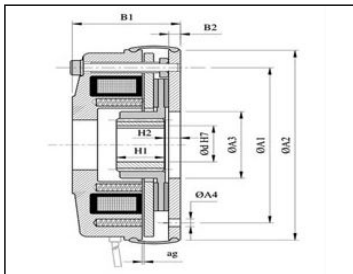
Typical Application:

Brake motors
Tyre Machinery
Industrial Robotics
IR Telescope for Satellite Tracking

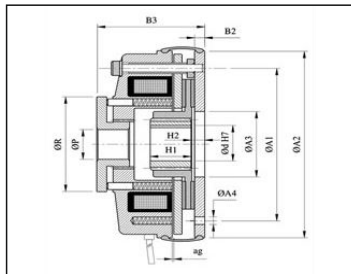
Hoist & Cranes
Printing Machinery
Marble / Granite Machinery
Wood working Machinery etc.

Textile Machinery
Steel Plant Machinery
Lifts

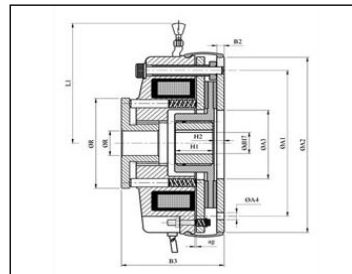
BRAKE TYPE USB
Design : 501



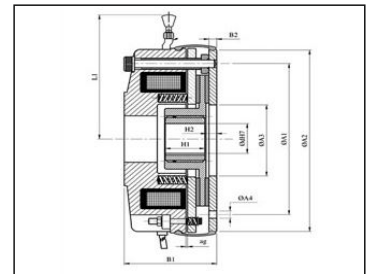
BRAKE TYPE USB
Design :502



BRAKE TYPE UMB
Design 503



BRAKE TYPE UMB
Design 504

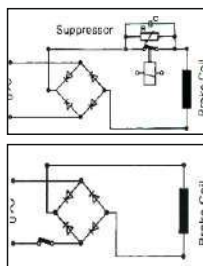


DIMENSIONAL DETAILS USB & UMB SERIES

Size/ Torque Nm	Voltage Dc	Wattage At 20° C	Max rpm	A1	A2	A3	A4	B1	B2	B3	H1	H2	L1	P	R	DH7		ag	Weight (kg)
																Std	Max		
2	24/36/48 / 190/ 205* Other Voltages on request	18	3000	54	65	20	3x4.5	42	3.0	46	15	8	120	14	38	8	9	0.2	0.9
5		20	3000	72	86	20	3x4.5	45	6.0	52	18	9	126	15	48	10	11	0.3	1.35
10		25	3000	90	104	30	3x5.5	49	7.0	57	20	10	135	25	52	14	15	0.3	2.05
20		30	3000	112	128	40	3x6.6	56	9.0	63	20	12	148	30	68	19	24	0.35	3.70
35		40	3000	132	148	45	3x6.6	66	9.0	74	25	12	158	35	80	24	28	0.35	5.60
65		50	3000	145	164	55	3x9.0	78	11.0	88	30	15	170	42	92	28	30	0.35	8.25
85		55	3000	170	188	65	3x9.0	84	11.0	94	30	15	192	56	102	34	35	0.4	11.65
155		65	3000	196	212	75	6x9.0	92	11.0	104	35	15	210	56	115	42	48	0.5	17.45
250		75	3000	230	250	90	6x11.0	104	11.0	115	40	16	292	70	135	48	55	0.7	26.65
400		120	3000	278	300	120	6x11.0	124	12.0	139	50	20	320	85	165	55	70	0.9	42.15
800	150	1500	300	340	130	6x15.0	150	18.0	165	60	25	400	90	175	62	80	1.5	65.5	
1600	350	1500	360	400	140	6x15.0	155	20.0	175	70	25	420	100	180	70	90	2.0	78.9	

Sizes 800/1600 available only in design 501
1Nm=0.102 kgm = 0.737 lb-ft-10.2 kgcm
Specifications are subject to change without
prior notice

Cable Length 400 mm approx for sizes 2-65
500 mm approx for sizes 85-1600
All dimensions are in mm only



SWITCHING

D. C. Switching: 'Turn off times are much shorter than A. C. switching but for larger brake with higher power coils one of our suppressor & capacitor across the switch is recommended.

A. C. Switching: A. C. Switching has a considerable effect on the 'turn off time' of brake coils. It is not recommended where fast reaction times are Required.



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Multitech Systems

SPRING OPERATED CABLE REELING DRUM

MULTITECH make spring operated cable reeling drums supply power to machines such as cranes & hoists and are suitable for both A.C. & D.C. applications.

These drums wind & unwind cable on the drum and are used in horizontal and vertical operations. i.e.: Cranes, Lifting Magnets etc

The springs used in these drums are of high quality spring steel material (EN-42J) The power slings are designed for 600 V, A.C



SPROCKET DRIVEN CABLE REELING DRUM

MULTITECH Make sprocket driven cable reeling drums are suitable for avoiding tension on the cable. These drums are driven by means of chain and sprocket. These type of cable drums are recommended for single cable layer on the drum. These drums are used in vertical operation ie. Lifting Magnet



STALL TORQUE MOTORISED CABLE REELING DRUM

MULTITECH Make motorized cable reeling drums are suitable for handling long length of cables where spring operated cable drums are not recommended. The Torque motors are capable of operating continuously in stalled position. Since these motors are continuously rated, there will be no problem even if the motor remains ON during winding and unwinding direction. These drums are driven by mean of chain and sprocket. These drums supply power to travelling cranes.



Cable Trolleys Four Wheel



**Cable Trolley
Medium Duty**



**Cable Trolley
Heavy Duty**



**Cable Trolley
Double Decker**



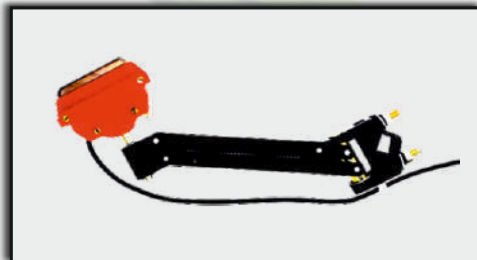
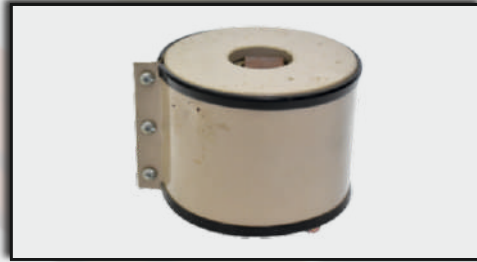
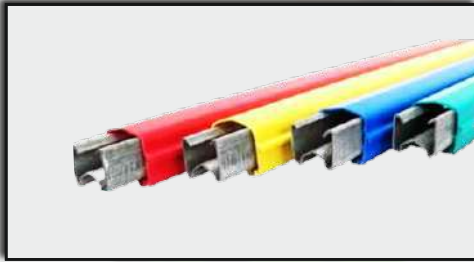
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