

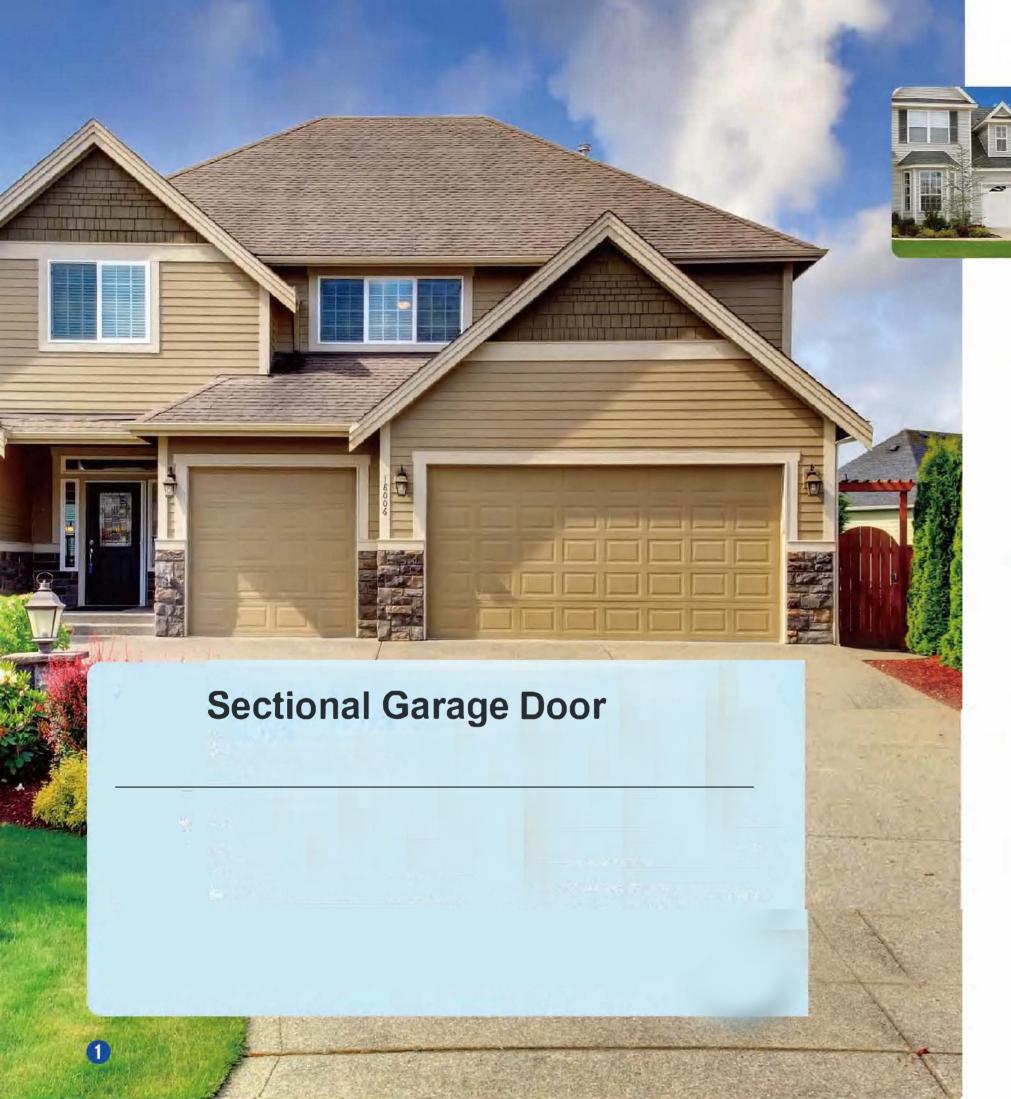
# RSF Trading Innovation & Builder Solutions SECTIONAL GARAGE DOOR

**PRODUCT MANUALS** 





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#### Heat Insulation

The energy-saving polyurethane is high quality heat insulator, non-absorbing and wear-resistant material with R-value 13.73.

#### • Finger Protection

Safety is important to today's homeowner. As your door closes, the exclusive finger protection system gently pushes fingers away from section joints.

#### • Triple-Layer

Triple-layer door includes the ultimate in thermal properties, plus a layer of steel for a finished interior look and adds durability.

#### High Strength & Resistance Material

Due to heavy-duty exterior and interior steel, polymeric coating keeps the door nice appearance, low maintenance, durable and reliable.

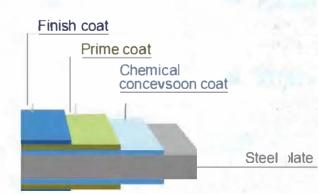
#### Air Tightness

The sealing system between door panels and around the door leaf increases the air tightness, prevents heat loss and blocks airflow between sections.

#### Noise Insulation

The thermal-insulation has sound-proof property. They prevent noise penetrating from the surroundings effectively.





#### **Surface Colors**

Normal Color: White RAL9016;

Solid Colors: Brown RAL8014, Light Beige RAL 1015, Anthracite Grey RAL7016, Red RAL3000, Blue RAL5015, Silver RAL9006, Ebony RAL9004









White RAL9016 RAL9006

RAL8014

RAL9004

#### **Timber Colors**

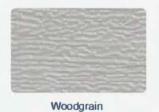








#### **Surface Finishes**







Woodgrain with 1 Line



#### **Panel Characteristics**

Panel type: Finger protection panel & non finger protection panel

Material: Galvanized steel with PU foaming Material thickness: 0.35mm/ 0.45mm/ 0.50mm

Section thickness: 40mm/ 50mm Panel width: 440mm 550mm Max available panel length: 12m





Woodgrain with Rectangle

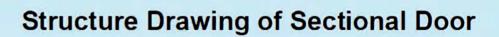


Flush





Woodgrain with 3 Lines



1 Horizontal track

1

- ② Vertical track
- 3 Nylon roller
- Bottom roller bracket
- Aluminum seal with rubber
- 6 Panel
- Middle hinge
- Round window
- Side hinge
- 10 L profile support

- 11 Cable drum
- Shaft 12
- Middle bearing bracket

13 12

- Motor cap
- Torsion spring
- 6 Spring cones
- Top roller bracket
- Steel cable
- Motor track
- 20 Motor





#### **Features**

General	600N	800N	1000N	1200N	1500N
Input Voltage:	AC 220V-240V / 110V-127V, 50-60Hz				
Motor Power:	DC 24V	DC 24V	DC 24V	DC 24V	DC 24V
Light Power:	10W/24V	10 <b>W</b> /24V	10W/24V	10W/24V	10W/24V
Max. Lifting Force:	60KG	80KG	100KG	120KG	150KG
Max. Lifting Height:	3.60m	3.60m	3.60m	3.60m	3.60m
Motor Rail:	3.0 - 4.5m	3.0 - 4.5m	3.0 - 4.5m	3.0 - 4.5m	3.0 - 4.5m
Rail Type:	Chain / Belt	Chain / Belt	Chain / Belt	Chain / Belt	Chain / Belt
Limit Setting:	Electronic	Electronic	Electronic	Electronic	Electronic
Transformer Technology:	Overload Protection	Overload Protection	Overload Protection	Overload Protection	Overload Protection
Soft open&close:	Yes	Yes	Yes	Yes	Yes
Radio Frequency:	433.92MHz/ Rolling or Fixed	433.92MHz/ Rolling or Fixed	433.92MHz/ Rolling or Fixed	433.92MHz/ Rolling or Fixed	433.92MHz/ Rolling or Fixed
Working Environment:	-20°C - 70°C	-20°C - 70°C	-20°C - 70°C	-20°C - 70°C	-20°C - 70°C
Protection Class:	IP20	IP20	IP20	IP20	IP20
Standard Kit:	1 Motor Hea	d, 3.3m Motor Rail(0	Chain), 2pcs Transmit	ter, Other Mounting	Accessories

#### Operation



Using APP by Bluebooth Receiver



Remote Control



Photo Beam Protection



Wireless Pin Code Lock

### >>> Sectional Industrial Door



Sectional Industrial Doors ane widely applied for places of facilities-production, warehouse, commercial, office and other permises with heavy traffic intensity, they consist of three main elements: door leaf, track system and torsion mechanism. The door leaf can be made of finger protection sandwich panels, transparent panels,

and it can be a combined one. It is available in all sliding systems and also with a range of versions with windows or with an inserted pedestrian door, depending on the ceiling and lintel design, and also other architectural room peculiarities. They are able to offer safety, reliability, advanced technology and personalisation.

### >>

### **Sectional Industrial Door**

Panel Thickness	Max. Width	Max. Height	Max.SQM
40mm	8000mm	6000mm	40.00
50mm	9000mm	8000mm	50.00

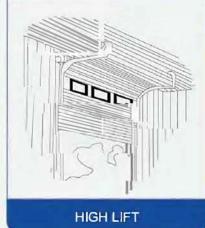


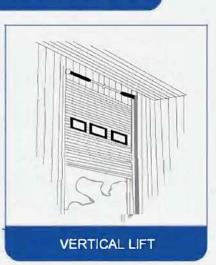


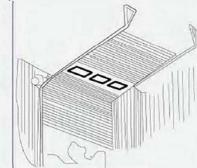
Industrial door with pedestrian door

Industrial door with window

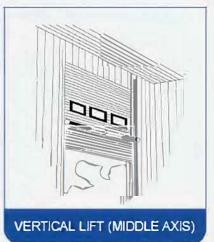




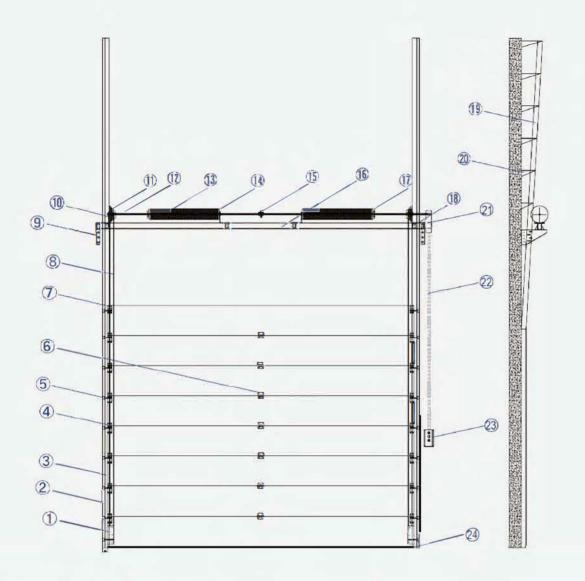




HIGH LIFT (MIDDLE AXIS)



NORMAL DECLINING LIFT



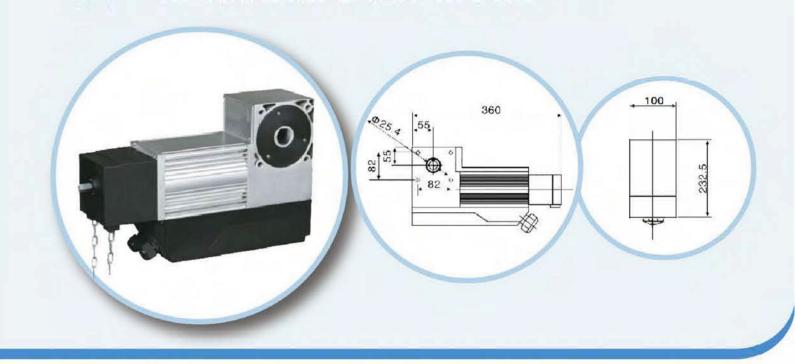
### **Structure Drawing of Sectional Industrial Door**

- Safety Bottom Bracket
- 2 L Profile Support (for lower vertical Track)
- 3 2" Lower Vertical Track
- Side Hinge
- (5) Roller
- 6 Middle Hinge
- Top Roller Bracket
- Steel Cable
- 9 Shaft Support Bracket
- 10 Side Bearing Bracket
- VL Cable Drum
- 2 Solid Shaft

- 13 Torsion Spring
- M Spring Anti-break
- 5 Shaft Coupler
- 16 Rectangle Middle Post
- 7 Spring Stationary
- 18 Holding Bracket
- 19 2" Upper Vertical Track
- 20 Upper Track Fixing Bracket
- 2) Shaft-drive Motor
- 2 Manual Chain Hoist
- 2 Push Button
- 2 Bottom Seal with Airbag Sensor



### >> Industrial Door Motor













Control box Installation bracket Remote control

Туре	MO.SIF30	MO.SIF50	
Power Supply	220V/50Hz	380V/50Hz	
Output Torque	30N.m	50N.m	
Output Rotation Speed	32r/min	32r/min	
Motor Rotation Speed	1400r/min	1400r/min	
Motor Power	300W	400W	
Thermal Protection	120 C	120°C	
Max.Continuous Working Time	10min	20min	
Ambien Temperature	-20°C 45°C (-40°C customization available)		
Barrel Diameter	Ф25.4mm	Ф25.4mm	
Flat Key	6mm x 5mm x 70mm	6mm x 5mm x 70mm	
Net Weight	12kg	12kg	
Dimensions	100 x 233 x 360mm	100 x 233 x 360mm	
Max. Rotation	28 cycles	28 cycles	
Applictaion Door SQM	<18m²	<25m <sup>2</sup>	

### >> Aluminum Sectional Overhead Door



### >> Aluminum Sectional Overhead Door



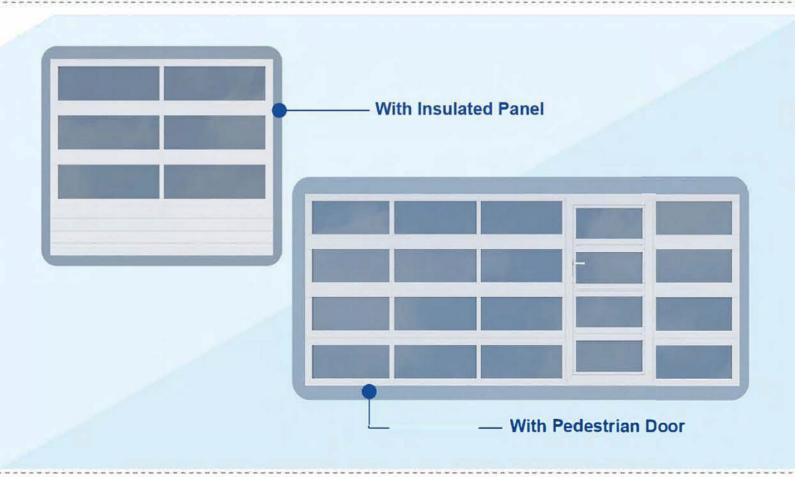
#### MODEL AF4050

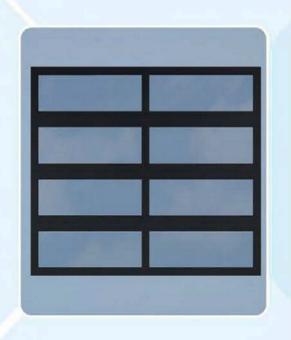
- Durable 40MM finger protection aluminum frame section
- Frame: Anodized or powder coated finishes
- Frame color customization: Clear Anodized, powder coating in White, Bronze, Brown, Black etc
- Polycarbonate or tempered glass/panel options
- Great weather barrier provided by tongue and groove joints
- Flexible vinyl bottom seal against dirt, noise and air infiltration&drafts
- Pedestrian door option available
- Compatible with Steel Insulated Panel



#### MODEL AN5081US

- 50MM Non finger protection aluminum frame section
- Frame: Anodized or powder coated finishes
- Frame color customization: Clear Anodized, powder coating in White, Bronze, Brown, Black etc
- Multiple glass panel option: Polycarbonate, Tempered glass, Aluminum-plastic composite panel, spun silk glass .etc.
- · Customizing glass effects: Clear, frosted, double glazing, laminated, mirror effect, Silk print image .etc.
- Superior thermal efficiency optional with Polyurethane injection inside aluminum frame structure
- Pedestrian door option available







### >>> Aluminum Sectional Overhead Door



#### **MODEL AN5005ZA**

- 60MM Non finger protection aluminum frame section
- Frame structure INVISIBLE for outside look
- Frame: Anodized or powder coated finishes
- Frame color customization: Clear Anodized, powder coating in White, Bronze, Brown, Black etc
- Special glass option: Mirror effect tempered glass Aluminum-plastic composite panel, silk printed glass, spun silk glass .etc
- Superior thermal efficiency optional with Polyurethane injection inside aluminum frame structure





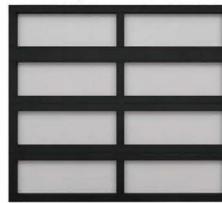
### Glass/Panel Options ▶



PC Sheet-Clear -



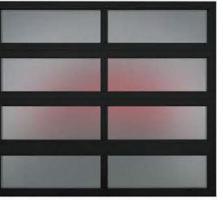
Tempered Glass-Clear -



Laminated Glass White



- Tinted Glass Grey -



-PC Sheet- Frosted-



Tempered Glass Frosted -

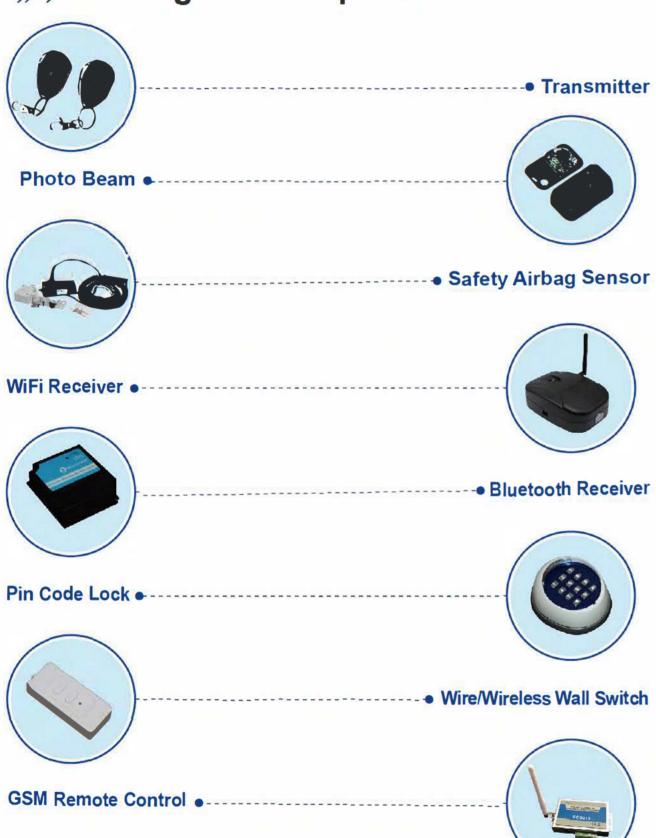


Alu-Composite Panel

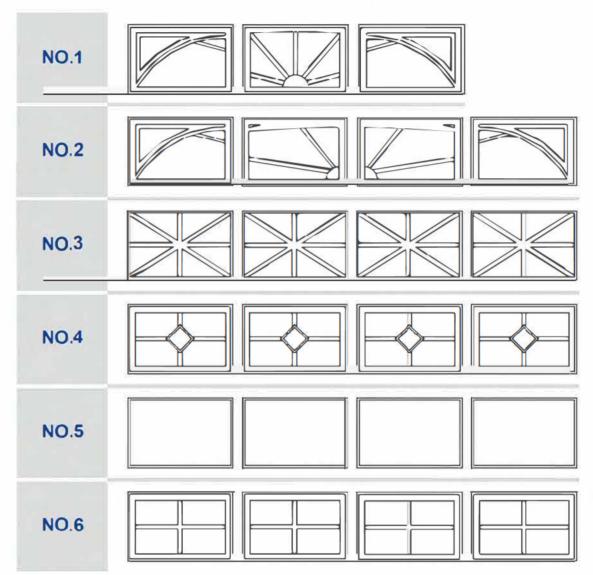


Mirror Glass

### >> Garage Door Opener Accessories



### Sarage Door Window Options





Door with visible window NO.6



Door with visible Round window Inner Dia: 330mm/Outer Dia: 360mm

## >>> Garage Door Parts



No.1 Hinge MAS0001.1

Thickness:1.8mm (14GA) For 4" stem rollers only



No. 4 Hinge MAS0001.4

Thickness:1.8mm (14GA) For 4" stem rollers only



#### No. 2 Hinge MAS0001.2

Thickness: 1.8mm (14GA) For 4" stem rollers only



#### No. 5 Hinge MAS0001.5

Thickness:1.8mm (14GA) For 4" stem rollers only



#### No. 3 Hinge MAS0001.3

Thickness: 1.8mm (14GA) For 4" stem rollers only



#### Middle Hinge MAS0002

Thickness: 1 8mm (14GA) For PU foamed panel only



#### Side Hinge MAS0101

Thickness: 2 0mm Galvanized steel / Width: 60mm For 4" stem rollers SF40S / SF40 only



#### Side Hinge MAS0801

Thickness: 2.5mm / Width 70mm For 4° stem rollers only



#### Side Hinge MAS0501

Thickness: 2.5mm / Width: 85mm For 4" stem rollers, SF40S/SF40 only



#### Side Hinge MAS1001

Thickness 2.0mm / Width: 65mm For 4" stem rollers only



#### Side Hinge MAS0601

Thickness: 2.0mm / Width 65mm For 4" stem rollers only



#### Double Side Hinge MAS0501DB

Thickness: 2.5mm / Width: 130mm For 7" stem rollers, SF40S / SF40 only





#### **Double Side Hinge Tube MAS0556**

Thickness:2.5mm / Width: 150mm For 7" stem rollers only



#### Side Hinge MAS1201

Extruded Aluminum / 60mm For 4" stem rollers only



#### Side Hinge MAS1101

Thickness: 2.0mm / 70mm For industrial use For 4" stem rollers, SF40S/ SF40 only



#### Intermedia Hinge MAS0102

Thickness: 2.0mm / 60mm For SF40S panel only



#### Side Hinge MAS0701

Casting Aluminum / 60mm For 4" stem rollers, SF40S / SF40 only



#### Intermedia Hinge MAS0102.B

Thickness: 2.0mm / 60mm For SF40S / SF40 panel only



#### Intermedia Hinge MAS0502

Thickness: 2.5mm / 65mm For SF40S / SF40 panel only



Thickness: 2.0mm Width 65mm



#### Intermedia Hinge MAS0602

Thickness:2.5mm Width: 65mm



#### Intermedia Hinge MAS1102

Thickness: 2.0mm Galvanized steel / Width: 90mm For SF40S / SF40 panel only



#### Intermedia Hinge MAS0802

Thickness:2.0mm Width: 65mm



#### Intermedia Hinge MAS0302

Casting Aluminum / Thickness:2.5mm Width: 60mm



#### **Top Roller Bracket MAS0003**

Thickness:1.5mm For 4" stem rollers only





#### **Top Roller Bracket MAS0803**

Thickness:2.5mm For 4" stem rollers only



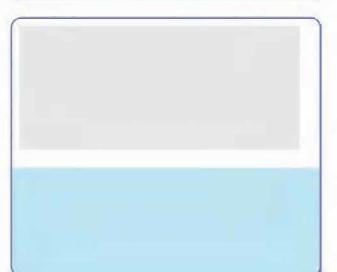
#### LHR Top Roller Bracket MAS0903

Thickness:1.8mm Length: 220mm / 400mm



#### **Top Roller Bracket MAS0703**

Casting Aluminum For 4" stem rollers only





#### **Bottom Bracket MAS0004**

Thickness:2.3mm



#### Safety Bottom Bracket MAS0804

Casting Aluminum



#### **Bottom Bracket MAS0604**

Thickness:2.5mm Max lifting: 165KG



#### Safety Bottom Bracket MAS0504A

Unadjustable, for 2" track only Max lifting: 750KG



#### **Bottom Bracket MAS0304**

Casting Aluminum



#### Safety Bottom Bracket MAS0504B

Adjustable, For 2" track only Max lifting: 750KG





#### **Bottom Bracket MAS0704**

Thickness: 2.5mm / 4.0mm Max lifting: 100KG, For industrial use only



#### **Bearing Bracket MAS0105**

Thickness:2.0mm Distance: 65mm



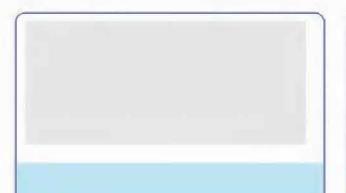
#### Safety Bottom Bracket MAS0904

Adjustable, for 3" track Max lifting: 750KG



#### **Bearing Bracket MAS0005**

Thickness:2.5mm Distance: 84mm





#### **Bearing Bracket MAS0605**

Thickness:2.5mm Distance: Adjustable



#### Spring Anti-Break MAS0505

For 1"3/4 and 2" spring only



#### **Bearing Bracket MAS0705**

Thickness:4.0mm

Distance: 110mm, 123mm, 152mm



#### Spring Anti-Break MAS0305

For 2°5/8 and 3"3/4 spring only



#### **Bearing Bracket MAS0805**

Thickness:4.0mm Distance: 152mm



#### Support Bracket MAS0356

Thickness:4.0mm

Extend distance to 152mm for 6" spring



#### Side Bearing Bracket MAS0606

Thickness:2.5mm

Distance: 65mm/84mm







#### Flanged Bearing MAS0036

1" bore

Outside Diameter 21



#### Nylon Roller MAS0007

Diamater: 2", for 2" track only Stem: 4" / 7 ball, 11ball



#### Flanged Nylon Bushing MAS0136

1" bore

Outside Diameter: 2"



#### Steel Roller MAS0507

Diameter: 2", for 2" track only Stem: 4" / 10 ball



#### Jamb Bracket MAS0527

Thickness:2.5mm

Length: A76mm / B93mm / C104mm / D115mm



#### Nylon Roller MAS0707

Diameter: 2", for 2" track only

Stem: 7° / 11ball



#### Steel Roller MAS0607

Diameter: 2", for 2" track only Stem: 7" / 10 ball



#### Nylon Roller MAS0907

Diameter: 2", for 2" track only Stem: 7" / Precision 6200ZZ



#### Steel Roller MAS0608

Diameter: 3", for 3" track only Stem: 7" / 10 ball



#### Roller Protect MAS0134

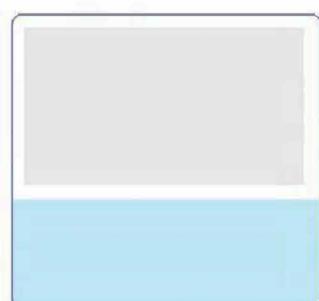
Plastic

For 2" roller



#### Nylon Roller MAS0807

Diameter: 2", for 2" track only Stem: 4" / Precision 6200ZZ







8'NL Cable Drum MAS0013.NL8

Max Lifting Height: 8' Max Cable diameter: 1/8"



10'NL Cable Drum MAS0013.NL10

O.D.: 83mm / Max Lifting Height: 10' Max Cable diameter: 1/8"



12' NL Cable Drum MAS0013.NL12

Max lifting Height: 12' Max Cable diameter: 5/32"



18'NL Cable Drum MAS0013.NL18

Max Lifting Height: 18' Max Cable diameter: 3/16"



12'NL Cable Drum MAS0013.NL12B

3 Nuts / Max lifting Height: 12' Max Cable diameter: 5/32\*



#### 18'NL Cable Drum MAS0013.NL18B

3 Nuts / Max Lifting Height; 18' Max Cable diameter: 3/16"



#### 32'NL Cable Drum MAS0013.NL32

Max Lifting Height: 32' Max Cable diameter: 1/4"



#### 11'VL Cable Drum MAS0315.VL11B

3 Nuts / Max Lifting Height: 11' Max Cable diameter: 3/16"



#### 32'NL Cable Drum MAS0013.NL32B

3 Nuts / Max Lifting Height: 32' Max Cable diameter: 1/4"



#### 18'VL Cable Drum MAS0315.VL18

Max Lifting Height: 18' Max Cable diameter: 3/16"



#### 11'VL Cable Drum MAS0315.VL11

Max Lifting Height: 11' Max Cable diameter: 3/16"



#### 28'VL Cable Drum MAS0315.VL28B

3 Nuts / Max Lifting Height: 28'

Max Cable diameter: 1/4"



4-54HL Cable Drum MAS0314

Max Lifting Height: 54" vertical + 120" Max Cable diameter: 1/8"



164HL Cable Drum MAS0314

Max Lifting Height: 164" vertical + 229" Max Cable diameter: 1/4"



5-54HL Cable Drum MAS0314

Max Lifting Height: 54" vertical + 180" Max Cable diameter: 3/16"



#### Spring Fittings 1"3/4U MAS0017

Universal thread Max wire diameter: 295



#### 120HL Cable Drum MAS0314

Max Lifting Height: 120" vertical + 144"

Max Cable diameter: 3/16"



#### Spring Fittings 2"U MAS0017.2U

Universal thread

Max wire diameter: 306.5



#### Spring Fittings 2"5/8U MAS0317

Universal thread

Max wire diameter: 331



#### Spring Fittings 6"S MAS0317

Single thread for LH / RH wound springs Max wire diameter: 437.5



#### Spring Fittings 3"3/4U MAS0317

Universal thread

Max wire diameter: 406.2



#### Cable Sleeve MAS0060

Aluminum 2.38mm/3,18mm/4.0mm/5,0mm



#### Spring Fittings 3"3/4S MAS0317

Single thread for LH / RH wound springs

Max wire diameter: 406



#### Cable Sleeve MAS0160

Aluminum 2.38mm/3.18mm/4.0mm/5.0mm

### Minister Well Enterprise Limited

### Sarage Door Parts



#### 3" Pulley MAS0018.3

Bored for 3/8" bolt

Max Cable diameter: 3/16"



#### S-hook with Split MAS0042/0043

Thickness: 1.5mm

For Extension Spring only



#### 3" Pulley MAS0018.3Y

Bored for 3/8" bolt / Yellow plating Max Cable diameter: 3/16"



#### U - fork MAS0041.3

Work with 3" pulley 3/8" Bolt



#### 4" Pulley MAS0018.4

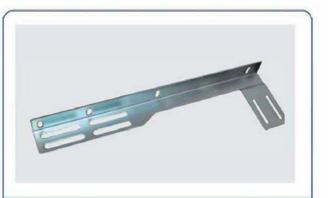
Bored for 3/8" bolt Max Cable diameter: 1/4"



#### **Extension Spring Bracket MAS0061**

Thickness:2.0mm

For Extension Spring only



#### Flag Bracket MAS0126

Thickness:2.0mm Length: 460mm



#### Exterior Reinforce Bar MAS0131

Thickness: 1.5mm

For Industrial door use



#### **Corner Angle MAS0046**

Thickness: 2.5mm Length: 550mm



#### 2" Track MAS0010.2

Steel thickness: 1.5mm / 1.8mm / 2,0mm

Curve option: R12 / R15



#### **Exterior Reinforce Bar MAS0031**

Thickness:1.5mm

For residential door use



#### 3" Track MAS0310.3

Steel thickness: 2.0mm / 2.5mm

Curve option: R15





### >>> Garage Door Parts



**Tube Shaft MAS0024** 

Thickness: 1.5mm / 1.8mm / 2.0mm Outside diameter: 1"



#### Shaft Coupler MAS0532

Casting steel / Length: 65mm For tube shaft only



#### **Tube Shaft with Keyway MAS0124**

Thickness: 2.0mm / 3.0mm Outside diameter: 1" with 1/4 keyway



#### Shaft Coupler MAS0032

Aluminum / Length: 75mm For tube shaft with keyway



#### Solid Shaft with Keyway MAS0224

Outside diameter: 1" with 1/4 keyway



#### Shaft Coupler MAS0332

Aluminum / Length: 70/90mm For tube shaft with keyway



#### Shaft Coupler MAS0132

1" bore with 1/4 keyway For shaft with keyway



#### Push Spring MAS0533.15

Total Length: 15" 6" Compression



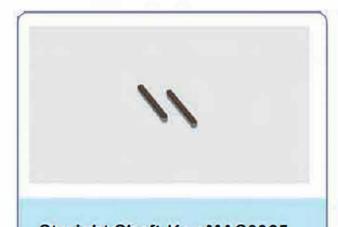
#### Shaft Coupler MAS0432

1" bore with 1/4 keyway For solid shaft



#### Push Spring MAS0533.27

Total Length: 27" 15" Compression



#### Straight Shaft Key MAS0035

Length: 75mm / 100mm



#### Cable MAS0120

7X7 / 7x19

2.38mm / 3.18 mm / 4mm / 5mm



### >>> Garage Door Parts



Aluminum Cap MAS0062

For 40mm section panel only White coated



**Aluminum Cap MAS3228** 

For 50mm section panel only Match with MAS0129 rubber seal



**Aluminum Bottom Seal MAS0028** 

For 40mm section panel only Anodized only



Bottom Rubber Seal MAS0029.6

Material: EPDM Width: 65mm



Aluminum Bottom Seal MAS0128

For 40mm section panel only For bottom or top panel use



#### **Bottom Rubber Seal MAS0229.17**

Malerial EPDM Width: 170mm



#### **Bottom Seal MAS0129**

Material: EPDM Work with Airbag





#### Side Seal MAS0030

Material: PVC



#### Top Seal MAS0244

Material: EPDM Work with SF40S panel only



#### Side Seal MAS0130

Material: PVC



#### Side Seal MAS0430

Material: PVC / MBS







#### **Emergency Lock MAS0021**

With 2mm Cables For Electrical operation only



#### Manual Lock MAS0222

Multifunctional, Including Cylinder, Handle, Cables, Autolatches and swivel



#### **Emergency Lock MAS0121**

With 2mm Cables, with Lock cap For Electrical opeation only



#### Slide Lock MAS0523

Thickness: 2mm / 4mm Distance: 102mm



#### T - type Manual Lock MAS0122

Shaft: 5/16" squre x 4"



#### Slide Lock MAS0623

Thickness:2mm / 4mm



#### Swivel Latch MAS0038

Thickness: 2mm



#### Passing Door Lock MAS0322

For sectional door passing door only



#### Auto Latch MAS0039

Thickness: 2.5mm / 2.75mm



#### **Door Closer MAS0049**

Aluminum alloy

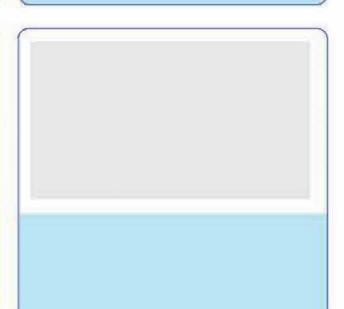
For residential and industrial use



#### **Autolatch Striker MAS0040**

Thickness: 2.0mm / Width 60mm

Hole: 7x61mm







Steel Handle MAS0509

Mounting hole 5"1/2 on centers



Lifting Handle MAS0209

Material: Plastic Black color



#### Steel Handle MAS0609

Mounting hole 5"1/2 on centers



#### Lifting Handle MAS0109

Material: Plastic

For Inside and outside



#### Lifting Handle MAS0009

Material: Plastic

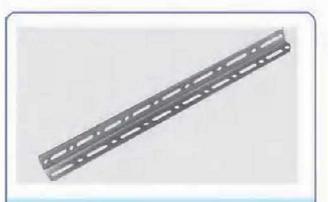
White color. Embedded



#### Lifting Handle MAS0909

For industrial use

Embedded



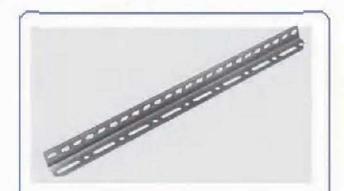
#### Angle Iron MAS0045

Thickness: 2.0mm / 30x30 Standard Length: 1500mm



#### Chain Hoist MAS0048.A

Wall mounted 4:1 / 26' Hand chain / 1" bore 41B36 sprocket / 36" Roller chain



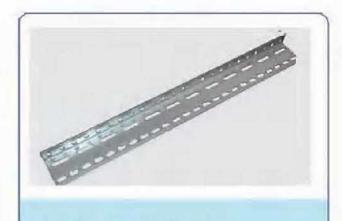
#### Angle Iron MAS0245

Thickness: 2.0mm / 30x30 Standard Length: 1500m



#### Chain Hoist MAS0048.B

Wall mounted 6.6:1 / 26' Hand chain / 1" bore 41B60 sprocket / 48" Roller chain



#### Angle Iron MAS0145.B

Thickness: 2.0mm / 30x60 Standard Length: 1500mm



#### Chin Hoist MAS0448

Shaft mounted 4: 1 / 26' Hand chain / 1" bore 41B60 sprocket / 22" Roller chain



### >>> Garage Door Parts



**Extension Spring** 

Antirust oil



#### **Torsion Spring**

Oil - Tempered

Wire diameter: 5.0 - 11.5mm



**Torsion Spring** 

Antirust oil

Wire Diameter: 5.0 - 11.5mm



#### **Torsion Spring**

Dacromet coating

Wire diameter: 5.0 - 11.5mm



**Torsion Spring** 

Electrophoresis coating

Wire Diameter: 5.0 - 11.5mm



#### **Torsion Spring Filler**

For 1" shaft only



#### Self Drilling Screw

Hexagon Flange

For PU foamed sectional panel only



#### Carriage Bolt with Nut

M8 X 16

For track assembly



#### **Tapping Screw**

Hexagon Flange

For Wood door panel only



#### Hex Head Bolt with Nut

M8 X 20

For track assembly



#### Carriage Bolt with Nut

M6 X 12

For track assembly



#### **Wood Screw**

Hexagon Flange

For track fixing













