

# STEP®

## YIXIN INTERNATIONAL

Shanghai Yixin International Trade Co., Ltd.  
NO.599 Meiyu Road, Jiading District, Shanghai  
Zip: 201802  
TEL: 86-21-3101 0622  
FAX: 86-21-3101 0649

Shanghai STEP Electric Corporation  
NO.599 Meiyu Road, Jiading District, Shanghai  
Zip: 201802

Shanghai STEP Robotics Co., Ltd.  
NO.599 Meiyu Road, Jiading District, Shanghai  
Zip: 201802

Shanghai Sigriner STEP Electric Co., Ltd.  
NO.1560 Siyi Road, Jiading District, Shanghai  
Zip: 201801

Shanghai STEP Cable Technology Co., Ltd.  
NO.289 Xinqin Road, Jiading District, Shanghai  
Zip: 201802

Shenzhen ADTECH Technology Co., Ltd.  
5/F, Nanshan District, Yiyuan Road Majialong IC Industry Park,  
Shenzhen  
Zip: 518052

Shanghai STEP Automotive Equipment Co., Ltd.  
NO.66 Shenxu Road, Songjiang District, Shanghai  
Zip: 201612

Shanghai Huitong Automation Technology Development Co., Ltd.  
Room 3503-3504, CITIC Plaza, No.859, North Sichuan Road,  
Shanghai  
Zip: 200085

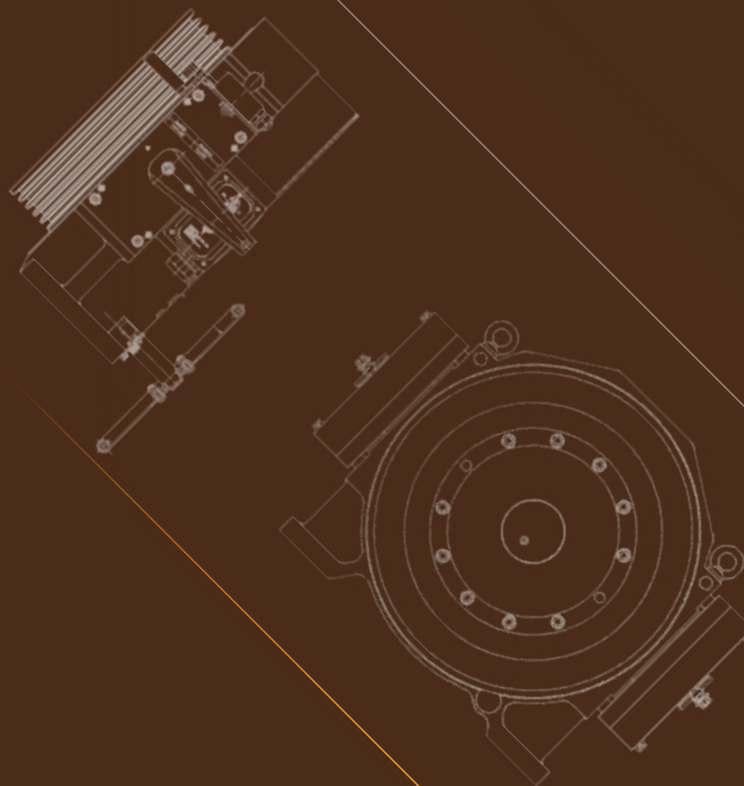
Hangzhou Zhishan Intelligent Control Technology Co., Ltd.  
NO.9 Xianxin Road, Xianlin Industry Park, Yuhang District,  
Hangzhou, Zhejiang  
Zip: 311112

STEP Sigriner Elektronik GmbH  
Martin-Moser-str.15, 84503 Altoetting, Germany

HONG KONG International STEP Holdings Co., Ltd.  
Unit AD, 9/F, Nathan Commercial Building, 430-436 Nathan Road, Kowloon, Hong Kong

SIGRINER Automation (Mfg.) Sdn.Bhd.  
Lot 5, Japan Asam Jawa 16/15, Section 16, 40200 Shah Alam, Selangor Darul Ehsan,  
Malaysia

STEP-SIGRINER DO BRASIL  
Rua Alvaro Fragoso, 96-Vila Carioca – Sao Paulo, SP, Brasil CEP 04223-000



[www.stepelectric.com](http://www.stepelectric.com)

ELEVATOR  
COMPONENTS  
**MECHANICAL**  
VER 1.0



Shanghai Yixin International Trade Co., Ltd. was found in April 2011, which is a wholly-owned subsidiary of Shanghai STEP Electric Corporation.

Yixin International is a comprehensive international trading company with multilanguage support of business, including English, Russian, Spanish, German, Japanese and so on. As an elevator part integrated supplier, we provide professional lift solutions. We cooperate with partners from more than 50 different countries such as Germany, Malaysia, Vietnam, Indonesia, Russia, Singapore, Australia, India, Turkey and so on.



Our company creates a global advantage by means of good service.

We have established overseas wholly owned subsidiaries, namely STEP Sigriner Elektronik GmbH in Germany and Hong Kong International STEP Holdings Co., Ltd. as well as two subsidiary joint-venture companies STEP-Sigriner DO BRASIL in Brazil and Sigriner Automation (MFG) SDN. BHD. in Malaysia.



The Middle East and South-east Asia region have also been in the selection process, planning to set up offices in the coming year. Yixin will continue to expand the business scope all over the world.

## > Company Information

1995

01

Company Information

02

Contents

04

Traction Machine

08

Door System

13

Safety Components Series

20

Guidance System

25

Others

32

Cabin

**STEP Spirit:** Strive for global competitiveness, pursue the best practice and always stay ahead of the industry.

**STEP Mission:** Provide the best controllers, drives and energy-saving products for the sustainable benefits of the society and the employees.

**STEP Vision:** To be a worldwide leading high-tech enterprise in electrical industry.





# Traction Machine

## Traction Machine

### Permanent Magnet Synchronous Gearless Traction Machine



Voltage	380V
Roping	2:1
Wrap	Single
Elv. Load	320~1600kg
Elv. Speed	0.5~2.5m/s
Sheave Diam	320~480mm
Duty	S5-40%ED
IP Code	IP41
Ins. Class	F

Traction Machine

Door System

Safety Components Series

Guidance System

Others

Cabin

## Permanent Magnet Synchronous Gearless Traction Machine



Voltage	380V
Roping	2:1/1:1(320~400kg)
Wrap	Single
Elv. Load	320~2500kg
Elv. Speed	0.4~1.75m/s
Sheave Diam	200~480mm
Duty	S5-40%ED
IP Code	IP41
Ins. Class	F

## Geared Traction Machine



Voltage	380V
Roping	1:1
Elv. Load	100~2500kg
Elv. Speed	0.4~2.0m/s

# Door System

## Door System

### Center Opening Door Operator (PM & VVVF)



Wide: 600~1200mm;  
Installation: Top installation & Car frame Installation

### Center Opening Landing Door Device



Wide: 600~1200mm

### Center Opening (Fire proof & Insulated door) Landing Door Device



Wide: 700~1200mm

Traction  
Machine

Door  
System

Safety Components  
Series

Guidance  
System

Others

Cabin



## Side Opening Door Operator (PM & VVVF)



Wide: 700~1300mm;  
Installation: Top installation & Car frame Installation

## Side Opening Landing Door Device



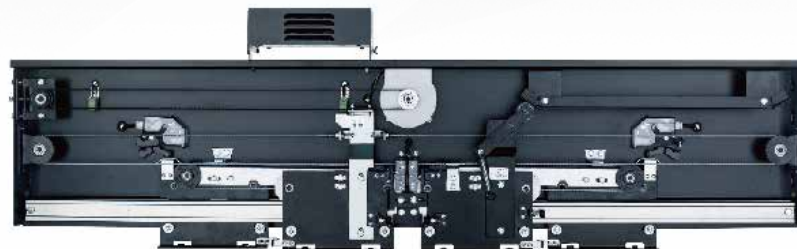
Wide: 700~1300mm

## Side Opening (Fire proof & Insulated door ) Landing Door Device



Wide: 700~1300mm

## 4 Panels Center Opening Door Operator



Wide: 700~3000mm;  
Installation: Top installation & Car frame Installation

## 4 Panels Center Opening Landing Door Device



Wide: 700~3000mm

## Door System

### 3 Panels Side Opening PM Door Operator



Wide: 900~1800mm;  
Installation: Top installation & Car frame Installation

### 3 Panels Side Opening Landing Door Device



Wide: 900~1800mm



# Safety Components Series



## Overspeed Governor



Governor Non-Return

Speed:  $\leq 0.63\text{m/s}$ ;  $0.75\text{m/s}$ ;  $1.0\text{m/s}$ ;  $1.5\sim 1.6\text{m/s}$ ;  $1.75\text{m/s}$ ;  $2.0\text{m/s}$ ;  $2.5\text{m/s}$   
 Sheave diameter:  $\phi 240$   
 Wire Rope Nominal diameter: Standard  $\phi 8\text{mm}$ , Optional  $\phi 6\text{mm}$   
 Braking Force:  $800\text{N}\sim 1500\text{N}$



Two Way Governor

Speed:  $\leq 0.63\text{m/s}$ ;  $1.0\text{m/s}$ ;  $1.5\sim 1.6\text{m/s}$ ;  $1.75\text{m/s}$ ;  $2.0\text{m/s}$ ;  $2.5\text{m/s}$   
 Sheave diameter:  $\phi 240$   
 Wire Rope Nominal diameter: Standard  $\phi 8\text{mm}$ , Optional  $\phi 6\text{mm}$   
 Braking Force:  $800\text{N}\sim 1500\text{N}$

## Tension Device



Sheave Diameter:  $\phi 200\text{mm}$ ;  $\phi 240\text{mm}$   
 Wire Rope Nominal diameter: Standard  $\phi 8\text{mm}$ ; Optional  $\phi 6\text{mm}$   
 Weight Type: Barite(High density of ore); Cast iron  
 Installation position: Elevator Pit Guide Rail Side

## Safety Gear



Progressive Safety Gear



Instantaneous Safety Gear

## Oil Buffer

Spring Outside



Speed	Buffer weight range	Pillar gully riuting	L (mm) free state	Hydraulic oil brand	Oil is needed
≤1.0	600-3000	80	313	HL-46	0.33
≤1.6	600-3000	175	510	HL-46	0.6
≤1.75	600-3000	210	600	HL-46	0.8

Spring Inide



Speed	Buffer weight range	Pillar gully riuting	L (mm) free state	Hydraulic oil brand	Oil is needed
≤1.0	300-2500	100	388	HL-46	0.48
≤1.6	700-5300	175	625	HL-46	1.7
≤1.75	1000-5300	290	915	HL-46	2.6



Polyurethane Buffer



Roller Guide Shoe  
Speed of Application:  $\leq 2.5\text{m/s}$



CWT Guide Shoe  
Speed of Application:  $\leq 1.75\text{m/s}$

## Guide Shoe



Sliding guide Shoe  
Speed of Application:  $\leq 2.5\text{m/s}$

## Rope Brake



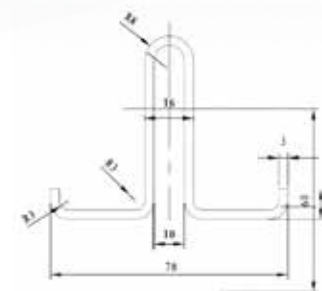
Triggering mode: over-speed governor upward mechanical triggering of electrical triggering  
Reset mode: manually  
Functioning position: traction wire rope  
Installation: upright or upside down



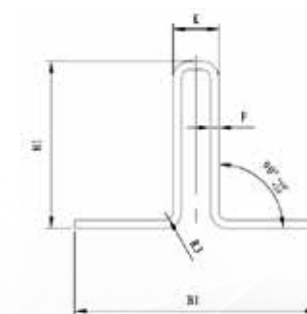
# Guidance System

## Guidance System

Hollow Rail



Hollow Rail



B1	F	H1	K
87	2	60	16.4
87	3	60	16.4

Traction  
Machine

Door  
System

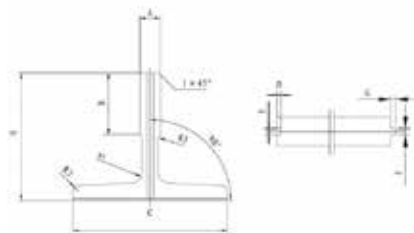
Safety Components  
Series

Guidance  
System

Others

Cabin

Elevator T-shape Rail

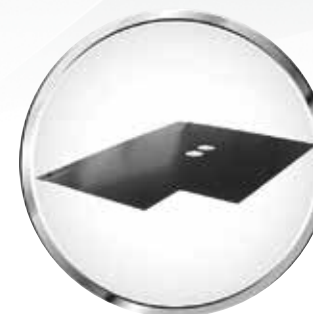


Type/Item	A	B	C	D	E	F	G	H
T75-3/B	10	30	75	3.5	3	2.95	3	62
T89/B	15.88	33.4	89	7.14	6.4	6.37	6.35	62
T90/B	16	42	90	7.14	6.4	6.37	6.35	75
T114/B	16	38	114	7.14	6.4	6.37	6.35	89
T127-1/B	15.88	44.5	127	7.14	6.4	6.37	6.35	88.9
T127-2/B	15.88	50.8	127	7.14	6.4	6.37	6.35	88.9
T140-3/B	31.75	57.2	140	7.14	6.4	6.37	6.35	127

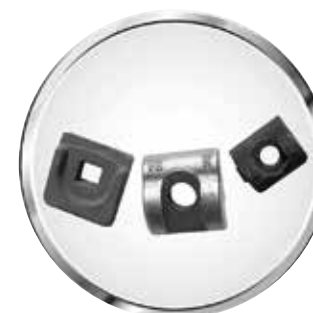
Junction Plate



Skirt Guard Panel



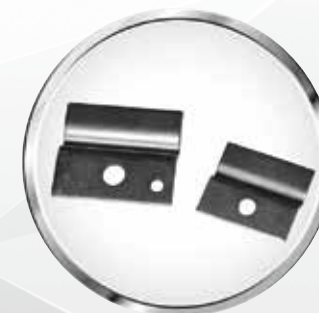
Real Rail Clamp



Glass Holder



Sliding Guide Rail Clamp





Flanging Hollow Rail Clip



Adjusting Shim



Guide Sleeve



Ripple Reinforcing Rib



Hollow Rail Junction



# Others

# Others





## Elevator Pully/Sheave



Nylon Sheave



Iron Sheave

Note:

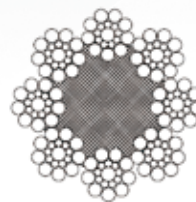
1: Sheave Diameter: 200~660mm

2: Can provide the bearings and shaft as request.

3: Can provide some special pulleys/sheaves customized.

## Wire Rope

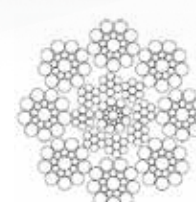
8x19S+FC



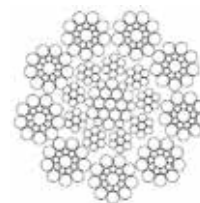
8x19S+IWR  
(8x7+PP)



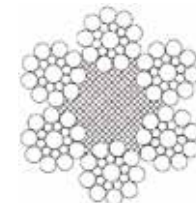
8x19S+IWR  
(8x7+19S)



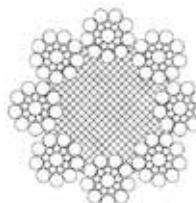
9x19S+9x7+1x19W  
9x19S+9x7+1x19s



6x19S+SFC(PP)



8x19S+SFC(PP)



With Creative Science and Technology  
You Will Find Such Is the World

Nominal Diameter (mm)	Approximate Weight kg/100m	Minimum breaking tension of wire rope (KN) (min b/l)				
		1320/1620N/mm 1410N/mm (Double T/S)	1320/1770N/mm 1370/ 1770N/mm 1410N/mm (Double T/S)	1570 N/mm (Single T/S)	1620 N/mm (Single T/S)	1770 N/mm (Single T/S)
8	22.2	26.5	28.1	29.4	30.4	33.2
9	28.1	33.5	35.6	37.3	38.4	42.0
9.5	31.3	37.3	39.7	41.5	42.8	46.8
10	34.7	41.3	44.0	46.0	47.5	51.9
11	42.0	50.0	53.2	55.6	57.4	62.8
12	50.0	59.5	63.3	66.2	68.4	74.7
12.7	56.0	66.6	70.9	74.2	76.6	83.6
13	58.6	69.8	74.3	77.7	80.2	87.6
14	67.9	81.0	86.1	90.2	93.0	102.0
16	88.8	106	113.0	118.0	122	133.0
19	125.0	149	159.0	168.0	171	187.0
22	168.0	200	213.0	223.0	230	251.0



Oil Can



Round Oil Can



Damping Pad



Overload Device



Square Oil Can



Cable Clamp



Guiding Device



Compensating Chain Device And Accessor



Door Slider



Fan



Overload Device



Chuck Of Car Top



Door Key



Door Lock





Damping Pad



Damping Pad



Car Door Switch



Passive Door Switch



Light curtain



Encoder



Passive Door Switch



Governor Switch



limit Switch



Leveling switch



Host interphone for five parties communication





# Cabin

# Cabin

## Cabin

### Standard type



#### STD-01

Ceiling: Stainless steel frame, acrylic top plate, LED lighting decoration  
Car Panel: Hairline stainless steel  
Floor: PVC  
Handrail: Optional



#### STD-02

Ceiling: Painted; LED lighting decoration  
Car panel: Painted  
Floor: PVC  
Handrail: Optional

Traction  
Machine

Door  
System

Safety Components  
Series

Guidance  
System

Others

Cabin

## Superior Type



### SUP-01

Ceiling: Stainless steel frame, acrylic top plate, LED lighting decoration  
Car panel: Stainless steel+Mirror etched  
Floor: PVC  
Handrail: Optional



### SUP-03

Ceiling: Stainless steel frame, acrylic top plate, LED lighting decoration  
Car panel: Hairline stainless steel +Mirror etched  
Floor: PVC  
Handrail: Optional



### SUP-02

Ceiling: Mirror stainless steel, LED lighting decoration  
Car panel: Side - Hairline stainless steel, Rear-stainless steel mirror+ Stainless steel  
Floor: PVC  
Handrail: Optional

## Deluxe Type



### DLX-01

Ceiling: Stainless steel black titanium hairline; Stainless steel mirror roof gilding spotlight  
Car Panel: Stainless steel mirror; Stainless steel black titanium hairline wood cover  
Front panel: Stainless steel black titanium hairline  
Floor: Marble  
Handrails: Stainless steel mirror



### DLX-02

Ceiling: Stainless steel mirror, LED acrylic light, tube lamp  
Car panel: Combination of rose gold etched stainless steel mirror and etched stainless steel hairline  
Floor: Marble  
Handrail: Flat handrail



## Imperial



### IMP-01

Ceiling: Wooden frame painted roof gilding down light  
Car Panel: Stainless steel mirror wood finishes  
Floor: Marble  
Handrails: Stainless steel pipe titanium



### IMP-03

Ceiling: Stainless steel titanium mirror roof gilding spotlight  
Car Panel: Stainless steel titanium mirror; Marble  
Front panel: Stainless steel titanium mirror  
Floor: Marble  
Handrails: Stainless steel titanium wooden handrail



### IMP-02

Ceiling: Stainless steel titanium mirror; Stainless steel titanium mirror etching absorb dome light down lamp  
Car panel: Stainless steel titanium mirror  
Floor: Marble Medallion  
Handrails: Stainless steel pipe titanium wood combination armrest

## Door Panel



**D01**  
Painted



**D02**  
Hairline stainless steel



**D03**  
Stainless steel+Glass



**D04**  
Stainless steel mirror



**D05**  
Titanium mirror stainless steel



**D06**  
Titanium stainless steel



## Ceiling



C01



C02



C03

## Handrail



H01



H02



H03



H04



H05



H06

## Floor



F01



F04



F02



F05



F03



F06

## Cabin for home lift



### HL01

Ceiling: Painted; LED lighting  
Car panel: Painted  
Floor: PVC  
Handrail: Optional



### HL03

Ceiling: Rose-gold stainless steel, absorb dome lighting  
Front panel: Rose-gold stainless steel  
Other panel: Wood veneer  
Floor: PVC



### HL02

Ceiling: Mirror stainless steel, Acrylic decoration, LED lighting  
Front panel: Mirror stainless steel  
Two side panel: Stainless steel, Sticker plate  
Rear Panel: Mirror etched stainless steel, Sticker plate  
Floor: PVC



### HL04

Ceiling: Wood veneer style, Mirror stainless steel, LED lighting  
Front panel: Hairline stainless steel  
Other panel: Wood veneer, Mirror stainless steel  
Floor: PVC  
Decorative picture : By client

## Door



**HD01**  
Hairline stainless steel



**HD02**  
Titanium gold stainless steel



**HD03**  
Rose gold stainless steel



**HD04**  
Wood veneer

## Cabin for Panorama Lift



### PL01

Car cover: Steel plate spraying with lamp bar  
Ceiling: Stainless steel frame, acrylic top plate, LED lighting decoration  
Observation panel: Three glue glass of safety clamp  
Other panel: Hairline stainless steel  
Floor: PVC  
Handrail: Stainless steel tube

### PL02

Car cover: Steel plate spraying  
Observation panel: Three glue glass of safety clamp  
Other panel: Hairline stainless steel  
Floor: PVC  
Handrail: Stainless steel tube







## PL03

Car cover: Steel plate spraying  
Observation panel: Glue glass of safety clamp  
Floor: PVC  
Handrail: Stainless steel board



## PL04

Car cover: White top-down covers of hemispherical acrylic, decorative panel of a painting arc-shaped steel plate, with a number of decorative light bands  
Observation panel: Arc-shaped 5 laminated glass  
Floor: PVC  
Handrail: Round armrest of stainless steel

## Cabin for Freight lift



## FL01

Ceiling: Painted steel+LED lighting  
Car Panel: Painted steel  
Floor: Checked steel plate  
Handrail: Optional

## Cabin for Bed Lift



## BL01

Ceiling: Acrylic lighting decoration, stainless steel hairline frame  
Car Panel: Hairline stainless steel plate  
Floor: PVC  
Handrail: Optional