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PRODUCT CATALOG
2026 EDITION

ROLLING SHUTTER MOTORS

JIELONG
Rolling Shutter Motors

ECR series electronic side motors from 400 kg to 4,0(kg — single phase and three phase, with chain-brec safety, manual chain override and remote control. Supplied and supported by Smart India Enterprises.

400–4000 KG RANGE

1P & 3P 240 V / 415 V

ISO 9001 CERTIFIED MAKER





400–800 KG



1000–1500 KG



2000–4000 KG



SAFETY BRAKES

Chain-break safety device • **Manual** chain override • **Left or right** mounting • **Remote** included • **12-month** warranty

01 ABOUT THE BRAND

JIELONG Shutter Motors

CHIEF EDITOR OF CHINA'S NATIONAL SHUTTER-MOTOR STANDARD

Supplied in India by Smart India Enterprises, Mumbai



1.1 Who Makes It

Jie Long Shutter Motors Ltd., Zhangzhou (Fujian, China), has built ECR electronic rolling shutter motors for many years. Its factory works under an **ISO 9001** quality system and its products carry **product liability insurance** underwritten by The People's Insurance Company (Group) of China.

Smart India Enterprises stocks the full ECR range in Mumbai, supplies complete motor sets, spares and safety brakes, and supports dealers and installers across India.

11	400–4000 kg
MODELS IN STOCK	LIFTING RANGE

1.2 Why JIELONG ECR Motors

Chain-break safety
Patented chain-break protection device (ZL02240227.6) stops the shutter if the chain fails.

Manual override
Hand chain lifts the shutter during a power cut; hand clutch lowers it in a controlled way.

Left or right
Standard right-hand mounting; turn the brake shell 180° to fit on the left side.

Thermal protection
Built-in heat protector stops the motor if it overheats and restarts once it cools.

Low noise
Simple, compact build with small oscillation and low running noise.

Easy limits
Screw-cap or gear-form position limiter for quick setting of the top and bottom stops.

Remote ready
Single phase sets come with a 2-remote receiver; three phase with a controller and remote.

Patented chain
New-model chain adjusting mechanism, patent ZL 2004 2 0087351.2.

1.3 Working Conditions

PARAMETER	SINGLE PHASE (1P)	THREE PHASE (3P)
Supply	240 V, 50 Hz	415 V, 50 Hz
Continuous run	Up to 7 minutes	Up to 12 minutes
Temperature / humidity	-15 to +45°C · relative humidity ≤ 95% (at 40°C)	
Mounting height	At least 2.5 m above the floor or an accessible passage	

11 MODELS · 400 TO 4000 KG — Pick the motor by shutter weight, then check width and roll size

2.1 All Models

MODEL	FACTORY CODE	LOAD KG	PHASE	POWER W	TORQUE N·m	SPEED r/min	MAX HEIGHT m	MAX ROLL Ø m	WEIGHT kg
ECR400	ECR-225-1P	400	1P	600	225	5.0	6	0.38	11.0
ECR600	ECR-412-1P	600	1P	710	412	4.8	6	0.38	12.2
ECR800	ECR-647-1P	800	1P	920	647	4.0	7	0.42	14.2
ECR1000 1PH	ECR-809-1P	1,000	1P	1,013	809	3.5	8	0.47	14.2
ECR1300 1PH	ECR-1401-1P	1,300	1P	1,985	1,401	4.4	7	0.45	23.5
ECR1500 1PH	ECR-1617-1P	1,500	1P	1,768	1,617	3.3	9	0.48	28.0
ECR1000 3PH	ECR-809-3P	1,000	3P	780	809	3.5	8	0.47	14.2
ECR1500 3PH	ECR-1617-3P	1,500	3P	1,250	1,617	5.2	8	0.48	23.5
ECR2000 3PH	ECR-2450-3P	2,000	3P	1,350	2,450	3.6	12	0.65	27.5
ECR2500 3PH	ECR-3062-3P	2,500	3P	2,660	3,062	4.0	12	0.65	28.0
ECR4000 3PH	Heavy duty	4,000	3P	Heavy-duty industrial model — data sheet on request					

1P = 240 V single phase. 3P = 415 V three phase. Max lifting height is for 15 mm slats.

2.2 How to Choose the Motor

Step 1 · Shutter weight

- Weight G = material weight per m² × width × height.
- Add 10–20% margin: selection weight = G × 1.1 to 1.2.
- Choose the motor whose rated load is equal to or above this weight.

Step 2 · Width & pipe

- For doors wider than 5 m and heavier than 350 kg, use seamless, zinc-plated pipe thicker than 3 mm.
- Keep pipe deflection below L/400 to protect the motor gear.
- Single-phase motors are sensitive to low voltage — check site supply.

SHUTTER MATERIAL	KG / m²
Aluminium alloy	5 – 6
Grille / net door	12
PVC-coated steel	8 – 14
Stainless steel	10 – 18
Fire-rated door	25 – 36

Example

GI steel shutter 4 m × 4 m at 12 kg/m² = 192 kg × 1.2 = 230 kg → **ECR400**.

SINGLE PHASE

JIELONG ECR400

Factory model ECR-225-1P



Rated lifting load	400 kg
Power supply	240 V, 50 Hz, single phase
Input power	600 W
Output torque	225 N·m
Output speed	5.0 r/min
Max lifting height	6 m (15 mm slats)
Max roll diameter	0.38 m
Chain	No. 10A
Motor weight	11.0 kg
Duty	Up to 7 min continuous

DRUM INSTALLATION DATA

Shaft D2	Pipe D3	L (mm)	C (mm)	Bearing
Φ30	4″	35	3	206

400 KG

Complete set: Motor with side plates · chain wheel & chain · drum axle & support · remote set (2 remotes + receiver)

SINGLE PHASE

JIELONG ECR600

Factory model ECR-412-1P



Rated lifting load	600 kg
Power supply	240 V, 50 Hz, single phase
Input power	710 W
Output torque	412 N·m
Output speed	4.8 r/min
Max lifting height	6 m (15 mm slats)
Max roll diameter	0.38 m
Chain	No. 10A
Motor weight	12.2 kg
Duty	Up to 7 min continuous

DRUM INSTALLATION DATA

Shaft D2	Pipe D3	L (mm)	C (mm)	Bearing
Φ35	5″	35	4	207

600 KG

Complete set: Motor with side plates · chain wheel & chain · drum axle & support · remote set (2 remotes + receiver)

SINGLE PHASE

JIELONG ECR800

Factory model ECR-647-1P

Rated lifting load	800 kg
Power supply	240 V, 50 Hz, single phase
Input power	920 W
Output torque	647 N·m
Output speed	4.0 r/min
Max lifting height	7 m (15 mm slats)
Max roll diameter	0.42 m
Chain	No. 10A
Motor weight	14.2 kg
Duty	Up to 7 min continuous



800 KG

DRUM INSTALLATION DATA

Shaft D2	Pipe D3	L (mm)	C (mm)	Bearing
Φ35	6″	45	5	207

Complete set: Motor with side plates · chain wheel & chain · drum axle & support · remote set (2 remotes + receiver)

SINGLE PHASE

JIELONG ECR1000 1PH

Factory model ECR-809-1P

Rated lifting load	1,000 kg
Power supply	240 V, 50 Hz, single phase
Input power	1,013 W
Output torque	809 N·m
Output speed	3.5 r/min
Max lifting height	8 m (15 mm slats)
Max roll diameter	0.47 m
Chain	No. 10A
Motor weight	14.2 kg
Duty	Up to 7 min continuous



1,000 KG

DRUM INSTALLATION DATA

Shaft D2	Pipe D3	L (mm)	C (mm)	Bearing
Φ40	6″	45	5	208

Complete set: Motor with side plates · chain wheel & chain · drum axle & support · remote set (2 remotes + receiver)

SINGLE PHASE

JIELONG ECR1300 1PH

Factory model ECR-1401-1P



Rated lifting load	1,300 kg
Power supply	240 V, 50 Hz, single phase
Input power	1,985 W
Output torque	1,401 N·m
Output speed	4.4 r/min
Max lifting height	7 m (15 mm slats)
Max roll diameter	0.45 m
Chain	No. 12A
Motor weight	23.5 kg
Duty	Up to 7 min continuous

DRUM INSTALLATION DATA

Shaft D2	Pipe D3	L (mm)	C (mm)	Bearing
Φ40	8″	45	12	UCF208

1,300 KG

Complete set: Motor with side plates · chain wheel & chain · drum axle & support · remote set (2 remotes + receiver)

SINGLE PHASE

JIELONG ECR1500 1PH

Factory model ECR-1617-1P



Rated lifting load	1,500 kg
Power supply	240 V, 50 Hz, single phase
Input power	1,768 W
Output torque	1,617 N·m
Output speed	3.3 r/min
Max lifting height	9 m (15 mm slats)
Max roll diameter	0.48 m
Chain	No. 12A
Motor weight	28.0 kg
Duty	Up to 7 min continuous

DRUM INSTALLATION DATA

Shaft D2	Pipe D3	L (mm)	C (mm)	Bearing
Φ40	8″	55	12	UCF208

1,500 KG

Complete set: Motor with side plates · chain wheel & chain · drum axle & support · remote set (2 remotes + receiver)

THREE PHASE



1,000 KG

JIELONG ECR1000 3PH

Factory model ECR-809-3P

Rated lifting load	1,000 kg
Power supply	415 V, 50 Hz, three phase
Input power	780 W
Output torque	809 N·m
Output speed	3.5 r/min
Max lifting height	8 m (15 mm slats)
Max roll diameter	0.47 m
Chain	No. 10A
Motor weight	14.2 kg
Duty	Up to 12 min continuous

DRUM INSTALLATION DATA

Shaft D2	Pipe D3	L (mm)	C (mm)	Bearing
Φ40	6″	45	5	208

Complete set: Motor with side plates · chain wheel & chain · drum axle & support · 3-phase controller with remote

THREE PHASE



1,500 KG

JIELONG ECR1500 3PH

Factory model ECR-1617-3P

Rated lifting load	1,500 kg
Power supply	415 V, 50 Hz, three phase
Input power	1,250 W
Output torque	1,617 N·m
Output speed	5.2 r/min
Max lifting height	8 m (15 mm slats)
Max roll diameter	0.48 m
Chain	No. 16A
Motor weight	23.5 kg
Duty	Up to 12 min continuous

DRUM INSTALLATION DATA

Shaft D2	Pipe D3	L (mm)	C (mm)	Bearing
Φ40	8″	55	12	UCF208

Complete set: Motor with side plates · chain wheel & chain · drum axle & support · 3-phase controller with remote

THREE PHASE



2,000 KG

JIELONG ECR2000 3PH

Factory model ECR-2450-3P

Rated lifting load	2,000 kg
Power supply	415 V, 50 Hz, three phase
Input power	1,350 W
Output torque	2,450 N·m
Output speed	3.6 r/min
Max lifting height	12 m (15 mm slats)
Max roll diameter	0.65 m
Chain	No. 16A
Motor weight	27.5 kg
Duty	Up to 12 min continuous

DRUM INSTALLATION DATA

Shaft D2	Pipe D3	L (mm)	C (mm)	Bearing
Φ60	10''	L 85 / R 120	16	UCF212

Complete set: Motor with side plates · chain wheel & chain · drum axle & support · 3-phase controller with remote

THREE PHASE



2,500 KG

JIELONG ECR2500 3PH

Factory model ECR-3062-3P

Rated lifting load	2,500 kg
Power supply	415 V, 50 Hz, three phase
Input power	2,660 W
Output torque	3,062 N·m
Output speed	4.0 r/min
Max lifting height	12 m (15 mm slats)
Max roll diameter	0.65 m
Chain	No. 16A
Motor weight	28.0 kg
Duty	Up to 12 min continuous

DRUM INSTALLATION DATA

Drum & bearing data for this model supplied with the order.

Complete set: Motor with side plates · chain wheel & chain · drum axle & support · 3-phase controller with remote

THREE PHASE



4,000 KG

JIELONG ECR4000 3PH

Factory model Heavy duty

Rated load	4,000 kg
Supply	415 V, 50 Hz, three phase
Application	Industrial, warehouse & heavy fire-rated shutters
Technical data	Full data sheet supplied with order / on request
Controller	3-phase controller with remote

DRUM INSTALLATION DATA

Drum & bearing data for this model supplied with the order.

Complete set: Motor with side plates · chain wheel & chain · drum axle & support · 3-phase controller with remote

Recommended with heavy shutters

- Fit a **JIELONG safety brake** (JL 708 or JL 1017) so the shutter cannot fall if the drive fails.
- Add a **photocell** to stop and reverse the shutter if anything is under the door.
- Use a **phase changer** where the supply phase sequence is not fixed.

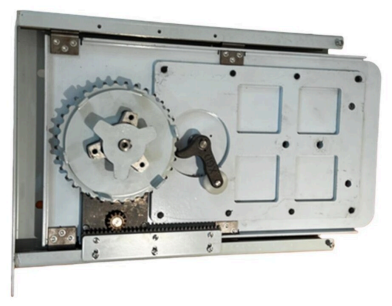
KEEP SITES RUNNING — Replace only the part that is needed

Motor Only — ECR 400 – 2000



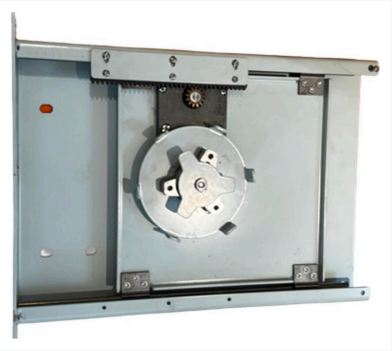
Motor head without bracket. Available for 400, 600, 800, 1000 (1P/3P), 1300, 1500 (1P/3P) and 2000 kg (3P).

Bracket · Main Plate — SIDE PLATE



Chain-wheel support plate with chain wheel, matched to each motor size.

Bracket · Sub Plate — BEARING SIDE



Opposite-side bearing plate for the drum axle.

4.1 What Comes in a Complete Set

Mechanical

- Chain wheel support (side plate) × 1
- Big chain wheel with axle connection × 1
- Rolling chain × 1
- Drum core axle × 1
- Axle and axle support × 1 set

Control

- Single phase: remote set — 2 remotes with receiver/controller
- Three phase: 3-phase controller with remote
- Hand chain for manual operation
- Operation manual

4.2 Bracket Sizes

BRACKET FOR	PHASE	DRUM PIPE	BEARING
ECR 400	1P	4″	206
ECR 600	1P	5″	207
ECR 800	1P	6″	207
ECR 1000	1P / 3P	6″	208
ECR 1300	1P	8″	UCF208
ECR 1500	1P / 3P	8″	UCF208
ECR 2000	3P	10″	UCF212

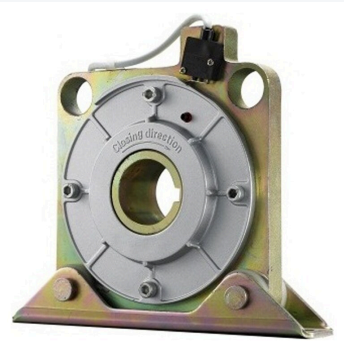
STOP A FALLING SHUTTER — The safety brake holds the shutter if the drive fails

Safety Brake JL 708 — STANDARD



Anti-fall brake fitted on the drum axle for standard industrial shutters.

Safety Brake JL 1017 — FOR 2000 KG



Heavy-duty anti-fall brake for 2000 kg motors and large shutters.

Remote Set — 2 REMOTES + RECEIVER



Receiver/controller with two remotes. Single remotes also available.

5.1 Accessories & Spares

ITEM	DESCRIPTION	SUITS
Extra chain	Additional chain length, per metre	Up to 1000 kg / above 1000 kg
Housing box	Housing box with top SS box, lock and 3 keys	All models
Foot mounting	Floor/foot mounting kit	800 – 1000 kg
Limit switch assembly	Position limiter with joggling switches	400–800 kg / 1000–2000 kg
Bracket chain	Drive chain for the bracket chain wheel	400–600 kg / 800–1000 kg
Relay	Control relay	400 – 600 kg
Phase changer	Automatic phase-sequence correction for 3-phase motors	3-phase models
Industrial push button	3-station up / stop / down push button	All models

5.2 Optional Safety Devices



Photocell — stops and lifts the shutter if something is under it.



Infrared sensor — beam safety for wide openings.



UPS backup — runs the shutter during a power cut.



Smoke & heat sensor — for fire-rated shutters.

Also available: Bluetooth & Wi-Fi controller, wireless wall switch, key switch and safety edge.

06 DC Motors with Battery Backup

ON REQUEST

JIELONG JIE LONG SHUTTER MOTORS LTD.

KEEPS WORKING IN A POWER CUT — ECRD series · DC 24 V drive with built-in UPS

The **JIELONG ECRD** series runs on a safe 24 V DC drive. Mains power is converted to DC; if the power fails, the control box switches to its two built-in 12 V / 4 Ah batteries and the shutter can still open and close about **20 times**.

ECRD-225 — 400 KG



Input power	**288 W**
Torque	**225 N·m**
Speed	**3.5 r/min**
Max roll Ø	**0.38 m**
Weight	**14.9 kg**

ECRD-412 — 600 KG



Input power	**360 W**
Torque	**412 N·m**
Speed	**3.8 r/min**
Max roll Ø	**0.38 m**
Weight	**17.9 kg**

ECRD-647 — 800 KG



Input power	**456 W**
Torque	**647 N·m**
Speed	**3.0 r/min**
Max roll Ø	**0.42 m**
Weight	**22.7 kg**

In the box

- Bracket and side board, big chain wheel, roller chain
- Drum core axle, axle and support, gearing and support discs
- Control box with batteries, 2 remote handsets

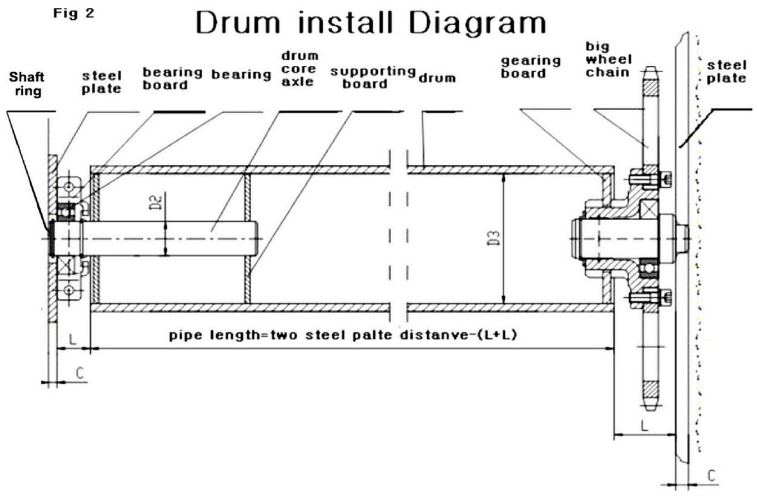
Features

- Over-current protection, photocell input
- Left or right mounting · -15 to +45°C
- Continuous run up to 10 minutes

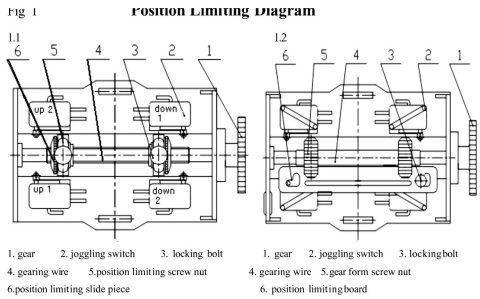
ECRD models are supplied on order. Ask SIE for current price and lead time.

DRUM, BEARING & LIMIT SETTING

Pipe length = distance between steel plates - (L + L)



MOTOR	D2 AXLE	D3 PIPE	L mm	C mm	BEARING
400 kg	Φ30	4″	35	3	206
600 kg	Φ35	5″	35	4	207
800 kg	Φ35	6″	45	5	207
1000 kg	Φ40	6″	45	5	208
1300 kg	Φ40	8″	45	12	UCF208
1500 kg	Φ40	8″	55	12	UCF208
2000 kg	Φ60	10″	L 85 / R 120	16	UCF212



Position limiter: screw-cap slide piece (left) or gear-form limiting board (right).

7.1 Key Installation Points

Mounting

- Install level; drum axle must be concentric and horizontal.
- Adjust hand-chain sag to 3–6 mm before hanging the shutter.
- Side plate can be fixed at 0–45°; turn the brake shell so the hand chain hangs vertically.
- Earth the motor through the chain-wheel plate or control box.

Testing

- Lift the door 1 m with the hand chain, then test up / stop / down.
- Set the upper and lower limits until the switch clicks; tighten the locking bolt.
- On 3-phase, stop at once if the door runs the wrong way and swap the phase order.
- Fit the control box on a dry wall at least 1.5 m high.

Genuine JIELONG motors, supported by SIE in India.

Smart India Enterprises supplies JIELONG ECR rolling shutter motors, spares and safety brakes to dealers, fabricators and end users. Orders, technical help and spare parts from our Mumbai office.

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