



Nantong Xingxiang
Friction Electromechanical
Co.Ltd

南通兴翔
摩擦机电有限公司



企业产品手册

Product manuals

ABOUT US

**Cooperate together to realize our wishes and
create brilliance together**





COMPANY INTRODUCTION



Nantong Xinaxiang Friction Electromechanical Co.LTD., founded in 2003, focus on the drive unit、 motor、 reducer and safety device, which is widely used on the construction hoist.

The company is located in Jinhai industrial park, Qidong City Jiangsu Province, covers an area of 10,000 square meters. The company has large CNC machine center, die-casting machine, laser cutting machine, CNC lathes and other production equipment. The equipment layout is reasonable and the processing ability is strong. The key parts of our main products are produced by ourselves, and the quality is strictly controlled.

In order to provide customers with first-class products. we have introduced the high-quality technical and management personnel. And has established a close cooperative relationship with domestic research institutes.

We uphold the business philosophy of "focus on professional goals, gather quality first, and continue to innovate", carry forward the enterprise spirit of "advancing with the time and pursuing excellence", and constantly explore the development of new fields. In good faith and pragmatic, we welcomes customers from all over the world to come and patronize, develop together, create brilliant!

XINGXIANG HISTORY

- **1993** The establishment of the offshore town friction material factory, the main production of electrical machinery dynamic friction materials.
- **1997** Introduction of the sand process, manual lathes, milling machine number, production of aluminum lifting motor brake hub.
- **2003** Nantong Xingxiang Friction Mechanical and Electrical Co., LTD was established, and SAJ series anti-fall safety devices for elevators were produced by introducing anti-fall test bench, die casting machine, CNC lathe, machining center, etc.
- **2004** The motor test bench was introduced to produce three-phase asynchronous motor for elevator construction.
- **2005** Start production of elevator reducer for construction.
- **2013** The tenth anniversary of the company.
-

FUTURE

In the future, Xingxiang will be more confident,
To provide users with better and more products and services,
to make contributions to the development of architecture.

MANAGEMENT IDEA

- Quality first The pursuit of perfect products to meet customer needs
- Focus on professional Focus on the construction of lift supporting facilities
- The target concentration Narrow the scope to gain competitive advantage
- Continuous innovation Continuous improvement, innovation, research and development of new products



CATALOGUE

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SAJ series anti-fall safety device for construction hoist



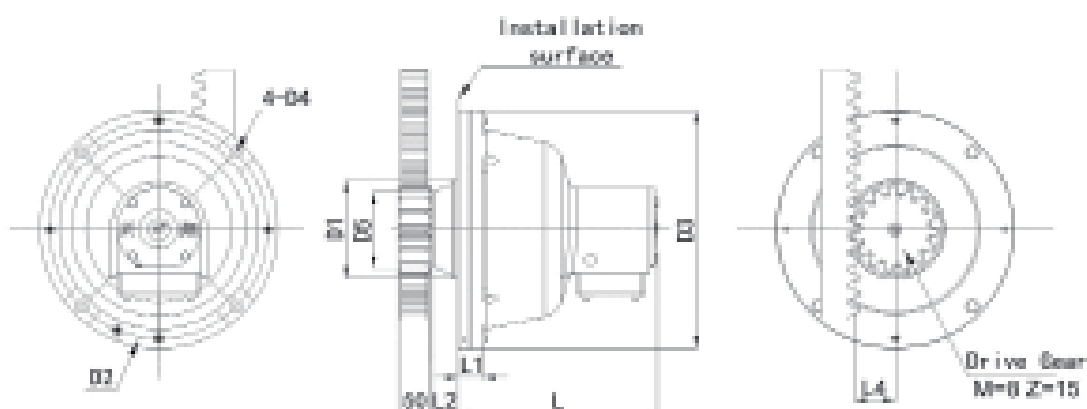
■ Product features

1. The shell is die-cast with high strength aluminum alloy
2. The gear shaft is made of high quality material and operates smoothly. Low noise
3. Convenient adjustment, fast braking, safe and reliable
4. Action speed can be customized according to demand

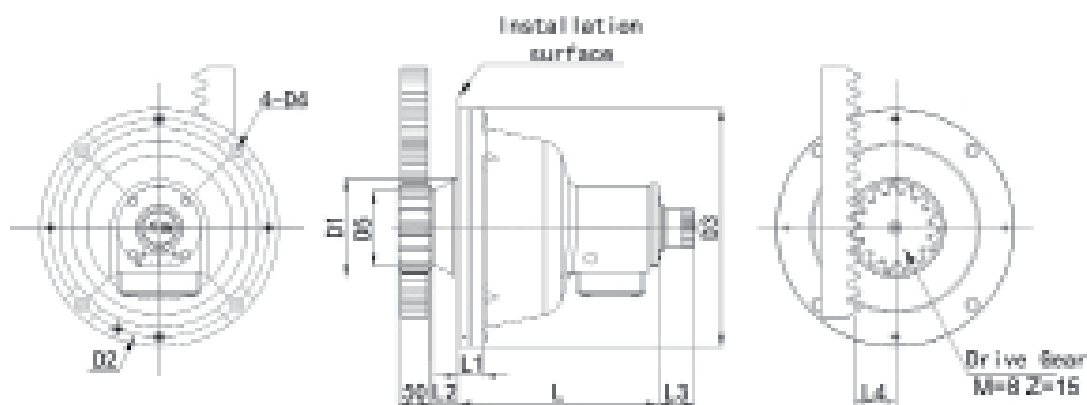
■ Product parameters

Type of anti-fall safety device	SAJ30-1.2	SAJ30-1.4	SAJ40-1.2	SAJ40-1.4S	AJ50-1.2	SAJ50-1.4S	AJ40-1.6AS	AJ40-2.0	SAJ50-2.0
Rated braking load /kN	30		40		50		40		50
Calibrate the speed of action /m/s	According to GB/T34025-2017, set the start speed of the safety device according to the running speed of the protected target to be limited								
Weight of anti-fall safety device /kg	35		50				56		
Fit with the outside diameter of stop D1	Φ150f9						Φ140f9		
Mounting hole indexing diameter D2	Φ284		Φ330						
Outer diameter of mounting flange D3	Φ310		Φ360						
Outer diameter of mounting hole D4	Φ15		Φ17						
Diameter of gear indexing circle D5	Φ120						Φ96		
Length of body L	257		352						
Mounting flange thickness L7	27		33						
Neck mounting length L2	43		45						
Tail release mechanism length L3	无			55					
Axis sawtooth bar dividing line L4	60+0.60 +0.30						64+0.60 +0.30		
Gear template M, tooth number Z	No transition gear m=8,z=15						Have Transition gear (Intermediate gear:m=8,z=12, Transition gear:m=8,z=16)		

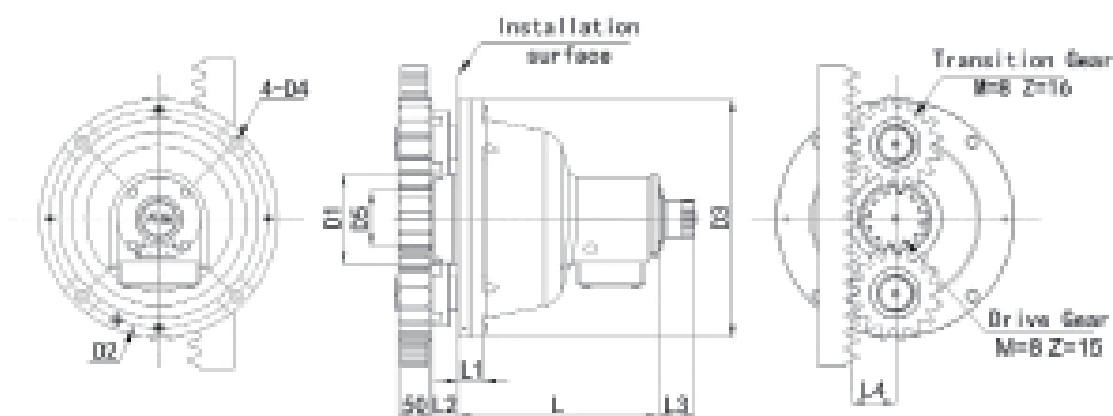
■ Installation case of fall arrester



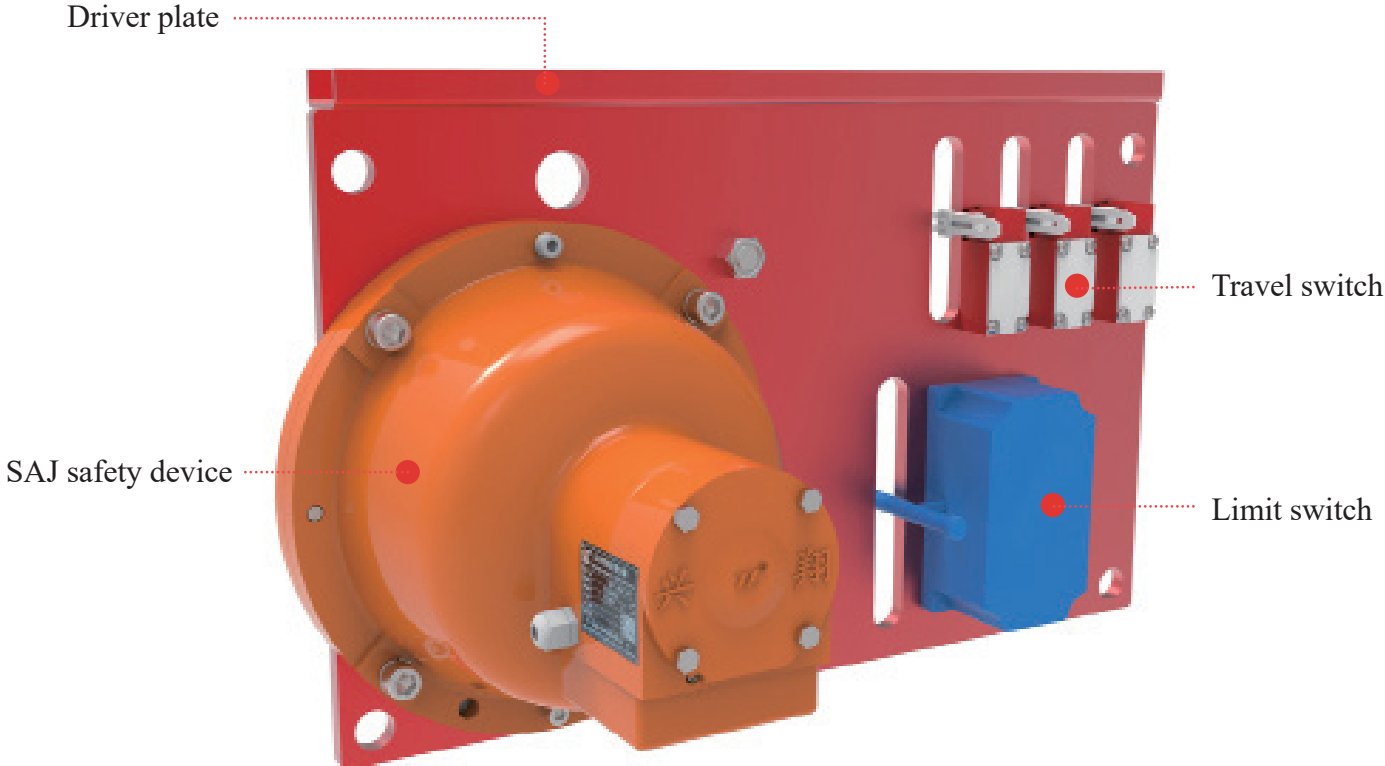
No tail release device SAJ series fall safety device



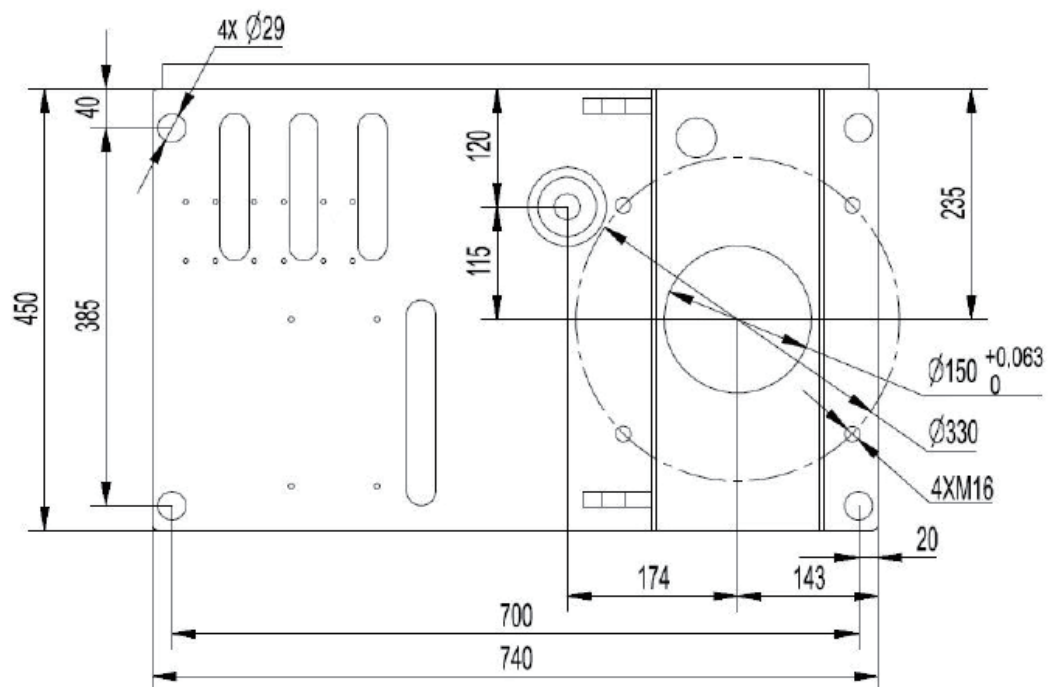
SAJ series fall safety device with tail release device



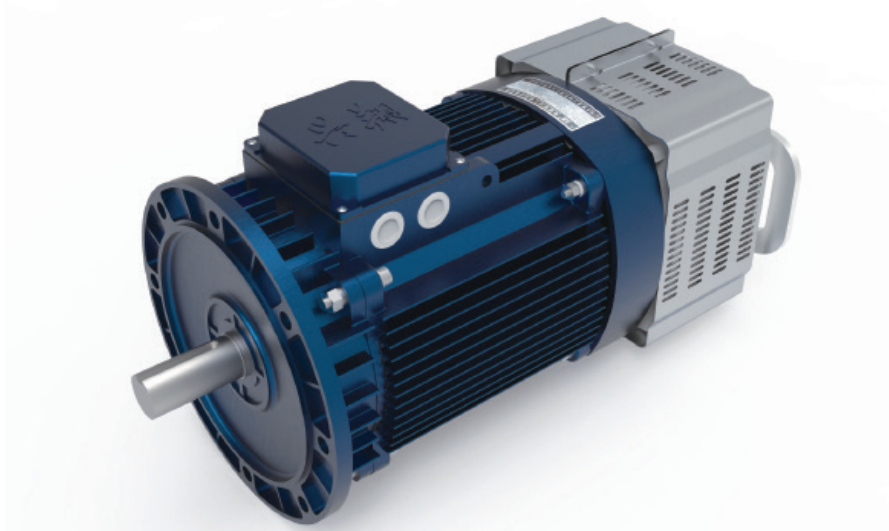
SAJ series anti fall safety device
with transition gear and release device at tail



■ Installation diagram of drive plate of SAJ safety device



YZE132 series electromagnetic brake three-phase asynchronous motor for construction elevators



■ Product features

1. The shell is made of high strength aluminum alloy die casting
2. All copper coil ensures efficient and stable operation of the motor
3. High quality bearings ensure the service life of the motor
4. Integrated die-casting motor rotor, after dynamic balance test to ensure smooth operation, low noise
5. Using electromagnetic brake brake device, braking is stable and fast

■ Product parameters

Table of main parameters of motor										
Product model	Rated power(KW)	Rated current(A)	Rated speed(r/min)	Working system	Frequency (HZ)	connection	Insulation class	Locked-rotor current(A)	Locked-rotor distance	Protection grade
YZE132S1-4	7.5	18	1400	S3-25%	50	Y	F	93	2.5	IP55
YZE132S2-4	9	20						110		
YZE132M1-4	11	24						136		
YZE132M2-4	12	27						158		
YZE132M4-4	13	30						163		
YZE132L1-4	15	34						221		
YZE132L3-4	18.5	41						266		
Main parameters of DC brake										
Rated DC voltage(v)		Rated braking moment (N.M)	Insulation class	Protection grade	Onboard motor power					
195		120	F	IP23	7.5					
					9					
					11					
		150			12					
					13					
					15					
					18.5					

YZEP132 series electromagnetic brake three-phase asynchronous motor for construction elevator



■ Product features

1. The shell is made of high strength aluminum alloy die casting
2. All copper coil ensures efficient and stable operation of the motor
3. High quality bearings ensure the service life of the motor
4. Integrated die-casting motor rotor, after dynamic balance test to ensure smooth operation, low noise
5. The new type brake brake device can brake quickly and smoothly

■ Product parameters

Table of main parameters of motor

Product model	Rated power(KW)	Rated current(A)	Rated speed(r/min)	Working system	Frequency (HZ)	connection	Insulation class	Locked-rotor current(A)	Locked-rotor distance	Protection grade
YZEP132M	7.5	18	1400	S3-25%	50	Y	F	93	2.5	IP55
YZEP132S2-4	9	20						110		
YZEP132M1-4	11	24						136		
YZEP132M2-4	12	27						158		
YZEP132M4-4	13	30						163		
YZEP132L1-4	15	34						221		
YZEP132L3-4	18.5	41						266		

Main parameters of DC brake

Rated DC voltage(v)	Rated braking moment (N.M)	Insulation class	Protection grade
195	200	F	IP23

TCW series worm gear reducer



■ Product features

1. The shell is made of high strength aluminum alloy die casting.
2. Worm gear grinding process, smooth work, small vibration, low noise.
3. Low oil temperature, strong gluing resistance, high transmission efficiency and good process performance.
4. Use high quality oil seal to reduce oil leakage.

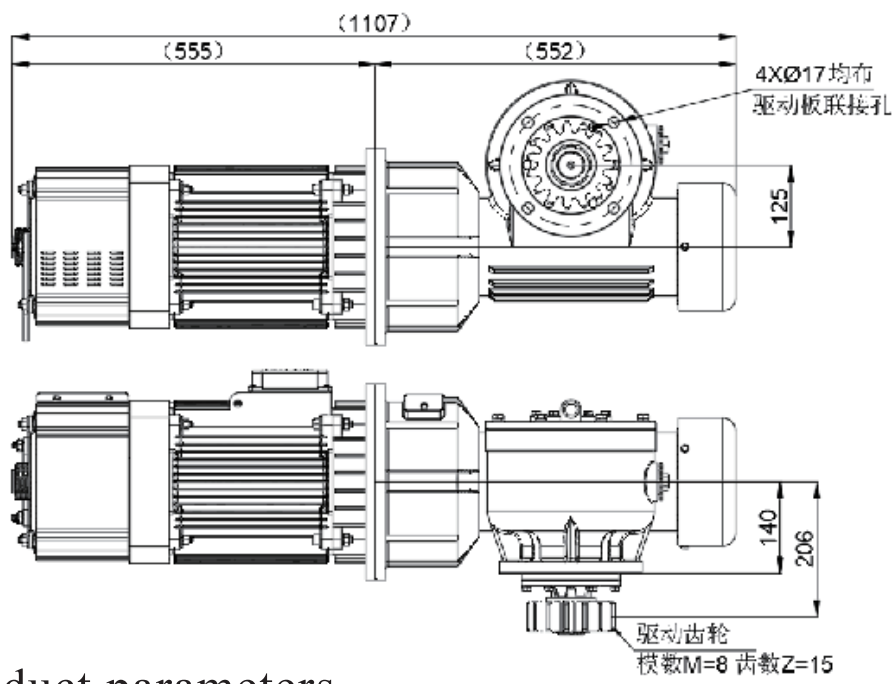
■ Product parameters

Product model	The product name	Center distance	Transmission ratio(i)	Input speed (r/min)	Transmission efficiency(%)
TCW-125-10	TCW worm-gear reducer for construction hoist	125	10	1400	≥80
TCW-125-16			16		
TCW-125-18			18		
TCW-125-20			20		

TCW series reducer transmission unit for construction elevator



■ Product mix



■ Product parameters

Product model	The product name	Transmission ratio(i)	Center distance (mm)	The motor power(kw)	Motor input speed(r/min)	Transmission efficiency (%)	Output torque N.M	Weight of a set of transmission units (kg)	Number of transmission units	Speed (m/min)
TCW125-10-15	TCW worm-gear transmission unit	10	125	15	1400	≥80	818	1390	3	53
TCW125-10-18.5				18.5			1010	1717		53
TCW125-16-11		16		11			960	1632	2	33
TCW125-18-13		18		13			1276	2170		30
TCW125-20-15		20		15			1637	2784	1	27

TSK series hard gear surface reducer



■ Product features

1. The shell is made of high strength aluminum alloy with low pressure die casting
A integrated
2. Hypoid gear drive, greater coincidence,
Higher working strength, large bearing capacity, less noise, more stable transmission, long service life
3. Use high quality oil seal to reduce oil leakage
4. High efficiency, low energy consumption

■ Product parameters

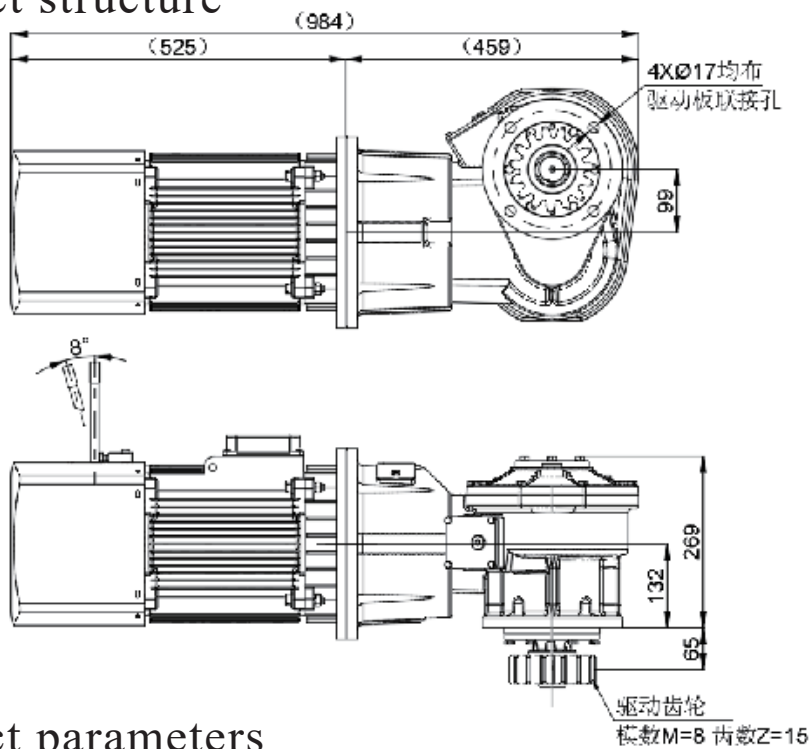
Product model	The product name	Center distance	Transmission ratio(i)	Input speed (r/min)	Transmission efficiency(%)
TSK99A-16	TSK series hard gear reducer for construction elevator	99	16	1400	95
TSK99A-20			20		



TSK series gear reducer transmission unit for construction elevator



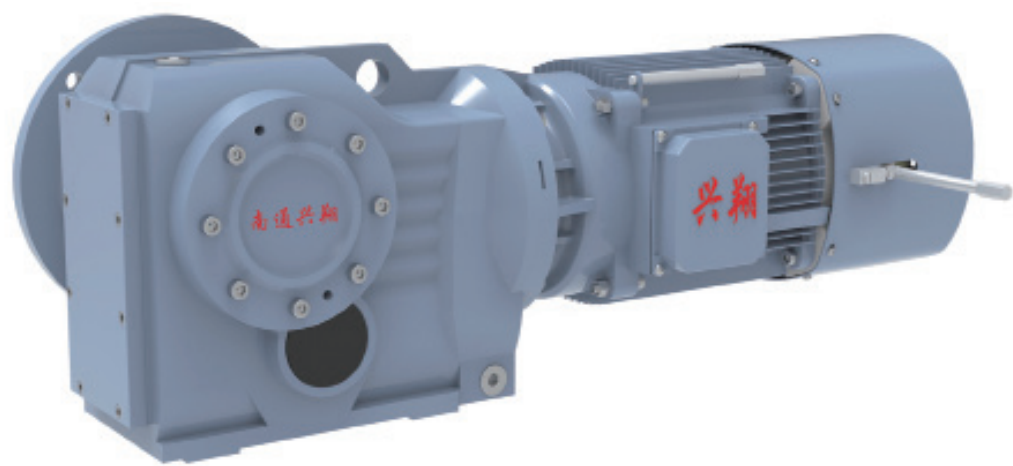
■ Product structure



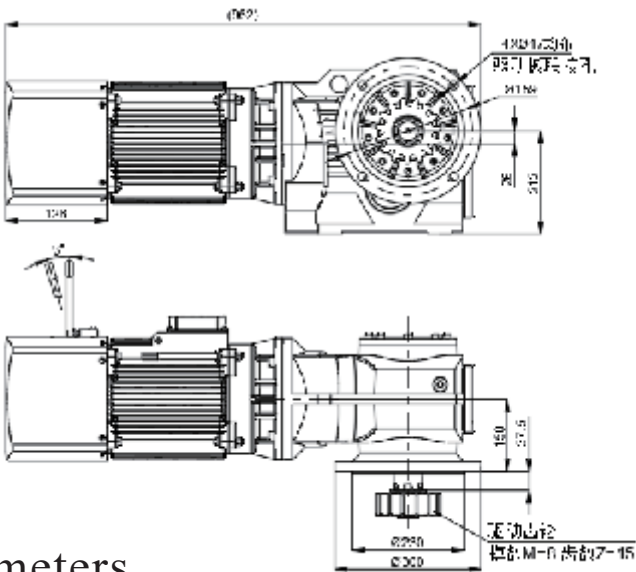
■ Product parameters

Product model	The product name	Transmission ratio(i)	Center for high(mm)	The motor power(kw)	Motor input speed(r/min)	Transmission efficiency (%)	Output torque N.M	A set of transmission units lifts the weight(kg)	Number of transmission units	Speed (m/min)
TSK99A-16-13	TSK series hard-gear reducer transmission unit	16	99	13	1400	≥95	1347	2290	2	33
TSK99A-20-15		20	99	15			1944	3306	1	27

XX77/XX87 series transmission unit for construction elevator



Product structure



Product parameters

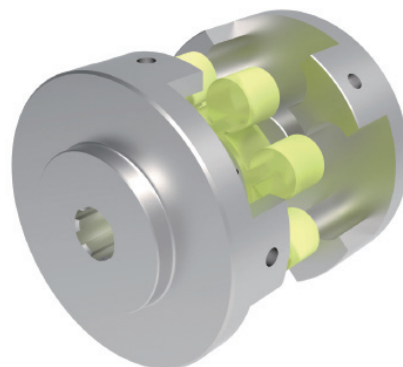
Product model	The product name	Transmission ratio(i)	Center for high(mm)	The motor power(kw)	Motor input speed(r/min)	Transmission efficiency (%)	Output torque N.M	A set of transmission units lifts the weight(kg)	Number of transmission units	Speed (m/min)
XX77-16-13/15	K series reducer transmission unit for construction elevator	16	26	13/15	1400	≥95	818	1390	2	33
XX77-20-13/15		20		13/15			1010	1717	1	27
XX87-16-13/15		16		13/15			960	1632	2	33
XX87-20-13/15		20		13/15			1276	2170	1	27
Product model	The product name	Transmission ratio(i)	Center for high(mm)	The motor power(kw)	Motor input speed(r/min)	Transmission efficiency (%)	Output torque N.M	A set of transmission units lifts the weight(kg)	Number of transmission units	Speed (m/min)
XX87-16-HZ87	TSK series hard-gear reducer transmission unit	16	26	11/19	1460-2520	≥95	1090	1853	3	0-62
XX87-22-HZ87	K Series transmit mechanism	22	26	11/19	1460-2520	≥95	1558	2649	2	0-43

Product Accessories Catalogue

■ Drive gear



■ coupling



■ XDZ1 power loss brake



■ Friction plate

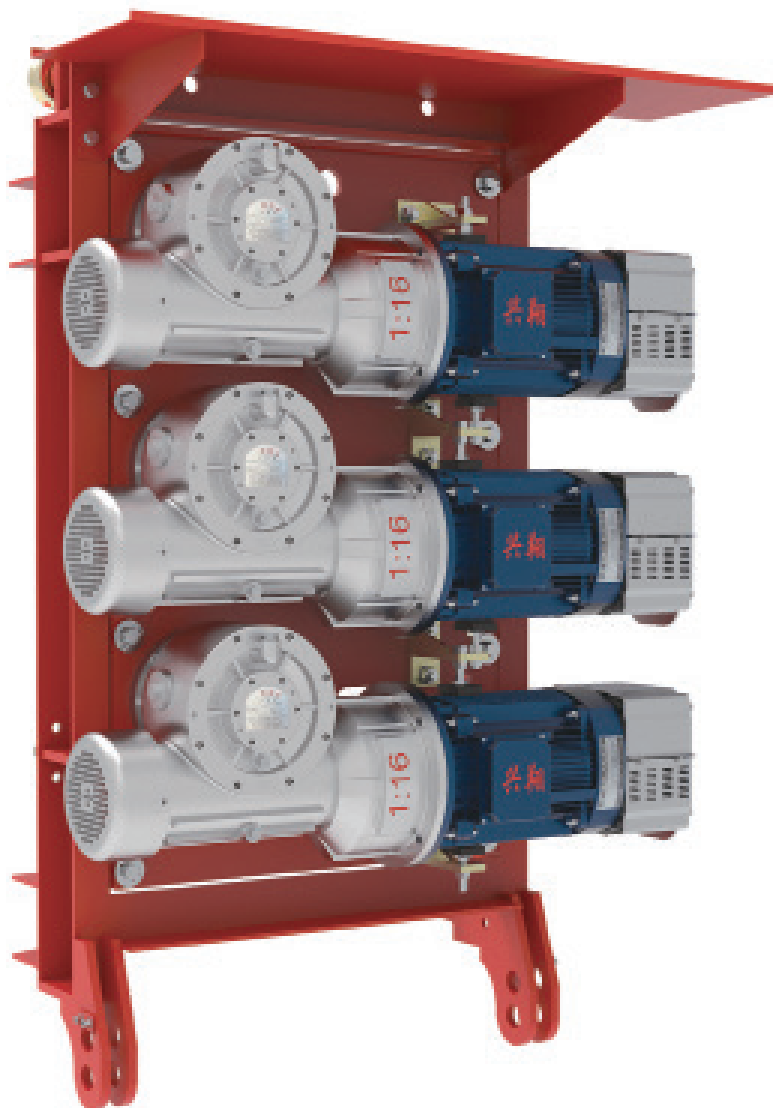


■ Electromagnetic brake assembly

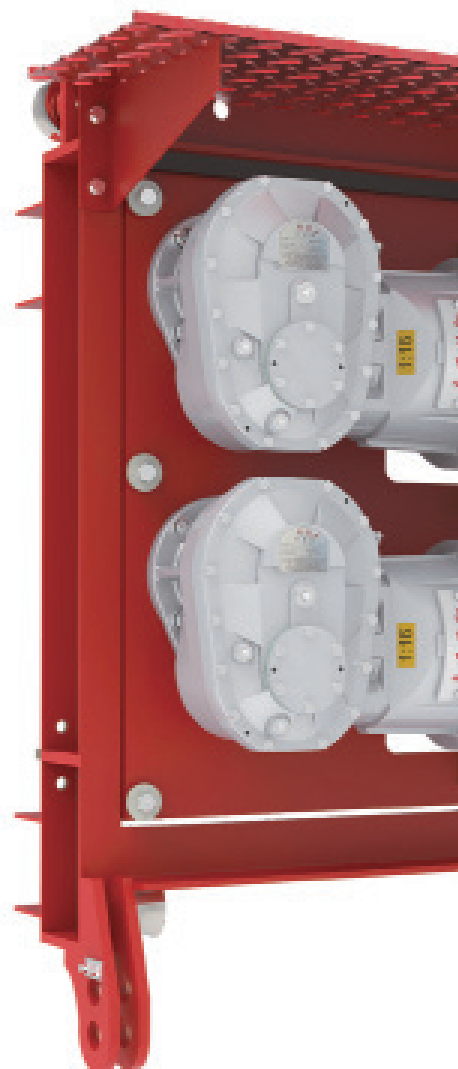


Example of driving mechanism installation (Support for custom)

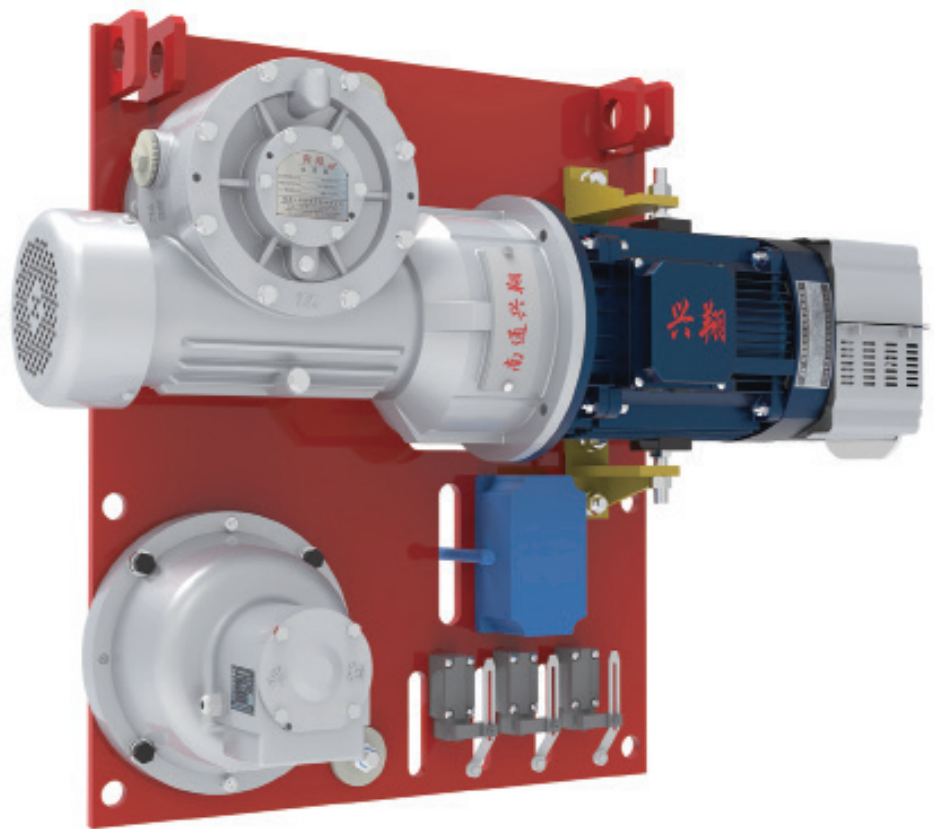
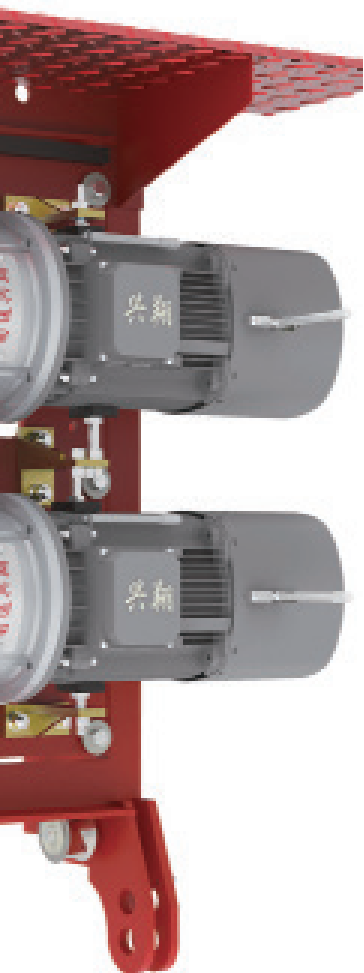
- Three-drive $3 \times 11\text{KW}$ 、
TCW worm gear reducer



- Double-drive $2 \times 13\text{KW}$ 、
TSK99A reducer



- TCW worm gear reducer with SAJ30 anti-fall safety device integrated installation single drive



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