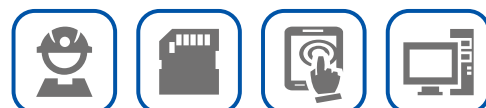


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SHENYANG BLUELIGHT DRIVE THE FUTURE



[HTTP://WWW.SYLG.CN](http://www.sylg.cn)

Revised June 2025

Shenyang Bluelight Drive Technology Co.,Ltd.

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ADD: No.37 Shiji Road, Hunnan New District,
Shenyang, China ZIP: 110179



Shenyang Bluelight Drive Technology Co.,Ltd.

ABOUT US

- Established in 1989, Bluelight is a leading manufacturer of elevator control systems and gearless permanent magnet synchronous machines. It is member of China Elevator Association and an enterprise certified by ISO9001.
- Shenyang BlueLight has also built production base in Guangdong and Zhejiang province. Guangdong Plant has floor space of 10,000 m² with annual production capacity 30,000 units. Zhejiang Plant has floor space of 10,000 m² with annual production capacity 30,000 units.
- From 1998, Shenyang Bluelight started development of gearless permanent magnet synchronous machines. With a R&D team leading by two doctors experts in motor, Bluelight cooperated constantly with domestic universities, overseas well-known companies for exchange of technology and successfully developed the first gearless permanent magnet synchronous machines in October, 2000. After several technical improvements, Bluelight passed the national EMC testing in July, 2001 and successfully obtained certification. Meanwhile, the machines had been launched into mass production. Shenyang Bluelight has granted several patents of gearless permanent magnet synchronous machines and owned all the knowledge property rights.
- Nowadays, Bluelight gearless machines are widely used in China and some of the products have been sold to Europe, America, Korea, Japan, Taiwan, Middle East, Southeast Asia etc. Relying on the excellent characteristics such as low noise, low vibration, smooth and comfortable running etc., Bluelight gearless machines are being recognized by more and more elevator manufacturers.



Shenyang Head Quarters



Fushun Plant



Zhaoqing Plant



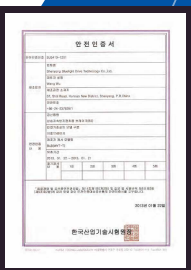
Zhejiang Plant

COMPANY QUALIFICATION

1. ISO9001
2. KTL Issue KC Certification
3. National high-tech Enterprise
4. China Invention Exhibition
5. Type-examination Certificate of Special Equipment
6. Patent Certificate
7. CE Certification



1



2



3



4



5



6



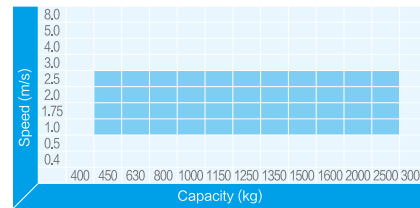
7



01 WYT-T STANDARD SERIES

- WYT-T PM TRACTION MACHINE (TM/TS/TF/TD/TE)

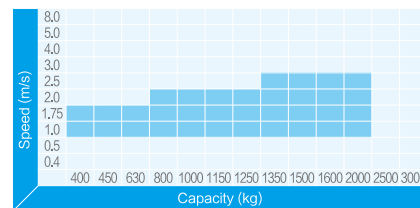
----- 01/06



02 WYT-L COMFORTABLE SERIES

- WYT-L MACHINE ROOMLESS VERSION

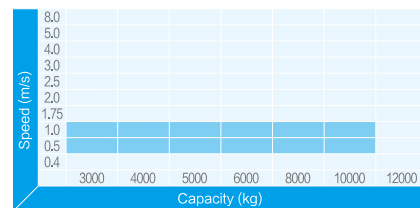
----- 07/10



03 WYT-TD/TE/V/V1S FREIGHT ELEVATOR SERIES

- WYT(TD/TE/V/V1S) FREIGHT ELEVATOR VERSION

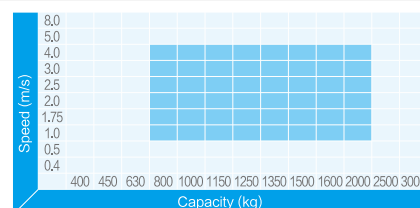
----- 11/18



04 WYT-J/H HIGH SPEED SERIES

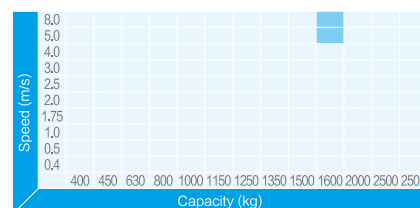
- WYT-J DOUBLE WRAP VERSION

----- 19/20



- WYT-H ULTRA-HIGH SPEED VERSION

----- 21/22

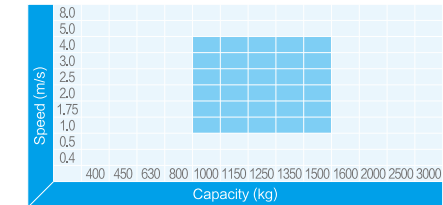


MACHINE TYPE RECOMMENDATION TABLE

05 WYT-V/V1S HEAVY LOAD SERIES

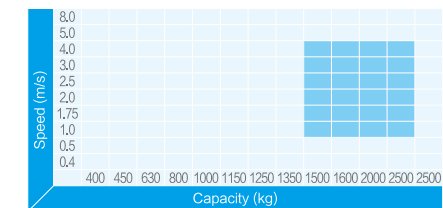
- WYT-V

----- 23/26



- WYT-V1S

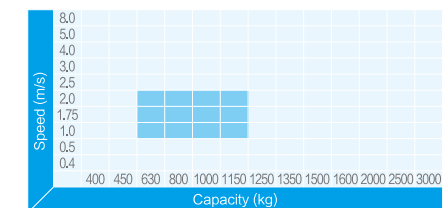
----- 27/28



06 WYT-R RAIL MOUNT SERIES

- WYT-R RAIL MOUNT VERSION

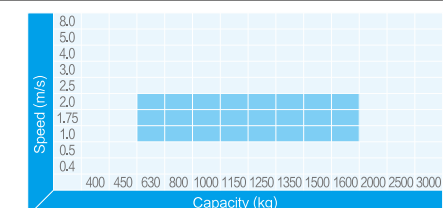
----- 29/32



07 WYT-K/F BELT MACHINE SERIES

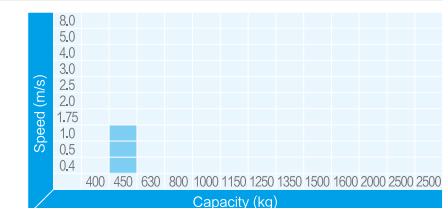
- WYT-K COMMERCIAL ELEVATOR VERSION

----- 33/35



- WYT-F VILLA VERSION

----- 36/38



- ACCESSORIES (BELT, SHACKLES, WHEEL ASSEMBLY, BELT DETECTOR)

A detailed 3D rendering of a blue industrial machine, likely a pump or compressor. The machine has a robust, cast-iron-like body. A large, bright yellow circular cover is mounted on the front, secured with six silver-colored bolts. Behind this cover, a series of thin, curved, metallic blades or vanes are visible, arranged in a radial pattern. The top of the machine is capped with a black rectangular component. On the right side, there is a black rectangular block with a silver-colored mounting bracket. The machine is shown from a three-quarter perspective, highlighting its complex mechanical design.

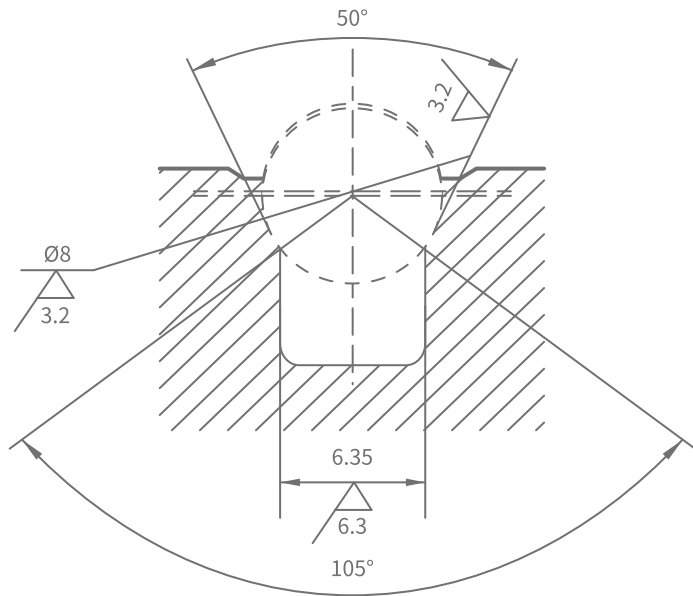
Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)	Dimension(mm)											
															A	B	C	D	E	F	H	H1	L	L1	L2	
WYT-T	1.0AMS	450	1.0	φ 350	5	φ 8	12	7.4	109	27.3	3.1	270	2500	≈ 300	120	180	47.5	32.5	319	380	270	600	510	580	800	
	1.5AMS		1.5					11.2	164	41	4.6															
	1.6AMS		1.6					11.5	175	43.7	4.9															
	1.75AMS		1.75					12	191	47.7	5.4															
	1.0AM	450	1.0	φ 400	4	φ 10	16	7.7	96	24	3.2	320														
	1.5AM		1.5					11.3	144	36	4.8															
	1.6AM		1.6					11.6	153	38.3	5.1															
	1.75AM		1.75					12.4	168	42	5.6															
	1.0BMS	630	1.0	φ 350	5	φ 8	12	9.6	109	27.3	4.2	370														
	1.5BMS		1.5					15.4	164	41	6.4															
	1.6BMS		1.6					15.7	175	43.7	6.8															
	1.75BMS		1.75					16.3	191	47.7	7.4															
	1.0BM	630	1.0	φ 400	4	φ 10	16	10.4	96	24	4.6	460														
	1.5BM		1.5					16.7	144	36	6.9															
	1.6BM		1.6					17.1	153	38.3	7.4															
	1.75BM		1.75					17.8	168	42	8.1															
	1.0CMS	800	1.0	φ 350	6	φ 8	12	12.2	109	27.3	5.3	460														
	1.5CMS		1.5					20.4	164	41	7.9															
	1.6CMS		1.6					20.7	175	43.7	8.4															
	1.75CMS		1.75					21	191	47.7	9.2															
	1.0CM	800	1.0	φ 400	5	φ 10	16	12	96	24	5.2	520														
	1.5CM		1.5					20.0	144	36	7.8															
	1.6CM		1.6					20.4	153	38.3	8.3															
	1.75CM		1.75					20.7	168	42	9.1															
	1.0DMS	1000	1.0	φ 350	6	φ 8	12	14.6	109	27.3	6.4	560														
	1.5DMS		1.5					24	164	41	9.6															
	1.6DMS		1.6					24.5	175	43.7	10.3															
	1.75DMS		1.75					25.2	191	47.7	11.2															
	1.0DM	1000	1.0	φ 400	5	φ 10	16	13.8	96	24	6.1	605														
	1.5DM		1.5					25	144	36	10															
1.6DM	1.6		25.5					153	38.3	10.7																
1.75DM	1.75		26.2					168	42	11.7																
1.0EMS	1150	1.0	φ 350	6	φ 8	12	16.6	109	27.3	7.3	640															
1.5EMS		1.5					28.5	164	41	11																
1.6EMS		1.6					28.8	175	43.7	11.7																
1.75EMS		1.75					29	191	47.7	12.8																

WYT-TS Light Duty

Height: $\leq 80\text{m}$

Series	Model	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)	Dimension(mm)											
															A	B	C	D	E	F	H	H1	L	L1	L2	
WYT-T	1.0AS	450	1.0	φ 350	5	φ 8	12	7.2	109	27.3	3.1	270	2500	≈300	140	195	47.5	29.5	337	398	270	605	510	580	800	
	1.5AS		1.5					11	164	41	4.6															
	1.6AS		1.6					11.3	175	43.7	4.9															
	1.75AS		1.75					11.7	191	47.7	5.4															
	1.0BS	630	1.0	φ 350	5	φ 8	12	9.4	109	27.3	4.2	370														
	1.5BS		1.5					15.2	164	41	6.4															
	1.6BS		1.6					15.4	175	43.7	6.8															
	1.75BS		1.75					16.1	191	47.7	7.4															
	1.0CS	800	1.0	φ 350	6	φ 8	12	12	109	27.3	5.3	460														
	1.5CS		1.5					20.2	164	41	7.9															
	1.6CS		1.6					20.5	175	43.7	8.4															
	1.75CS		1.75					20.8	191	47.7	9.2															
	1.0DS	1000	1.0	φ 350	6	φ 8	12	14.4	109	27.3	6.4	560														
	1.5DS		1.5					23.8	164	41	9.6															
	1.6DS		1.6					24.2	175	43.7	10.3															
	1.75DS		1.75					25	191	47.7	11.2															

Recommended single groove V



Outline drawing

WYT-TF Standard Version

Height: $\leq 90\text{m}$

[illegible]

WYT-TD Outer High Performance

Height: ≤120m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)	Dimension(mm)											
															A	B	C	D	E	F	H	H1	L	L1	L2	
WYT-T	D1.0C	800	1.0	φ 400	5	φ 10	16	11.8	96	24	5.2	520	5500	≈350	140	200	47.5	29.5	342	405						
	D1.5C		1.5					19.8	144	36	7.8															
	D1.6C		1.6					20.2	153	38.3	8.3															
	D1.75C		1.75					20.5	168	42	9.1															
	D2.0C		2.0					22.7	192	48	10.5															
	D1.0CL	800	1.0	φ 480	5	φ 10	16	11	80	19.9	5.1	605														
	D1.5CL		1.5					20.2	119	29.8	8.3															
	D1.6CL		1.6					20.6	127	31.8	8.8															
	D1.75CL		1.75					21	139	34.8	9.7															
	D2.0CL		2.0					23.8	159	39.8	11															
	D2.5CL	2.5	28.8	199	49.7	13.8	605																			
	D1.0D	1.0	13.6	96	24	6.1																				
	D1.5D	1.5	24.8	144	36	10																				
	D1.6D	1.6	25.3	153	38.3	10.7																				
	D1.75D	1.75	26	168	42	11.7																				
	D2.0D	2.0	29.6	192	48	13.4	665																			
	D1.0DL	1.0	14.9	80	19.9	6.7																				
	D1.5DL	1.5	24.7	119	29.8	10																				
	D1.6DL	1.6	25	127	31.8	10.7																				
	D1.75DL	1.75	25.4	139	34.8	11.7																				
	D2.0DL	2.0	28.7	159	39.8	13.3	800																			
	D2.5DL	2.5	34.6	199	49.7	16.7																				
	D1.0E	1.0	17	96	24	7.7																				
	D1.5E	1.5	28.1	144	36	11.5																				
	D1.6E	1.6	28.5	153	38.3	12.3																				
	D1.75E	1.75	29.3	168	42	13.4	765																			
	D2.0E	2.0	32.7	192	48	15.4																				
	D1.0EL	1.0	16.8	80	19.9	7.5																				
	D1.5EL	1.5	28.1	119	29.8	11.2																				
	D1.6EL	1.6	28.5	127	31.8	12																				
	D1.75EL	1.75	29.4	139	34.8	13.2	900																			
	D2.0EL	2.0	32.1	159	39.8	15.1																				
	D2.5EL	2.5	41.5	199	49.7	18.7																				
	D1.0F	1.0	18	96	24	8.2																				
	D1.5F	1.5	28.2	144	36	12.4																				
	D1.6F	1.6	28.7	153	38.3	13.1	820																			
	D1.75F	1.75	31.3	168	42	14.4																				
	D2.0F	2.0	36.5	192	48	16.5																				
	D1.0FL	1.0	18	80	19.9	8.2																				
	D1.5FL	1.5	28.2	119	29.8	12.2																				
	D1.6FL	1.6	28.7	127	31.8	13	980																			
	D1.75FL	1.75	31.3	139	34.8	14.3																				
	D2.0FL	2.0	36.5	159	39.8	16.3																				
	D2.5FL	2.5	43.8	199	49.7	20.4																				
	D1.0G	1.0	19.5	96	24	8.8																				
	D1.5G	1.5	30.7	144	36	13.3	880																			
	D1.6G	1.6	31.2	153	38.3	14.1																				
	D1.75G	1.75	33.7	168	42	15.4																				
	D2.0G	2.0	39.3	192	48	17.6																				
	D1.0GL	1.0	19.5	80	19.9	8.8																				
D1.5GL	1.5	30.7	119	29.8	13.1	1055																				
D1.6GL	1.6	31.2	127	31.8	14.1																					
D1.75GL	1.75	33.7	139	34.8	15.4																					
D2.0GL	2.0	39.3	159	39.8	17.6																					
D2.5GL	2.5	47.2	199	49.7	22																					
D1.0H	1.0	22.9	96	24	10.4	1040																				
D1.5H	1.5	36.7	144	36	15.7																					
D1.6H	1.6	37.3	153	38.3	16.6																					
D1.75H	1.75	40.5	168	42	18.2																					
D2.0H	2.0	46	192	48	20.8																					
D1.0HL	1.0	20.3	80	19.9	9.6	1150																				
D1.5HL	1.5	36.5	119	29.8	14.3																					
D1.6HL	1.6	36.8	127	31.8	15.3																					
D1.75HL	1.75	37	139	34.8	16.7																					
D2.0HL	2.0	41.2	159	39.8	19.1																					
D2.5HL	2.5	51.5	199	49.7	24																					

WYT - L COMFORTABLE SERIES



WYT-L Machine Roomless Version

WYT-L series products are the new generation inner rotor structure PM gearless traction machine developed by Bluelight in 2019. It is suitable for mini machine room or machine roomless elevator application. The standard products of the WYT-L series are level 3 energy efficiency, and can provide level 2 energy efficiency products according to customer requirements.

Parameter of Traction Machine

Voltage: AC380V
Roping: 2 : 1
Wrap: Single
Capacity: 408kg ~ 3000kg
Speed: 1.0m/s ~ 2.5m/s
Protection Grade: IP41
Ins. Class: F
Traction machine pole: 20
Stars per hour: 240
Rating: S5-40%



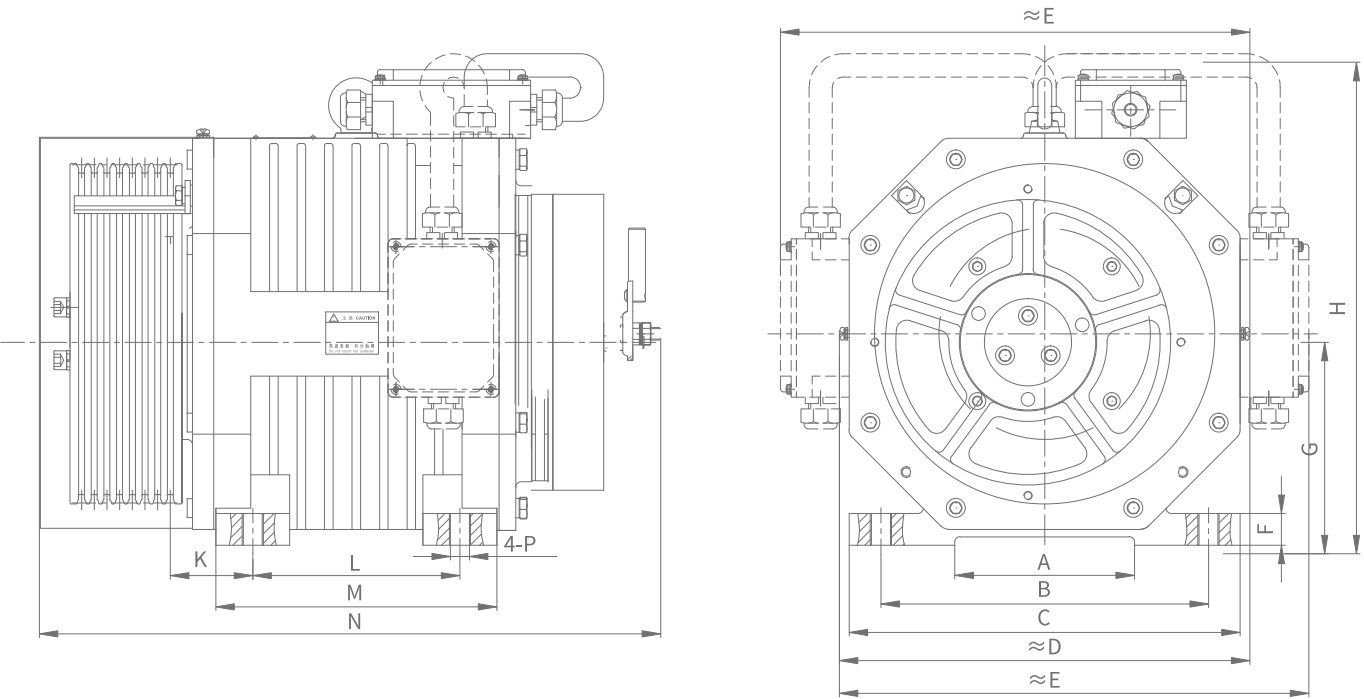
Features

- Special silent design for MMR or MRL.
- For some sites where the top level is insufficient and difficult to wire, a removable junction box is standard;
- Further improves heat dissipation.
- High efficiency and high torque density design with high material utilization, small size and light weight.
- The inner rotor structure improves electromagnetic structure, result smooth low speed running and high overload capacity.
- Use shaft brake, with the advantage of compact structure, low braking noise and fast response time.

Parameter of Brake

Model: BLS Ins.Class: F Voltage: DC110V
Current:

Capacity	Current
408kg ~ 1350kg	1.5A×2
1350kg ~ 3000kg	2.3A×2



Remark: The machine junction box can be installed on the top or left or right side of the host, as shown in the above outline drawing.

Outline drawing

Standard Series	WYT-T WYT-TS WYT-TF WYT-TD WYT-TE
Comfortable Series	WYT-L
Freight Elevator Series	WYT-TD WYT-TE WYT-V WYT-VIS
High Speed Series	WYT-J WYT-H
Heavy Load Series	WYT-V WYT-VIS
Rail Mount Series	WYT-R
Belt Machine Series	WYT-K WYT-F
The Parameter List of Groove	

WYT-L Machine Roomless Version

Height: $\leq 80\text{m}$

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)	Dimension(mm)															
															A	B	C	D	E	F	G	H	K	L	M	N	P			
WYT-L	DN1.0AM	408	1.0	Φ 320	4	Φ 8	12	6.4	119	19.8	2.7	220	2000	≈200	150	310	360	356	405	25	170	410	78	196	257	515	M20			
	DN1.5AM		1.5					9.8	178	29.7	4.1																			
	DN1.6AM		1.6					10	190	31.7	4.4																			
	DN1.75AM		1.75					10.2	208	34.7	4.8																			
	DN1.0AS	450	1.0	Φ 240	7	Φ 6	9	7.8	159	26.5	3	180																		
	DN1.5AS		1.5					12.2	238	40	4.5																			
	DN1.6AS		1.6					12.5	254	42.3	4.8																			
	DN1.75AS		1.75					12.7	278	46.3	5.2																			
	DN1.0A	450	1.0	Φ 320	4	Φ 8	12	7.6	119	19.8	3	240																		
	DN1.5A		1.5					12.2	178	29.7	4.5																			
	DN1.6A		1.6					12.5	190	31.7	4.8																			
	DN1.75A		1.75					12.7	208	34.7	5.2																			
	DN1.0BM	544	1.0	Φ 320	5	Φ 8	12	8	119	19.8	3.5	280																		
	DN1.5BM		1.5					12.4	178	29.7	5.2																			
	DN1.6BM		1.6					12.6	190	31.7	5.6																			
	DN1.75BM		1.75					12.8	208	34.7	6.1																			
	DN1.0BS	630	1.0	Φ 240	8	Φ 6	9	10.4	159	26.5	4	240																		
	DN1.5BS		1.5					15.4	238	40	6																			
	DN1.6BS		1.6					15.7	254	42.3	6.4																			
	DN1.75BS		1.75					16.4	278	46.3	7																			
	DN1.0B	630	1.0	Φ 320	5	Φ 8	12	9.6	119	19.8	4	320																		
	DN1.5B		1.5					15.6	178	29.7	6																			
	DN1.6B		1.6					16.0	190	31.7	6.4																			
	DN1.75B		1.75					16.5	208	34.7	7																			
	CN1.0CS	800	1.0	Φ 240	10	Φ 6	9	12.9	159	26.5	5.3	320																		
	CN1.5CS		1.5					21.5	238	40	8																			
	CN1.6CS		1.6					21.8	254	42.3	8.5																			
	CN1.75CS		1.75					22.5	278	46.3	9.3																			
	CN2.0CS	800	2.0	Φ 320	6	Φ 8	12	25	318	53	10.7	430																		
	CN1.0C		1.0					12.7	119	19.8	5.4																			
	CN1.5C		1.5					21.5	178	29.7	8																			
	CN1.6C		1.6					21.8	190	31.7	8.6																			
	CN1.75C	800	1.75	Φ 320	6	Φ 8	12	22.5	208	34.7	9.4	430																		
	CN2.0C		2.0					25	239	39.8	10.8																			
	CN1.0DS		1.0					15.3	159	26.5	6.7																			
	CN1.5DS		1.5					26	238	40	10																			
	CN1.6DS	1050	1.6	Φ 240	10	Φ 6	9	26.4	254	42.3	10.6	400																		
	CN1.75DS		1.75					26.8	278	46.3	11.6																			
	CN2.0DS		2.0					29.2	318	53	13.3																			
	CN1.0D		1.0					15.3	119	19.8	6.6																			
CN1.5D	1050	1.5	Φ 320	7	Φ 8	12	25.6	178	29.7	9.9	530																			
CN1.6D		1.6					26	190	31.7	10.5																				
CN1.75D		1.75					26.8	208	34.7	11.5																				
CN2.0D		2.0					29.2	239	39.8	13.3																				
CN1.0E	1150	1.0	Φ 320	8	Φ 8	12	16.7	119	19.8	7.2	580																			
CN1.5E		1.5					27.4	178	29.7	10.8																				
CN1.6E		1.6					27.8	190	31.7	11.5																				
CN1.75E		1.75					29.3	208	34.7	12.6																				
CN2.0E	1150	2.0	Φ 320	8	Φ 8	12	31.9	239	39.8	14.5	580																			

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)	Dimension(mm)															
															A	B	C	D	E	F	G	H	K	L	M	N	P			
WYT-L	CN1.0F	1275	1.0	φ320	8	φ8	12	18.1	119	19.8	7.9	630	4000	≈200	170	310	370	390	445	30	200	465	78	196	266	588	M20			
	CN1.5F		1.5					29.6	178	29.7	11.7																			
	CN1.6F		1.6					30.0	190	31.7	12.5																			
	CN1.75F		1.75					31.8	208	34.7	13.7																			
	CN2.0F		2.0					34.7	239	39.8	15.8																			
	CN1.0G	1350	1.0	φ320	8	φ8	12	19.2	119	19.8	8.5	680	4000	≈200	170	310	370	390	445	30	200	465	78	196	266	588	M20			
	CN1.5G		1.5					33.4	178	29.7	12.7																			
	CN1.6G		1.6					33.6	190	31.7	13.5																			
	CN1.75G		1.75					33.8	208	34.7	14.8																			
	CN2.0G		2.0					36.8	239	39.8	17.0																			
	CN1.0G400	1350	1.0	φ400	8	φ10	16	19.7	96	16	8.5	850	6000	≈480	170	310	370	390	445	40	220	486	94	310	431	802	M20			
	CN1.5G400		1.5					30.3	144	24	12.8																			
	CN1.6G400		1.6					30.5	153	26	136																			
	CN1.75G400		1.75					30.7	168	28	15.0																			
	CN2.0G400		2.0					35.2	192	32	17.1																			
	CN2.5G400	2.5	44.6	240	40	21.4																								
	CN1.0H320	1600	1.0	φ320	10	φ8	12	21.2	119	19.8	10	805	6000	≈480	170	310	370	390	459	40	220	486	94	310	431	802	M20			
	CN1.5H320		1.5					35	178	29.7	15																			
	CN1.6H320		1.6					35.2	190	31.7	16																			
	CN1.75H320		1.75					35.4	208	34.7	17.5																			
	CN2.0H320		2.0					42.2	239	39.8	20.1																			
	CN2.5H320	2.5	52.7	298	49.7	25.1																								
	CN1.0H400	1600	1.0	φ400	8	φ10	16	23.2	96	16	10.1	1005	6000	≈480	170	310	370	390	459	40	220	486	94	310	431	802	M20			
	CN1.5H400		1.5					35.6	144	24	15.2																			
	CN1.6H400		1.6					35.8	153	26	16.1																			
	CN1.75H400		1.75					36	168	28	17.7																			
	CN2.0H400		2.0					43	192	32	20.2																			
	CN2.5H400	2.5	53.8	240	40	25.3																								
	CN1.0J320	2000	1.0	φ320	12	φ8	12	27.3	119	19.8	12.7	1020	7000	≈800	245	415	495	515	605	50	280	638	133	250	370	848	M24			
	CN1.5J320		1.5					46.8	178	29.7	19																			
	CN1.6J320		1.6					47	190	31.7	20.3																			
	CN1.75J320		1.75					47.2	208	34.7	22.2																			
	CN2.0J320		2.0					54.7	239	39.8	25.5																			
	CN2.5J320	2.5	65.7	298	49.7	31.8																								
	EN1.0J400	2000	1.0	φ400	10	φ10	16	28.7	96	16	13.1	1310	7000	≈800	245	415	495	515	605	50	280	638	133	250	370	848	M24			
	EN1.5J400		1.5					48.4	144	24	19.8																			
	EN1.6J400		1.6					49.5	153	26	20.9																			
	EN1.75J400		1.75					50.8	168	28	22.9																			
	EN2.0J400		2.0					57.6	192	32	26.2																			
	EN2.5J400	2.5	68.0	240	40	32.9																								
EN1.0K400	2500	1.0	φ400	10	φ10	16	35.2	96	16	16.2	1610	7000	≈800	245	415	495	515	605	50	280	638	133	250	370	848	M24				
EN1.5K400		1.5					59.2	144	24	24.3																				
EN1.6K400		1.6					59.6	153	26	25.8																				
EN1.75K400		1.75					60.0	168	28	28.3																				
EN2.0K400		2.0					67.8	192	32	32.4																				
EN2.5K400	2.5	84.5	240	40	40.5																									
EN1.0P400	3000	1.0	φ400	10	φ10	16	41.5	96	16	19.2	1910	7000	≈800	245	415	495	515	605	50	280	638	133	250	370	848	M24				
EN1.5P400		1.5					70.2	144	24	28.8																				
EN1.6P400		1.6					70.5	153	26	30.6																				
EN1.75P400		1.75					70.8	168	28	33.6																				
EN2.0P400		2.0					81.0	192	32	38.4																				
EN2.5P400	2.5	96.7	240	40	48.0																									

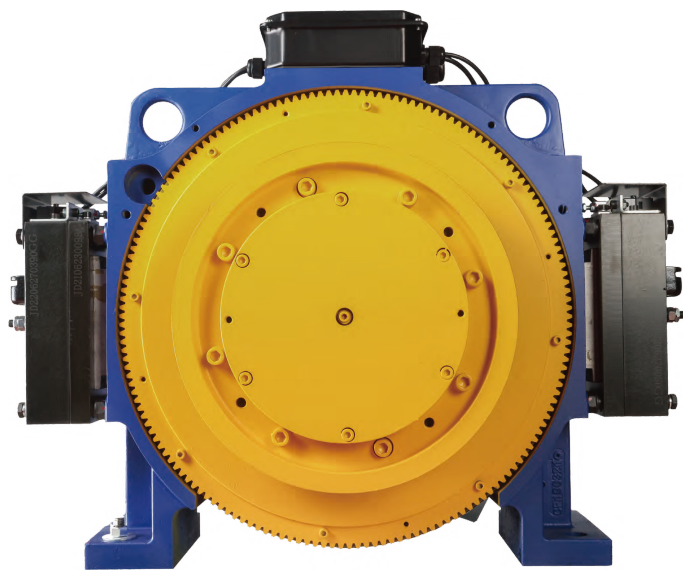
WYT - TD / TE / V / V1S

FREIGHT ELEVATOR SERIES

WYT-TD Freight Elevator Version (3t)

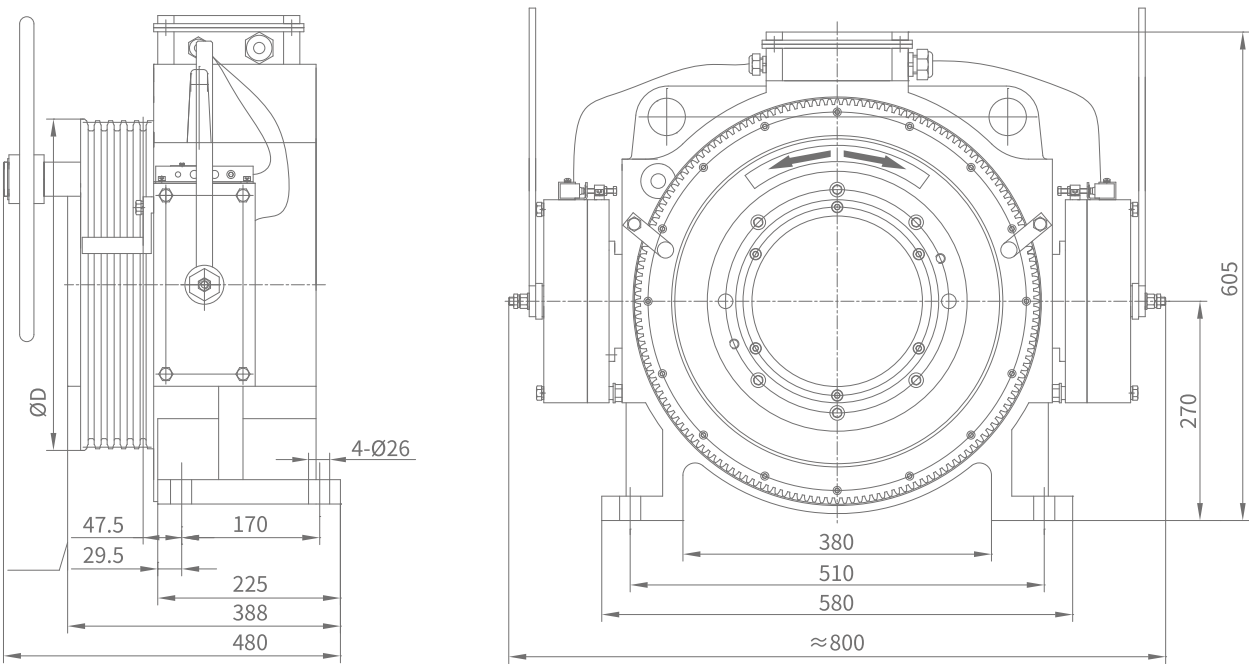
Parameter of Traction Machine

Voltage: AC380V
Roping: 4 : 1
Wrap: Single
Capacity: 3000kg
Speed: 0.5m/s ~ 1.0m/s
Protection Grade: IP41
Ins. Class: F
Traction machine pole: 30
Stars per hour: 120
Rating: S5-40%



Parameter of Brake

Model: BLB Ins.Class: F Voltage: DC110V Current: 1.6A



Outline drawing

WYT-TD Freight Elevator Version(3t)

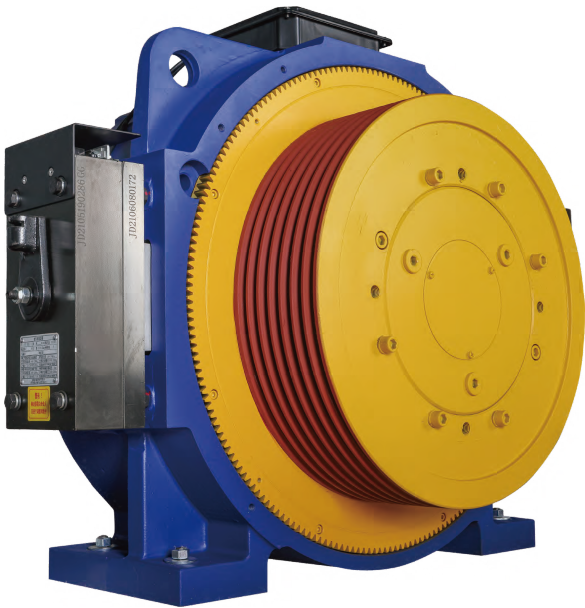
Height: ≤45m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)
WYT-T	ND0.5-3	3000	0.5	φ 400	7	φ 10	16	23.2	96	24	10.4	1040	5500	≈450
	ND1.0-3		1.0					46.2	192	48	20.8			
	ND0.5-3L	3000	0.5	φ 480	7	φ 10	16	20.6	80	19.9	9.6	1150		
	ND1.0-3L		1.0					41.4	159	39.8	19.1			

WYT-TE Freight Elevator Version (4t\5t\6t)

Parameter of Traction Machine

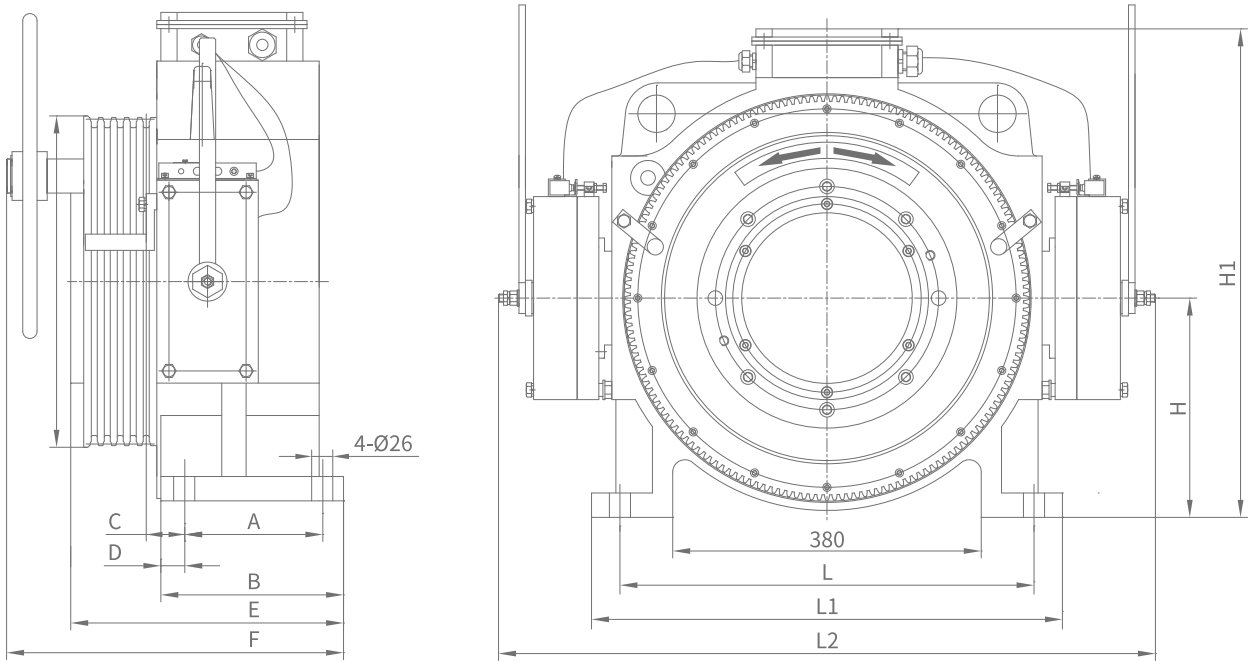
Voltage: AC380V
Roping: 4 : 1
Wrap: Single
Capacity: 4000kg ~ 6000kg
Speed: 0.5m/s ~ 1.0m/s
Protection Grade: IP41
Ins. Class: F
Traction machine pole: 30
Stars per hour: 120
Rating: S5-40%



Parameter of Brake

Model: BLB Ins.Class: F Voltage: DC110V
Current:

Capacity	Current
4000kg φ 400	1.6A
4000kg φ 480、5000kg φ 400/ φ 480 、6000kg φ 400	1.98A
6000kg φ 480	2.5A



Outline drawing

WYT-TE Freight Elevator Version(4t\5t\6t)

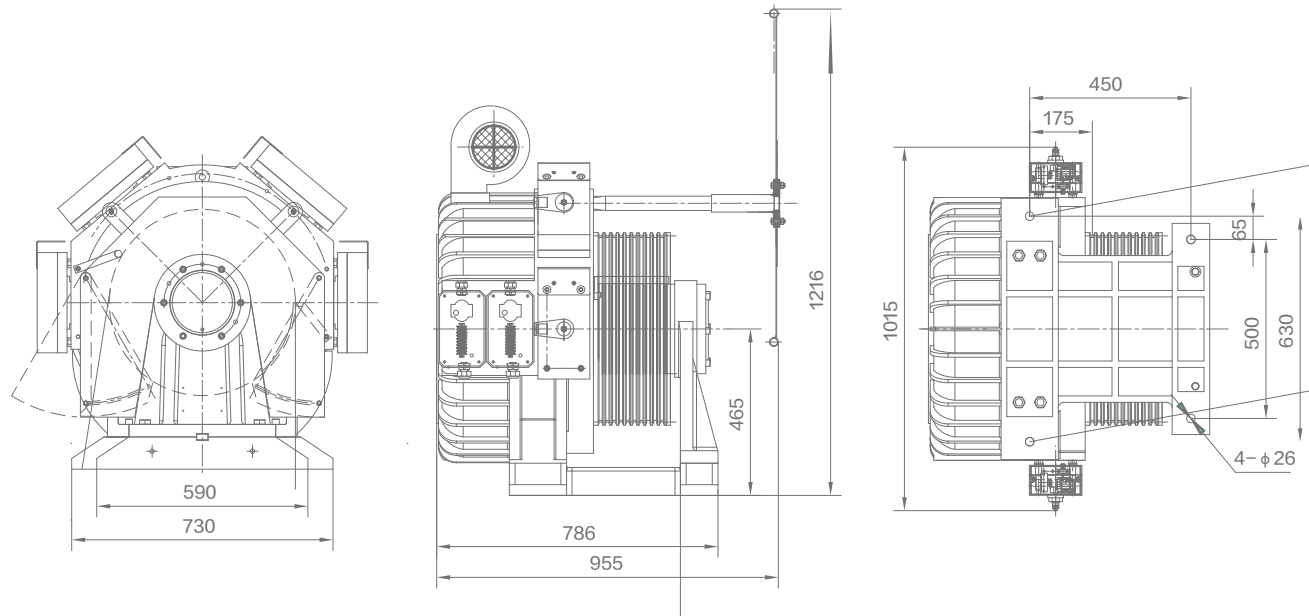
Height: ≤45m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)	Dimension(mm)											
															A	B	C	D	E	F	H	H1	L	L1	L2	
WYT-T	NE0.5-4	4000	0.5	φ 400	9	φ 10	16	29	96	24	13.1	1310	6500	≈680	170	250	59	40	435	505	330	723	560	630	945	
	NE1.0-4		1.0					57.8	192	48	26.2															
	NE0.5-4L	4000	0.5	φ 480	7	φ 12	18	29	80	19.9	13.1	1570														
	NE1.0-4L		1.0					57.8	159	39.8	26.2															
	NE0.5-5	5000	0.5	φ 400	9	φ 10	16	37.7	96	24	16.4	1635														
	NE1.0-5		1.0					75.3	192	48	32.9															
	NE0.5-5L	5000	0.5	φ 480	7	φ 12	18	36.8	80	19.9	16	1910	7500	≈750	170	275	59	40	460	530						
	NE1.0-5L		1.0					72.8	159	39.8	31.8															
	NE0.5-6	6000	0.5	φ 400	9	φ 10	16	43	96	24	19.2	1910														
	NE1.0-6		1.0					86.7	192	48	38.4															
	NE0.5-6L	6000	0.5	φ 480	7	φ 12	18	42.0	80	19.9	18.4	2200														
	NE1.0-6L		1.0					83.2	159	39.8	36.6															

WYT-V Freight Elevator Version (6t/8t/10t)

Parameter of Traction Machine

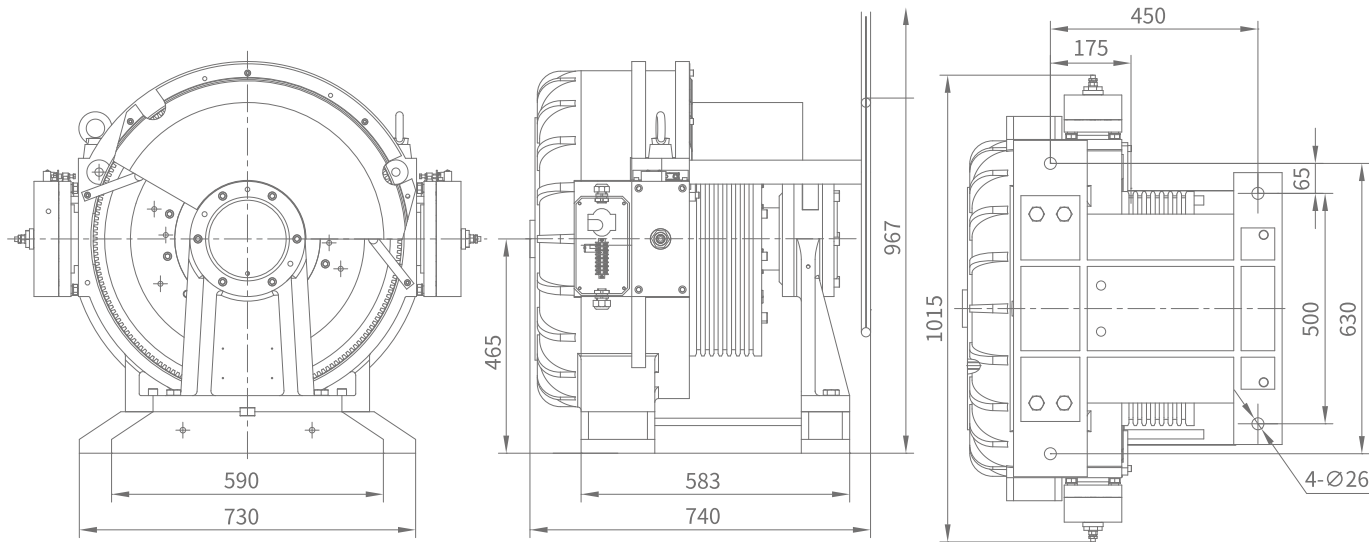
Voltage: AC380V
Roping: 4 : 1
Wrap: Single
Capacity: 6000kg ~ 10000kg
Speed: 0.5m/s ~ 1.0m/s
Protection Grade: IP41
Ins. Class: F
Traction machine pole: 30
Stars per hour: 120
Rating: S5-40%



8000kg~10000kg Outline drawing

Parameter of Brake

Model: BLB Ins.Class: F Voltage: DC110V Current: 1.98A



6000kg Outline drawing

WYT-V Freight Elevator Version (6t/8t/10t)

Height: ≤45m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)
WYT-V	0.5-6-480	6000	0.5	φ 480	9	φ 12	18	46.5	80	19.9	20.4	2440	10000	≈ 1100
	1.0-6-480		1.0					91.6	159	39.8	40.6	2440		
	0.5-8-480	8000	0.5	φ 480	12	φ 12	18	54.6	80	19.9	26.1	3120		
	1.0-8-480		1.0					109	159	39.8	51.9	3120		
	0.5-8-520	8000	0.5	φ 520	10	φ 13	19	54.6	18.3	73.0	25.8	3380		
	1.0-8-520		1.0					109	36.7	147.0	52	3380		
	0.5-10-480	10000	0.5	φ 480	12	φ 12	18	67.5	80	19.9	32.7	3900		
	1.0-10-480		1.0					136	159	39.8	64.9	3900		
	0.5-10-520	10000	0.5	φ 520	10	φ 13	19	67.5	18.3	73.0	32.3	4225		
	1.0-10-520		1.0					136	36.7	147.0	65	4225		

WYT-V1S Freight Elevator Version (8t\10t)

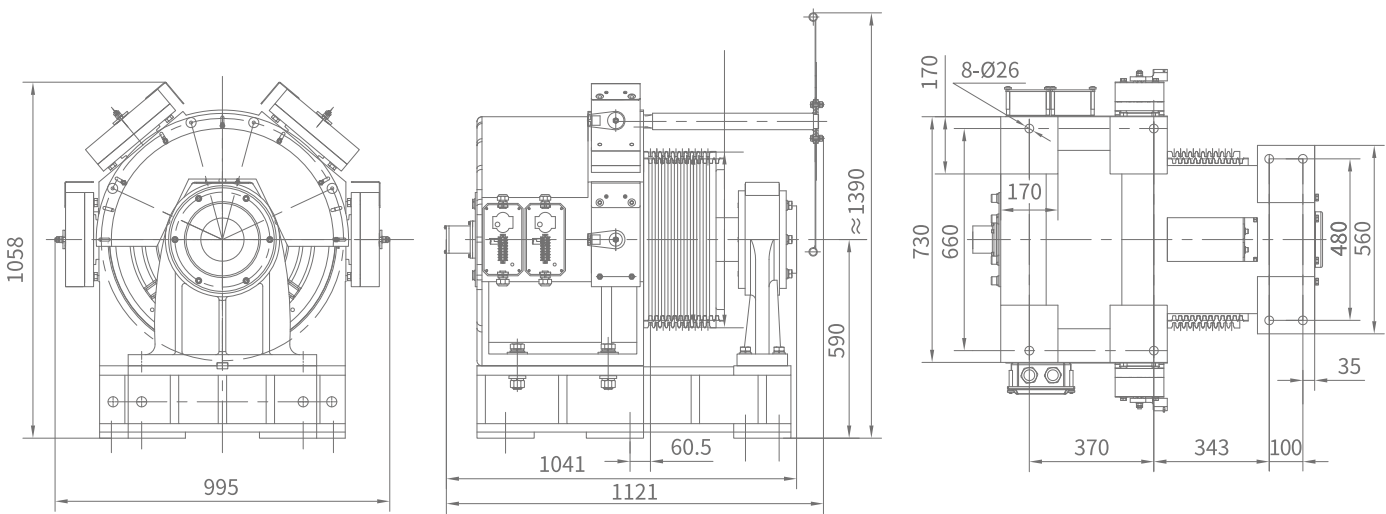
Parameter of Traction Machine

Voltage: AC380V
Roping: 4 : 1
Wrap: Single
Capacity: 8000kg ~ 10000kg
Speed: 0.5m/s ~ 1.0m/s
Protection Grade: IP41
Ins. Class: F
Traction machine pole: 30
Stars per hour: 120
Rating: S5-40%



Parameter of Brake

Model: BLB Ins.Class: F
Voltage: DC110V Current: 1.98A



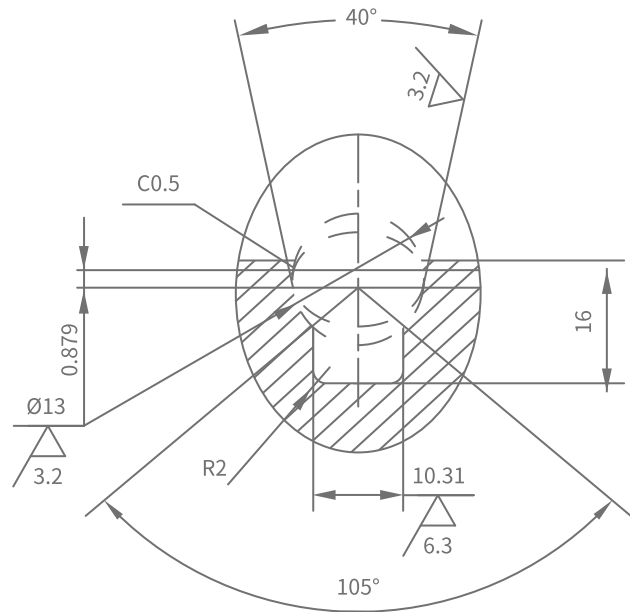
Outline drawing

WYT-V1S Freight Elevator Version (8t\10t)

Height: ≤45m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)
WYT-V1S	C0.5-8	8000	0.5	φ 480	12	φ 12	18	54.6	80	19.9	26.1	3120	15000	≈2500
	C1.0-8		1.0					109.0	159	39.8	51.9			
	C0.5-8L		0.5	φ 520	10	φ 13	19	54.6	73	18.3	25.8	3380		
	C1.0-8L		1.0					109.0	147	36.7	52.0			
	C0.5-10	10000	0.5	φ 480	12	φ 12	18	67.5	80	19.9	32.7	3900		
	C1.0-10		1.0					136.0	159	39.8	64.9			
	C0.5-10L		0.5	φ 520	10	φ 13	19	67.5	73	18.3	32.3	4225		
	C1.0-10L		1.0					136.0	147	36.7	65.0			

Recommended single groove V



Outline drawing

WYT - J / H HIGH SPEED SERIES

WYT-J Double Wrap Version

WYT-J series products are developed with large torque and heavy load capacity by Bluelight in 2020.It is widely used in high-rise buildings elevator applications such as panorama elevator, passenger & cargo elevator, hospital bed elevator and else.



Parameter of Traction Machine

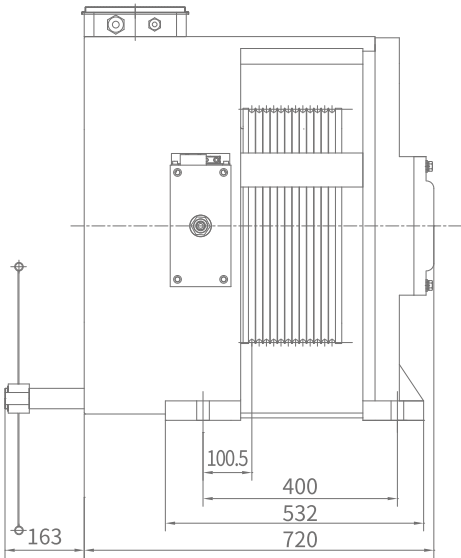
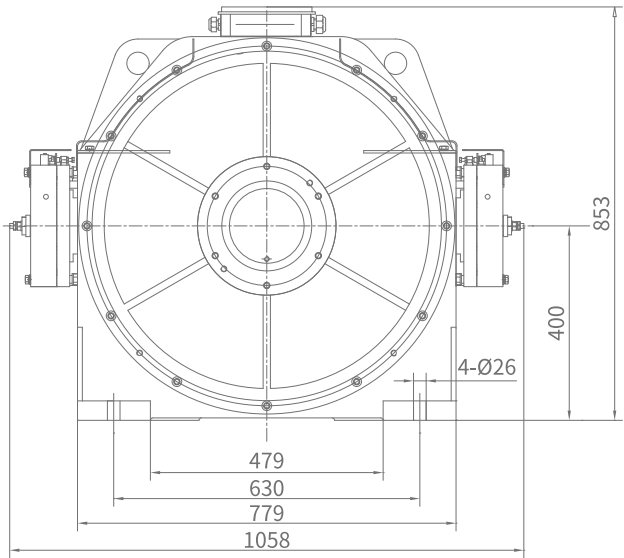
Voltage: AC380V
Roping: 2 : 1
Wrap: Double
Capacity: 800kg ~ 2000kg
Speed: 1.0m/s ~ 4.0m/s
Protection Grade: IP41
Ins. Class: F
Traction machine pole: 30
Stars per hour: 240
Rating: S5-40%

Parameter of Brake

Model: BLB Ins.Class: F Voltage: DC110V Current: 1.98A

Features

- ◎ Double support design, reliable mechanical structure with high shaft load and high speed;
- ◎ High torque density with high efficiency;
- ◎ Optimized design for winding, lower harmonics, lower noise, low vibration, smooth running;
- ◎ Advanced heat dissipation design, low temperature rise;
- ◎ Use block type armless brake, simple structure with fast response time and high reliability.



Outline drawing

WYT-J Double Wrap Version

Height: ≤180m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)
WYT-J	1.0A2	800	1.0	φ 480	8	φ 10	14	14	80	20	5.7	682	14000	≈1200
	1.6A2		1.6					20.8	127	31.8	9.1			
	1.75A2		1.75					22.9	139	34.8	9.9			
	2.0A2		2.0					25.5	159	39.8	11.4			
	2.5A2		2.5					31.5	199	49.7	14.2			
	3.0A2		3.0					37.3	239	59.8	17.1			
	4.0A2		4.0					49.1	318	79.5	22.7			
	1.0B2	1000	1.0	φ 480	10	φ 10	14	16.1	80	20	6.8	810		
	1.6B2		1.6					24.5	127	31.8	10.8			
	1.75B2		1.75					26.3	139	34.8	11.8			
	2.0B2		2.0					29.6	159	39.8	13.5			
	2.5B2		2.5					37.5	199	49.7	16.9			
	3.0B2		3.0					44.4	239	59.8	20.3			
	4.0B2		4.0					58.6	318	79.5	27.0			
	1.0C2	1275	1.0	φ 480	10	φ 12	15	22.4	80	20	8.5	1020		
	1.6C2		1.6					33.6	127	31.8	13.6			
	1.75C2		1.75					36.5	139	34.8	14.8			
	2.0C2		2.0					41.5	159	39.8	17			
	2.5C2		2.5					51.4	199	49.7	21.3			
	3.0C2		3.0					60.3	239	59.8	25.5			
	4.0C2		4.0					79.5	318	79.5	34			
	1.0D2	1350	1.0	φ 480	10	φ 12	15	25	80	20	9.5	1140		
	1.6D2		1.6					37.6	127	31.8	15.2			
	1.75D2		1.75					40.8	139	34.8	16.6			
	2.0D2		2.0					46.4	159	39.8	19			
	2.5D2		2.5					57.4	199	49.7	23.8			
	3.0D2		3.0					67.4	239	59.8	28.5			
	4.0D2		4.0					89	318	79.5	38			
	1.0E2	1600	1.0	φ 480	10	φ 12	15	27	80	20	11.1	1330		
	1.6E2		1.6					41	127	31.8	17.7			
	1.75E2		1.75					45.8	139	34.8	19.4			
	2.0E2		2.0					51	159	39.8	22.2			
	2.5E2		2.5					63.8	199	49.7	27.7			
	3.0E2		3.0					74.6	239	59.8	33.3			
	4.0E2		4.0					99.6	318	79.5	44.3			
	1.0EF2	1800	1.0	φ 480	12	φ 12	15	29.7	80	20	12.5	1490		
	1.6EF2		1.6					45.8	127	31.8	19.8			
	1.75EF2		1.75					49.6	139	34.8	21.7			
	2.0EF2		2.0					55.8	159	39.8	24.8			
	2.5EF2		2.5					71.5	199	49.7	31			
	3.0EF2		3.0					85.2	239	59.8	37.3			
	4.0EF2		4.0					112	318	79.5	49.6			
	1.0F2	2000	1.0	φ 480	12	φ 12	15	34	80	20	13.8	1650		
	1.6F2		1.6					53	127	31.8	22			
	1.75F2		1.75					54.9	139	34.8	24			
	2.0F2		2.0					63.5	159	39.8	27.5			
	2.5F2		2.5					80	199	49.7	34.4			
	3.0F2		3.0					92	239	59.8	41.3			
	4.0F2		4.0					115	318	79.5	54.9			

WYT-H Ultra-high Speed Version

WYT-H series ultra-high speed PM gearless traction machine is developed by Bluelight in 2012 to target skyscrapers with ultra-high speed elevator (up to 8m/s).



Parameter of Traction Machine

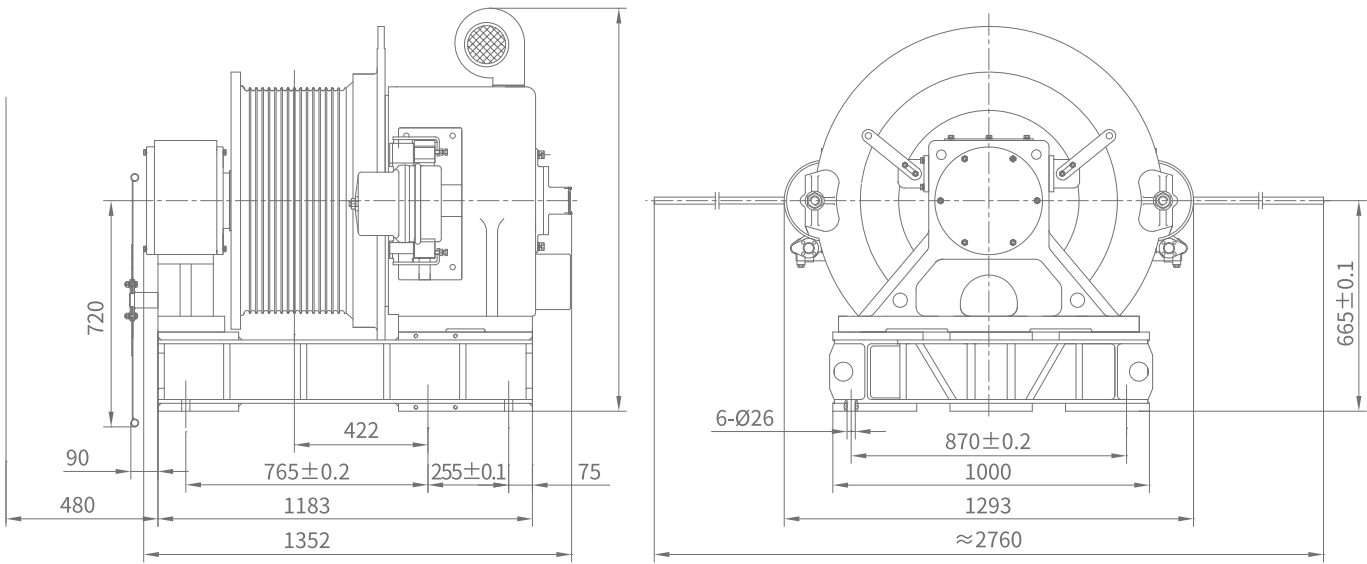
Voltage: AC380V
Roping: 1 : 1
Wrap: Double
Capacity: 1600kg
Speed: 5m/s ~ 8m/s
Protection Grade: IP41
Ins. Class: H
Traction machine pole: 30
Stars per hour: 240
Rating: S5-40%

Features

- ◎ Extra high shaft load design, suitable for ultra-high speed operation;
- ◎ Optimized winding design, less harmonic content, loss distribution optimization, fan cooling system with low temperature rise;
- ◎ Use SUNTES disk brake system, high reliability.

Parameter of Brake

Model: EC-4026EF-100 Ins.Class: F Voltage: DC90V/40V Current: 4.7/2.1A



Outline drawing

WYT-H Ultra-high Speed Version

Height: ≤360m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)
WYT-H	5.0E1	1600	5.0	φ 710	16	φ 16	20	111.4	134	33.6	51	3626	35000	≈3500
	6.0E1		6.0					135.3	161	40.3	61.2			
	7.0E1		7.0					158	188	47.1	71.5			
	8.0E1		8.0					172.7	215	53.8	81.7			

WYT - V / V1S

HEAVY LOAD SERIES

WYT-V series PMS machine is developed for high rise factory plant cargo lift, it uses latest Permanent magnetic motor technology, optimised electromagnetic & mechanical design with excellent operation performance.

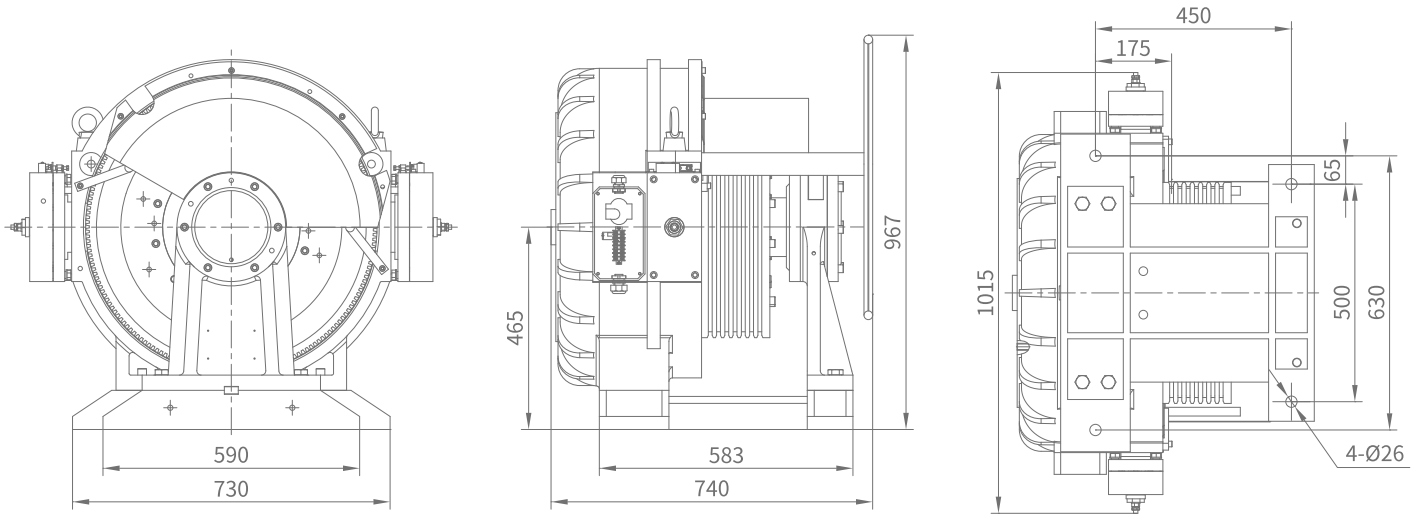
WYT-V

Parameter of Traction Machine

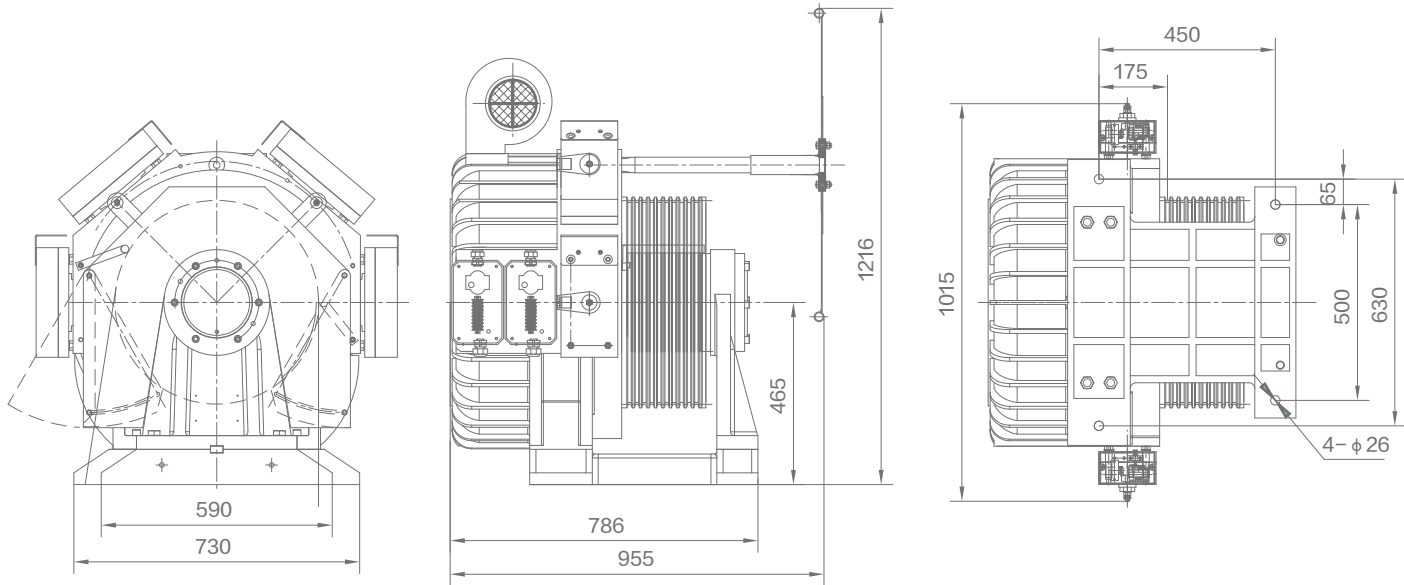
- Voltage: AC380V
- Roping: 1 : 1
- Wrap: Single
- Capacity: 1000kg ~ 2500kg
- Speed: 1.0m/s ~ 4.0m/s
- Protection Grade: IP41
- Ins. Class: F
- Traction machine pole: 30
- Stars per hour: 240
- Rating: S5-40%

Parameter of Brake

- Model: BLB
- Ins.Class: F
- Voltage: DC110V
- Current: 1.98A



1000kg~1600kg | Outline drawing



2000kg~2500kg | Outline drawing

Standard Series	WYT-T	WYT-TS	WYT-TF	WYT-TD	WYT-TE
Comfortable Series	WYT-L				
Freight Elevator Series		WYT-TD	WYT-TE	WYT-V	WYT-V1S
High Speed Series		WYT-J	WYT-H		
Heavy Load Series		WYT-V	WYT-V1S		
Rail Mount Series		WYT-R			
Belt Machine Series		WYT-K	WYT-F		
The Parameter List of Groove					

WYT-V Heavy Load (1:1)

Height: ≤120m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Energy Efficiency Grade	Shaft Load (kg)	Weight (kg)
WYT-V	1.0D480	1000	1.0	φ 480	10	φ 10	16	14.8	40	9.95	6.6	1570	2	10000	≈1100
	1.5D480		1.5					21.8	60	15	9.9				
	1.75D480		1.75					25.3	70	17.5	11.5				
	2.0D480		2.0					28.7	80	19.9	13.1				
	2.5D480		2.5					37	100	25	16.4				
	3.0D480		3.0					44.2	119	29.8	19.6				
	4.0D480		4.0					59	159	39.8	26.1				
	1.0D500	1000	1.0	φ 500	7	φ 12	19	14.8	38	9.5	6.6	1640			
	1.5D500		1.5					21.8	57	14.3	9.9				
	1.75D500		1.75					25.3	67	16.7	11.5				
	2.0D500		2.0					28.7	76	19	13.1				
	2.5D500		2.5					37	96	24	16.4				
	3.0D500		3.0					44.2	115	28.7	19.7				
	4.0D500		4.0					59	153	38.2	26.3				
	1.0E480	1150	1.0	φ 480	10	φ 10	16	17	40	9.95	7.5	1800			
	1.5E480		1.5					25.2	60	15	11.3				
	1.75E480		1.75					29.4	70	17.5	13.2				
	2.0E480		2.0					33.3	80	19.9	15				
	2.5E480		2.5					41.8	100	25	18.8				
	3.0E480		3.0					50	119	29.8	22.4				
	4.0E480		4.0					66.7	159	39.8	30				
	1.0E500	1150	1.0	φ 500	7	φ 12	19	17	38	9.5	7.5	1880			
	1.5E500		1.5					25.2	57	14.3	11.3				
	1.75E500		1.75					29.4	67	16.7	13.2				
	2.0E500		2.0					33.3	76	19	15				
	2.5E500		2.5					41.8	96	24	18.8				
	3.0E500		3.0					50	115	28.7	22.6				
	4.0E500		4.0					66.7	153	38.2	30.1				
	1.0F480	1250	1.0	φ 480	10	φ 10	16	19	40	9.95	8	1940			
	1.5F480		1.5					27.8	60	15	12.1				
	1.75F480		1.75					32	70	17.5	14.2				
	2.0F480		2.0					36.6	80	19.9	16.1				
	2.5F480		2.5					45.5	100	25	20.3				
	3.0F480		3.0					54.8	119	29.8	24.2				
	4.0F480		4.0					73	159	39.8	32.3				
	1.0F500	1250	1.0	φ 500	7	φ 12	19	19	38	9.5	8	2020			
	1.5F500		1.5					27.8	57	14.3	12.1				
	1.75F500		1.75					32	67	16.7	14.2				
	2.0F500		2.0					36.6	76	19	16.1				
	2.5F500		2.5					45.5	96	24	20.3				
	3.0F500		3.0					54.8	115	28.7	24.3				
	4.0F500		4.0					73	153	38.2	32.4				

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Energy Efficiency Grade	Shaft Load (kg)	Weight (kg)
WYT-V	1.0G480	1350	1.0	φ 480	10	φ 10	16	20.3	40	9.95	8.6	2060	2	10000	≈1100
	1.5G480		1.5					29.6	60	15	12.9				
	1.75G480		1.75					34	70	17.5	15.1				
	2.0G480		2.0					39	80	19.9	17.3				
	2.5G480		2.5					48.5	100	25	21.6				
	3.0G480		3.0					58.3	119	29.8	25.7				
	4.0G480		4.0					77.6	159	39.8	34.3				
	1.0G500	1350	1.0	φ 500	9	φ 12	18	20.3	38	9.5	8.6	2150			
	1.5G500		1.5					29.6	57	14.3	12.8				
	1.75G500		1.75					34	67	16.7	15.1				
	2.0G500		2.0					39	76	19	17.1				
	2.5G500		2.5					48.5	96	24	21.6				
	3.0G500		3.0					58.3	115	28.7	25.9				
	4.0G500		4.0					77.6	153	38.2	34.4				
	1.0H480	1600	1.0	φ 480	9	φ 12	18	24.3	40	9.95	10.2	2440			
	1.5H480		1.5					34.9	60	15	15.3				
	1.75H480		1.75					40.8	70	17.5	17.9				
	2.0H480		2.0					46.5	80	19.9	20.4				
	2.5H480		2.5					58.0	100	25	25.5				
	3.0H480		3.0					68.3	119	29.8	30.4				
	4.0H480		4.0					91.6	159	39.8	40.6				
	1.0J480	2000	1.0	φ 480	12	φ 12	18	27.5	40	9.95	13.1	3120			
	1.5J480		1.5					41.2	60	15	19.6				
	1.75J480		1.75					48	70	17.5	22.9				
	2.0J480		2.0					54.6	80	19.9	26.1				
	2.5J480		2.5					68.3	100	25	32.7				
	3.0J480		3.0					81.8	119	29.8	38.9				
	4.0J480		4.0					109	159	39.8	51.9				
	1.0J520	2000	1.0	φ 520	10	φ 13	19	27.5	9.3	37.0	13.1	3380			
	1.5J520		1.5					41.2	13.8	55	19.5				
	1.75J520		1.75					48	16	64.0	22.7				
	2.0J520		2.0					54.6	18.3	73.0	25.8				
	2.5J520		2.5					68.3	23	92	32.6				
	3.0J520		3.0					81.8	27.5	110.0	38.9				
	4.0J520		4.0					109	36.7	147.0	52				
	1.0K480	2500	1.0	φ 480	12	φ 12	18	34.7	40	9.95	16.3	3900			
	1.5K480		1.5					51.8	60	15	24.5				
	1.75K480		1.75					60.4	70	17.5	28.6				
	2.0K480		2.0					67.5	80	19.9	32.7				
	2.5K480		2.5					85.2	100	25	40.8				
3.0K480	3.0		102					119	29.8	48.6					
4.0K480	4.0		136					159	39.8	64.9					
1.0K520	2500	1.0	φ 520	10	φ 13	19	34.7	9.3	37.0	16.4	4225				
1.5K520		1.5					51.8	13.8	55	24.3					
1.75K520		1.75					60.4	16	64.0	28.3					
2.0K520		2.0					67.5	18.3	73.0	32.3					
2.5K520		2.5					85.2	23	92	40.7					
3.0K520		3.0					102	27.5	110.0	48.7					
4.0K520		4.0					136	36.7	147.0	65					

WYT-V1S

Parameter of Traction Machine

Voltage: AC380V

Suspension: 1 : 1

Rope: Single

Capacity: 1500kg ~ 2500kg

Speed: 1.0m/s ~ 4.0m/s

Prot. Class: IP41

Ins. Class: F

Traction machine pole: 30

Stars per hour: 240

Rating: S5-40%



Features

- Double support structure, reliable structure, better performance;
- High load, high efficiency, high torque density;
- The machine runs smoothly, low vibration;
- The heat dissipation design of the machine is good, and the low temperature rises.

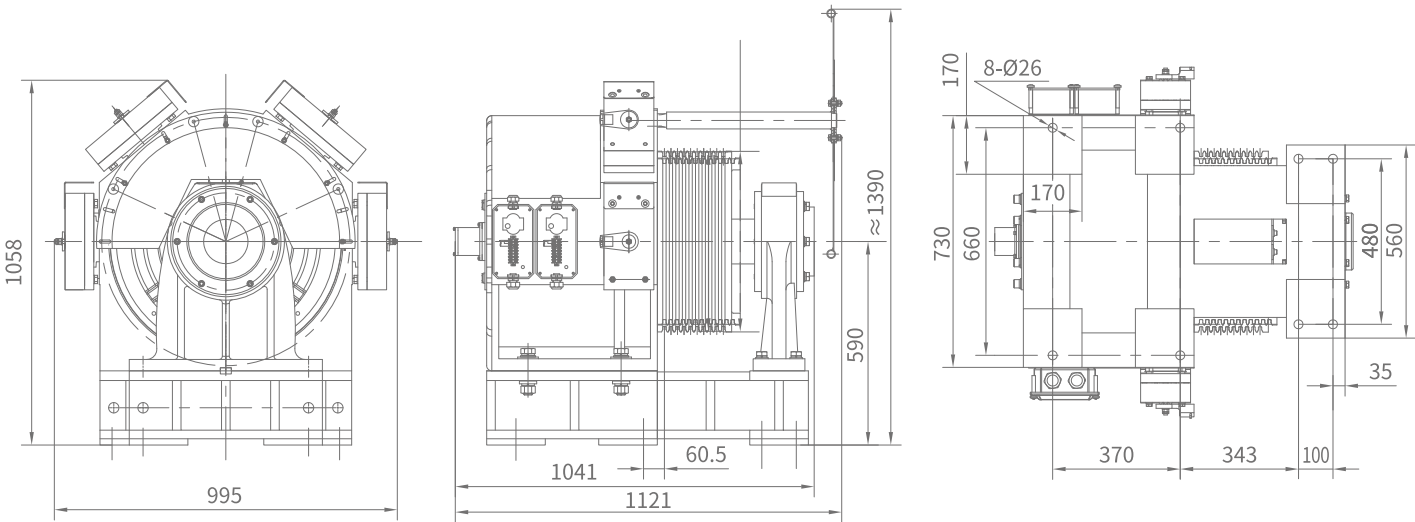
Parameter of Brake

Model: BLB

Ins.Class: F

Voltage: DC110V

Current: 1.98A



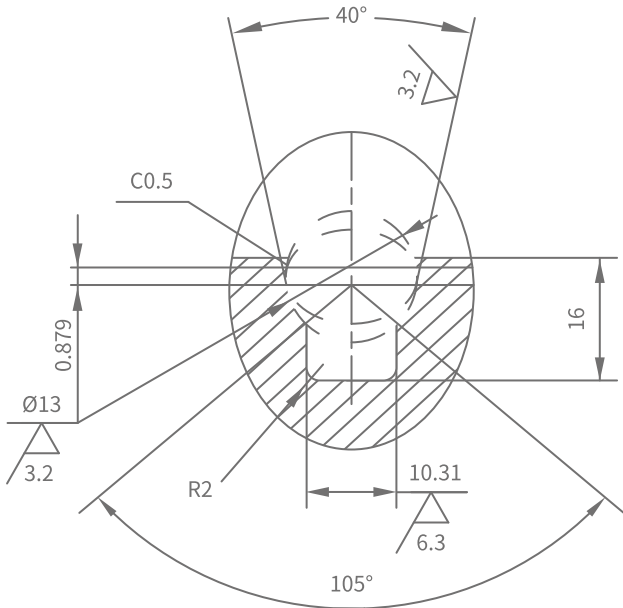
Outline drawing

WYT-V1S Heavy Load (1:1)

Height: ≤120m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)
WYT-V1S	C1.0DE	1500	1.0	φ 480	12	φ 12	18	22.8	40	9.95	9.6	2286	15000	≈2500
	C1.75DE		1.75					38.2	70	17.5	16.8			
	C2.0DE		2.0					43.6	80	19.9	19.2			
	C3.0DE		3.0					64	119	29.8	28.5			
	C4.0DE		4.0	85.8	159	39.8	38.1							
	C1.0DEL		1.0	φ 520	10	φ 13	19	22.8	37	9.3	9.6	2476		
	C1.75DEL		1.75					38.2	64	16	16.6			
	C2.0DEL		2.0					43.6	73	18.3	18.9			
	C3.0DEL		3.0					64	110	27.5	28.5			
	C4.0DEL		4.0					85.8	147	36.7	38.1			
	C1.0F	1.0	φ 480					12	φ 12	18	27.5			
	C1.75F	1.75		48.0	70	17.5	22.9							
	C2.0F	2.0		54.6	80	19.9	26.1							
	C3.0F	3.0		81.8	119	29.8	38.9							
	C4.0F	4.0		109.0	159	39.8	51.9							
	C1.0FL	1.0	φ 520	10	φ 13	19	27.5	37	9.3	13.1	3380			
	C1.75FL	1.75					48.0	64	16	22.7				
	C2.0FL	2.0					54.6	73	18.3	25.8				
	C3.0FL	3.0					81.8	110	27.5	38.9				
	C4.0FL	4.0					109.0	147	36.7	52.0				
	C1.0G	1.0	φ 480	12	φ 12	18	34.7	40	9.95	16.3	3900			
	C1.75G	1.75					60.4	70	17.5	28.6				
	C2.0G	2.0					67.5	80	19.9	32.7				
	C3.0G	3.0					102.0	119	29.8	48.6				
	C4.0G	4.0					136.0	159	39.8	64.9				
	C1.0GL	1.0	φ 520	10	φ 13	19	34.7	37	9.3	16.4	4225			
	C1.75GL	1.75					60.4	64	16	28.3				
	C2.0GL	2.0					67.5	73	18.3	32.3				
C3.0GL	3.0	102.0					110	27.5	48.7					
C4.0GL	4.0	136.0					147	36.7	65.0					

Recommended single groove V

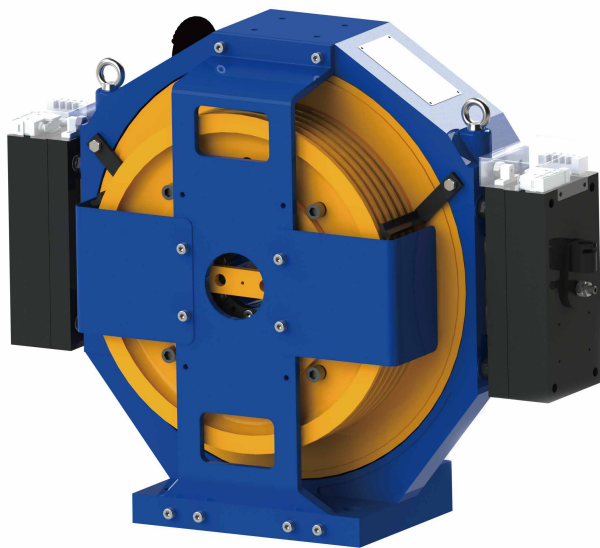


Outline drawing

WYT - R RAIL MOUNT SERIES

WYT-R Rail Mount Light Duty

WYT-R series products are the new generation outer rotor structure PM gearless traction machine developed by Bluelight in 2023. It is suitable for rail mount application.



Parameter of Traction Machine

Voltage: AC380V
Roping: 2 : 1
Wrap: Single
Capacity: 450kg ~ 800kg
Speed: 1.0m/s ~ 2.0m/s
Protection Grade: IP41
Ins. Class: F
Traction machine pole: 30
Stars per hour: 240
Rating: S5-40%

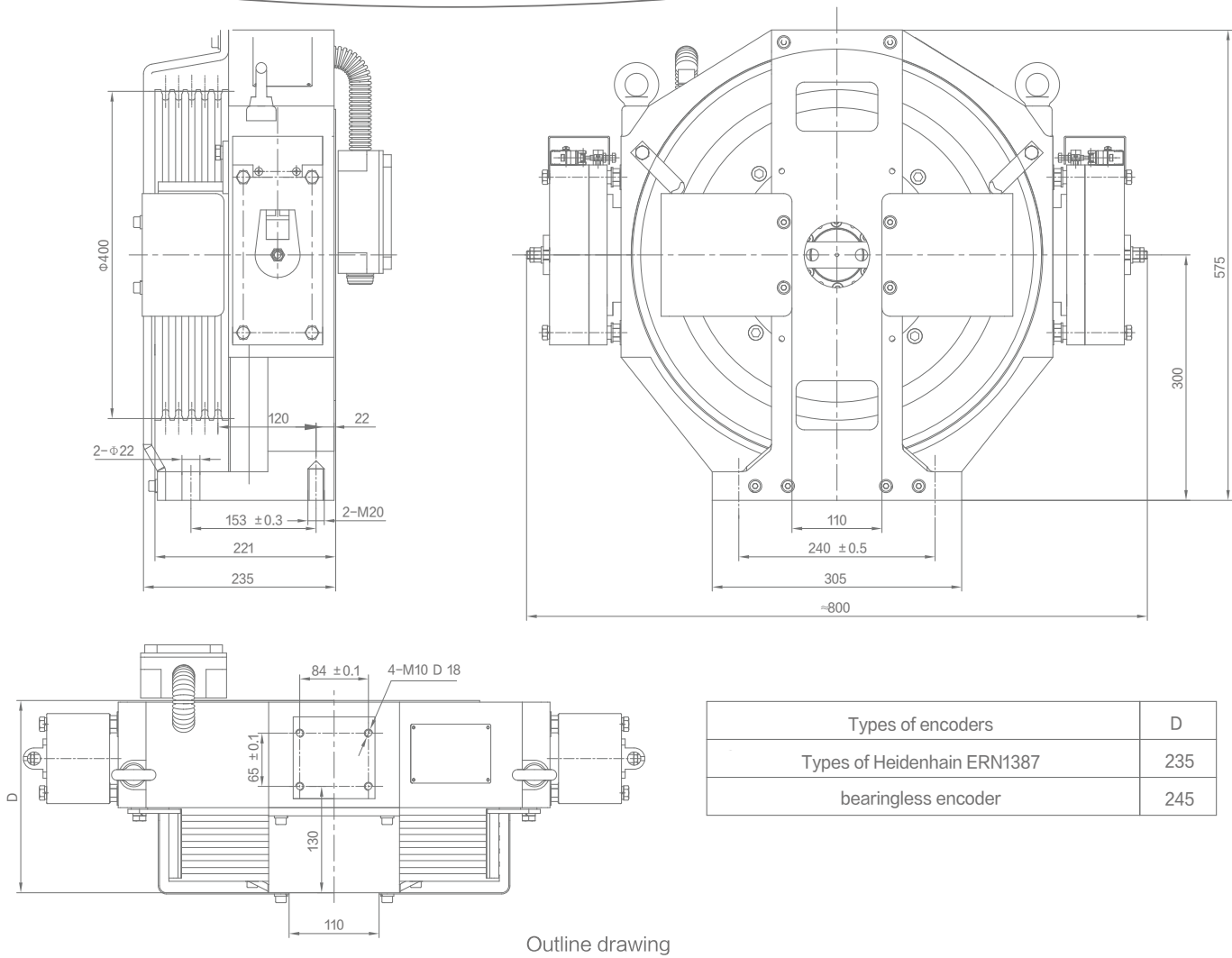
Features

- ◎ Special design for rail mount.
- ◎ Further improves heat dissipation.
- ◎ The outer rotor structure improves electromagnetic structure, result smooth low speed running and high overload capacity.
- ◎ Use block type armless brake, it has fast response time & high reliability.

Parameter of Brake

Model: BLB Ins.Class: F Voltage: DC110V
Current:

Capacity	Current
450~630kg	1.1A
800kg	1.3A



WYT-RCN Energy Conservation

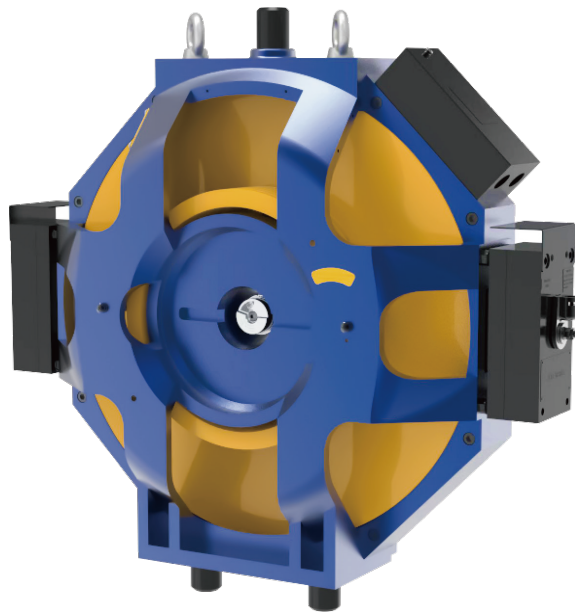
Height : ≤80m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)
WYT-R	CN1.0AM	450	1.0	φ 400	4	φ 10	16	7.7	96	24	3.2	320	2500	300
	CN1.5AM		1.5					11.3	144	36	4.8			
	CN1.6AM		1.6					11.6	153	38.3	5.1			
	CN1.75AM		1.75					12.4	168	42	5.6			
	CN1.0BM	630	1.0	φ 400	4	φ 10	16	10.4	96	24	4.6	460		
	CN1.5BM		1.5					16.7	144	36	6.9			
	CN1.6BM		1.6					17.1	153	38.3	7.4			
	CN1.75BM		1.75					17.8	168	42	8.1			
	CN1.0CM	800	1.0	φ 400	5	φ 10	16	12	96	24	5.2	520	3000	
	CN1.5CM		1.5					20.0	144	36	7.8			
	CN1.6CM		1.6					20.4	153	38.3	8.3			
	CN1.75CM		1.75					20.7	168	42	9.1			

WYT - R RAIL MOUNT SERIES

WYT-R Rail Mount Standard Version

WYT-R series products are the new generation outer rotor structure PM gearless traction machine developed by Bluelight in 2023. It is suitable for rail mount application.



Parameter of Traction Machine

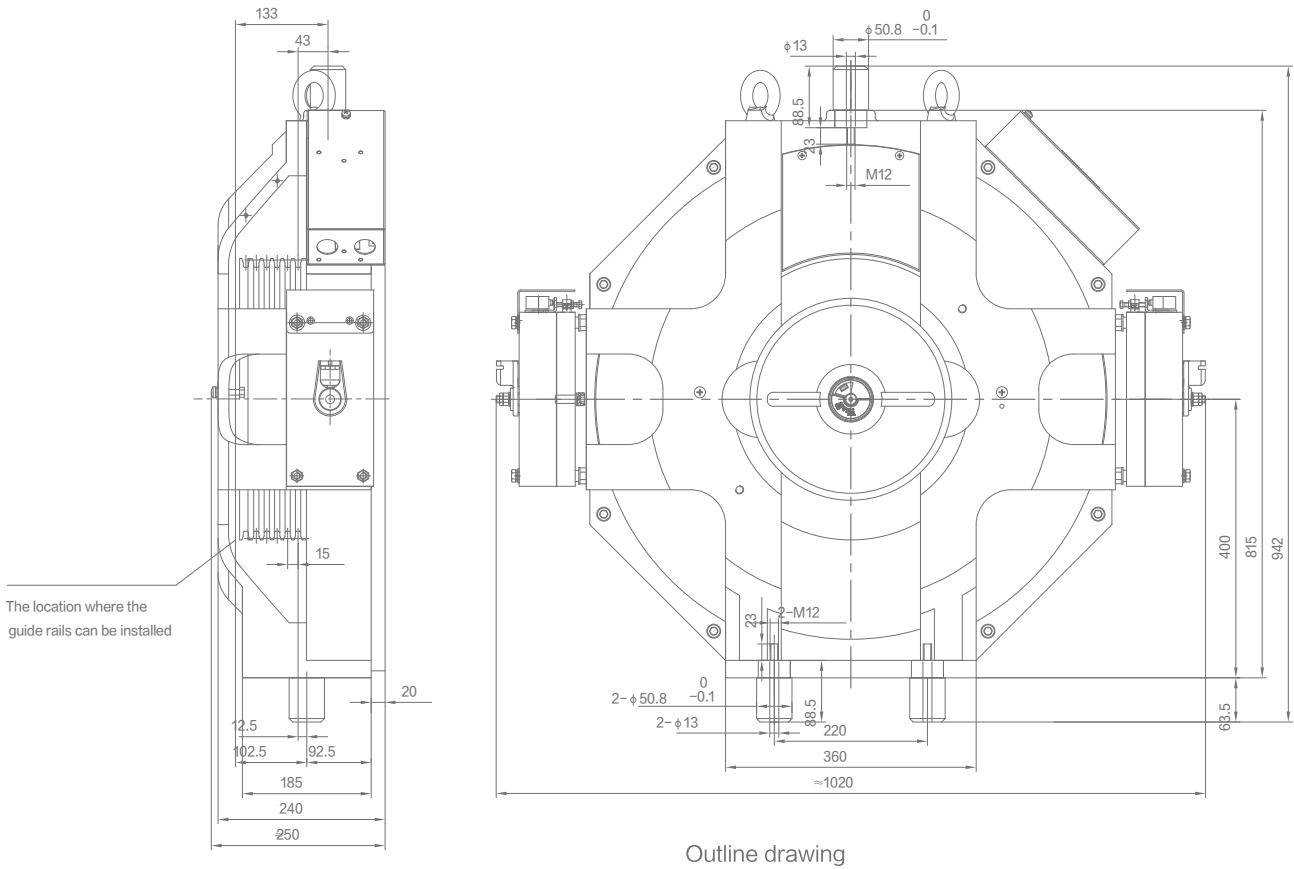
Voltage: AC380V
Roping: 2 : 1
Wrap: Single
Capacity: 800kg ~ 1150kg
Speed: 1.0m/s ~ 2.0m/s
Protection Grade: IP41
Ins. Class: F
Traction machine pole: 30
Stars per hour: 240
Rating: S5-40%

Parameter of Brake

Model: BLB
Current: 1.3A
Ins.Class: F
Voltage: DC110V

Features

- ◎ Special design for rail mount.
- ◎ Further improves heat dissipation.
- ◎ The outer rotor structure improves electromagnetic structure, result smooth low speed running and high overload capacity.
- ◎ Use block type armless brake, it has fast response time & high reliability.



WYT-R Rail Mount Series

Height : ≤90m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)
WYT-R	CN1.0CL	800	1.0	φ480	5	φ10	15	11.2	80	19.9	5.1	605	4000	≈450
	CN1.5CL		1.5					20.4	119	29.8	8.3	665		
	CN1.6CL		1.6					20.8	127	31.8	8.8	665		
	CN1.75CL		1.75					21.2	139	34.8	9.7	665		
	CN2.0CL	1000	2.0	φ400	5	φ10	15	24	159	39.8	11	605		
	CN1.0D		1.0					13.8	96	24	6.1	605		
	CN1.5D		1.5					25	144	36	10	665		
	CN1.6D		1.6					25.5	153	38.3	10.7	665		
	CN1.75D		1.75					26.2	168	42	11.7	665		
	CN2.0D	1000	2.0	φ480	5	φ10	15	29.8	192	48	13.4	800		
	CN1.0DL		1.0					15.1	80	19.9	6.7	800		
	CN1.5DL		1.5					25	119	29.8	10	800		
	CN1.6DL		1.6					25.2	127	31.8	10.7	800		
	CN1.75DL		1.75					25.6	139	34.8	11.7	800		
	CN2.0DL	1150	2.0	φ400	5	φ10	15	29	159	39.8	13.3	765		
	CN1.0E		1.0					17.2	96	24	7.7	765		
	CN1.5E		1.5					28.3	144	36	11.5	765		
	CN1.6E		1.6					28.7	153	38.3	12.3	765		
	CN1.75E		1.75					29.5	168	42	13.4	765		
	CN2.0E		2.0					33	192	48	15.4	765		

WYT - K / F BELT MACHINE SERIES

WYT-K Commercial Elevator Version

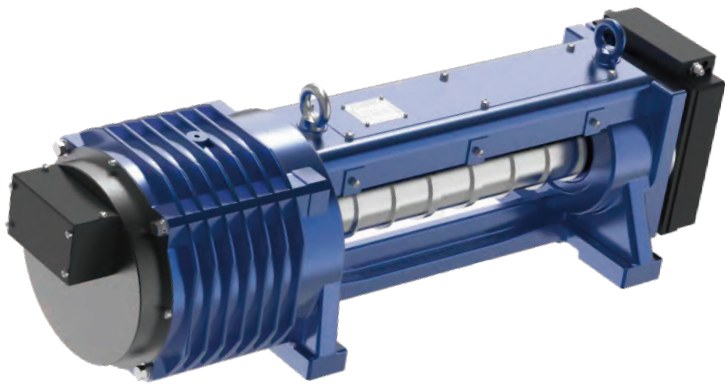
Due to increase needs of belt elevator, Bluelight group develop WYT-K series belt drive PMS machine. The belt machine can work with Bluelight belt (STD 43) to achieve best lift comfort level with minimum operation noise. This series machine has small size suitable for MRL design and easy maintenance.

Parameter of Traction Machine

Voltage: AC380V
Roping: 2 : 1
Wrap: Single
Capacity: 630kg ~2000kg
Speed: 1.0m/s ~ 2.5m/s
Protection Grade: IP41
Ins. Class: F
Traction machine pole: 10
Stars per hour: 240
Rating: S5-40%

Parameter of Brake

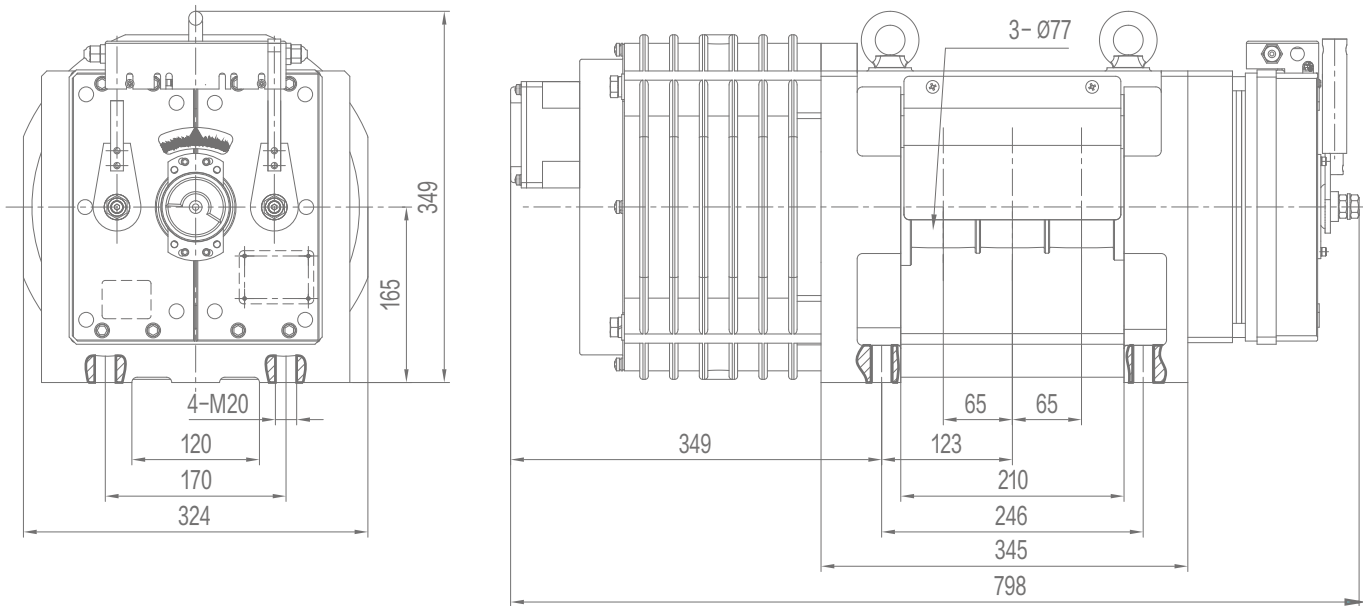
Model: BLS
Ins.Class: F
Voltage: DC110V
Current: 1.5A×2



Features

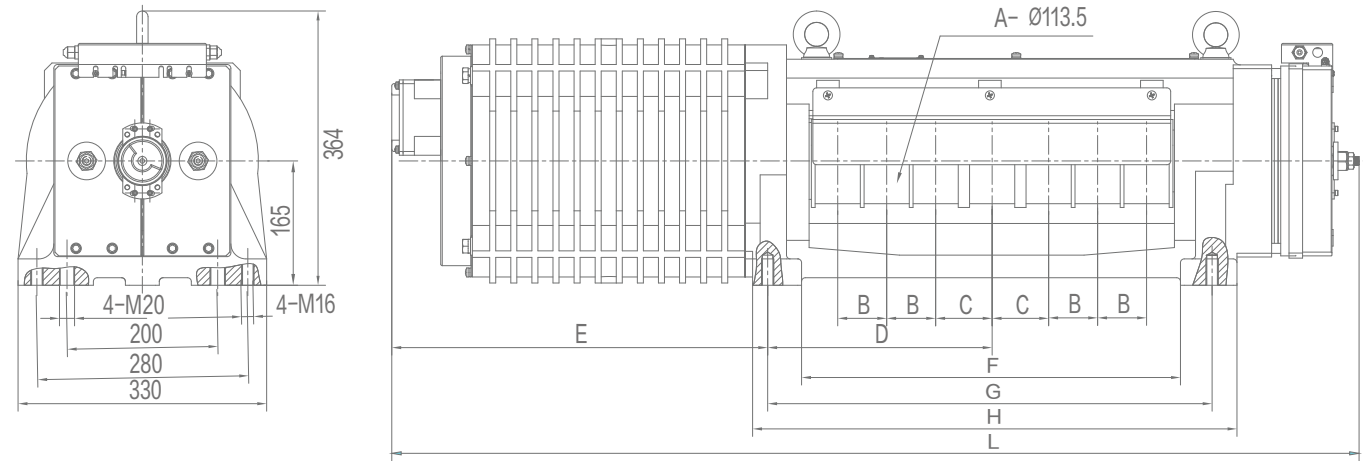
- ◎ Double support structure, reliable structure, better performance;
- ◎ Configured with shaft brake of low noise and compact structure;
- ◎ Use self-sealed bearings, maintenance-free;
- ◎ Electromagnetic structure optimization, smooth running and low noise.

WYT-K Series (630kg-1000kg)



630kg-1000kg Outline drawing

WYT-K Series (1150kg-2000kg)



Capacity (kg)	Num A	Pitch B	Pitch C	Center D	E	F	G	H	L
1150-1275	5	65	0	220	398	355	440	545	1037
1350					539				1178
1600-2000	7	65	75	298	499	503	590	643	1284

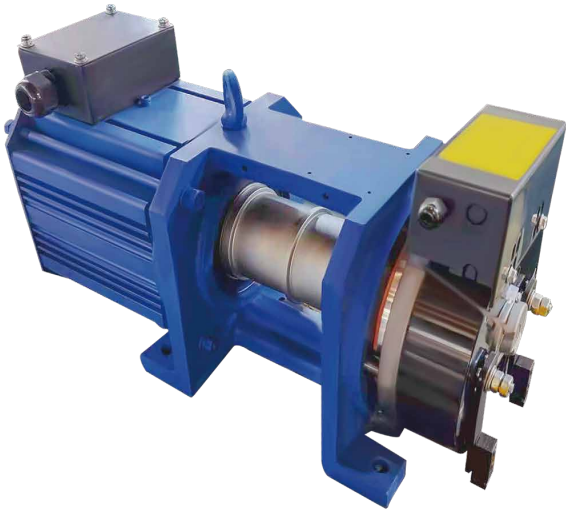
1150kg-2000kg Outline drawing

WYT-K Commercial Elevator Version

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	(mm)	Pitch (mm)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)	Parameter	
															Model	Breaking Force
WYT-K	N1.0B3	630	1.0	Φ77	3	60	65	9.3	496	41.3	4.2	80				
	N1.5B3		1.5					15.6	744	62	6.2					
	N1.6B3		1.6					15.8	794	66.2	6.7					
	N1.75B3		1.75					16	868	72.3	7.3					
	N2.0B3		2.0					18.3	992	82.7	8.3					
	N2.5B3		2.5					22.8	1240	103.3	10.4					
	N1.0C3	800	1.0	Φ77	3	60	65	12.5	496	41.3	5.5	105	3000	≈250		
	N1.5C3		1.5					20.2	744	62	8.2					
	N1.6C3		1.6					20.4	794	66.2	8.7					
	N1.75C3		1.75					20.6	868	72.3	9.5					
	N2.0C3		2.0					23.7	992	82.7	10.9					
	N2.5C3		2.5					29.6	1240	103.3	13.6					
	N1.0D3	1000	1.0	Φ77	3	60	65	15.3	496	41.3	6.8	130				
	N1.5D3		1.5					25	744	62	10.1					
	N1.6D3		1.6					25.2	794	66.2	10.8					
	N1.75D3		1.75					25.4	868	72.3	11.8					
	N2.0D3		2.0					29.3	992	82.7	13.5					
	N2.5D3		2.5					36.5	1240	103.3	16.9					
	N1.0E5	1150	1.0	Φ113.5	5	60	65	17.4	337	28.1	7.6	215				
	N1.5E5		1.5					28.8	505	42.1	11.4					
	N1.6E5		1.6					29	538	44.8	12.1					
	N1.75E5		1.75					29.2	589	49.1	13.3					
	N2.0E5		2.0					33.3	673	56.1	15.2					
	N2.5E5		2.5					41.6	841	70.1	18.9					
	N1.0F5	1275	1.0	Φ113.5	5	60	65	19.2	337	28.1	8.5	240				
	N1.5F5		1.5					31.8	505	42.1	12.7					
	N1.6F5		1.6					32	538	44.8	13.5					
	N1.75F5		1.75					32.2	589	49.1	14.8					
	N2.0F5		2					35.5	673	56.1	16.9					
	N2.5F5		2.5					46.3	841	70.1	21.1					
	N1.0G5	1350	1.0	Φ113.5	5	60	65	20.4	337	28.1	9.0	255	5000	≈400		
	N1.5G5		1.5					34.2	505	42.1	13.5					
	N1.6G5		1.6					34.4	538	44.8	14.4					
	N1.75G5		1.75					34.6	589	49.1	15.7					
	N2.0G5		2					39.4	673	56.1	18.0					
	N2.5G5		2.5					49.3	841	70.1	22.5					
	N1.0H7	1600	1.0	Φ113.5	7	60	65	24	337	28.1	10.6	300				
	N1.5H7		1.5					40	505	42.1	15.9					
	N1.6H7		1.6					40.2	538	44.8	16.9					
	N1.75H7		1.75					40.4	589	49.1	18.5					
	N2.0H7		2					46	673	56.1	21.1					
	N2.5H7		2.5					57.8	841	70.1	26.4					
	N1.0J7	2000	1.0	Φ113.5	7	60	65	30.0	337	28.1	13.2	375		≈450		
	N1.5J7		1.5					50.4	505	42.1	19.8					
	N1.6J7		1.6					50.6	538	44.8	21.1					
	N1.75J7		1.75					50.8	589	49.1	23.1					
	N2.0J7		2					58.0	673	56.1	26.4					
	N2.5J7		2.5					72.4	841	70.1	33.0					

WYT-F Home Elevator Version

Due to increase needs of home (belt villa) elevator, Bluelight group develop WYT-F series belt drive PMS machine. The belt machine can work with Bluelight belt (43 kN) to achieve best lift comfort level with minimum operation noise. This series machine has small size suitable for MRL design and easy maintenance.



Parameter of Traction Machine

- Voltage:AC380V/AC220V
- Roping:2:1
- Wrap:Single
- Capacity:450kg
- Wheel Diameter:Φ100
- Speed:0.4m/s~1.0m/s
- Protection Grade:IP41
- Ins.Class :F
- Traction machine pole:20
- Stars perhour:150
- Rating:S5-25%

Features

- ⦿ Machine is made of aluminum alloy material, with good heat dissipation, small size and light weight;
- ⦿ Configured with shaft brake of low noise and compact structure;
- ⦿ Adopt two blance full sealed bears, free maintain;
- ⦿ Smooth running, excellent performance at low speed.

Standard Series

WYT-T
WYT-TS
WYT-TF
WYT-TD
WYT-TE

Comfortable Series

WYT-L

Freight Elevator Series

WYT-TD
WYT-TE
WYT-V
WYT-VIS

High Speed Series

WYT-J
WYT-H

Heavy Load Series

WYT-V
WYT-VIS

Rail Mount Series

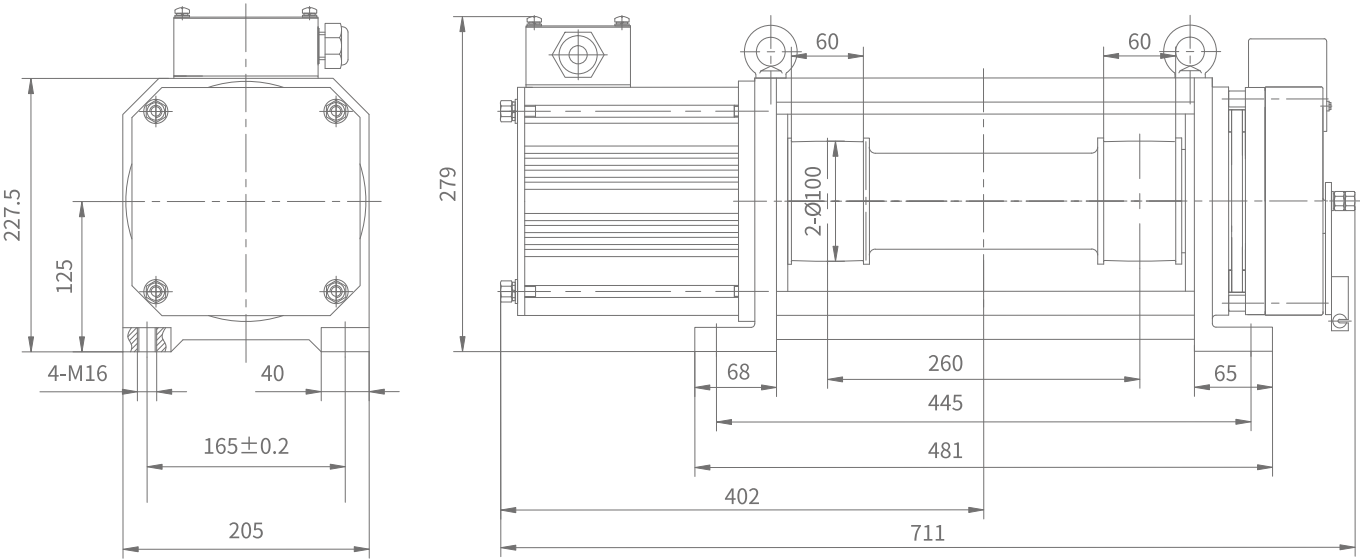
WYT-R

Belt Machine Series

WYT-K
WYT-F

The Parameter List of Groove

WYT-F Series (2-Wheel Separated)



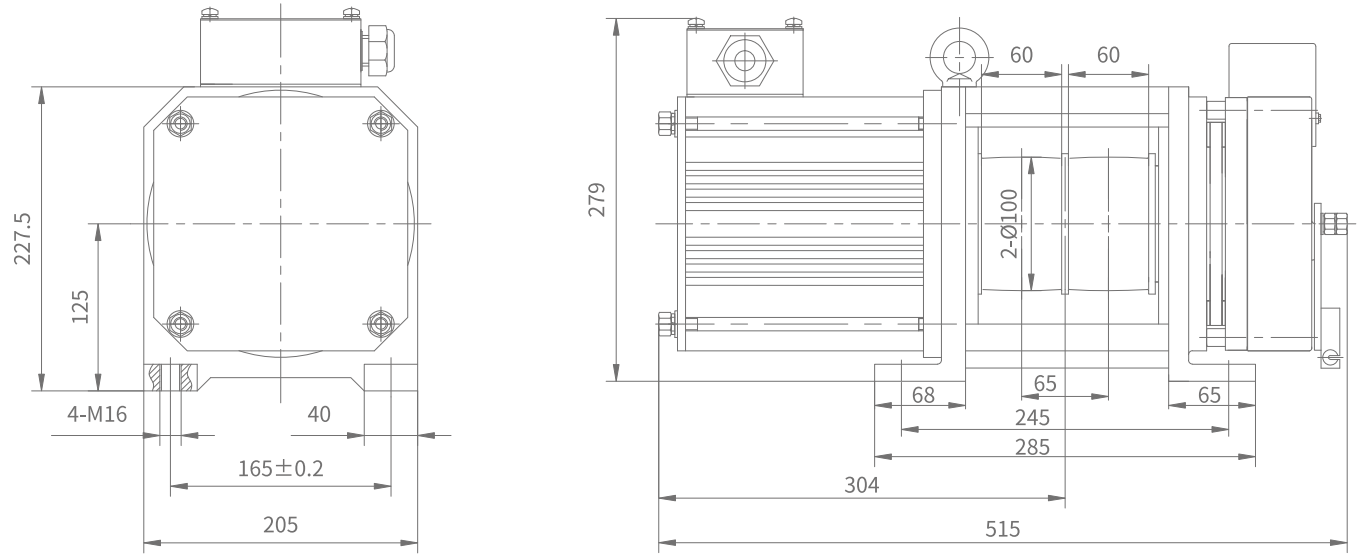
Outline drawing

Technical parameters

Height: ≤20m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	Width (mm)	Pitch (mm)	Voltage (v)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)
WYT-F	E2V0.4B 100/260	450	0.4	φ 100	2	60	260	380	3.3	153	25.5	1.1	70	2000	≈100
								220	5.7						
	E2V1.0B 100/260	1.0	380					6.4	382	63.7	2.8				
			220					11							

WYT-F Series (2-Wheel Parallel)



Outline drawing

Technical parameters

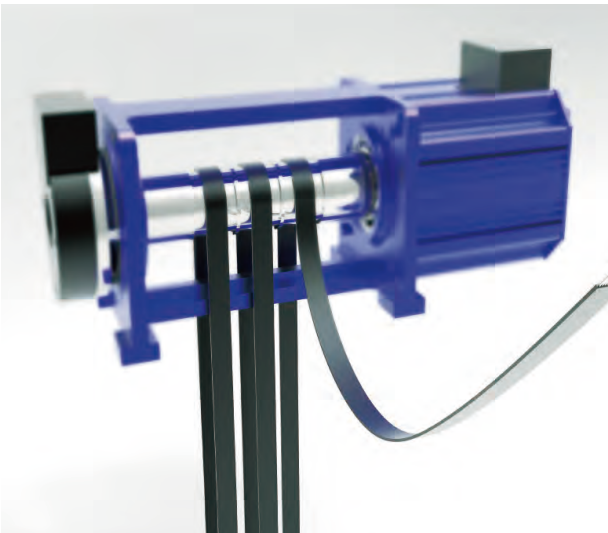
Height: ≤20m

Series	Type	Capacity (kg)	Speed (m/s)	Sheave (mm)	Num	Width (mm)	Pitch (mm)	Voltage (v)	Current (A)	Motor Speed (rpm)	Frequency (Hz)	Power (kW)	Torque (Nm)	Shaft Load (kg)	Weight (kg)
WYT-F	E2V0.4B 100/65	450	0.4	φ 100	2	60	65	380	3.3	153	25.5	1.1	70	2000	≈90
								220	5.7						
	E2V1.0B 100/65		1.0					380	6.4	382	63.7	2.8			
								220	11						

ACCESSORIES - BELT

SYLG-EB Hoisting Belt for Elevator

Bluelight has complete production lines from precise galvanized steel rope to elevator traction belt. The annual production capacity of elevator steel belt is 2 million meters. R&D center has invested full sets of testing equipment for elevator traction belt examination and certification, as well supporting product development and customer cooperation.



Application

Number of belt with different model				
Load(kg)	Roping Ratio	32kN	43kN	64kN
630	2 : 1	2		
800	2 : 1	3		
1000	2 : 1	4	3	
1250	2 : 1	5	4	
1600	2 : 1	6	6	3

- Calculated by safety factor of 12.
- Nominal strength is counted by minimum breaking force with safety margin.
- Using 3 belts is the most economic efficiency.

Features

- All series products use BASF Elastogran high hardness TPU, it has excellent mechanical and chemical features.
- World class technic to produce high prevision galvanized no joint steel rope, with uniform shaping, high fatigue durability and corrosion resistance.
- Focus on surface treatment, equivalent friction coefficient is stable and capable of handling complicated working conditions.
- Online contour scanning system, real-time monitoring of external dimensions to ensure the same quality of every meter of traction belt.
- Traction belt under strict fatigue test during development process. Life time is more than 10 million times bending test.
- Unique **SITONADH™** surface coating for precise galvanized steel core, the bonding force of the steel core and polyurethane exceeds 10 times the national standard, avoiding the risk of delamination and cracking of the steel belt.

32kN Hoisting Belt for Elevator (SYLG-EB-32A)

Item	Unit	Standards
Min Force	kN	32
Width	mm	30
Thickness	mm	3.0
Number of steel core	-	12
Steel core diameter	mm	1.61
Strength of steel core	N	3000
Min bending diameter	mm	80
Weight per meter	g/m	200

32kN Grade Traction Belt

- Suitable for low to medium floor passenger elevators,villa elevators and most elevator applications.
- 30mm width, common size in the market.
- 2:1 and 1:1 roping ratio.
- 12 hyperfine steel cores with only 1.6mm diameter.

34kN Hoisting Belt for Elevator (SYLG-EB-34A)

Item	Unit	Standards
Min Force	kN	34
Width	mm	25
Thickness	mm	3.3
Number of steel core	-	8
Steel core diameter	mm	1.98
Strength of steel core	N	4550
Min bending diameter	mm	100
Weight per meter	g/m	190

34kN Grade Traction Belt

- Suitable for low speed villa elevators.
- Lighter, stronger and more economic.
- 2:1 roping ratio.
- 25mm width applications.
- 8 high precision steel cores with 1.98mm diameter.

43kN Hoisting Belt for Elevator (SYLG-EB-43A)

Item	Unit	Standards
Min Force	kN	43
Width	mm	30
Thickness	mm	3.3
Number of steel core	-	10
Steel core diameter	mm	1.98
Strength of steel core	N	4550
Min bending diameter	mm	100
Weight per meter	g/m	230

43kN Grade Traction Belt

- Suitable for commercial elevators, medium to high floor passenger elevators and heavy load villa elevators.
- 30mm width, common size in the market.
- 10 high precision steel cores with 1.98mm diameter.

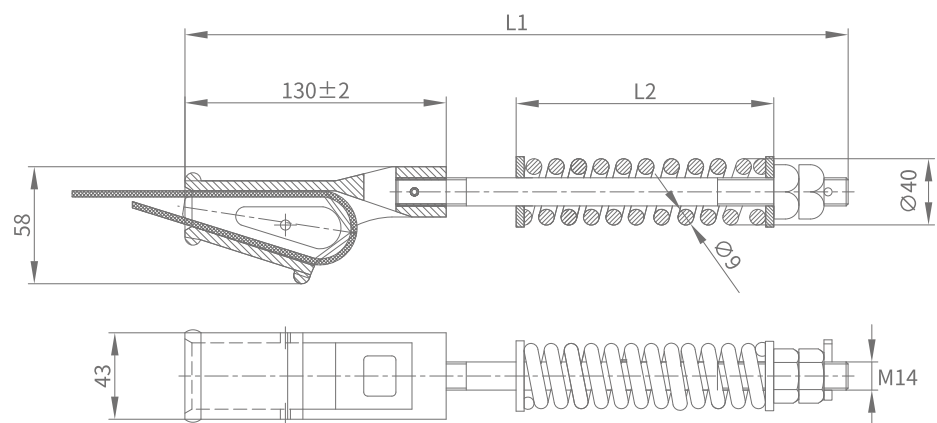
64kN Hoisting Belt for Elevator (SYLG-EB-64A)

Item	Unit	Standards
Min Force	kN	64
Width	mm	60
Thickness	mm	3.0
Number of steel core	-	24
Steel core diameter	mm	1.61
Strength of steel core	N	3000
Min bending diameter	mm	80
Weight per meter	g/m	400

64kN Grade Traction Belt

- Suitable for freight elevators, bed elevators and heavy load passenger elevators.
- 60mm width, requires high installation quality.
- 24 hyperfine steel cores with only 1.6mm diameter.

ACCESSORIES - SHACKLES



Outline drawing

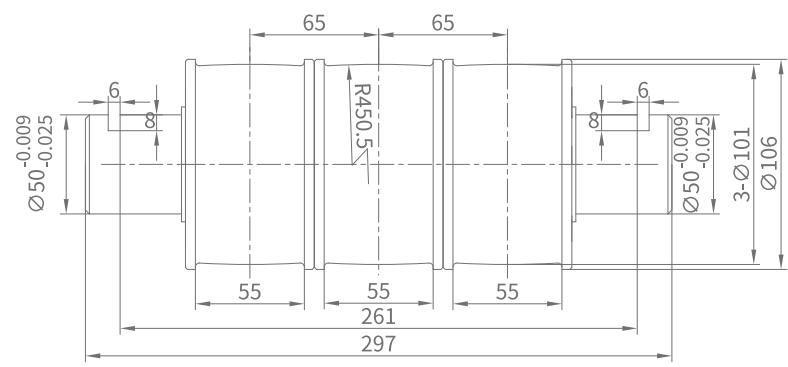
Parameter of Shackles

Model	Suitable traction belt width	Max lifting height	L1 (mm)	L2 (mm)	Note
GD-ST-30-12A	30mm	H≤12m	240	20	Home Elevator / Rubber Pier Style
GD-ST-30-12B	30mm	H≤12m	330	107	Home Elevator
GD-ST-30-12	30mm	H≤12m	393	107	Passenger Elevator / Home Elevator
GD-ST-30-20	30mm	12m≤H≤20m	418	107	Passenger Elevator / Freight Elevator
GD-ST-30-50	30mm	20m≤H≤50m	460	204	Passenger Elevator / Freight Elevator
GD-ST-30-80	30mm	50m≤H≤80m	518	204	Passenger Elevator / Freight Elevator

ACCESSORIES - WHEEL ASSEMBLY

WYT-K 630kg-1000kg Wheel Assembly

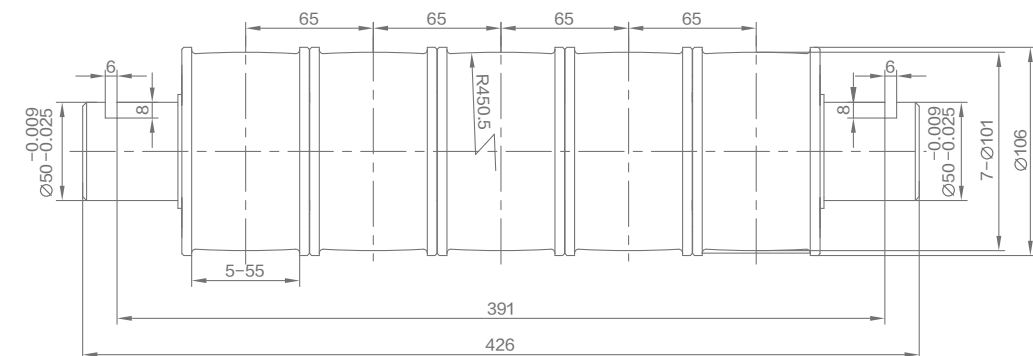
Model: ZLF 106/55-3-6210-297



Outline drawing

WYT-K 1150kg-1350kg Wheel Assembly

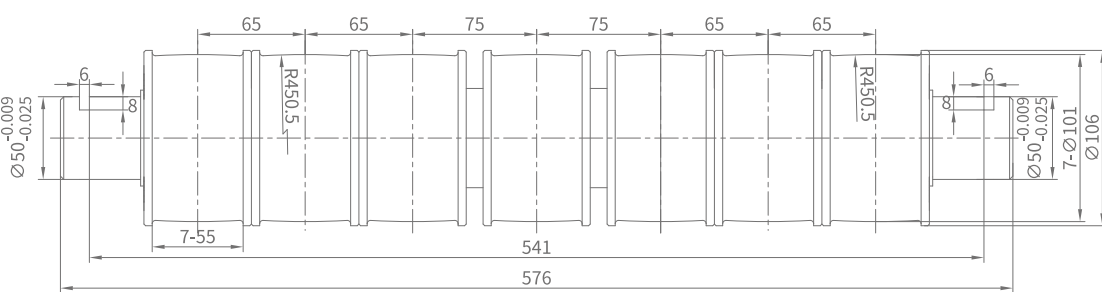
Model: ZLF 106/55-5-6210-426



Outline drawing

WYT-K 1600kg-2000kg Wheel Assembly

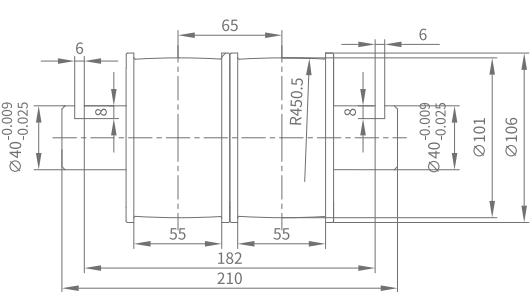
Model: ZLF 106/55-7-6210-576



Outline drawing

WYT-F 2-Wheel Parallel Steel Belt Guide Wheel Assembly

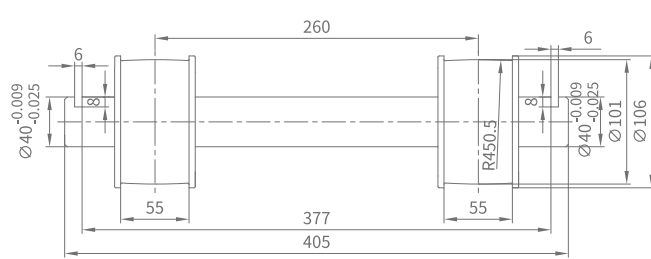
Model: ZL106/55-2-6208-210



Outline drawing

WYT-F 2-Wheel Split Steel Belt Guide Wheel Assembly

Model: ZLF 106/55-2-6208-405



Outline drawing

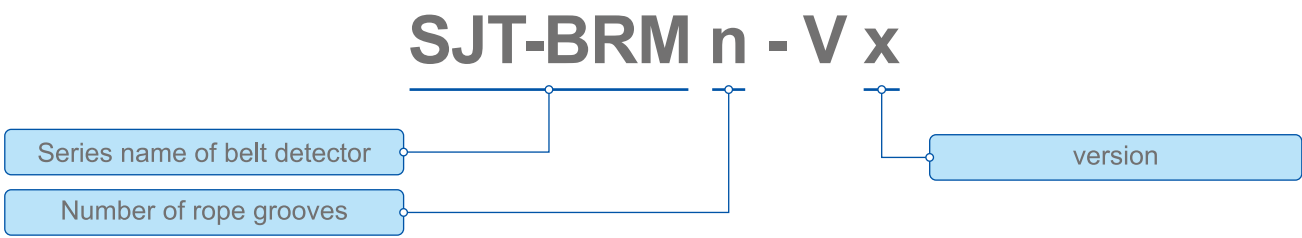
Standard Series	WYT-T	WYT-TS	WYT-TF	WYT-TD	WYT-TE
Comfortable Series	WYT-L				
Freight Elevator Series					
	WYT-TD	WYT-TE	WYT-V	WYT-VIS	
High Speed Series	WYT-J	WYT-H			
Heavy Load Series	WYT-V	WYT-VIS			
Rail Mount Series	WYT-R				
Belt Machine Series	WYT-K	WYT-F			
The Parameter List of Groove					

ACCESSORIES - BELT DETECTOR

SJT-BRM Series Belt Detector



Model description of belt detector

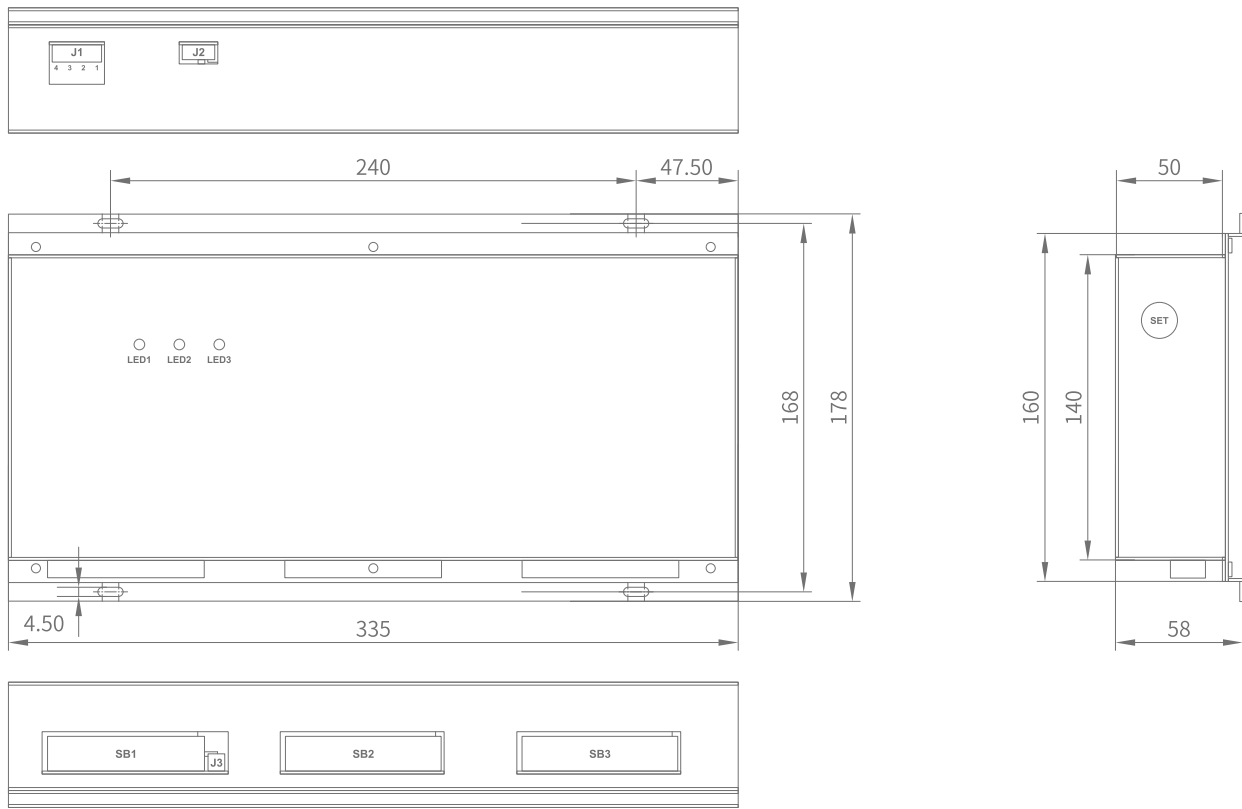


Parameter

Model	Number of rope grooves	Belt model	Number of steel wires per belt	Width	Voltage
SJT-BRM3-V1	2 / 3	SYLG-EB-32A	10 X 12	30	DC24V
		SYLG-EB-43A			

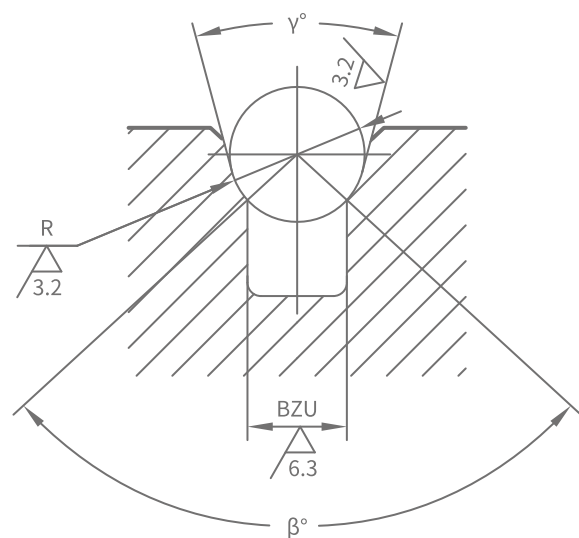
Functional characteristics

- Multiple fault detections: **Steel core open circuit, Short circuit, Steel core exposed.**
 - 1. Steel core open circuit:** One or more steel cores can be detected.
 - 2. Short circuit of steel core:** Two or more steel cores exposed, and the exposed areas can be detected by overlapping and connecting them.
 - 3. Steel core exposed:** One or more steel cores are exposed and can be detected by overlapping with the external metal structure (PE).
- Continuous resistance monitoring: Independent resistance monitoring for each steel strip (resolution ≤1%)
- Failure alarm output: relay normally open point fault output, independent fault light indication for each belt;
- Multi-steel belt monitoring: 1-3 strips (10-core or 12-core belt);
- Mobile APP debugging: Built-in Bluetooth module, use mobile APP debugging.
- Others: One-click detection / self-learning.

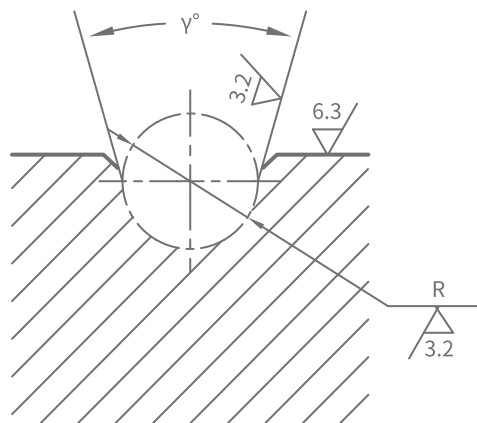


Outline drawing

THE PARAMETER LIST OF GROOVE



Single groove



Double groove

Groove	R	β	γ	BZU
Single groove	Ø6	90°	35°	4.24
	Ø8	90°	30°/35°	5.66
	Ø10	97°	25°	7.49
	Ø12	95°	35°	8.85
Double groove	Ø10		35°	
	Ø12		35°	
	Ø16		35°	