



Intelligent Permanent Magnet Drive Expert Technology Makes Transmission Simpler

Shandong Ouruian Electric Co.,Ltd.

Taian • China

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Corporate Culture

Pursuing excellent quality!

Innovating and advancing constantly!

Creating world-class products!

Serving customers wholeheartedly!



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Company Profile

SHANDONG OURUIAN ELECTRIC CO., LTD.

ORA founded in 2013, is located in Tai'an city, Shandong province, China. The company has a registered capital of 51.6 million yuan and covers an area of 42500 square meters, and currently employs more than 200 people. The company focuses on Permanent Magnet Synchronous Motor, short name PMSM, Variable Frequency Drives, short name VFD, integrated product PMSM+VFD, Permanent Magnet Synchronous Electric Pulley, short name PMSEP, and intelligent control system.

The company is a national high-technical enterprise integrating Industry-University-Research. The Intelligent Permanent Magnet Direct Drive Technology developed by the company has been recognized as a world advanced level by national authorities. The company has obtained China Compulsory Certification (CCC), Quality Management (ISO9001), Environmental Management (ISO14001), Occupational Health and Safety Management (ISO45001), and Conformité Européenne (CE) etc. The products have multiple voltage levels, with a power range of 4-5,000kW. And the products have achieved applications on belt conveyors, mills, fans, presses, pump stations, stone cutting machines etc., involving many industries such as coal mining, cement, power plants, port and so on. The products are exported to many countries such as Indonesia, Sierra Leone, the Democratic Republic of Congo, Serbia, Madagascar, Vietnam, Laos etc., which strongly supports the construction of "the Belt and Road".



Aptitude and Honor



Aptitude and Situation

ORA has achieved many awards, honors and patents in different industries. Among of those, the **National Science and Technology Award** granted by the Chinese government in 2019 is the highest honor in China. The project focus on key technology of long distance high capacity belt conveyor system with complex terrain.

No.	Honor/Qualification	Level	Issuing Authority
1	National Science and Technology Progress Award	Second Prize	The State Council
2	National High-Tech Enterprise	Enterprise Qualification	Shandong Provincial Department of Science and Technology, Shandong Provincial Department of Finance, State Taxation Administration Shandong Provincial Taxation Bureau
3	National Specialized and Sophisticated "Little Giant" Enterprise	Enterprise Qualification	Ministry of Industry and Information Technology
4	National Intellectual Property Advantage Enterprise	Enterprise Qualification	National Intellectual Property Administration
5	China Industry-University-Research Cooperation Innovation Demonstration Enterprise	Enterprise Qualification	China Industry-University-Research Collaboration Promotion Association
6	National First (Set) Major Technical Equipment	Product Qualification	Ministry of Industry and Information Technology
7	Advanced and Adaptive Technology Equipment for Coal Mine Safety Production	Product Qualification	National Coal Mine Safety Administration
8	Energy-saving Technology Equipment in Industrial and Information Technology Fields	Product Qualification	Ministry of Industry and Information Technology
9	China Good Technology	Product Qualification	China Productivity Promotion Center Association
10	Specialized and Sophisticated Achievements in Heavy Machinery Industry	Product Qualification	China Heavy Machinery Industry Association
11	China National Coal Association Science and Technology Award	First Prize (2 items)	China National Coal Association, China Coal Society
12	China Machinery Industry Science and Technology Award	First Prize	China Machinery Industry Federation, Chinese Mechanical Engineering Society
13	China Nonferrous Metals Science and Technology Award	First Prize	China Nonferrous Metals Industry Association, The Nonferrous Metals Society of China
14	China Industry-University-Research Cooperation Innovation Achievement Award	Second Prize	China Industry-University-Research Collaboration Promotion Association
15	The 4th China Innovation and Entrepreneurship Competition	National Excellent Enterprise	China Innovation and Entrepreneurship Competition Organizing Committee
16	The 6th Green Manufacturing Science and Technology Progress Award	Second Prize	Chinese Mechanical Engineering Society
17	The 1st Safety Science and Technology Progress Award	Second Prize	China Association of Work Safety
18	Shandong Provincial Energy Conservation Award	Outstanding Achievement	Shandong Provincial People's Government
19	China Shandong High-Value Patent Cultivation Competition for Old and New Kinetic Energy Conversion	Excellence Award	China Shandong High-Value Patent Cultivation Competition for Old and New Kinetic Energy Conversion
20	Shandong Provincial Technology Market Golden Bridge Award	First Prize	Shandong Provincial Technology Market Association
21	Shandong Provincial Hidden Champion Enterprise	Enterprise Qualification	Shandong Provincial Department of Industry and Information Technology
22	Shandong Provincial Manufacturing Single Champion Enterprise	Enterprise Qualification	Shandong Provincial Department of Industry and Information Technology
23	Shandong Provincial Technological Innovation Demonstration Enterprise	Enterprise Qualification	Shandong Provincial Department of Industry and Information Technology
24	Shandong Provincial High-end Brand Cultivation Enterprise	Enterprise Qualification	Shandong Provincial Market Supervision Administration
25	Shandong Provincial Integration of Informatization and Industrialization Excellent Enterprise	Enterprise Qualification	Shandong Provincial Integration of Informatization and Industrialization Promotion Center

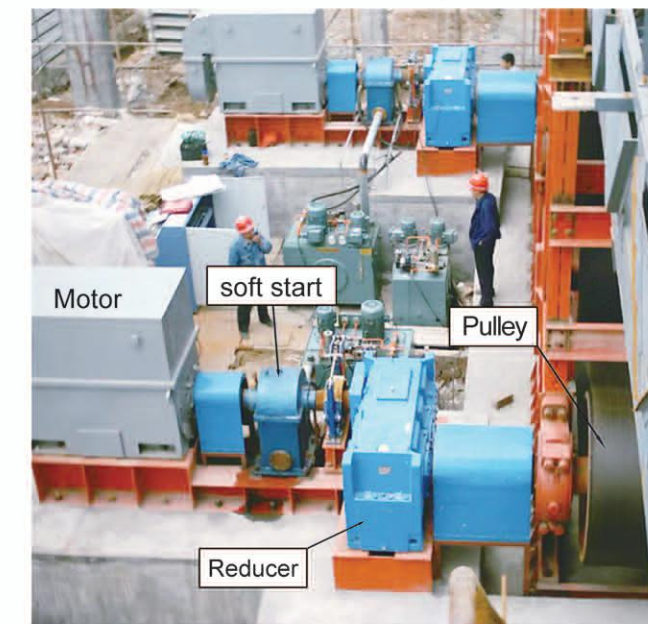
Advanced Equipment



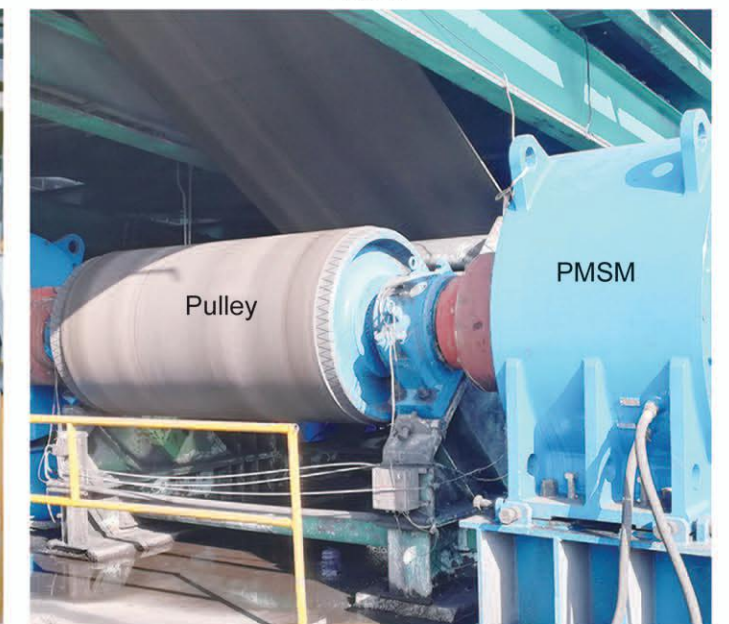
Intelligent Permanent Magnet Direct Drive System

The intelligent permanent magnet direct drive system directly drives the load, eliminating all intermediate transmission equipment, improving system efficiency by more than 20%. At the same time, the system uses Sensorless Vector Control (SVC) technology to achieve slow and uniform starting of the equipment, avoiding the electrical shock caused by the instantaneous high current of the motor starting to the power grid and the mechanical shock caused by torque fluctuations to the drive system.

Traditional Driving



PMSM



Advantages

- ◆ Simple drive system - PMSM + Pulley;
- ◆ Intelligent digitization - self-diagnosis capability for intelligent control;
- ◆ large starting torque, strong overload capacity;
- ◆ Superior performance - maintenance free, high-efficiency & energy-saving, low vibration & noise, safe and reliable.

PMSM of TBVF (TYVF) Series

The TBVF (TYVF) series PMSM can be used in belt conveyors, mills, fans, and other mechanical equipment, widely used in mines, cement, power plants, ports, oil fields etc., and have received high praise from customers.

Advantages

- ◆High Efficiency - the motor efficiency can reach up to 97.35%.
- ◆Low Maintenance - 80% reduction in maintenance.
- ◆Large Torque - the starting torque is 220% of the rated torque.
- ◆High Balance - the imbalance is within 3% when driven by multiple motors.



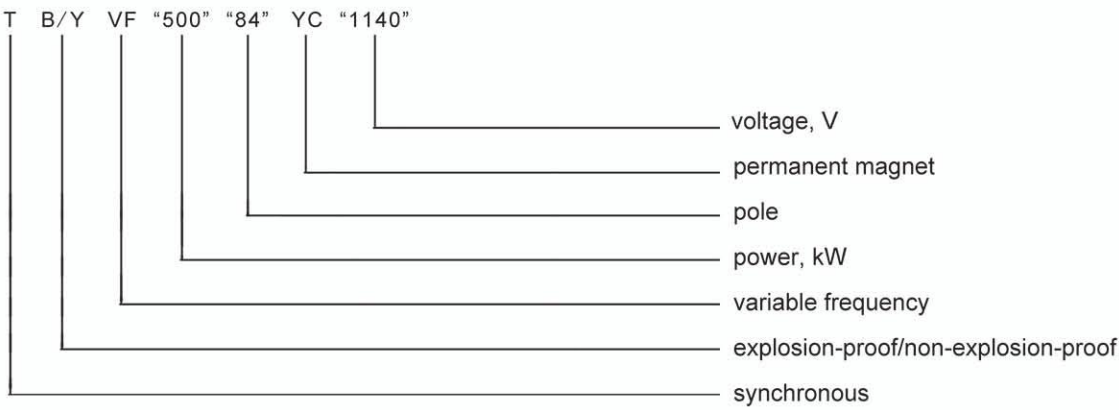
Selection Guide

- The selection of PMSM should be based on the rated torque, and the key points are as follows:
- ◆Confirm the driving torque for the load equipment; If there is no original design document for the renovation project, the driving torque can be calculated based on the parameters of the original asynchronous motor and the reduction ratio of the reducer.
 - ◆The rated torque of PMSM $\geq$ the required driving torque of the load equipment (with a margin coefficient of 1.1 to 1.2 times).
 - ◆Confirm the power supply voltage. If the on-site voltage is special, please communicate with our technical department in time.

- ◆Confirm the speed range. the maximum speed of PMSM $\geq$ the maximum required speed of the load equipment (e.g. convert the belt speed of conveyor to rotational speed of the driving pulley).
- ◆Confirm the PMSM type based on the selected performance parameters.
- ◆Confirm whether the selected PMSM can be installed on site based on the external dimensions of PMSM in the parameter table.
- ◆In addition, our company can design and manufacture PMSM with voltage levels of 380-10,000V and power levels of 30-4000kW according to customer requirements.

Specification and Model Description e. g.

TBVF – 500/84 YC (1140) TYVF – 500/84 YC (1140)



Description of Operating Environment and Other Motor Parameters

Explosion proof type	Mining explosion-proof type
Explosion proof sign	Exd I Mb / Exdb I Mb
Shell protection level	IP55
cooling methods	IC46W (water cooled)
Duty	S1
Insulation level	H
Ambient temperature	0-40 ℃ (special treatment can be performed in extreme cases, with a low temperature of up to -50 ℃)

PMSM Torque Selection Table

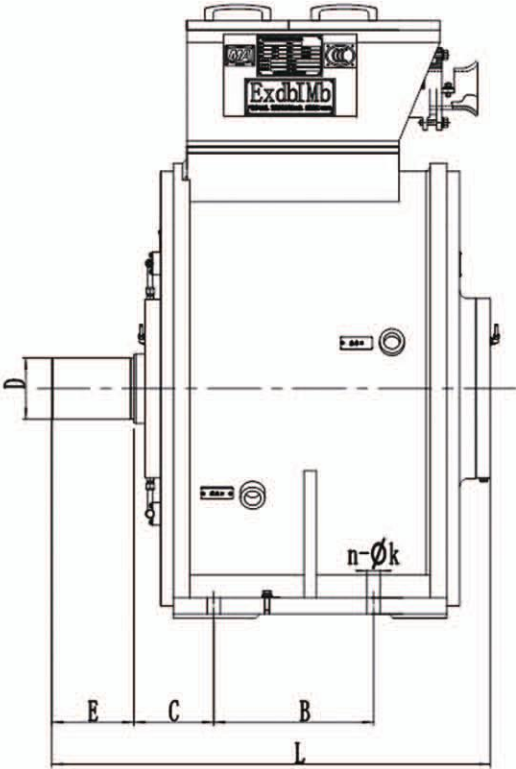
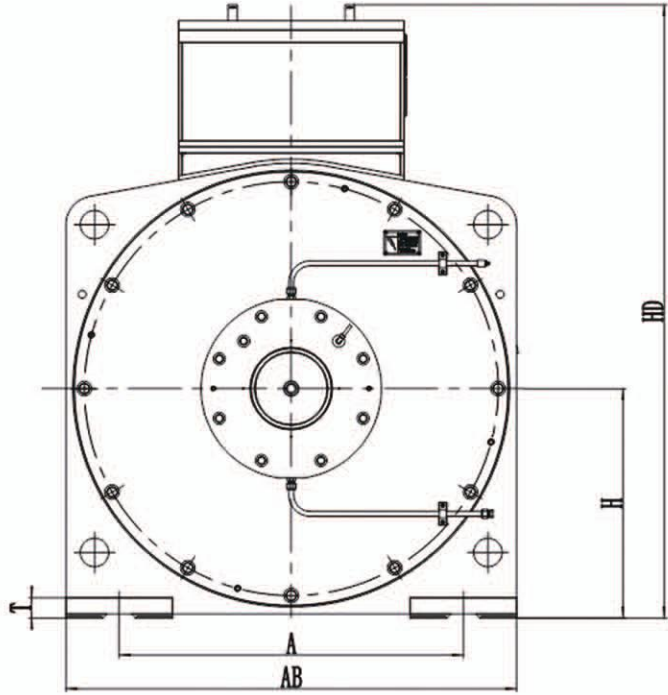
Reference type (90 r/min)	Rated Torque (N.m) Power (kW)	135	120	105	90	75	60	55	45	35
TB(Y)VF-30YC	30	2122	2388	2729	3183	3820	4775	5209	6367	8186
TB(Y)VF-37YC	37	2617	2945	3365	3926	4711	5889	6425	7852	10096
TB(Y)VF-40YC	40	2830	3183	3638	4244	5093	6367	6945	8489	10914
TB(Y)VF-45YC	45	3183	3581	4093	4775	5730	7163	7814	9550	12279
TB(Y)VF-55YC	55	3891	4377	5002	5836	7003	8754	9550	11672	15007
TB(Y)VF-75YC	75	5306	5969	6821	7958	9550	11938	13023	15917	20464
TB(Y)VF-90YC	90	6367	7163	8186	9550	11460	14325	15627	19100	24557
TB(Y)VF-110YC	110	7781	8754	10005	11672	14007	17508	19100	23344	30014
TB(Y)VF-132YC	132	9338	10505	12006	14007	16808	21010	22920	28013	36017
TB(Y)VF-160YC	160	11319	12733	14552	16978	20373	25467	27782	33956	43657
TB(Y)VF-185YC	185	13087	14723	16826	19631	23557	29446	32123	39261	50479
TB(Y)VF-200YC	200	14148	15917	18190	21222	25467	31833	34727	42444	54571
TB(Y)VF-220YC	220	15563	17508	20010	23344	28013	35017	38200	46689	60029
TB(Y)VF-250YC	250	17685	19896	22738	26528	31833	39792	43409	53056	68214
TB(Y)VF-280YC	280	19807	22283	25467	29711	35653	44567	48618	59422	76400
TB(Y)VF-315YC	315	22283	25069	28650	33425	40110	50138	54695	66850	85950
TB(Y)VF-355YC	355	25113	28252	32288	37669	45203	56504	61641	75339	96864
TB(Y)VF-400YC	400	28296	31833	36381	42444	50933	63667	69455	84889	109143
TB(Y)VF-450YC	450	31833	35813	40929	47750	57300	71625	78136	95500	122786
TB(Y)VF-500YC	500	35370	39792	45476	53056	63667	79583	86818	106111	136429
TB(Y)VF-560YC	560	39615	44567	50933	59422	71307	89133	97236	118844	152800
TB(Y)VF-630YC	630	44567	50138	57300	66850	80220	100275	109391	133700	171900
TB(Y)VF-710YC	710	50226	56504	64576	75339	90407	113008	123282	150678	193729
TB(Y)VF-800YC	800	56593	63667	72762	84889	101867	127333	138909	169778	218286
TB(Y)VF-900YC	900	63667	71625	81857	95500	114600	143250	156273	191000	245571
TB(Y)VF-1000YC	1000	70741	79583	90952	106111	127333	159167	173636	212222	--
TB(Y)VF-1120YC	1120	79230	89133	101867	118844	142613	178267	194473	237689	--
TB(Y)VF-1250YC	1250	88426	99479	113690	132639	159167	198958	217045	--	--
TB(Y)VF-1400YC	1400	99037	111417	127333	148556	178267	222833	243091	--	--
TB(Y)VF-1600YC	1600	113185	127333	145524	169778	203733	254667	--	--	--
TYVF-1800YC	1800	127333	143250	163714	191000	229200	--	--	--	--
TYVF-2000YC	2000	141481	159167	181905	212222	254667	--	--	--	--

PMSM Frame Size Selection Table

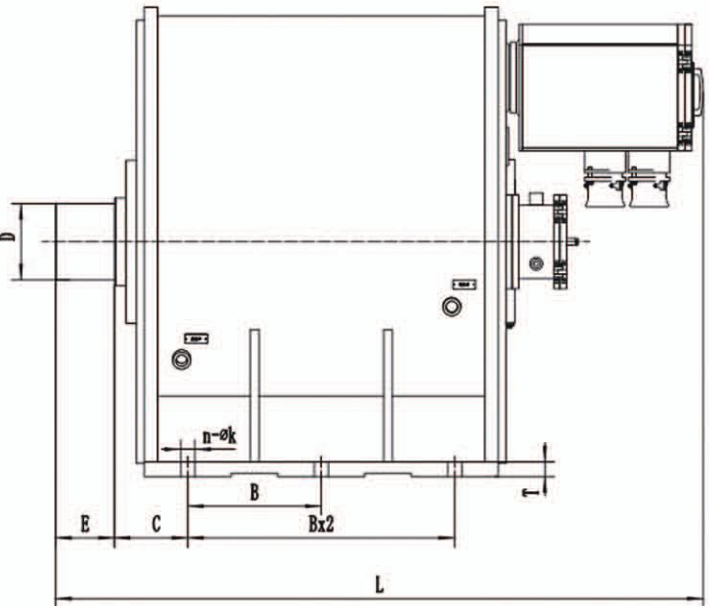
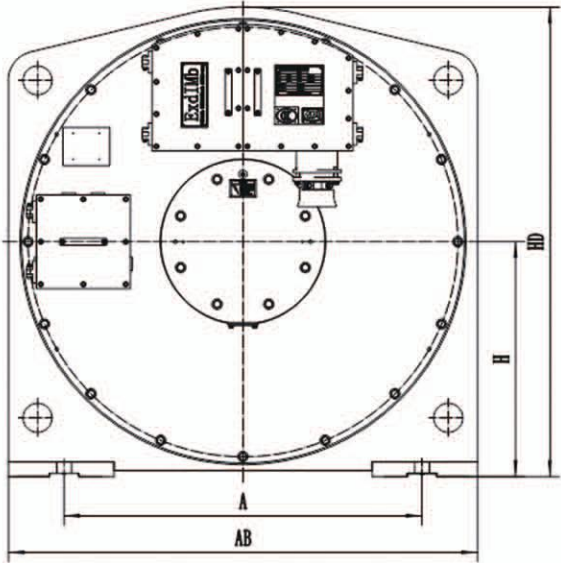
Voltage level (V) Frame size Rated torque (N.m)	380	660	1140	3300	6000	10000
2122	315	315	315	--	--	--
3183	315	315	315	--	--	--
3926	315	315	315	--	--	--
4775	315	315	315	--	--	--
5836	450	450	450	--	--	--
7958	450	450	450	--	--	--
9550	450/560S	450/560S	450/560S	--	--	--
11672	450/560S	450/560S	450/560S	--	--	--
14007	560S	560S	560S	--	--	--
15917	560S	560S	560S	--	--	--
16978	560S	560S	560S	630M	--	--
19631	560M/630S	560M/630S	560M/630S	630M	630M	--
21222	560M/630S	560M/630S	560M/630S	630M	630M	630L/800S
23344	560M/630S	560M/630S	560M/630S	630M	630M	630L/800S
26528	630M	630M	630M	630M	630L/800S	630L/800S
29711	630M	630M	630M	630L/800S	630L/800S	630L/800S
33425	630M	630M	630M	630L/800S	630L/800S	800S
37669	630L/800S	630L/800S	630L/800S	630L/800S	800S	800S
42444	630L/800S	630L/800S	630L/800S	800S	800S	800M/1000S
47750	630L/800S	630L/800S	630L/800S	800S	800S	800M/1000S
53056	800S	800S	800S	800S	800S	800M/1000S
59422	800S	800S	800S	800S	800M/1000S	1000M
66850	800S	800S	800S	800M/1000S	800M/1000S	1000M
75339	800M/1000S	800M/1000S	800M/1000S	800M/1000S	800M/1000S	1000M
84889	800M/1000S	800M/1000S	800M/1000S	800M/1000S	1000M	1000M
95500	800M/1000S	800M/1000S	800M/1000S	1000M	1000M	1000M
106111	--	1000M	1000M	1000M	1000M	1000L/1120M
118844	--	1000M	1000M	1000M	1000M	1000L/1120M
132639	--	1000M	1000M	1000M	1000L/1120M	1000L/1120M
148556	--	1000M	1000M	1000L/1120M	1000L/1120M	1120L
169778	--	--	1000L/1120M	1000L/1120M	1120L	1120L
191000	--	--	1000L/1120M	1120L	1120L	1120L
212222	--	--	1120L	1120L	1120L	--
243090	--	--	1120L	1120L	--	--

PMSM External Dimension Table

Frame Size	Installation Dimension (mm)							External Dimension (mm)			Weight (reference) (kg)	
	D	E	C	B	A	T	n-φ K	H	L	AB		HD
315	100	150	175	550	508	35	4-φ 24	315	1123	630	879	1400
450	140	150	214	550	685	45	4-φ 28	450	1141	835	1070	2100
560S	150	200	195	390	840	50	4-φ 35	560	1037	1040	1407	3500
560M	160			540					1187		1442	
630S	180	200	253	545	1000	50	4-φ 42	630	1262	1200	1681	4800
630M	200			685			4-φ 42		1442			5700
630L	220			445×2			6-φ 42		1742			6870
800S	240	200	250	610	1220	50	4-φ 48	800	1907	1600	1600	8320
800M	260			455×2			6-φ 48		2207			9810
1000S	280	250	335	580	1410	50	4-φ 56	1000	2032	1800	1900	10700
1000M	300			440×2			6-φ 56		2332			13200
1000L	320			590×2			6-φ 56		2632			15000
1120M	340	350	403	375×2	1640	60	6-φ 56	1120	2440	2000	2120	20000
1120L	360			525×2					2740			24000



Frame Size: 315, 450, 560, 630



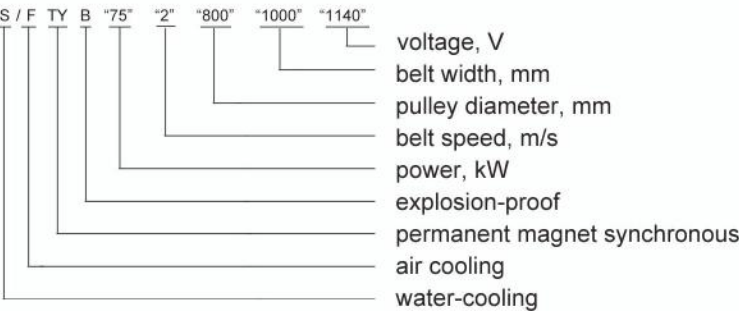
Frame Size: 800, 1000, 1120

PMSEP of STYB (FTYB) series

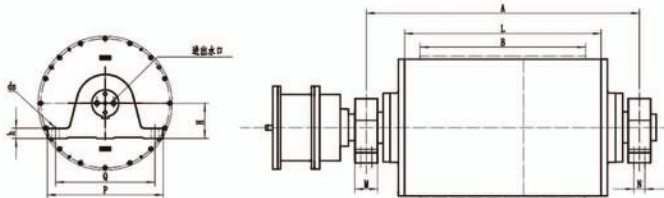
The PMSEP integrates a PMSM with a belt conveyor drive pulley, truly achieving mechatronics integration, revolutionary replacement of the traditional transmission system of asynchronous motor, reducer, and high (low) speed coupling.

- Advantages:
- ◆High Efficiency - Improve system efficiency by over 20%.
 - ◆Low Maintenance - 90% reduction in maintenance.
 - ◆Large Torque - The starting torque reaches 2.2 times the rated torque, and the overload torque reaches 2 times the rated torque.
 - ◆Standardization - The pulley diameter is 630~1250mm, the width is 800~1600mm, the power range is 30~630kW, and the belt speed range is 1.6~5m/s.

Specification and Model Description e. g.
STYB75-2-800x1000 (1140) FTYB75-2-800x1000 (1140)



- Application Environment
- ◆The altitude does not exceed 2500m;
 - ◆The ambient air temperature is -15℃~40℃;
 - ◆The relative humidity of the air shall not exceed 95% (at+25℃);
 - ◆Underground coal mines containing explosive mixtures of methane and coal dust;
 - ◆In an environment without damaging insulation gases and vapors;
 - ◆Maintain the cooling water temperature of the electric drum between 5 and 40℃;
 - ◆The working pressure of cooling water is 0.3MPa~0.8MPa;



Selection Table of STYB Series PMSEP

NO.	Type	Diameter(mm)	Rated power(kW)	Belt width(mm)	Belt speed(m/s)	Rated voltage(V)
1	STYB30-(1.6~5.0)-630x(650~2000) (660/1140)	630	30	650~2000	1.6~5.0	380/660/1140
2	STYB37-(1.6~5.0)-630x(650~2000) (660/1140)	630	37	650~2000	1.6~5.0	380/660/1140
3	STYB40-(1.6~5.0)-630x(650~2000) (660/1140)	630	40	650~2000	1.6~5.0	380/660/1140
4	STYB45-(1.6~5.0)-630x(650~2000) (660/1140)	630	45	650~2000	1.6~5.0	380/660/1140
5	STYB55-(1.6~5.0)-630x(650~2000) (660/1140)	630	55	650~2000	1.6~5.0	660/1140
6	STYB75-(1.6~5.0)-630x(650~2000) (660/1140)	630	75	650~2000	1.6~5.0	660/1140
7	STYB90-(2.0~5.0)-630x(650~2000) (660/1140)	630	90	650~2000	2.0~5.0	660/1140
8	STYB110-(2.0~5.0)-630x(650~2000) (660/1140)	630	110	650~2000	2.0~5.0	660/1140
9	STYB132-(4.0~5.0)-630x(800~1600) (660/1140)	630	132	800~1600	4.0~5.0	660/1140
10	STYB160-(4.5~5.0)-630x(1000~1400) (660/1140)	630	160	1000~1400	4.5~5.0	660/1140
11	STYB185-5.0-630x(1000~1200) (660/1140)	630	185	1000~1200	5.0	660/1140
12	STYB30-(1.6~5.0)-800x(650~2000) (660/1140)	800	30	650~2000	1.6~5.0	660/1140
13	STYB37-(1.6~5.0)-800x(650~2000) (660/1140)	800	37	650~2000	1.6~5.0	660/1140
14	STYB40-(1.6~5.0)-800x(650~2000) (660/1140)	800	40	650~2000	1.6~5.0	660/1140
15	STYB45-(1.6~5.0)-800x(650~2000) (660/1140)	800	45	650~2000	1.6~5.0	660/1140
16	STYB55-(1.6~5.0)-800x(650~2000) (660/1140)	800	55	650~2000	1.6~5.0	660/1140
17	STYB75-(1.6~5.0)-800x(650~2000) (660/1140)	800	75	650~2000	1.6~5.0	660/1140
18	STYB90-(2.0~5.0)-800x(650~2000) (660/1140)	800	90	650~2000	2.0~5.0	660/1140
19	STYB110-(2.0~5.0)-800x(650~2000) (660/1140)	800	110	650~2000	2.0~5.0	660/1140
20	STYB132-(2.0~5.0)-800x(650~2000) (660/1140)	800	132	650~2000	2.0~5.0	660/1140
21	STYB160-(2.5~5.0)-800x(650~2000) (660/1140)	800	160	650~2000	2.5~5.0	660/1140
22	STYB185-(2.5~5.0)-800x(650~2000) (660/1140)	800	185	650~2000	2.5~5.0	660/1140
23	STYB200-(3.15~5.0)-800x(650~2000) (660/1140)	800	200	650~2000	3.15~5.0	660/1140
24	STYB220-(4.0~5.0)-800x(1000~2000) (660/1140)	800	220	1000~2000	4.0~5.0	660/1140
25	STYB250-(4.0~5.0)-800x(1000~1800) (660/1140)	800	250	1000~1800	4.0~5.0	660/1140
26	STYB40-(1.6~6.3)-1000x(800~2000) (660/1140)	1000	40	800~2000	1.6~6.3	660/1140
27	STYB45-(1.6~6.3)-1000x(800~2000) (660/1140)	1000	45	800~2000	1.6~6.3	660/1140
28	STYB55-(1.6~6.3)-1000x(800~2000) (660/1140)	1000	55	800~2000	1.6~6.3	660/1140
29	STYB75-(1.6~6.3)-1000x(800~2000) (660/1140)	1000	75	800~2000	1.6~6.3	660/1140
30	STYB90-(1.6~6.3)-1000x(800~2000) (660/1140)	1000	90	800~2000	1.6~6.3	660/1140
31	STYB110-(1.6~6.3)-1000x(800~2000) (660/1140)	1000	110	800~2000	1.6~6.3	660/1140
32	STYB132-(1.6~5.0)-1000x(800~2000) (660/1140)	1000	132	800~2000	1.6~5.0	660/1140
33	STYB160-(1.6~5.0)-1000x(800~2000) (660/1140)	1000	160	800~2000	1.6~5.0	660/1140
34	STYB185-(2.0~5.0)-1000x(800~2000) (660/1140)	1000	185	800~2000	2.0~5.0	660/1140
35	STYB200-(2.0~5.0)-1000x(800~2000) (660/1140)	1000	200	800~2000	2.0~5.0	660/1140
36	STYB220-(2.5~5.0)-1000x(800~2000) (660/1140)	1000	220	800~2000	2.5~5.0	660/1140
37	STYB250-(2.5~5.0)-1000x(800~2000) (660/1140)	1000	250	800~2000	2.5~5.0	660/1140
38	STYB280-(3.15~5.0)-1000x(800~2000) (660/1140)	1000	280	800~2000	3.15~5.0	660/1140

NO.	Type	Diameter(mm)	Rated power(kW)	Belt width(mm)	Belt speed(m/s)	Rated voltage(V)
39	STYB315-(3.15~5.0)-1000×(800~2000) (660/1140)	1000	315	800~2000	3.15~5.0	660/1140
40	STYB132-(2.0~5.0)-1250×(800~2000) (660/1140)	1250	132	800~2000	2.0~5.0	660/1140
41	STYB160-(2.0~5.0)-1250×(800~2000) (660/1140)	1250	160	800~2000	2.0~5.0	660/1140
42	STYB185-(2.0~5.0)-1250×(800~2000) (660/1140)	1250	185	800~2000	2.0~5.0	660/1140
43	STYB200-(2.0~5.0)-1250×(800~2000) (660/1140)	1250	200	800~2000	2.0~5.0	660/1140
44	STYB220-(2.0~5.0)-1250×(800~2000) (660/1140)	1250	220	800~2000	2.0~5.0	660/1140
45	STYB250-(2.0~5.0)-1250×(800~2000) (660/1140)	1250	250	800~2000	2.0~5.0	660/1140
46	STYB280-(2.0~5.0)-1250×(800~2000) (660/1140)	1250	280	800~2000	2.0~5.0	660/1140
47	STYB315-(2.0~5.0)-1250×(800~2000) (660/1140)	1250	315	800~2000	2.0~5.0	660/1140
48	STYB132-(2.5~5.0)-1400×(800~2000) (660/1140)	1400	132	800~2000	2.5~5.0	660/1140
49	STYB160-(2.5~5.0)-1400×(800~2000) (660/1140)	1400	160	800~2000	2.5~5.0	660/1140
50	STYB185-(2.5~5.0)-1400×(800~2000) (660/1140)	1400	185	800~2000	2.5~5.0	660/1140
51	STYB200-(2.5~5.0)-1400×(800~2000) (660/1140)	1400	200	800~2000	2.5~5.0	660/1140
52	STYB220-(2.5~5.0)-1400×(800~2000) (660/1140)	1400	220	800~2000	2.5~5.0	660/1140
53	STYB250-(2.5~5.0)-1400×(800~2000) (660/1140)	1400	250	800~2000	2.5~5.0	660/1140
54	STYB280-(2.5~5.0)-1400×(800~2000) (660/1140)	1400	280	800~2000	2.5~5.0	660/1140
55	STYB315-(2.5~5.0)-1400×(800~2000) (660/1140)	1400	315	800~2000	2.5~5.0	660/1140

Selection Table of FTYB Series PMSEP

NO.	Type	Diameter(mm)	Rated power(kW)	Belt width(mm)	Belt speed(m/s)	Rated voltage(V)
1	FTYB22-(1.25~5.0)-630x(650~2000) (660/1140)	630	22	650~2000	1.25~5.0	660/1140
2	FTYB30-(1.25~5.0)-630x(650~2000) (660/1140)	630	30	650~2000	1.25~5.0	660/1140
3	FTYB37-(1.6~5.0)-630x(650~2000) (660/1140)	630	37	650~2000	1.6~5.0	660/1140
4	FTYB40-(1.6~5.0)-630x(650~2000) (660/1140)	630	40	650~2000	1.6~5.0	660/1140
5	FTYB45-(2.0~5.0)-630x(650~2000) (660/1140)	630	45	650~2000	2.0~5.0	660/1140
6	FTYB55-(2.0~5.0)-630x(650~2000) (660/1140)	630	55	650~2000	2.0~5.0	660/1140
7	FTYB75-(2.0~5.0)-630x(650~2000) (660/1140)	630	75	650~2000	2.0~5.0	660/1140
8	FTYB90-(2.0~5.0)-630x(650~2000) (660/1140)	630	90	650~2000	2.0~5.0	660/1140
9	FTYB110-(2.5~5.0)-630x(650~2000) (660/1140)	630	110	650~2000	2.5~5.0	660/1140
10	FTYB30-(1.6~5.0)-800x(650~2000) (660/1140)	800	30	650~2000	1.6~5.0	660/1140
11	FTYB37-(1.6~5.0)-800x(650~2000) (660/1140)	800	37	650~2000	1.6~5.0	660/1140
12	FTYB40-(1.6~5.0)-800x(650~2000) (660/1140)	800	40	650~2000	1.6~5.0	660/1140
13	FTYB45-(1.6~5.0)-800x(650~2000) (660/1140)	800	45	650~2000	1.6~5.0	660/1140
14	FTYB55-(1.6~5.0)-800x(650~2000) (660/1140)	800	55	650~2000	1.6~5.0	660/1140
15	FTYB75-(1.6~5.0)-800x(650~2000) (660/1140)	800	75	650~2000	1.6~5.0	660/1140
16	FTYB90-(2.0~5.0)-800x(650~2000) (660/1140)	800	90	650~2000	2.0~5.0	660/1140
17	FTYB110-(2.0~5.0)-800x(650~2000) (660/1140)	800	110	650~2000	2.0~5.0	660/1140

External Dimension Table of STYB Series PMSEP

ORA-BG	Type	Pulley diameter (mm)	Dimension									
			B	A	L	M	N	Q	P	H	h	ds
6563	STYB(22, 30, 37, 40)-(1.25~5.0)-630×650	630	650	1150	800	110		480	560	170	50	M30
8063	STYB(30, 40, 55)-(1.6~2.5)-630×800	630	800	1320	950	110		480	560	170	50	M30
10063	STYB(30, 40, 55, 75)-(1.6~2.5)-630×1000	630	1000	1520	1150	110		480	560	170	50	M30
12063	STYB(30, 40, 55, 75, 90)-(1.6~2.5)-630×1200	630	1200	1750	1400	110		480	560	170	50	M30
14063	STYB(30, 40, 55, 75, 90)-(1.6~2.5)-630×1400	630	1200	1950	1400	110		480	560	170	50	M30
16063	STYB(30, 40, 55, 75, 90)-(1.6~2.5)-630×1600	630	1600	2150	1800	110		480	560	170	50	M30
18063	STYB(30, 40, 55, 75, 90)-(1.6~2.5)-630×1800	630	1600	2350	1800	110		480	560	170	50	M30
20063	STYB(30, 40, 55, 75, 90)-(1.6~2.5)-630×2000	630	1600	2550	1800	110		480	560	170	50	M30
6580.2	STYB(30, 37, 40, 45, 55, 75)-(1.6~5.0)-800×650	800	650	1150	800	110		480	560	170	50	M30
8080.2	STYB(30, 37, 40, 45, 55, 75, 90, 110, 132)-(1.6~5.0)-800×800	800	800	1320	950	110		480	560	170	50	M30
10080.2	STYB(30, 37, 40, 45, 55, 75, 90, 110, 132)-(1.6~5.0)-800×1000	800	1000	1520	1150	110		480	560	170	50	M30
10080.3	STYB(160, 180)-(2.0~5.0)-800×1000	800	1000	1600	1150	120		480	560	170	50	M30
12080.2	STYB(30, 37, 40, 45, 55, 75, 90, 110, 132)-(1.6~5.0)-800×1200	800	1200	1750	1400	120		480	560	170	50	M30
12080.3	STYB(160, 180)-(2.0~5.0)-800×1200	800	1200	1850	1400	120		480	560	170	50	M30
12080.4	STYB(200, 220, 250)-(2.0~5.0)-800×1200	800	1200	1850	1400	200	120	570	700	220	50	M30
14080.2	STYB(30, 37, 40, 45, 55, 75, 90, 110, 132)-(1.6~5.0)-800×1400	800	1400	1950	1600	120		480	560	170	50	M30
14080.3	STYB(160, 180)-(2.0~5.0)-800×1400	800	1400	2050	1600	120		480	560	170	50	M30
14080.4	STYB(200, 220, 250)-(2.0~5.0)-800×1400	800	1400	2050	1600	200	120	570	700	220	70	M30
16080.2	STYB(30, 37, 40, 45, 55, 75, 90, 110, 132)-(1.6~5.0)-800×1600	800	1600	2150	1800	120		480	560	170	50	M30
16080.3	STYB(160, 180)-(2.0~5.0)-800×1600	800	1600	2250	1800	120		480	560	170	50	M30
16080.4	STYB(200, 220, 250)-(2.0~5.0)-800×1600	800	1600	2250	1800	200	120	570	700	220	70	M30
18080.2	STYB(30, 37, 40, 45, 55, 75, 90, 110, 132)-(1.6~5.0)-800×1800	800	1800	2350	2000	120		480	560	170	50	M30

ORA-BG	Type	Pulley diameter (mm)	Dimension									
			B	A	L	M	N	Q	P	H	h	ds
18080.3	STYB (160, 180) – (2. 0~5. 0) –800×1800	800	1800	2450	2000	120		480	560	170	50	M30
18080.4	STYB (200, 220, 250) – (2. 0~5. 0) –800×1800	800	1800	2450	2000	200	120	570	700	220	70	M30
20080.2	STYB (30, 37, 40, 45, 55, 75, 90, 110, 132) – (1. 6~5. 0) –800×2000	800	2000	2350	2200	120		480	560	170	50	M30
20080.3	STYB (160, 180) – (2. 0~5. 0) –800×2000	800	2000	2450	2200	120		480	560	170	50	M30
20080.4	STYB (200, 220, 250) – (2. 0~5. 0) –800×2000	800	2000	2450	2200	200	120	570	700	220	70	M30
80100.3	STYB (40, 45, 55, 75, 90, 110, 132) – (1. 6~5. 0) –1000×800	1000	800	1400	950	200	120	570	700	220	70	M30
100100.3	STYB (40, 45, 55, 75, 90, 110, 132, 160, 185, 200) – (2. 5~4) –1000×1000	1000	1000	1600	1150	200	120	570	700	220	70	M30
120100.3	STYB (40, 45, 55, 75, 90, 110, 132, 160, 185, 200) – (2. 5~4) –1000×1200	1000	1200	1850	1400	200	120	570	700	220	70	M30
120100.5	STYB (220, 250, 280, 315) – (2. 5~4) –1000×1200	1000	1200	1900	1400	240	140	640	780	240	70	M30
140100.3	STYB (40, 45, 55, 75, 90, 110, 132, 160, 185, 200) – (2. 5~4) –1000×1400	1000	1400	2050	1600	200	120	570	700	220	70	M30
140100.5	STYB (220, 250, 280, 315) – (2. 5~4) –1000×1400	1000	1400	2100	1600	240	140	640	780	240	70	M30
140100.6	STYB (280, 315) – (2. 5~4) –1000×1400	1000	1400	2100	1600	240	140	800	950	310	70	M36
160100.3	STYB (40, 45, 55, 75, 90, 110, 132, 160, 185, 200) – (2. 5~4) –1000×1600	1000	1600	2250	1800	200	120	570	700	220	70	M30
160100.5	STYB (220, 250, 280, 315) – (2. 5~4) –1000×1600	1000	1600	2300	1800	240	140	640	780	240	70	M30
160100.6	STYB (280, 315) – (2. 5~4) –1000×1600	1000	1600	2300	1800	240	140	800	950	310	70	M36
180100.3	STYB (40, 45, 55, 75, 90, 110, 132, 160, 185, 200) – (2. 5~4) –1000×1800	1000	1800	2450	2000	200	120	570	700	220	70	M30
180100.5	STYB (220, 250, 280, 315) – (2. 5~4) –1000×1800	1000	1800	2500	2000	240	140	640	780	240	70	M30
180100.6	STYB (280, 315) – (2. 5~4) –1000×1800	1000	1800	2500	2000	240	140	800	950	310	70	M36
200100.3	STYB (40, 45, 55, 75, 90, 110, 132, 160, 185, 200) – (2. 5~4) –1000×2000	1000	2000	2650	2200	200	120	570	700	220	70	M30
200100.5	STYB (220, 250, 280, 315) – (2. 5~4) –1000×2000	1000	2000	2700	2200	240	140	640	780	240	70	M30
200100.6	STYB (280, 315) – (2. 5~4) –1000×2000	1000	2000	2700	2200	240	140	800	950	310	70	M36

ORA-BG	Type	Pulley diameter (mm)	Dimension									
			B	A	L	M	N	Q	P	H	h	ds
80125.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 0~5. 0) –1250×800	1250	800	1500	1000	240	140	800	950	310	70	M36
100125.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 0~5. 0) –1250×1000	1250	1000	1700	1200	240	140	800	950	310	70	M36
120125.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 0~5. 0) –1250×1200	1250	1200	1900	1400	240	140	800	950	310	70	M36
120125.7	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 0~5. 0) –1250×1200	1250	1200	1900	1400	290	160	900	1080	360	70	M36
140125.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 0~5. 0) –1250×1400	1250	1400	2100	1600	240	140	800	950	310	70	M36
140125.7	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 0~5. 0) –1250×1400	1250	1400	2100	1600	290	160	900	1080	360	70	M36
160125.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 0~5. 0) –1250×1600	1250	1600	2300	1800	240	140	800	950	310	70	M36
160125.7	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 0~5. 0) –1250×1600	1250	1600	2300	1800	290	160	900	1080	360	70	M36
180125.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 0~5. 0) –1250×1800	1250	1800	2500	2000	240	140	800	950	310	70	M36
180125.7	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 0~5. 0) –1250×1800	1250	1800	2500	2000	290	160	900	1080	360	70	M36
200125.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 0~5. 0) –1250×2000	1250	2000	2700	2200	240	140	800	950	310	70	M36
200125.7	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 0~5. 0) –1250×2000	1250	2000	2700	2200	290	160	900	1080	360	70	M36
80140.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 5~5. 0) –1400×800	1400	800	1500	1000	240	140	800	950	310	70	M36
100140.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 5~5. 0) –1400×1000	1400	1000	1700	1200	240	140	800	950	310	70	M36
120140.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 5~5. 0) –1400×1200	1400	1200	1900	1400	240	140	800	950	310	70	M36
120140.7	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 5~5. 0) –1400×1200	1400	1200	1900	1400	290	160	900	1080	360	70	M36
140140.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 5~5. 0) –1400×1400	1400	1400	2100	1600	240	140	800	950	310	70	M36
140140.7	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 5~5. 0) –1400×1400	1400	1400	2100	1600	290	160	900	1080	360	70	M36
160140.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 5~5. 0) –1400×1600	1400	1600	2300	1800	240	140	800	950	310	70	M36
160140.7	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 5~5. 0) –1400×1600	1400	1600	2300	1800	290	160	900	1080	360	70	M36
180140.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 5~5. 0) –1400×1800	1400	1800	2500	2000	240	140	800	950	310	70	M36
180140.7	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 5~5. 0) –1400×1800	1400	1800	2500	2000	290	160	900	1080	360	70	M36
200140.6	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 5~5. 0) –1400×2000	1400	2000	2700	2200	240	140	800	950	310	70	M36
200140.7	STYB (132, 160, 185, 200, 220, 250, 280, 315) – (2. 5~5. 0) –1400×2000	1400	2000	2700	2200	290	160	900	1080	360	70	M36

External Dimension Table of FTYB Series PMSEP

ORA-BG	Type	Pulley diameter (mm)	Dimension										Shaft diameter (mm)
			B	A	L	M	N	Q	P	H	h	ds	
6563	FTYB(22, 30, 37, 40)– (1.25–5.0)–630×650	630	650	1350	800	110		480	560	170	50	M30	160
8063	FTYB(22, 30, 37, 40, 45, 55)– (1.25–5.0)–630×800	630	800	1500	950	110		480	560	170	50	M30	160
10063	FTYB(22, 30, 37, 40, 45, 55)– (1.25–5.0)–630×1000	630	1000	1700	1150	110		480	560	170	50	M30	160
12063	FTYB(22, 30, 37, 40, 45, 55, 75, 90)– (1.25–5.0)–630×1200	630	1200	1900	1400	110		480	560	170	50	M30	160
14063	FTYB(22, 30, 37, 40, 45, 55, 75, 90, 110)– (1.25–5.0)–630×1400	630	1400	2100	1600	110		480	560	170	50	M30	160
16063	FTYB(22, 30, 37, 40, 45, 55, 75, 90, 110)– (1.25–5.0)–630×1600	630	1600	2300	1800	110		480	560	170	50	M30	160
18063	FTYB(22, 30, 37, 40, 45, 55, 75, 90, 110)– (1.25–5.0)–630×1800	630	1800	2500	2000	110		480	560	170	50	M30	160
20063	FTYB(22, 30, 37, 40, 45, 55, 75, 90, 110)– (1.25–5.0)–630×2000	630	2000	2700	2200	110		480	560	170	50	M30	160
6580	FTYB(30, 37, 40, 45, 55, 75, 90)– (2.0–5.0)–800×650	800	650	1450	850	200	105	520	640	200	60	M30	200
8080	FTYB(30, 37, 40, 45, 55, 75, 90)– (2.0–5.0)–800×800	800	800	1600	1000	200	105	520	640	200	60	M30	200
10080	FTYB(30, 37, 40, 45, 55, 75, 90, 110)– (2.0–5.0)–800×1000	800	1000	1800	1200	200	105	520	640	200	60	M30	200
12080	FTYB(30, 37, 40, 45, 55, 75, 90, 110)– (2.0–5.0)–800×1200	800	1200	2000	1400	200	105	520	640	200	60	M30	200
14080	FTYB(30, 37, 40, 45, 55, 75, 90, 110)– (2.0–5.0)–800×1400	800	1400	2200	1600	200	105	520	640	200	60	M30	200
16080	FTYB(30, 37, 40, 45, 55, 75, 90, 110)– (2.0–5.0)–800×1600	800	1600	2400	1800	200	105	520	640	200	60	M30	200
18080	FTYB(30, 37, 40, 45, 55, 75, 90, 110)– (2.0–5.0)–800×1800	800	1800	2600	2000	200	105	520	640	200	60	M30	200
20080	FTYB(30, 37, 40, 45, 55, 75, 90, 110)– (2.0–5.0)–800×2000	800	2000	2800	2200	200	105	520	640	200	60	M30	200

PMSM+VFD of TYJVFT Series

The PMSM+VFD integrated product is a new generation of driving power equipment developed by our company. The emergence of this device will completely change the traditional drive layout, eliminate intermediate connection links, simplify complexity, and further improve the transmission efficiency of the load.



- Advantages
- ◆ System integration - Small footprint, simple construction,
 - ◆ Flexible layout - not affected by the output distance of the frequency converter, the equipment layout can be more flexible;
 - ◆ Solve output distance limitations - completely eliminate the impact of long-distance power supply voltage spikes on motor insulation life of frequency converters;
 - ◆ Reduce cable usage requirements and line interference - The all-in-one power supply does not require shielded cables and does not need to consider radiation interference on the cable path, resulting in lower cable and laying costs;
 - ◆ Advanced control algorithm - Adopting the third-generation permanent magnet synchronous vector control technology, fully utilizing the torque characteristics of permanent magnet direct drive motors, further improving the starting and overload capabilities;
 - ◆ Optimizing structural design - Adopting advanced circuit topology for design to maximize power density;
 - ◆ Long life design - The overall design life is 20 years, and the core components are all from internationally renowned brands.

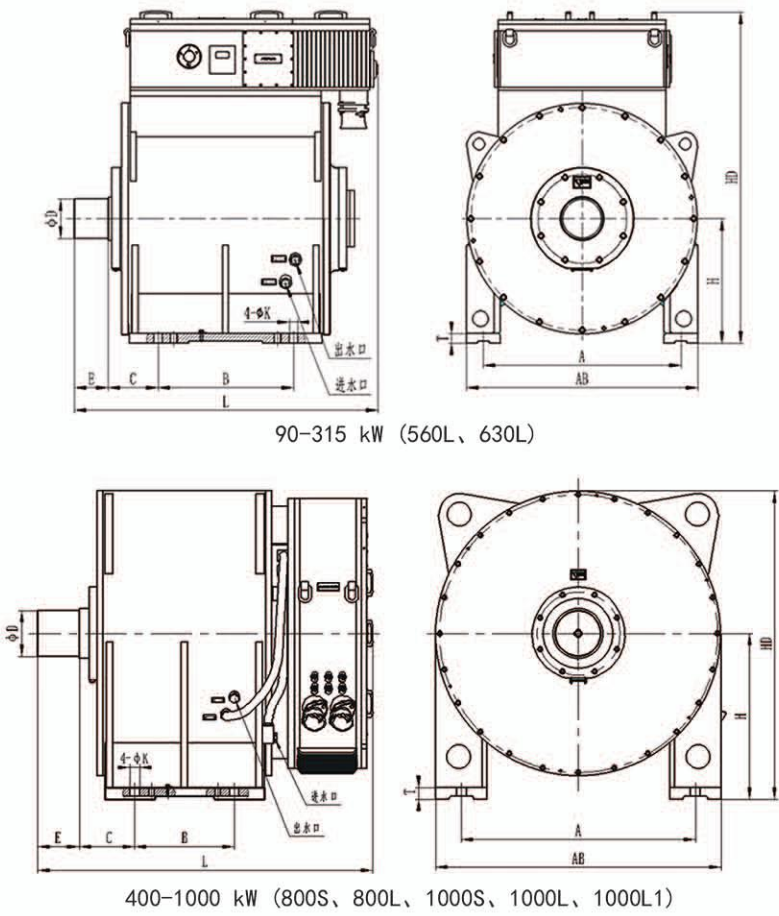
■ Selection Guide

The selection of PMSM+VFD integrated product should be based on the rated torque, and the key points are similar to the selection guide for PMSM mentioned in front:

- ◆ Confirm the driving torque for the load equipment;
- ◆ The rated torque of PMSM+VFD integrated product ≥ the required driving torque of the load equipment (with a margin coefficient of 1.1 to 1.2 times).
- ◆ Confirm the power supply voltage.
- ◆ Confirm the speed range.
- ◆ Confirm the TYJVFT type based on the selected performance parameters.
- ◆ Confirm whether the selected PMSM+VFD integrated product can be installed on site based on the External Dimension Table of TYJVFT Series.
- ◆ In addition, our company can design and manufacture PMSM+VFD integrated product with voltage of 380-10,000V and power of 30-4000kW according to customer requirements.

Selection Table of TYJVFT Series

NO.	Type	Frame size	Rated power (kW)	Rated rotational speed(r/min)	Rated torque (Nm)	Rated current (A)	Pole
1	TYJVFT-560L-40 (90/1140)	560L	90	90	9550	60	40
2	TYJVFT-560L-40 (110/1140)	560L	110	90	11672	73	40
3	TYJVFT-560L-40 (160/1140)	560L	160	90	16978	104	40
4	TYJVFT-630L-40 (200/1140)	630L	200	90	21222	128	40
5	TYJVFT-630L-40 (250/1140)	630L	250	90	26528	160	40
6	TYJVFT-630L-40 (315/1140)	630L	315	90	33425	195	40
7	TYJVFT-800L-60 (400/1140)	800S	400	90	42444	250	60
8	TYJVFT-800L-60 (450/1140)	800S	450	90	47755	280	60
9	TYJVFT-800L-60 (500/1140)	800L	500	90	53056	310	60
10	TYJVFT-1000L-60 (630/1140)	1000S	630	90	66850	395	60
11	TYJVFT-1000L-60 (710/1140)	1000S	710	90	75339	450	60
12	TYJVFT-1000L-60 (800/1140)	1000L	800	90	84889	500	60
13	TYJVFT-1000L-60 (900/1140)	1000L	900	90	95500	560	60
14	TYJVFT-1000L-60 (1000/1140)	1000L1	1000	90	106111	620	60



External Dimension Table of TYJVFT Series

NO.	Frame size	Installation Dimension (mm)								External Dimension (mm)			Reference weight(kg)	Recommended taper lock
		D	E	C	B	A	K	T	H	L长	AB宽	HD高		
1	560L	150	200	195	540	840	32	50	560	1487	1040	1505	3761	Z12A 150X210
2													4053	
3													4637	
4	630L	200	200	253	685	1000	42	50	630	1532	1170	1675	5824	Z12A 200X260
5													6188	
6													6856	
7	800S	260	200	250	500	1220	50	50	800	1729	1510	1555	8123	Z12A 260X325
8													8700	
9	800L	260	200	250	640	1220	50	50	800	1869	1510	1555	9696	Z12A 280X355
10	1000S	280	250	335	460	1410	58	70	1000	1881	1720	1860	11510	
11													12206	
12	1000L	280	250	335	600	1410	58	70	1000	2021	1720	1860	12990	
13													13573	
14	1000L1	280	250	335	800	1410	58	70	1000	2221	1720	1860	14968	

Intelligent VFD

Product profile:

Our company's VFD is specially developed for PMSM and PMSEP, divided into two series: non explosion-proof and explosion-proof. The VFD integrates motor control, temperature monitoring, and vibration monitoring, it has the characteristics of high power factor, high reliability, high efficiency, low harmonic content, low loss, and easy maintenance. ORA Intelligent VFD is also suitable for ordinary three-phase induction asynchronous motors and can be widely used in fields such as metallurgy, power, machinery, papermaking, construction, chemicals, petroleum, pharmaceuticals, and mining.

Advantages:

- ◆Diverse control modes: V/F Control, Sensorless Vector Control (SVC), Flux Vector Control (FVC);
- ◆Colorful 7/10 inch large screen for more intuitive data display;
- ◆Integrated multi-channel temperature and vibration monitoring functions, with comprehensive protection functions;
- ◆Specially designed for PMSM and PMSEP, with built-in output isolation to prevent damage to the VFD;
- ◆Supports RS485/RJ45 communication interface, supports multiple communication methods: Modbus RTU/TCP, Profinet;
- ◆Equipped with data storage function, capable of storing at least 6 months of operational data;
- ◆Integrated water/air cooling, no external equipment required;
- ◆Designed as a cabinet, there is no need for secondary cabinet construction on site, it can be dismantled and used immediately.



ORT series non explosion-proof VFD model description :

ORT380-200K					
OR	T	380	-	200	K
Company code	Product code	Voltage		Power/Capacity/Code	
Shandong Ou Ruian Electric CO.LTD	T:VFD cabinet	220:220V		≤3300V, Units: kW >3300V, Units: kVA	None:Two quadrants
	D:Power cabinet	380:380V			K: Four quadrants
	K:Control cabinet	660:660V			R: Two quadrant VFD cabinet with braking resistor
	J:On site box	1140:1140V			
	H:Feedback cabinet	G3:3. 3kV			
	...	G6:6kV			
		G10:10kV			
		G10F:10kV in 6kV out			

- Note:1. Places with an altitude below 1000 meters, indoor, not exposed to direct sunlight, and free from dust, corrosive gases, flammable gases, oil mist, water vapor, dripping water, and salt mist.
2. Working environment/humidity: -10~+40℃/20~90% RH, no condensation of water droplets.
3. The cabinet protection level is IP31.
4. Vibration less than 5.9m/s² (0.6g).
5. Exceeding the above conditions requires Custom-Tailor.

ORT series 380V non explosion-proof VFD selection table :

Type	Rated power (kW)	Rated current (A)	Adapted motor(kW)		Cabinet size (reference) height * width * depth (mm)
			Light load	Heavy load	
ORT380-30	30	60	30	22	2200*800*800
ORT380-37	37	75	37	30	
ORT380-45	45	90	45	37	
ORT380-55	55	110	55	45	
ORT380-75	75	150	75	55	
ORT380-90	90	180	90	75	
ORT380-110	110	210	110	90	
ORT380-132	132	250	132	110	
ORT380-160	160	320	160	132	
ORT380-185	185	350	185	160	
ORT380-200	200	400	200	185	
ORT380-220	220	420	220	200	
ORT380-250	250	500	250	220	
ORT380-280	280	550	280	250	
ORT380-315	315	610	315	280	2200*1000*800
ORT380-355	355	700	355	315	
ORT380-400	400	800	400	355	

- Note:1. Above 400kW are non-standard models and can be customized by contacting the manufacturer.
2. The rated parameters of the four quadrants are the same as the table above, and the cabinet size needs to be obtained by contacting the business personnel.

■ ORT series 660V non explosion-proof VFD selection table:

Type	Rated power (kW)	Rated current (A)	Adapted motor(kW)		Cabinet size (reference) height * width * depth (mm)
			Light load	Heavy load	
ORT660-55	55	70	55	45	2200*800*800
ORT660-75	75	90	75	55	
ORT660-90	90	105	90	75	
ORT660-110	110	130	110	90	
ORT660-132	132	170	132	110	
ORT660-160	160	200	160	132	
ORT660-200	200	235	200	160	
ORT660-220	220	247	220	200	
ORT660-250	250	265	250	220	
ORT660-280	280	305	280	250	
ORT660-315	315	350	315	280	2200*1000*800
ORT660-355	355	382	355	315	
ORT660-400	400	435	400	355	
ORT660-450	450	490	450	400	
ORT660-500	500	595	500	450	

Note:1. Above 500kW are non-standard models and can be customized by contacting the manufacturer.
 2. The rated parameters of the four quadrants are the same as the table above, and the cabinet size needs to be obtained by contacting the business personnel.

■ ORT series 1140V non explosion-proof VFD selection table:

Type	Rated power (kW)	Rated current (A)	Adapted motor(kW)		Cabinet size (reference) height * width * depth (mm)
			Light load	Heavy load	
ORT1140-37	37	20	37	30	2200*800*800
ORT1140-45	45	26	45	37	
ORT1140-55	55	34	55	45	
ORT1140-75	75	47	75	55	
ORT1140-90	90	56	90	75	
ORT1140-110	110	68	110	90	
ORT1140-132	132	82	132	110	
ORT1140-160	160	98	160	132	
ORT1140-200	200	122	200	160	
ORT1140-250	250	150	250	200	
ORT1140-315	315	185	315	250	
ORT1140-400	400	235	400	315	
ORT1140-500	500	300	500	400	
ORT1140-560	560	335	560	500	
ORT1140-630	630	380	630	560	2200*1000*800
ORT1140-710	710	430	710	630	
ORT1140-800	800	480	800	710	
ORT1140-900	900	540	900	800	
ORT1140-1000	1000	600	1000	900	

Note:1. Above 1000kW are non-standard models and can be customized by contacting the manufacturer.
 2. The rated parameters of the four quadrants are the same as the table above, and the cabinet size needs to be obtained by contacting the business personnel.
 3. The 1140V VFD has a three-level output.

■ ORT series 6kV non explosion-proof VFD selection table:

Type	Rated capacity (KVA)	Rated current(A)	Adapted motor(kW)		Type	Rated capacity (KVA)	Rated current(A)	Adapted motor(kW)	
			Light load	Heavy load				Light load	Heavy load
ORTG6-280	280	27	220	200	ORTG6-1000	1000	96	800	710
ORTG6-315	315	30	250	220	ORTG6-1120	1120	108	900	800
ORTG6-355	355	33	280	250	ORTG6-1250	1250	120	1000	900
ORTG6-400	400	38	315	280	ORTG6-1400	1400	134	1120	1000
ORTG6-450	450	42	355	315	ORTG6-1600	1600	150	1250	1120
ORTG6-500	500	48	400	355	ORTG6-1800	1800	168	1400	1250
ORTG6-560	560	54	450	400	ORTG6-2000	2000	192	1600	1400
ORTG6-630	630	60	500	450	ORTG6-2250	2250	216	1800	1600
ORTG6-710	710	67	560	500	ORTG6-2500	2500	240	2000	1800
ORTG6-800	800	76	630	560	ORTG6-2800	2800	270	2250	2000
ORTG6-900	900	85	710	630	ORTG6-3150	3150	300	2500	2250

Note:1. Above 3150kVA are non-standard models and can be customized by contacting the manufacturer.
 2. The rated parameters of the four quadrants are the same as the table above.
 3. The rated current (output) of the 10KV input and 6kV output VFD can be queried in this table.

■ ORT series 10kV non explosion-proof VFD selection table:

Type	Rated capacity (KVA)	Rated current(A)	Adapted motor(kW)		Type	Rated capacity (KVA)	Rated current(A)	Adapted motor(kW)	
			Light load	Heavy load				Light load	Heavy load
ORTG10-355	355	20	280	250	ORTG10-1400	1400	90	1120	1000
ORTG10-400	400	23	315	280	ORTG10-1600	1600	95	1250	1120
ORTG10-450	450	26	355	315	ORTG10-1800	1800	101	1400	1250
ORTG10-500	500	29	400	355	ORTG10-2000	2000	116	1600	1400
ORTG10-560	560	33	450	400	ORTG10-2250	2250	130	1800	1600
ORTG10-630	630	36	500	450	ORTG10-2500	2500	144	2000	1800
ORTG10-710	710	40	560	500	ORTG10-2800	2800	162	2250	2000
ORTG10-800	800	46	630	560	ORTG10-3150	3150	180	2500	2250
ORTG10-900	900	51	710	630	ORTG10-3500	3500	202	2800	2500
ORTG10-1000	1000	58	800	710	ORTG10-3750	3750	204	3000	2800
ORTG10-1120	1120	65	900	800	ORTG10-4000	4000	220	3250	3000
ORTG10-1250	1250	72	1000	900	ORTG10-4400	4400	238	3500	3250

Note:1. Above 4400kVA are non-standard models and can be customized by contacting the manufacturer.
 2. The rated parameters of the four quadrants are the same as the table above.

AC VFD of BPJ Series Mining Explosion-proof and Intrinsically Safe

Product profile:

The BPJ series explosion-proof and intrinsically safe low-voltage AC VFD for mining is suitable for AC 50Hz, rated voltage levels of 380V, 660V, and 1140V in power grids. It can drive explosion-proof PMSM or asynchronous motors, with advantages such as low starting current, large torque, strong overload capacity, and small impact on the power grid. It is suitable for driving and controlling loads such as coal mine belt conveyors, scraper conveyors, emulsion pumps, winches, etc.

Advantages:

- ◆Wide power range: 380V VFD has a power range of 75-315kW, 660V VFD has a power range of 55-500kW, and 1140V VFD has a power range of 55-1250kW.
- ◆Diverse control modes: V/F Control, Sensorless Vector Control (SVC), Flux Vector Control(FVC).
- ◆Topology structure: Two level or three level optional.
- ◆Working characteristics: Two quadrant or four quadrant optional.
- ◆The small starting current effectively reduces the impact on the power grid.
- ◆The starting torque is high. In the FVC mode, it can provide 180% of the starting torque, while in the SVC mode, it can provide 150% of the starting torque.
- ◆Provide multiple control methods for users to flexibly use according to working conditions.
- ◆Strong overload capacity.
- ◆English operation interface can be provided, with intuitive data display and simple operation.
- ◆Flexible IO interfaces and multiple communication interfaces facilitate user networking.
- ◆Easily achieve power balance when driving multiple machines.
- ◆Equipped with comprehensive and fast protection functions, effectively reducing the failure rate.
- ◆The main components are all imported, and the product quality is reliable.

BPJ series explosion-proof VFD model description								
BP	J	1	—	2×	75	/	1140	K
Product code	Explosion proof form	Product code		Combining form	Power		Rated voltage	Function
BP: VFD	J:Explosion-proof and intrinsically safe	Product code		None: One machine 2×: Two machine	Unit: kW		380: 380V 660: 660V 1140: 1140V	None: Two quadrants K: Four quadrants

- Note:1. Ambient temperature: 0℃~40℃.
- 2.The altitude does not exceed 2000m, and if it exceeds 2000m, it needs to be reduced in capacity for use.
3. The relative humidity of the surrounding environment shall not exceed 98% (at +25℃).
4. Explosive gases such as methane and coal dust can exist, but there is no corrosive gas.
5. Places without watering or standing water.
6. Places without severe impact and vibration.
7. Atmospheric pressure: 80kPa~106kPa.
8. Pollution level: Level 3.

BPJ series 380V two quadrants explosion-proof VFD selection table :

Type	Rated power(kW)	Rated current(A)	Adapted motor(kW)		Cooling method	Function
			Light load	Heavy load		
BPJ-75/380	75	142	75	55	Air cooling	Two quadrants
BPJ-90/380	90	171	90	75	Air cooling	
BPJ-110/380	110	209	110	90	Air cooling	
BPJ-132/380	132	251	132	110	Air cooling	
BPJ-160/380	160	304	160	132	Air cooling	
BPJ-200/380	200	380	200	160	Air cooling	
BPJ-250/380	250	475	250	200	Air cooling	
BPJ-315/380	315	598	315	250	Air cooling	

BPJ1 series 660V explosion-proof VFD selection table :

Type	Rated power(kW)	Rated current(A)	Adapted motor(kW)		Cooling method	Function
			Light load	Heavy load		
BPJ1-75/660	75	90	75	55	Self cooling	Two quadrants
BPJ1-90/660	90	105	90	75	Self cooling	
BPJ1-110/660	110	130	110	90	Self cooling	
BPJ1-132/660	132	140	132	110	Air cooling	
BPJ1-160/660	160	200	160	110	Air cooling	
BPJ1-200/660	200	235	200	160	Air cooling	
BPJ1-250/660	250	265	250	200	Air cooling	
BPJ1-315/660	315	350	315	250	Air cooling	
BPJ1-355/660	355	390	355	315	Air cooling	
BPJ1-400/660	400	435	400	315	Water cooling	
BPJ1-500/660	500	595	500	400	Water cooling	Four quadrants
BPJ1-55/660K	55	61	55	45	Air cooling	
BPJ1-75/660K	75	83	75	55	Air cooling	
BPJ1-90/660K	90	99	90	75	Air cooling	
BPJ1-110/660K	110	121	110	90	Air cooling	
BPJ1-132/660K	132	145	132	110	Air cooling	
BPJ1-160/660K	160	176	160	132	Air cooling	
BPJ1-180/660K	180	198	180	160	Air cooling	
BPJ1-200/660K	200	220	200	180	Air cooling	
BPJ1-220/660K	220	242	220	200	Air cooling	
BPJ1-250/660K	250	273	250	220	Air cooling	

BPJ series 1140V two quadrants combination explosion-proof VFD selection table :

Type	Rated power(kW)	Rated current(A)	Adapted motor(kW)		Cooling method	Function
			Light load	Heavy load		
BPJ-2×55/1140	2×55	0-2×36A	2×55	2×45	self-cooling	Two quadrants
BP-2×75/1140	2×75	0-2×50A	2×75	2×55		
BPJ-2×90/1140	2×90	0-2×59A	2×90	2×75		
BPJ-2×110/1140	2×110	0-2×72A	2×110	2×90		

■ BPJ1 series 1140V explosion-proof VFD selection table:

Type	Rated power(kW)	Rated current(A)	Adapted motor(kW)		Cooling method	Function
			Light load	Heavy load		
BPJ1-37/1140	37	25	37	30	Self cooling	Two quadrants
BPJ1-45/1140	45	30	45	37	Self cooling	
BPJ1-55/1140	55	36	55	45	Self cooling	
BPJ1-75/1140	75	50	75	55	Self cooling	
BPJ1-90/1140	90	60	90	75	Self cooling	
BPJ1-110/1140	110	73	110	90	Self cooling	
BPJ1-132/1140	132	90	132	110	Self cooling	
BPJ1-160/1140	160	105	160	110	Air cooling	
BPJ1-200/1140	200	130	200	160	Air cooling	
BPJ1-250/1140	250	160	250	200	Air cooling	
BPJ1-315/1140	315	210	315	250	Air cooling	
BPJ1-355/1140	355	224	355	315	Air cooling	
BPJ1-400/1140	400	250	400	315	Air cooling	
BPJ1-500/1140	500	350	500	400	Air cooling	
BPJ1-560/1140	560	380	560	500	Air cooling	
BPJ1-630/1140	630	400	630	500	Air cooling	
BPJ1-710/1140	710	440	710	630	Water cooling	
BPJ1-800/1140	800	500	800	710	Water cooling	Four quadrant
BPJ1-900/1140	900	560	900	800	Water cooling	
BPJ1-1000/1140	1000	620	1000	900	Water cooling	
BPJ1-1250/1140	1250	750	1250	1000	Water cooling	
BPJ1-55/1140K	55	35	55	45	Air cooling	
BPJ1-75/1140K	75	47	75	55	Air cooling	
BPJ1-90/1140K	90	56	90	75	Air cooling	Four quadrant requirements, to be used with DKB1-500/1140L filters
BPJ1-110/1140K	110	69	110	90	Air cooling	
BPJ1-132/1140K	132	85	132	110	Air cooling	
BPJ1-160/1140K	160	101	160	132	Air cooling	
BPJ1-180/1140K	180	113	180	132	Air cooling	
BPJ1-200/1140K	200	126	200	180	Air cooling	
BPJ1-220/1140K	220	139	220	200	Air cooling	
BPJ1-250/1140K	250	158	250	220	Air cooling	
BPJ1-280/1140K	280	177	280	250	Air cooling	
BPJ1-315/1140K	315	200	315	280	Air cooling	
BPJ1-400/1140K	400	253	400	315	Air cooling	Four quadrant requirements, to be used with DKB1-1000/1140L filters
BPJ1-500/1140K	500	300	500	400	Air cooling	
BPJ1-630/1140K	630	400	630	500	Water cooling	
BPJ1-710/1140K	710	449	710	630	Water cooling	
BPJ1-800/1140K	800	506	800	710	Water cooling	
BPJ1-900/1140K	900	569	900	800	Water cooling	
BPJ1-1000/1140K	1000	630	1000	900	Water cooling	

Self-circulating Water Chiller

Type	Water tank volume(L)	Rated flow Q (m³/h)	Operating flux (L/min)	Water pump power (kW)	Fan power (kW)	Heat dissipation power (kW)	Adapted PMSM power (kW)	Length×Width×Height (mm)	Weight (kg)
CL-300	300	6	50	4		20	P≤160	1350×1100×1150	545
CL-500	500	6	65	4		40	P≤315	1350×1100×1150	590
CL-700	700	8	100	5.5		65	P≤630	1500×1300×1350	740
CL-900	900	10	150	4	4	90	P≤1000	2000×1200×1300	950
CL-1000	1000	15	200	5.5	5.5	120	P≤1250	1700×1200×1730	1100

■ Operation steps:

- ◆ Before starting up, fill the water tank with water (about 90%) and check if all interfaces are properly installed.
- ◆ Check if the two DN32 ball valves have been opened (handle in the direction of the pipeline).
- ◆ Check the pressure reducing valve and ensure that the adjustment bolts of the pressure reducing valve are tightened (note: tightened before leaving the factory).
- ◆ Power on the motor, check if the motor direction is correct, and the cooling fan is in the suction mode.
- ◆ After starting up, open the DN10 ball valve on the filter until water flows out and close it.
- ◆ After 10 minutes of normal operation, when the water level in the water tank no longer drops, fill the tank with water and it can run normally.

■ General water quality standards for cooling water (GB/T 19923):

Item	Cooling water quality requirements
PH	7-8.5
Suspended solids (mg/L)	≤10
Turbidity (NTU)	≤5
Total alkalinity (calculated as CaCO ₃ /mg/L)	≤250
Sulfate (mg/L)	≤250
Ammonia nitrogen(mg/L in N)	≤10
Total dissolved solids (mg/L)	≤1000
Petroleum (mg/L)	≤1

■ Notes:

- ◆ To ensure safety, please read this chapter carefully before using the water chiller and follow the requirements during transportation, installation, operation, commissioning, and maintenance.
- ◆ Users should pay attention to the ambient temperature around the water chiller during winter, which should not be lower than 0 °C, to prevent the cooling water from freezing and causing damage to the water chiller. Special treatment is required under extremely cold conditions before use.
- ◆ When using the water chiller, it is necessary to ensure that the water outlet is unobstructed and not blocked to avoid excessive water pressure and damage to the water chiller.
- ◆ When users need to shut down and disconnect the power cord, special tools must be used to discharge the wiring terminals of the water chiller to avoid electric shock.
- ◆ The introduced cable core wire must be tightly fixed with a wiring pressure plate to prevent cable movement, otherwise it is easy to have a short circuit, causing discharge and explosion.
- ◆ It is strictly prohibited to open the lid with electricity.

Programmable Control Box of KXJ Series Mine Explosion-proof and Intrinsically Safe

Product profile:

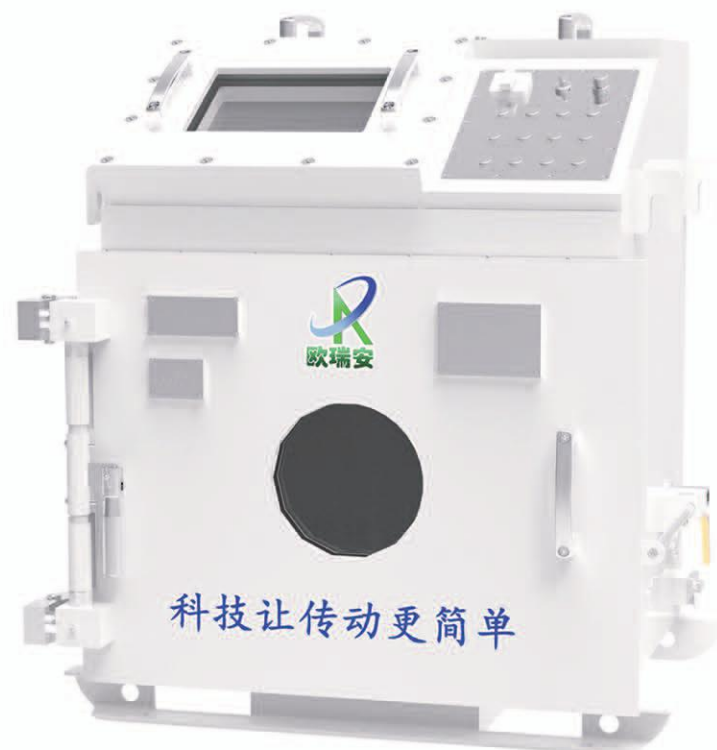
The KXJ series mine explosion-proof and intrinsically safe programmable control box integrates the functions of a control box and an operating console, suitable for environments containing explosive gases underground in coal mines. It collects information on external digital signal and can achieve automatic or manual control through an integrated control box, improving work efficiency, reducing labor intensity, and enhancing equipment operation safety.

Technical description:

- ◆ Rated voltage: 1140/660V, AC optional.
- ◆ External dimensions: 808mm x 701mm x 961mm.
- ◆ Using Siemens SIMATIC controller as the control core, The S7 series PLC has the characteristics of small size, fast speed, standardization, strong network communication ability, and high reliability, which can meet strict control requirements.
- ◆ Wide range of communication protocols: can meet communication interfaces such as RS485, Ethernet, DP etc.
- ◆ Powerful expansion function, capable of controlling multiple devices simultaneously.
- ◆ Friendly human-machine interface, displaying the operating status of external devices etc.
- ◆ Having the function of collecting digital signal.
- ◆ According to the requirements of the usage site, control the on/off of the output relay by changing the status of the input port.
- ◆ Our company has rich experience, and this product can achieve centralized control of the entire belt conveyor.

Application Environment:

- ◆ The altitude does not exceed 2000m.
- ◆ Ambient temperature: -15°C~40°C.
- ◆ Humidity: ≤95%.
- ◆ Pollution level: Level 3.
- ◆ Atmospheric pressure: 80kPa~110kPa.
- ◆ Places without severe impact and vibration.
- ◆ Places without dripping water or liquid intrusion.
- ◆ Places with methane and coal dust explosions underground in coal mines.
- ◆ Places where there are no corrosive gases that destroy the insulation.



Partial Remarkable Achievements of PMSM (Coal)

Type	Rated power (kW)	Rated voltage (V)	Quantity (pcs)	Belt conveyor distance (m)	Capacity (t/h)	Belt width (mm)	Belt speed (m/s)	Customer
TBVF-500/80YC(660/1140)	500	1140	4	2126	2000	1200	4.5	Yanzhou Coal Jisan Coal Mine
TBVF-1250/60YC(6000)	1250	6000	1	317	5000	2000	4.5	Inner Mongolia Boyuan New Energy Co.
TBVF-500/80YC(660/1140)	500	1140	2	1680	1200	1200	3.15	Datong Coal Mine Jinhua Palace Coal Mine
TBVF-450/64YC(660/1140)	450	1140	4	1260	1200	1000	4	Henan Pingbao Coal Industry Shushan No. 1 Mine
TBVF-500/80YC(660/1140)	500	1140	5	2756	3000	1400	4	Bayan Gaole Coal Mine in Inner Mongolia
TBVF-500/80YC(660/1140)	500	1140	3	3800	2300	1400	4	Inner Mongolia Yitai Tala Trench Coal Mine
TBVF-500/80YC(660/1140)	500	1140	3	1900	3500	1400	4.5	Tong Coal Datang Tashan Coal Mine
TBVF-1000/80YC(6000)	1000	6000	5	1626	1300	1400	4	Henan Ping Coal Company Six Mines
TBVF-315/40YC(660/1140)	315	1140	2	1200	1500	1200	3.15	Shanxi Coking Coal Fenxi Mining
TBVF-630/80YC(660/1140)	630	1140	3	3500	4500	1800	4.5	Ordos Yingpan Trench Coal Mine
TBVF-500/80YC(660/1140)	500	1140	4	1450	2200	1400	3.55	YanCoal HeZe Energy Chemical Zhaolou Coal Mine
TYVF-250/40YC(6000)	250	6000	5 (3pieces)	485	2000	1600	2.5	Inner Mongolia ChaHanNao Railway Terminal
TBVF-200/40YC(660/1140)	200	1140	2	1400	630	1000	2.5	Xinjiang Yixin Coal Mine
TBVF-500/80YC(660/1140)	500	1140	4	1242	1850	1200	4.5	Huainan Mining Group Pan San Mine
TBVF-630/80YC (660/1140)	630	1140	4	1482	3300	1600	4.5	Shandong Energy Xinjulong Coal Mine
TBVF-630/80YC(660/1140)	630	1140	3	1360	800	1200	3.15	Pingzhuang Energy Fengshuigou Coal Mine
TBVF-315/40YC(660/1140)	315	1140	2	1600	1000	1000	3.15	Shanxi Liulin Lingzhi Liujiazhuang Coal Mine
TBVF-630/80YC(660/1140)	630	1140	2	1784	1300	1200	3.15	
TBVF-630/60YC(6000)	630	6000	1	410	2000	1400	4	Shenhua BaoriHiller Open Pit Coal Mine
TBVF-630/60YC(6000)	630	6000	3	1760	1250	1400	3.15	Shanxi Huaiaren Luzigou Coal Mine
TBVF-315/40YC(660/1140)	315	1140	3	2600	1200	1200	3.5	Xishan Coal Power Group Xiqu Coal Mine
TBVF-630/60YC(6000)	630	6000	4	1640	700	1200	3.5	Pingdingshan Tian'an Coal Ten Mine
TBVF-315/40YC(660/1140)	315	660	1	147	2200	1400	3.8	Shanxi Hengshan WeiQiang Coal Mine
TBVF-800/80YC(1140)	800	1140	4	2700	3000	1600	4.5	Zhongtian Hechuang HuLuSu Coal Mine
TBVF-630/60YC(660/1140)	630	1140	2	1300	1200	1200	3.15	Shanxi Shouyang Duanwang Coal Mine
TBVF-630/60YC(660/1140)	630	1140	48 (12pieces)	770	3000	1400	4.5	Shenhua Ningxia Coal Group

TYVF-500/60YC(6000)	500	6000	2	850	1200	1200	3.15	Xinjiang Changji Xinlian Coal Mine
TBVF-250/40YC(6000)	250	6000	2	230	1700	1600	3.15	Shenhua ZhunNeng Heidaigou Coal Processing Plant
TBVF-250/40YC(6000)	250	6000	3 (2pieces)	116	1750	1600	2.5	Yankuang Yingpan Trench Coal Mine
TBVF-450/60YC(6000)	450	6000	10 (5pieces)	272	2500	1600	4	
TBVF-450/60YC(660/1140)	450	1140	3	3300	1200	1200	3.5	Wanbei Coal Power Qianyingzi Coal Mine
TBVF-800/80YC(1140)	800	1140	2	1047	750	1000	4	Yaojie Coal Power Jinhe Coal Mine
TBVF-315/40YC(660/1140)	315	1140	2	2438	750	1000	3.15	
TBVF-450/60YC(6000)	450	6000	7(3pieces)	662	1000	1200	3.15	Guizhou Panzhou Honghui Coal Mine
TBVF-800/80YC(1140)	800	1140	3	3700	2500	1400	4	Shenmu Coal Industry Shiyaodian Coal Mine
TBVF-500/60YC(660/1140)	500	1140	3	950	800	1200	3.15	Xinjiang Baicheng YinxiTierek Coal Mine
TBVF-500/60YC(660/1140)	500	1140	3	1070	1200	1000	3.15	Dayun Huasheng Laoyaogou Coal
TBVF-800/80YC(1140)	800	1140	4	2135	3500	1600	4.75	Dananhu Coal Mine, Changji, Xinjiang
TBVF-630/60YC(660/1140)	630	1140	3	2200	3000	1600	4	Inner Mongolia Jintai Chengta Coal Mine
TBVF-800/80YC(1140)	800	1140	8 (4pieces)	1113	3000	1600	4	China Coal Dahaizhe Mine
TBVF-1120YC(10000)	1120	10000	3	3087	3700	1600	4.5	
TBVF-1000/80YC(6000)	1000	6000	3	1350	1850	1200	5	Gansu Huating Yanbei Coal Mine
TBVF-500/60Y (660/1140)	500	1140	3	3100	1850	1200	4	
TBVF-500/84YC(6000)	500	6000	2	1200	400	1000	3	Yunnan Qujing Xingle Coal Mine
TBVF-630/84YC (1140)	630	1140	3	2200	2800	1600	4	Ordos Haohua Hongqingliang Coal Mine
TBVF-200/40YC(660/1140)	200	1140	4	2400	400	800	2	China Coal Xiyang Huangyanhui Coal Mine
TBVF-800/84YC (6000)	800	6000	3	1626	800	1200	3.55	Xinjiang Weidong Mining Taliq Coal Mine
TBVF-1120/84YC (10000)	1120	10000	2	386	3000	1600	4.5	Huineng Group Changtan Coal Mine
TBVF-1000/84YC(3300)	1000	3300	3	2000	5000	1600	5.2	Inner Mongolia Yitai Jingyue Sour Prickly Gully Coal Mine
TBVF-315/40YC(660/1140)	315	1140	2	500	800	1200	3.15	Gansu Jingyuan Coal Power Wangjiashan Coal Mine
TBVF-250/40YC(660/1140)	250	1140	3	1980	700	1000	3.15	Anhui Hengyuan Coal Power Hengyuan Coal Mine
TBVF-250/40YC (660/1140)	250	1140	6	3500	900	1000	3.15	Inner Mongolia Energy Chahasu Coal Mine
TBVF-800/84YC (1140)	800	1140	3	3176	1800	1400	4.5	China Coal Huajin Libi Coal Mine
TBVF-500/60YC(660/1140)	500	1140	16 (5pieces)	3250	1500	1200	3.5	Shanxi Yuyu Yulong Coal
TBVF-1250/84YC(3300)	1250	3300	3	4250	4000	1600	4.5	Inner Mongolia North UMC Gaotouyao Coal Mine
TBVF-500/60YC(660/1140)	500	1140	3	2100	1600	1200	3.5	Shanxi Youyu Hejiabao Coal
TBVF-315/56YC(660/1140)	315	1140	4	5500	700	1200	2.5	Shanxi Fuyuan Dangjiahe Coal Mine
TBVF-500/84YC(660/1140)	500	1140	2	2000	500	1000	3.55	Sichuan Leshan Hongyue Coal Mine
TBVF-630/84YC(10000)	630	10000	2	1100	550	1000	3.15	Xinjiang Hua'an Mining

Partial Remarkable Achievements of PMSM (Steel plant, power plant)

Type	Rated power (kW)	Rated Voltage (V)	Quantity (set)	Belt conveyor distance (m)	Capacity (t/h)	Belt width (mm)	Belt speed (m/s)	Customer
TYVF-160YC(380)	160	380	1	340	1000	1200	2.5	China Huadian Yunnan No.2 Power Plant
TYVF-315YC(690)	315	690	3(2pieces)	680	2500	1200	2.5	Shandong Iron and Steel Group Tangkeli Iron Ore Mine
TYVF-200YC(690)	200	690	2(2pieces)	166	2500	1200	2.5	
TYVF-315YC(6000)	315	6000	3	925	6000	2000	4.8	Qinhuangdao Port Authority Sixth Company
TYVF-250YC(380)	250	380	6(3pieces)	715	2500	1400	2	Shandong Iron & Steel Rizhao Branch
TYVF-355YC(6000)	355	6000	5(3pieces)	427	2000	1400	2	
TYVF-450YC(6000)	450	6000	2(2pieces)	781	1500	1400	2.5	
TYVF-500YC(6000)	500	6000	2(2pieces)	107	9000	2000	3.15	
TYVF-630YC(6000)	630	6000	6(2pieces)	885	9000	2000	3.15	
TBVF-160YC(380)	160	380	4(3pieces)	186	1800	1400	2.5	Jingneng Group Five-room Power Plant
TYVF-185YC(380)	185	380	7(5pieces)	234	1800	1400	2.5	
TYVF-110YC(380)	110	380	3	80	1800	1400	3.15	
TYVF-160YC(380)	160	380	1	294	1400	1400	2.5	Shangdu Second Power Generation Co
TYVF-37YC(380)	37	380	1	15	1400	1400	2.5	
TYVF-160YC(380)	160	380	3(3pieces)	90	1800	1600	2.5	Shandong Iron & Steel Laiwu Branch
TYVF-110YC(380)	110	380	1	115	1800	1600	2.5	
TYVF-250YC(380)	250	380	8	710	2400	1400	2.5	Masteel Engineering & Technology Co
TYVF-200YC(380)	200	380	6	650	1500	1200	2	
TYVF-450YC(6000)	450	6000	1	1016	400	Φ350	2	Taihang Iron & Steel Group Co
TYVF-250YC(6000)	250	6000	2(2pieces)	103	3840	1800	3.5	Jiangsu Guoxin Qingang Port Co
TYVF-355YC(6000)	355	6000	2	887	3840	1800	3.5	
TYVF-450YC(6000)	450	6000	1	937	500	Φ350	3.15	DXN Steel Indonesia
TYVF-315YC(6000)	315	6000	1	2577	1000	1600	3.5	
TYVF-630YC(6000)	630	6000	3	2577	1000	1600	3.5	
TYVF-1250YC(6000)	1250	6000	12(3pieces)	4728	3600	Φ500	4.5	Tangshan RingPort Corridor Transportation Co
TYVF-1250YC(6000)	1250	6000	3(3pieces)	935	3600	Φ500	4.5	
TYVF-1000YC(6000)	1000	6000	8(8pieces)	832	3600	Φ500	4.5	
TYVF-250YC (380)	250	380	5(3pieces)	183	2520	1600	3.15	Hunan Yueyang Power Generation Co
TYVF-280YC (380)	280	380	4	126	2520	1600	3.15	
TYVF-315YC (380)	315	380	2(2pieces)	103	2520	1600	3.15	
TYVF-75YC(380)	75	380	1	98	1000	1200	2.5	Jiangxi Xinchang Electric Power Co
TYVF-30YC(380)	30	380	1	10	1000	1400	1.6	

Partial Remarkable Achievements of PMSM (cement plant, construction materials industry)

Type	Rated power (kW)	Rated Voltage (V)	Quantity (set)	Belt conveyor distance (m)	Capacity (t/h)	Belt width (mm)	Belt speed (m/s)	Customer
TYVF-90YC(380)	90	380	1	100	800	1000	2	Chinalco International Mountain Aluminum Cement
TYVF-160YC(380)	160	380	1	600	900	1000	2	
TYVF-315YC(660)	315	660	1	296	3000	1600	2.5	Vietnam Blue RiverCement
TYVF-355YC(660)	355	660	4	2660	3000	1600	2.5	
TYVF-315YC(660)	315	660	1	2105	100	1200	3.15	
TYVF-110YC(660)	110	660	1	157	1000	1200	2.5	
TYVF-40YC(380)	40	380	3	155	300	800	2	Vietnam Cheng ShengCement
TYVF-110YC(380)	110	380	1	302	800	1200	2	
TYVF-90YC(380)	90	380	2	188	800	1200	2	
TYVF-55YC(380)	55	380	1	76	800	1200	2	
TYVF-75YC(380)	75	380	2	145	800	1200	2	
TYVF-500YC(690)	500	690	5	6820	1800	1200	3.15	
TYVF-200YC(690)	200	690	2	568	1800	1200	3.15	
TYVF-90YC(380)	90	380	1	122	600	1000	1.6	Pingyi ZhonglianCement
TYVF-110YC(380)	110	380	1	151	600	1000	1.6	
TYVF-630YC(6000)	630	6000	1	758	1800	1200	4	Guangxi JinLi carpceement
TYVF-630YC(6000)	630	6000	4	8380	1800	1200	4	
TYVF-630YC(6000)	630	6000	4	8915	1800	1200	4	
TYVF-75YC(380)	75	380	1	106	600	1000	1.6	Pingyi ZhonglianCement
TYVF-90YC(380)	90	380	1	120	500	1000	1.6	
TYVF-37YC(380)	37	380	1	120	300	800	1.25	
TYVF-315YC(660)	315	660	1	783	1600	1000	3.15	Zibo Landscape Cement
TYVF-315YC(660)	315	660	2	1957	1600	1000	3.15	
TYVF-37YC(380)	37	380	2	85	320	800	1.6	Shanya South Cement
TYVF-30YC(380)	30	380	1	52	320	800	1.6	

Type	Rated power (kW)	Rated Voltage (V)	Quantity (set)	Belt conveyor distance (m)	Capacity (t/h)	Belt width (mm)	Belt speed (m/s)	Customer
TYVF-55YC(380)	55	380	2	26	1500	1800	1.25	Shanya South Cement
TYVF-400YC(6000)	400	6000	2	2568	2500	1400	3.15	
TYVF-110YC(380)	110	380	1	1090	500	1000	1.6	
TYVF-185YC(380)	185	380	1	1148	320	800	1.6	
TYVF-132YC (380)	132	380	1	202	580	1000	1.6	Changleshan Watercement
TYVF-250YC (6000)	250	6000	4	540	1800	1200	2.5	China Power Construction Long New Materials Co.,LTD
TYVF-560YC (6000)	560	6000	2	607	3600	1600	3.15	
TYVF-280YC (6000)	280	6000	2	325	1800	1200	2.5	
TYVF-500YC (6000)	500	6000	4	69	7200	2000	3.15	
TYVF-400YC (6000)	400	6000	3	159	7200	2000	3.15	
TYVF-355YC (6000)	355	6000	2	194	2000	1400	2	
TYVF-630YC (6000)	630	6000	2	414	7200	2000	3.15	
TYVF-710YC (6000)	710	6000	3	485	7200	2000	3.15	
TYVF-315(6000)	315	6000	1	350	4000	1600	4	Jiangxi Richanglift belt conveyor
TYVF-450(6000)	450	6000	4	230	4000	1600	3.15	
TYVF-630YC(6000)	630	6000	2	6420	4000	1600	4	
TYVF-630YC(6000)	630	6000	2	2560	4000	1600	4	
TYVF-500YC(6000)	500	6000	2	6488	1000	1000	3.5	Hupeking BlueCement
TYVF-1000YC (6000)	1000	6000	8	7750	5500	1600	5	China Resources (Fengkai) cement
TYVF-315YC(10000)	315	10000	1	191	2700	1600	2.5	Du An ShangfengCement
TYVF-710YC(10000)	710	10000	3	4723	2750	1400	3.55	
TYVF-355YC (6000)	355	6000	1	638	3000	1400	3.15	Baoshan Cement of
TYVF-185YC (380)	185	380	1	63	3000	1400	3.15	
TYVF-315YC(380)	315	380	3	5375	1200	1000	3.5	Wille ConstructionGroup (Shigatse)

Partial Remarkable Achievements of PMSEP

Type	Rated power (kW)	Rated voltage (V)	Quantity (set)	Customer
STYB200-2.5-1000×1000(660/1140)	200	1140	2	Yitai Group Kaida Coal Mine
STY90-1.6-800×1000 (380)	30	380	5	Benxi Oriental Sanjiazi Mining
STYB55-2.5-800×1000 (660/1140)	55	660	2	Zibo Mining Group Xinhe Coal Mine
STYB90-2.5-630×1000 (660/1140)	90	1140	12	Luxi Mining New Julong Coal Mine
STY90-2.5-630×1000 (380)	90	380	2	Ningxia Wuzhong Saima cement
STYB315-4-1000×1200 (660/1140)	315	1140	3	Shuozhou Coal Power Xiaoyu Coal Mine
STYB55-2.5-630×1000 (660/1140)	55	1140	2	Wuhai Yulon Lisheng Mining
STYB250-3.55-1250×1000 (660/1140)	250	660	1	Shanghai Datun Yaoqiao Coal Mine
STYB30-2-630×800(660/1140)	30	1140	2	Shanxi Fuyuan Dangjia he Coal Mine
STY75-1.6-630×1000(380)+Backstop	75	380	3	Jinan Heat Power Group Tangye heat source plant
STY132-1.25-1000×1200 (380) +Backstop	132	380	2	Jidong Jinyu cement
STYB75-2.5-630×1200 (660/1140)	75	1140	2	Huainan Mining Gubei Coal Mine
STYB75-2-800×1000 (660/1140)	75	1140	4	Yunnan Fuyuan Xiaogouzi Coal Mine
STY132-2.5-1000×2200(380)	132	380	9	Hydropower 8th Bureau (Xiong'an)
STYB200-2.5-1000×1400 (660) +Backstop	200	660	2	Huainan Mining Dingji Coal Mine
FTYB90-3.15-630×1200 (380) +Backstop	30	380	5	Inner Mongolia Jianyuan Coal Coking Co., Ltd
STYB75-3.15-800×1000(660/1140)	75	1140	3	Luxi Mining Pengzhuang Coal Mine
STYB250-3.15-1000×1000 (660/1140)	250	1140	4	Huaihe Energy Bojiang Haizi Mine
STYB160-2.5-800×1000(660/1140)+Backstop+Brake discs	160	660	2	Hebi Coal Power No. 6 Mine
STYB160-3.15-800×1000 (660/1140) + Brake discs	160	1140	11	Xishan Coal Power Xiegou Coal Mine
FTY75-3.15-630×1400 (660) +Backstop+Brake discs	75	660	1	Ningxia Wangwa Coal Preparation Plant
STYB90-2.5-1000×1000 (660/1140)	90	1140	3	Xishan Coal Power Zhenchengdi Coal Mine
STYB55-2.5-630×800(660/1140)+Backstop	55	660	1	Anyang Xinlong Hongling Coal Mine
STY132-2.8-1000×1200 (380) +Backstop	132	380	2	Benxi Pengda Mining
STY280-3.55-1000×1400 (380) +Backstop	280	380	2	
STYB280-3.15-1250×1000 (660/1140)	280	1140	4	Guizhou Shuicheng Mining Dahebian Coal Mine
STYB160-3.15-1000×1000 (660/1140)	160	1140	2	Shanxi Coal Gujiao Bolong Coal Mine
STYB90-2.5-800×800 (660/1140)	90	1140	9	Zichang County Yangmahe Mining
STYB200-2.5-1000×1000 (660/1140)	200	1140	8	Inner Mongolia Mataihao Coal Mine

STYB200-3.15-1000×1200 (660/1140)	200	1140	3	Yaojie Coal Power Group 3th Mine
STYB160-3.15-1000×1000 (660/1140) +Backstop	160	1140	3	Shanxi coal Gujiaoliaoyuan Mining
STYB90-2.5-800×1000 (660/1140) +Backstop	90	1140	8	Ningxia Hongdunzi Coal Industry Honger Coal Mine
STYB90-2.5-800×1000 (660/1140) +Brake discs	90	1140	8	
STYB200-2.5-1000×1000 (660/1140)	200	1140	4	Shenmu City Hujiata Coal Mine
STYB250-2.5-1000×1000 (660/1140)	250	1140	1	Anyang City Zhujiao Mining
STYB40-2.5-630×1000 (660/1140) +Backstop	40	1140	6	
STYB110-3.15-800×1000 (660/1140) +Backstop+Brake discs	110	1140	2	Luxi Mining Luxi Coal Mine
STYB75-3.15-800×1000 (660/1140) +Backstop	75	1140	1	Guizhou Shuicheng Mining Dahebian Coal Mine
STYB315-3.15-1400×1000 (660/1140) +Backstop	315	1140	3	Guizhou Jiuyi Mining Baoxing Coal Mine
FTYB55-2-800×1200 (380) +Backstop	55	380	6	Anhui Province Wanbei Coal Power Group
STYB75-2-630×1000 (660/1140) +Backstop	75	1140	4	
STYB200-4-1000×1200 (660/1140)	200	1140	3	Huainan Mining Guqiao Coal Mine
STYB75-2.5-800×1200 (660)	75	660	2	Huineng Group Changtan Coal Mine
STYB160-2.5-800×1200 (660)	160	660	1	
STYB315-4-1000×1000 (660/1140)	315	1140	6	Ordos Mataihao Coal Mine
STYB315-3.15-1250×1400 (660/1140) +Brake discs	315	1140	2	Guizhou Guineng Sijichun Coal Mine
STYB132-3.15-800×1000 (660/1140) +Backstop+Brake discs	132	1140	6	Yaojie Coal Power Group Jinhe Coal Mine
STYB75-3.15-800×1000 (660/1140) +Backstop+Brake discs	75	1140	6	
STYB200-3.15-1000×1000 (660/1140)	200	1140	6	
STYB160-3.15-800×1000 (660/1140)	160	1140	11	Yaojie Coal Power Group Haishiwan Coal Mine
STYB450-4-1250×1400 (660/1140)	450	1140	7	Inner Mongolia Energy Yushujing Coal Mine
STYB315-3.15-1250×1200 (660/1140) +Backstop+Brake discs	315	1140	2	Shanxi Lingshi Xinyiwangling Coal Industry
STYB132-2.5-800×1000 (660/1140)	132	1140	4	Shanxi Xinzhou Shenda WanxinAnping Coal Mine
STYB30-2.5-630×1000(660/1140)	30	660	5	Tianbao Coal Industry Hongshaliang Coal Preparation Plant
STYB250-3.5-1000×1200 (660/1140) +Backstop+Brake discs	250	660	1	
STYB90-3.15-800×1400 (660/1140) +Backstop+Brake discs	90	1140	1	Shenmu City Shengfu Coal Mine
STYB30-4-630×800 (660/1140)	30	1140	2	Hebi Coal Power No. 9 Mine
STYB315-3.5-1000×1200 (660/1140)	315	1140	4	Inner Mongolia Mengfa Coal Huhewusu Coal Mine
STYB132-3.15-800×1000 (660/1140)	132	1140	2	

Partial Remarkable Achievements of Permanent Magnet Synchronous Variable Frequency Integrated Product (PMSM+VFD)

Type	Rated power (kW)	Rated voltage (V)	Quantity (set)	Belt conveyor distance (m)	Capacity (t/h)	Blet width (mm)	Blet Speed (m/s)	Customer
TYBVFT-560L-40(110/1140)	110	1140	3	1000	400	1000	1.6	Huainan Mining zhujidong Coal Mine
TYBVFT-800L-60(400/1140)	400	1140	2	1500	1200	1200	4	Wuhai Huangbaici Mining
TYBVFT-630L-40(250/1140)	250	1140	6	4000	400	1000	3.15	Inner Mongolia Gaotouyao Coal Mine
TYBVFT-800L-60(400/1140)	400	1140	4	1000	500	1000	3.15	Hebi Coal Power No. 8 Mine
TYVFT-630L-40(200/660)	200	660	1	184	800	1000	3.15	Shenmu City Daliuta Dongchuan Coal Mine
TYBVFT-560L-40 (160/1140)	160	1140	2	1800	800	1000	3.15	
TYBVFT-560L-40 (90/1140)	90	1140	1	300	800	1000	3.15	
TYBVFT-1000L-60 (1000/1140)	1000	1140	3	1100	1500	1200	4	Ningxia Coal Industry Lingxin Coal Mine
TYBVFT-800L-60 (500/1140)	500	1140	3	1997	1500	1200	4	
TYBVFT-800L-60(500/1140)	500	1140	2	1400	800	1000	3.15	Henan Qianqiu Coal Mine
TYBVFT-630L-40(200/1140)	200	1140	4	2500	800	1000	2.5	China Coal Huajin Libi Coal Mine
TYBVFT-560L-40 (160/1140)	160	1140	2	2000	400	800	2.5	Inner Mongolia Jintaichengta Coal Mine
TYBVFT-560L-40(160/1140)	160	1140	1	340	800	1200	2.5	Guizhou Heilaga Coal Mine
TYBVFT-800L-60(400/1140)	400	1140	2	800	450	1000	2.5	Hebi Coal Power No. 3 Mine

Partial Remarkable Achievements of PMSM (Grinding machine, air cooling island, powder separator, agitator)

Type	Rated power (kW)	Rated voltage (V)	Rated speed (r/min)	Quantity	Load	Customer
QTVF-315YC (380)	315	380	210	3	Mill	Hebei Chengde Jianlong Mining
QTVF-185YC (380)	185	380	208	1	Mill	Guangxi Huaxi Group Chehe Concentrator Plant
QTVF-800YC(6000)	800	6000	200	2	Mill	Jingneng Group's Wujianfang power plant
KTVF-160YC(380)	160	380	112	16	Empty cold island	
QTVF-500YC(6000)	500	6000	132	1	Mill	Qufu Zhonglian Cement Co., Ltd
QTVF-800YC (10000)	800	10000	167	1	Mill	Shandong Gold Xinhui Mining
QTVF-500YC (6000)	500	6000	187.5	1	Mill	Shandong Gold Jinzhou Mining
QTVF-710YC(6000)	710	6000	150	1	Mill	Xinxing Casting Pipe Co., Ltd
QTVF-280YC(380)	280	380	176	1	Mill	Tianbao Group Luanping Iron Horse Mining
TYVF-800YC (10000)	800	10000	140	1	Mill	Xinjiang Tianshan Cement

TTVF-1400YC(6000)	1400	6000	200	1	Mill	Inner Mongolia ZhongyuTaide Hongqinghe Coal Mine
TYVF-355YC(6000)	355	6000	180	1	Mill	Xinjiang Tianshui Cement
TYVF-1400YC(10000)	1400	10000	110	2	Mill	Fujian Tower brand cement
QTVF-1400YC(10000)	1400	10000	200	2	Mill	Inner Mongolia Shilawusu Coal Mine
TYVF-220YC(380)	220	380	165	1	Mill	Taishan fiberglass Zoucheng branch
TYVF-200YC(380)	200	380	167	1	Mill	Jilin Jianlong Steel Co., Ltd
TYVF-1250YC(6000)	1250	6000	200	1	Mill	Anhui Magang Nanshan Mining
TYVF-1400YC(6000)	1400	6000	200	1	Mill	
QTVF-2000YC (6000)	2000	6000	200	2	Mill	Inner Mongolia Zhongyu Taide Haosheng Coal Mine
TYVF-1400YC(10000)	1400	10000	133	1	Mill	Jiangxi Nancheng South Cement Co., Ltd
TYVF-400YC(10000)	400	10000	165	1	Mill	Guangxi Nandantaixing Wuyi Mining
TYVF-630YC(10000)	630	10000	167	1	Mill	
KTVF-132YC (380)	132	380	78	1	Empty cold island	Liaoning diaobingshan Power Generation Co., Ltd
KTVF-75YC(380)	75	380	150	8	Empty cold island	Qilu Pharmaceutical Hulunbuir Branch
TYVF-280YC(380)	280	380	100	18	Fermenters	
TYVF-630YC(10000)	630	10000	120	28	Fermenters	
TYVF-110YC(380)	110	380	110	13	Mixer	Changzhou Joel Plastic Co., Ltd
TYVF-200YC(380)	200	380	125	1	Powder selection machine	Linyi Zhonglian Cement Tancheng Branch
TYVF-160YC(380)	160	380	220	1	Powder selection machine	Jinyu Jidong Cement Co., Ltd
TYVF-160YC(380)	160	380	70	1	Powder selection machine	Pingyin Zhonglian Cement Co., Ltd
TYVF-132YC(380)	132	380	214	1	Powder selection machine	Guangxi Jinli Cement Co., Ltd
TYVF-250YC(380)	250	380	150	1	Powder selection machine	
TYVF-160YC(380)	160	380	750	3	Hoist machine	
TYVF-45YC(380)	45	380	240	1	Hoist machine	Lutai Environmental Protection Building Materials Co., Ltd
TYVF-280YC(380)	280	380	185	1	Powder selection machine	Jidong Cement Chongqing Hechuan Cement Co., Ltd
TYVF-160YC(380)	160	380	75	1	Powder selection machine	
TYVF-45YC(380)	45	380	165	2	Cooling towers	Sichuan Esheng Cement Co., Ltd
TYVF-75YC(380)	75	380	86	3	Powder selection machine	
TYVF-110YC (380)	110	380	20	2	Hoist machine	Chongqing Wanzhou Cement Co., Ltd
TYVF-185YC(380)	185	380	140	1	Powder selection machine	Chongqing Jiufang Technology Co., Ltd
TYVF-160YC(380)	160	380	150	1	Powder selection machine	
TYVF-110YC(380)	110	380	213	1	Powder selection machine	Tianjin Jidong Cement Co., Ltd
TBVF-55YC(380)	55	380	239	1	Powder selection machine	Xinjiang Tianshui Cement Co., Ltd
TYVF-110YC(380)	110	380	89	2	Powder selection machine	
TBVF-110YC(1140)	110	1140	100	1	Stepless rope winch	Shanxi Fuyan Coal Mine
TYVF-110YC(380)	110	380	118	2	Powder selection machine	Tianjin Jidong Cement Co., Ltd
TYVF-200YC(380)	200	380	80	1	Powder selection machine	
TYVF-132YC (380)	132	380	95	1	Powder selection machine	Shandong Lutai Environmental Protection Building Materials Co., Ltd
TYVF-160YC(380)	160	380	140	1	Powder selection machine	Chongqing Jiufang Technology Co., Ltd
TYVF-45YC(380)	45	380	39	6	Mixer	China Agricultural International Potash Company Limited
TYVF-560YC(6000)	560	6000	51	6	Mixer	
TYVF-75YC(380)	75	380	200	1	Powder selection machine	Kezhou Tianshan Cement Co., Ltd

Application scenarios in the mining industry



Heidaigou Coal Mines
Minimum operating temperature-50°C



PMSM+VFD



Emulsion pump



Gas drainage pump



Permanent Magnet Electric Pulley



winch

Replace asynchronous motor+reducer/hydraulic coupling, direct drive load.

Application scenarios in the construction materials industry



The world's largest green construction aggregate project under construction-ChinaHydroelectric Eighth Bureau-Changjiu Shenshan(250~710kW,28套)(250~710kW,28 sets)



powder separator



elevator



Ball mill (raw/clinker mill, air-swept coal mill)



Replace asynchronous motor+reducer/hydraulic coupling, Maximum power 5,000kw.

Application scenarios in the power industry



Belt conveyor



Side agitator



cooling tower fan

National Clean Power Generation Demonstration Window -Inner
Mongolia JingnengGroup Wujianfang Power Plant



Belt conveyor



Air cooling island fan



Belt conveyor, air cooling island, agitator etc. (55kW-800kW)

Application scenarios in the steel and biopharmaceutical industries



Shandong Iron and Steel Group Rizhao Co., Ltd



Shandong Gold Group Co., Ltd



China Baowu Iron and Steel Group Co.,Ltd



Qilu Pharmaceutical Co.,Ltd
agitator tank (280kW,630kW,46 sets)

Multi industry and multi field application scenarios



Pusher



Servo press



Marble Cutter

Application scenarios of countries along the Belt and Road



Sierra Leon Tangkrili Iron Mine Project



Vietnam VISSAI International Port-Song Lam Project



Sino-Agri International Potash Co., Ltd Project



Service Network

Tai'an City, Shandong Province/Taiyuan City, Shanxi Province/Yinchuan City, Ningxia
 Ordos City, Hulunbuir City, Inner Mongolia/Huainan City, Anhui Province
 Shanghai City/Nanning City, Guangxi Province/Kunming City, Yunnan Province/
 Guiyang City, Guizhou Province
 Indonesia/Vietnam/Sierra Leone/Laos/Serbia/Madagascar/Zimbabwe/New Zealand