



**ELECTRIC DRIVES**  
FOR EVERY DEMAND

VEM  **DRIVE**  
drive systems

**Drive Systems by VEM –  
Reference list 03/2021**

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Year of Order	Customer	Description	Product	Voltage	Power [kW]	Motor [kW]	Country
2021	Vision	Air separation plant 26 MW Synchronous motor with excitaiton unit	Motor Excitation unit	MV			CN
2020	Linde for Gazprom / Russia	Amur Gas Processing Plant Train 6 - Synchronous motor 25 MW, 10,000 V - Starting converter (LCI) 15 MW with switchgear and excitaiton unit	Motor LCI Switchgear Excitation unit	MV		25000	RU
2020	Linde for Gazprom / Russia	Amur Gas Processing Plant Train 6 Synchronous generator 9,5 MVA & 6,3 MVA, 10.000 V with excitation unit	Generator Excitation unit	MV		9500 6300	RU
2020	Burckhardt Compression AG for Wanhua Chemical Group / China	1x Booster motor 5,6 MW with excitation unit 1x Hyper motor 21 MW with starting converter (LCI) and excitation unit	Motor LCI Transformaer Excitation unit	MV			CN
2020	KKP Elektroanlagen Berlin for S-Bahn Berlin	Test rectifier Nr.3 1100 VDC, 300 A	Rectifier Transformer	LV			DE
2020	EAT / Köppern	Drive system for HPGR mill: -12-Pulse transformer 2000 kVA -2x Frequency converter 690 V -2x Motor 670 kW	Transformer Frequency converter Motor	LV		670	CN
2020	Saline Water Conversion Cooperation / Saudi Arabia	Replacement of four (4) subsynchronous converter cascade (SCC) for pump drives 13.8 kV, 9.3 MW and 11.5 MW , water-cooled and spare parts	SCC	MV	< 10000		SA
2019	Burckhardt Compression AG for ZPC / China	2x Booster motor 6,3 & 8,4 MW with excitation unit 2x Hyper motor 26 & 30 MW with starting converter (LCI) and excitation unit	Motor LCI Transformator Erregereinheit	MV		6300 8400 26000 30000	CN

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2019	Hangzhou Fortune Gas	Air separation plant, part A 1x 40 MW Synchronous motor with excitaiton unit 1x 19.5 MW Induction motor	Motor Excitation unit	MV		40000 19500	CN
2019	Linde for Gazprom / Russia	Amur Gas Processing Plant Train 5 - Synchronous motor 25 MW, 10,000 V - Starting converter (LCI) 15 MW with switchgear and excitaiton unit	Motor LCI Switchgear Excitation unit	MV		25000	RU
2019	Linde for Gazprom / Russia	Amur Gas Processing Plant Train 5 Synchronous generator 9,5 MVA & 6,3 MVA, 10.000 V with excitation unit	Generator Excitation unit	MV		9500 6300	RU
2019	Hangzhou Fortune Gas	Air separation plant, part B 1x 40 MW Synchronous motor with excitaiton unit 1x 19.5 MW Induction motor	Motor Excitation unit	MV		40000 19500	CN
2019	MHPSE for RWE biomass plant Amer 9 / Netherlands	Drive system for fan with motor, frequency converter and transformer build in 40 feet container incl. UPS and cooling units	Motor Frequency converter Transformer UPS Control cabinet Container	MV	2000		NL
2019	MAN / Air Products for Gasunie / Netherlands	Nitrogen plant consisting of -MAC unit (3x Synchronous motor with excitation unit fed via 33/10.5 kV transformer), -INC Einheit (3x Induction motor fed via 33/10.5 kV transformer) -NIC Einheit (2x Induction motor fed via 33/10.5 kV transformer)	Motor Transformer NER Excitation unit	MV	< 12000		NL
2019	Hangzhou Fortune Gas	Air separation plant 1x 30 MW Synchronous motor with excitaiton unit 1x 16 MW Induction motor	Motor Excitation unit	MV		30000 16000	CN

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2019	Constellium / Singen	Retrofit of roll stand 2 aluminium plant Constellium Singen from DC to AC drive incl. transformer, converter, motor, gearbox, cabeling, automatization	Motor Frequency converter Transformer Switchgear Cabeling Control cabinet	MV		4400	DE
2018	KKP Elektroanlagen Berlin for S-Bahn Berlin	Test rectifier Nr.2 1100 VDC, 300 A	Rectifier Transformer	LV			DE
2018	VAD Anlagenbau for PIGSAR / Germany	Low harmonic drive system for gas test stand (pressure 60 bar).	Transformer Frequency converter Motor	LV	1000	970	DE
2018	Burckhardt Compression AG for Sinochem Quanzhou / China	Booster motor with excitation unit 3,9 MW, 10 kV & Hyper motor with excitation unit 13 MW, 10 kV for LDPE plant; Transformer with NER 36/10.5 kV, 25 MVA MV switchgear with protection relays 10 kV, 2000 A Autotransformer for starting of Hyper motor 10 kV	Motor Excitation unit Autotransformer Transformer Neutral Earthing resistor Switchgear	MV		13000	CN
2018	Voith Turbo GmbH / Germany	Retarder test stand 630 kW with regenerative air cooled frequency converter ACS800-17 and induction motor (water cooled)	Frequency converter Motor	LV	<= 630		DE
2018	Linde for Gazprom / Russia	Amur Gas Processing Plant Train 4 - Synchronous motor 25 MW, 10,000 V - Starting converter (LCI) 15 MW with switchgear and excitaiton unit	Motor LCI Switchgear Excitation unit	MV		25000	RU
2018	Linde for Gazprom / Russia	Amur Gas Processing Plant Train 4 Synchronous generator 9,5 MVA & 6,3 MVA, 10.000 V with excitation unit	Generator Excitation unit	MV		9500 6300	RU

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2017	Andritz AG / Austria for Kronospan; Smorgon	Drives for a pressurized refining system with various frequency converters 90 kW, 315kW, 1,180 kW, three-phase asynchronous motors 37 kW - 7,500 kW and a medium-voltage switchgear	frequency converter motor switch gear	LV	90 315 1180		BY
2017	Storengy Deutschland GmbH	Reciprocating compressor 2,600kW, VEMoDRIVE Replacement for VSI-S 690/2760-12-6	Umrichter	LV	2600		DE
2017	KKP Elektroanlagen Berlin for S-Bahn Berlin	Test rectifier 1100 VDC, 300 A	Rectifier Transformer	LV			DE
2017	John-Deere-Lanz AG / Germany	Frequency converter for motor test stand 160 kW, 400 V	Converter	LV	< 250		DE
2017	SWCC / Al-Jubail Plants	2x LCI for synchronous motors 3.356 kW, 2.470 V AC 2x LCI for synchronous motors 1.492 kW, 1.350 V AC	LCI	MV	3550 1600		SA
2017	Outotec GmbH / Germany for Gohar Zamin Pelletizing Plant / Iran	Drive systems for fans from 750 kW up to 6 MW with MV-VSDs, transformers, motoren and MV switch gear 7.2 kV / 20 kA	Frequency converter Transformer Motor Switchgear	MV	750 - 6000	750 - 6000	IR
2017	Andritz AG / Austria for Ufa	Drives for a pressurized refining system with various frequency converters 132 kW, 710 kW, 1,700 kW, three-phase asynchronous motors 37 kW - 10,000 kW and a medium-voltage switchgear	Frequency converter Motor Switch gear	LV	132 710 1700	37 - 10000	RF
2017	Linde for Gazprom / Russia	Amur Gas Processing Plant Train 3 - Synchronous motor 25 MW, 10,000 V - Starting converter (LCI) 15 MW with switchgear and excitaiton unit	Motor LCI Switchgear Excitation unit	MV		25000	RU
2017	Linde for Gazprom / Russia	Amur Gas Processing Plant Train 3 Synchronous generator 9,5 MVA & 6,3 MVA, 10.000 V with excitation unit	Generator Excitation unit	MV		9500 6300	RU

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2016	SISCO / Iran	Drive systems for grinding roll 1,550 kW, 690 V, consisting of one oil immersed transformer, two (2) LV frequency converters and two LV induction motors	Oel-trafo Converter Motor	NS	> 1500		IR
2016	EGESIM Electric CO.	Four (4) Frequency converter for pump drives 1000 kW, 690 V	Converter	NS	1000		TR
2016	John-Deere-Lanz AG / Germany	Frequency converter for motor test stand 160 kW, 400 V	Converter	NS	< 250		DE
2016	Linde for Gazprom / Russia	Amur Gas Processing Plant Train 2 Synchronous generator 9,5 MVA & 6,3 MVA, 10.000 V with excitation unit	Generator Excitation unit	MV		9500 6300	RU
2016	Linde for Gazprom / Russia	Amur Gas Processing Plant Train 2 - Synchronous motor 25 MW, 10,000 V - Starting converter (LCI) 15 MW with switchgear and excitaiton unit	Motor LCI Switchgear Excitation unit	MV		25000	RU
2016	Linde for Gazprom / Russia	Amur Gas Processing Plant Train 1 Synchronous generator 9,5 MVA & 6,3 MVA, 10.000 V with excitation unit	Generator Excitation unit	MV		9500 6300	RU
2016	Linde for Gazprom / Russia	Amur Gas Processing Plant Train 1 - Synchronous motor 25 MW, 10,000 V - Starting converter (LCI) 15 MW with switchgear and excitaiton unit	Motor LCI Switchgear Excitation unit	MV		25000	RU
2016	MHPSE / Power plant Turov	Dive systems for - 1 x ID fan 9780 kW, 3,300 V - 1 x Rezi fan 1560 kW, 6,000 V - 6 x Coal mills 950 kW, 690V	Transformer Frequency converter Motor	MS NS	9780 1560 950		PL

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2016	ORTADOGU TEKNIK UNIVERSITESI	Traction motors with LV converter for test stand	Motor Frequency converter	LV	220		TR
2016	Wacker Chemie AG / Gemany	Synchronous motor 5400 kW, 10 kV	Motor Excitation unit	MV		5400	DE
2015	FBB Förderband GmbH / Germany	Renewal of drive technology for calender with thyristor converters	DC Converter	NS	< 200		DE
2015	Helmstedter Revier GmbH / Germany for power plant Buschhaus	Renewal of the control of three (3) subsynchronous converter cascades, 6 MW each, for feed water supply	SCC	MS	> 5000		DE
2015	INEOS Vinyls Deutschland GmbH	Exchange of four (4) controllers PLC-S5 to PLC-S7 in the CSI inverters for agitator drives	Controll PLC	NS			DE
2015	LIWA Petroleum & Industrial Supplies LLC / Borouge Polymers Abu Dhabi / UAE	Drive for a gear pump 1,600 kW with LV frequency converter cabinet, 12-pulse, and spare parts	Frequency converter	NS	> 1500		AE
2015	Schenck RoTec GmbH for Project Chinagas, Darmstadt / Germany	Drive System for wheel balancers and spin system with 500 kW, regenerative frequency converter, water-cooled AC motor and control cabinet with PLC	Frequency converter Motor	NS	50		DE
2015	TISCO for Corporation Saline Water Conversion / Saudi Arabia	Replacement of five (5) subsynchronous converter cascade (SCC) for pump drives 13.8 kV, 9.3 MW and 11.5 MW , water-cooled and spare parts	SCC	MS	10000		SA
2015	TU Clausthal / Germany	Delivery and installation of a LH frequency converter for motor power 1,700 kW, mounted in sound insulation container	Frequency converter Container	NS	1500		DE
2014	Aluminium Oxid Stade GmbH / Germany	Pump drive 825 kW with subsynchronous converter cascade SCC	SCC	NS	< 1000		DE

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2014	Andritz AG / Austria for Arian Maryam / Iran	Drives for refiners with various AC motors in the power range 22-5.000 kW	AC-motors	NS MS	< 5000		IR
2014	EKATO Rühr- und Mischtechnik GmbH / Germany for Chembel BP Belgium	Two (2) MV drive systems for PTA mixer 2,250 kW / 6 kV each with an air-cooled medium voltage frequency converter ACS 5000, oil-immersed transformers for VSD and bypass	Converter Trafo	MS	> 2000		BE
2014	John-Deere-Lanz AG / Germany	Frequency converter for motor test stand 220 kW	Converter	NS	< 250		DE
2014	Linde AG Division Engineering / Germany for Hydrogen plant Nizhnekamsk / Russia	Four (4) drive systems for flue gas blower with frequency converters, a.c. motors 650 kW, 1,150 kW, transformers 800 kVA, 1,200 kVA and spare parts	Converter Trafo Motor	NS	> 500 >1000		RUS
2014	Mechel BMK Beloretsk / Russia	Delivery of three (3) DC quick brake switch 1,500 V	DC high-speed circuit breaker	MS			RUS
2014	Mechel Chelyabinsk Metallurgical Plant / Russia	Delivery of 4 pieces DC motors 550 kW	DC motors	NS	> 500		RF
2014	Power plant Jänschwalde via Vattenfall Europe Generation / Germany	Retrofit of four (4) control cabinets for the drives of the air preheater at Block A	Frequenzumrichter	NS	< 100		DE
2014	VEM Sachsenwerk Dresden / Germany for power plant Koziernice 11 / Poland	Increase in performance of the two (2) drive system for the PA fans, 2,640 kW each, with MV-frequency converter, transformers 3,270 kVA and spare parts	Converter Trafo	MS	> 2500		PL
2013	Andritz AG / Austria for Yasmine MDF line II / Iran	Drives for a pressurized refining system with various frequency converters 110 kW, 315kW, 1,200 kW, three-phase asynchronous motors 30 kW - 6,500 kW and a medium-voltage switchgear	Converter Motor Medium-voltage switchgear	NS MS	> 100		IR



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2013	BASF Schwarzheide GmbH / Germany	Renewal of the pump drives 580 kW with 2 each low-voltage - frequency converters ACS800 and three-phase asynchronous motors	Converter Motor	NS	> 500		DE
2013	BASF Antwerpen / Belgium	Drive system for a steam boiler plant 315 kW with LV frequency converters, bypass and three-phase asynchronous motors and one motor as spare part	Converter Motor	NS	< 500		BE
2013	Berliner Wasserbetriebe Wasserwerk Tiefwerder / Germany	Renewal of the starting control of the clear water pump 7 with retrofitting to subsynchronous converter cascade 1000 kW	SCC	MS	1000		DE
2013	EKATO Rühr- und Mischtechnik GmbH / Germany for Hengli Line 3/ China	Two (2) PTA Agitator drives 2,500 kW with water-cooled MV frequency converters ACS 1000 and cast resin transformers 3,100 kVA	Converter Trafo	MS	2500		CN
2013	ELPRO GmbH / Germany for cement plant Kordestan / Iran	Drives for mill fan and separator with power from 2,400 kW and 250 kW with several frequency converter and spare parts	Converter	NS	2400 250		IR
2013	Mechel BMK, Beloretsk / Russia	Modernization of the switching cells with MS VACUUM circuit-breakers, 1,250 A, and electronic protective equipment for the 150-rod mill	Circuit breaker	MS			RF
2013	Outotec GmbH Germany for Gol-E-Gohar Pelletizing Plant / Iran	Drive systems for fans from 750 kW up to 6 MW with MV frequency converters, transformers, motors, and medium voltage switchgear 7,2 kV / 20 kA	Converter Trafo Motor Switch gear	MS	750 - 6000		IR
2013	Proplan GmbH via Vattenfall Europe Mining AG Schwarze Pumpe / Germany	Retrofitting of a briquette press (500 kW) with subsynchronous converter cascade in master-slave operation, transformer and switchgear 500 V	SCC Trafo	NS	500		DE

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2013	Siemens Osakeyhtiö Energy for Fortum Loviisa nuclear power plant / Finland	Replacement of six (6) rotating converters (motor-generator-set) with control, excitation system and synchronization for emergency power supply two power plant units	Motor-Generator-unit Control	NS	< 100		FI
2013	Linde Xinghe China	Frequency converter and transformer for gas compressor 1200 kW	Frequency converter Trafo	NS	> 1000		CN
2013	ZEMAG Maschinenbau GmbH for Brikettiertechnikum of TU Mining Academy Freiberg / Germany	Retrofitting of the roller press 1 (22 kW) with new drive system consisting of thyristor converter, local control box and control cabinet for change over to roller press 2 (17 kW)	DC	NS	22 17		DE



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## Service

With the delivery of your drive, our customer is available as contact for you. The team supports you as operator of high quality machines and systems with a wide range of services.

- testing house service and contact manufacturing
- mechanical analyses for condition and error diagnostics
- installations and commissioning
- technical services
- on-call service
- maintenance
- inspection
- repair
- training
- spare parts supply

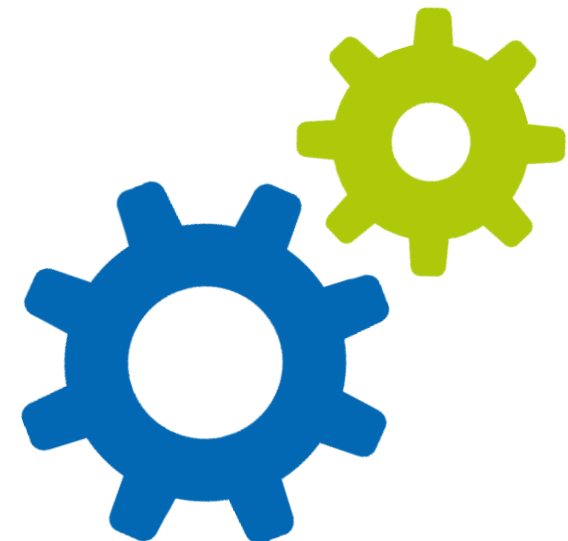
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