



ELECTRIC DRIVES
FOR EVERY DEMAND

Easy job with heavy loads

VEM electric motors for cranes and hoists



Our VEM product portfolio for the most diverse applications

Special, standard and transnorm motors as taylor-made and auxiliary drives in accordance with the particular climatic conditions and mechanical stresses encountered in port installations, iron and steel works, and other industrial facilities.

Technical data:

- Three-phase asynchronous motors with squirrel-cage rotor, suitable for mains and converter-fed operation
 - Sizes: 63 to 450 acc. to IEC
 - Number of poles: 2- to 8-pole (higher pole numbers on request)
 - Output range: 0.12 to 1 000 kW
 - Frequency: 50/60 Hz
 - Voltage: up to 690 V
 - Efficiency classes: IE2 to IE4 acc. to IEC/EN 60034-30-1, and IE5
 - Type of protection: up to IP 66 acc. to IEC/EN 60034-5
 - Self-ventilated, forced ventilation and non-ventilated
 - Type of construction: IM B3, IM B35, IM B5, IM V1 and derived types acc. to IEC/EN 60034-7
 - Quality, environmental and energy management acc. to DIN EN ISO 9001, DIN EN ISO 14001 and DIN EN ISO 50001
- The proven range of VEM products also includes slip-ring motors in crane and steelworks versions for short-time and intermittent duty S2, S3 and S4.



Three-phase asynchronous motor with electromagnetic spring-set brake and incremental encoder, type of protection IP 55



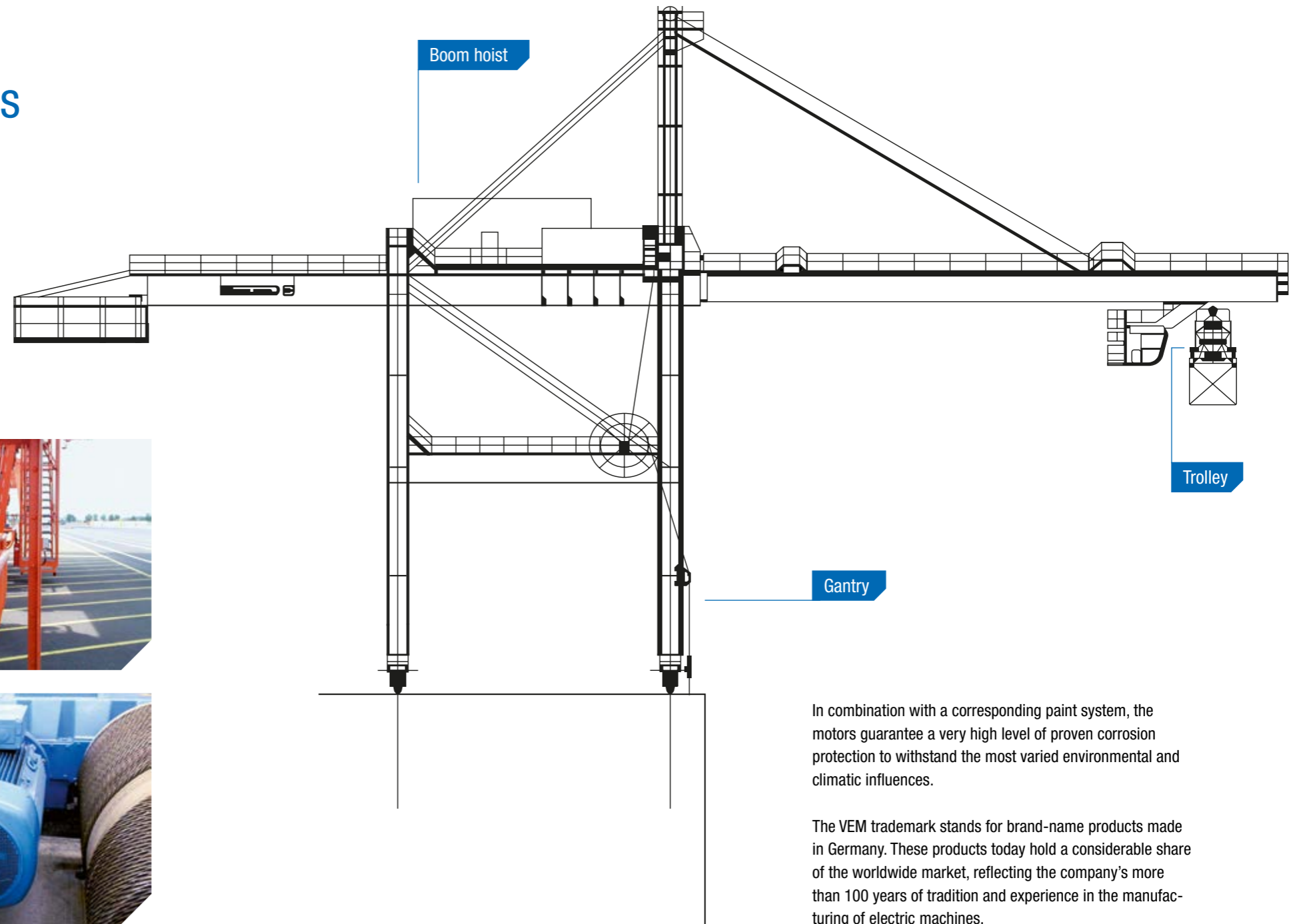
Three-phase asynchronous motor in non-ventilated version with electromagnetic spring-set brake and incremental encoder, type of protection IP 66



Three-phase asynchronous motor with slip-ring rotor for intermittent duty



Customer-tailored VEM applications



Depending on the application, VEM motors are used to drive main hoists, boom hoists, trolleys and gantrys. The design principle of the series permits the add-on mounting of components such as encoders, tachos, brakes and forced ventilation units to solve the customer's individual control tasks.

The robust and low-vibration motor design with grey cast iron housing is characterized by its high mechanical strength.

In combination with a corresponding paint system, the motors guarantee a very high level of proven corrosion protection to withstand the most varied environmental and climatic influences.

The VEM trademark stands for brand-name products made in Germany. These products today hold a considerable share of the worldwide market, reflecting the company's more than 100 years of tradition and experience in the manufacturing of electric machines.



References

Country	Application		Size	Output (kW)	Electromagnetic spring-set brake	No. of drives
Spain	Straddle Carrier		280	160	x	38
			225	60	x	146
Ireland	RTG	Hoist	355	230	x	3
		Long Travel	350	55	✓	6
Canada	QC	Gantry	180	15	✓	48
Mexico	QC	Gantry	250	55	✓	64
Panama	QC	Gantry	200	30	✓	208
China	RTG	Gantry	225	30	✓	96
		Trolley	200	35	✓	44
		Gantry	225	45	✓	28
		Trolley	180	15	x	20
Russia	Gantry slewing crane	Lifting gear	315	132	x	54
		Slewing gear	280	45	✓	64
		Luffing gear	280	55	x	32

IP 23

VEM – three-phase asynchronous motors for main hoist applications:

Technical data:

- Three-phase asynchronous motors with squirrel-cage rotor, suitable for converter-fed operation
- Sizes: 355 to 450 acc. to IEC
- Frequency: 50/60 Hz
- Voltage: up to 690 V
- Type of protection: IP 23 acc. to IEC/EN 60034-5



Good reasons for VEM

- Made in Germany
- Own design engineers develop tailored solutions
- High proportion of flexible in-house manufacturing, e.g. press shop, core assembly and winding shop
- Fast response times
- Worldwide service availability
- Durable and robust under extreme conditions
- Environment-friendly and energy-efficient
- Low life-cycle costs



VEM GmbH

Pirnaer Landstraße 176
01257 Dresden
Germany

VEM Sales

Low voltage department
Tel. +49 3943 68-2462
Fax +49 3943 68-2440
E-mail: low-voltage@vem-group.com

High voltage department
Tel. +49 351 208-3237
Fax +49 351 208-1108
E-mail: high-voltage@vem-group.com

Drive systems department
Tel. +49 351 208-1154
Fax +49 351 208-1185
E-mail: drive-systems@vem-group.com

VEM Service

Tel. +49 351 208-3237
Fax +49 351 208-1108
E-mail: service@vem-group.com

www.vem-group.com