



ELECTRIC DRIVES

FOR EVERY DEMAND



Drive solutions for the steel industry
For the toughest demands

VEM – your competent partner for drive questions

Focus on special motors and machines to customer specifications

 more than **30 Mio.** electric motors world-wide in operation

 **1,400** motivated employees worldwide

 since **1886** electrical engineering tradition

 about **200 Mio. Euro** annual turnover

 **Motors 0.06 kW - 60 MW**
Generators up to 90 MVA
range of electrical drive systems, special motors and special machines

 over **90** countries on the export list



- flexibility due to a high level of vertical integration
- internal design and development for tailor-made solutions
- fast and reliable deliveries of premium quality motors
- durable and robust under extreme conditions
- environmentally friendly and highly energy efficient
- low “life cycle costs”

VEM - qualified and certified worldwide

Quality, environmental energy management	Chemicals, oil & gas	Shipbuilding
<ul style="list-style-type: none"> • EN ISO 9001 • EN ISO 14001 • EN ISO 50001 • EN ISO/IEC 80079-34  		

Product-specific approvals and certificates for selected countries



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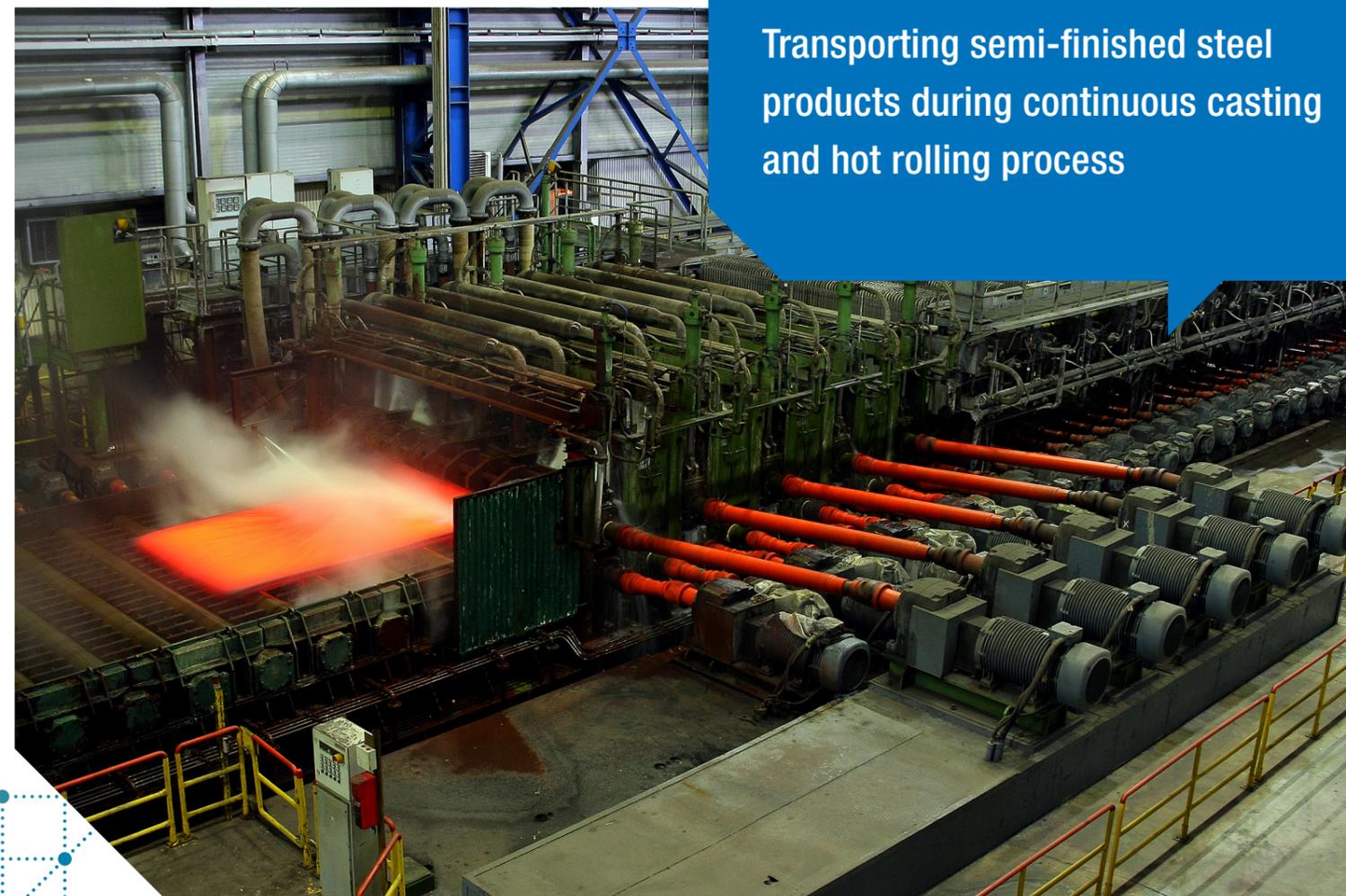
Drives in steel and rolling mills are exposed to extremely hard demands. Glowing steel, alternating operational modes and overloads spell out a high level of electrical and mechanical strain that calls for very sturdy designs.

VEM is an innovative, dependable and internationally recognised manufacturer of technically sophisticated system and drive solutions, as well as special drives and individual components. As a traditional supplier to heavy industry, VEM has developed over decades into a specialist for the steel and rolling mill industry, with its extremely challenging demands and operating conditions.

We are your expert business partner when building new rolling mills and modernizing and reequipping existing plants.

Our range of products not only includes complete controlled drive systems but also twin drives, drives for rolling frames, shears and reels, roller tables and auxiliary drives that meet the highest standards.

The hallmark of these drives is their robustness to mechanical strain while being reliable and resilient.



Transporting semi-finished steel products during continuous casting and hot rolling process

Low voltage three-phase light-duty roller table motors

- frame size 56 up to 500
- output range 0,12 kW up to 1,800 kW
- version for conveying roller tables
- duty type S1, continuous duty
- duty type S9
- ventilated, cooling method IC 411, IC 416
- available with the speeds 3,000, 1,500, 1,000, 750, 600, 500 r.p.m., lower speeds on request
- degree of protection IP 55, higher degrees of protection up to IP 66 on request
- version acc. to DIN EN 60034 (IEC 72)
- robust, low-vibration cast-iron version
- insulation class F with thermal reserve
- insulation class H as an option, energy-saving
- ecologically friendly
- numerous options for modification



IE4
Super
Premium

IE3
Premium
Efficiency

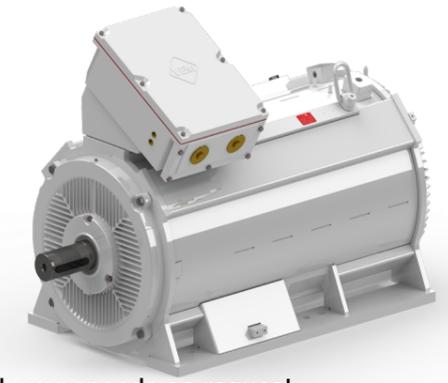
Low voltage three-phase heavy-duty roller table motors

- frame size 112 up to 400
- output range 0,5 kW up to 450 kW
- roller table version for inverter feeding
- duty type S9
- non-ventilated, cooling method IC 410
- available with the speeds 1,500, 1,000, 750, 600, 500 r.p.m., lower speeds on request
- degree of protection IP 55, higher degrees of protection up to IP 66 on request
- version acc. to DIN EN 60034 (IEC 72)
- robust, low-vibration cast-iron version
- insulation class F with thermal reserve
- insulation class H as an option
- terminal box on top or back
- energy-saving and ecologically friendly
- numerous options for modification
- with mounted gear boxes



Low voltage three-phase water-cooled motors

- frame size 225 up to 500
- output range 18,5 kW up to 1,600 kW
- version for inverter feeding
- duty type S1, continuous duty
- duty type S9
- water-cooled, cooling method IC 71W (IC 31W)
- available with the speeds 3,000, 1,500, 1,000, 750, r.p.m., lower speeds on request
- version acc. to DIN EN 60034 (IEC 72), robust,
- the motor housing is designed as a grey cast iron housing with integrated cooling tubes up to size 280 and as a double-walled welded steel construction from size 315
- degree of protection IP 55, higher degrees of protection up to IP 66 on request
- insulation class H as an option, energy-saving and ecologically friendly
- insulation class F with thermal reserve
- numerous options for modification

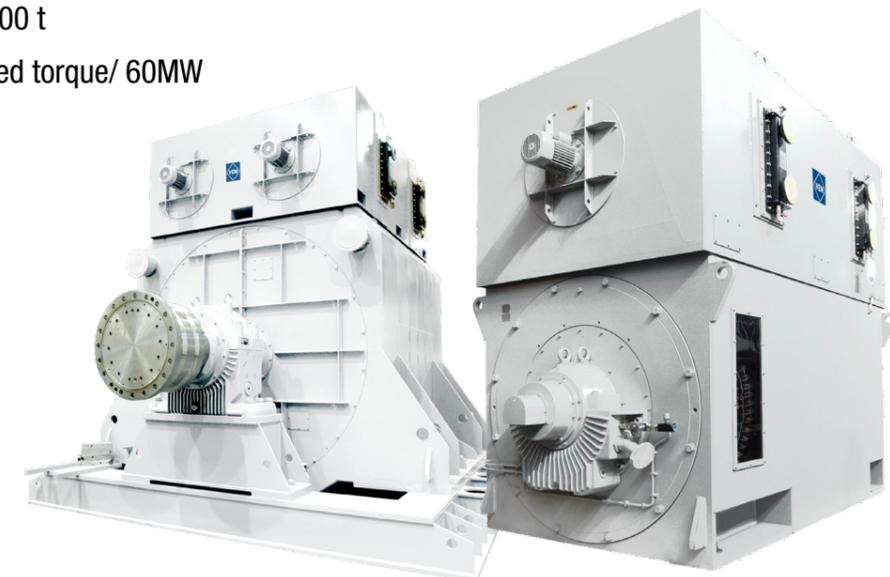


IE4
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Tailor made low voltage and high voltage, asynchronous and synchronous motors

- frame size 355 and larger, up to 200 t
- output range up to 2.400kNm, rated torque/ 60MW
- all cooling and mounting types

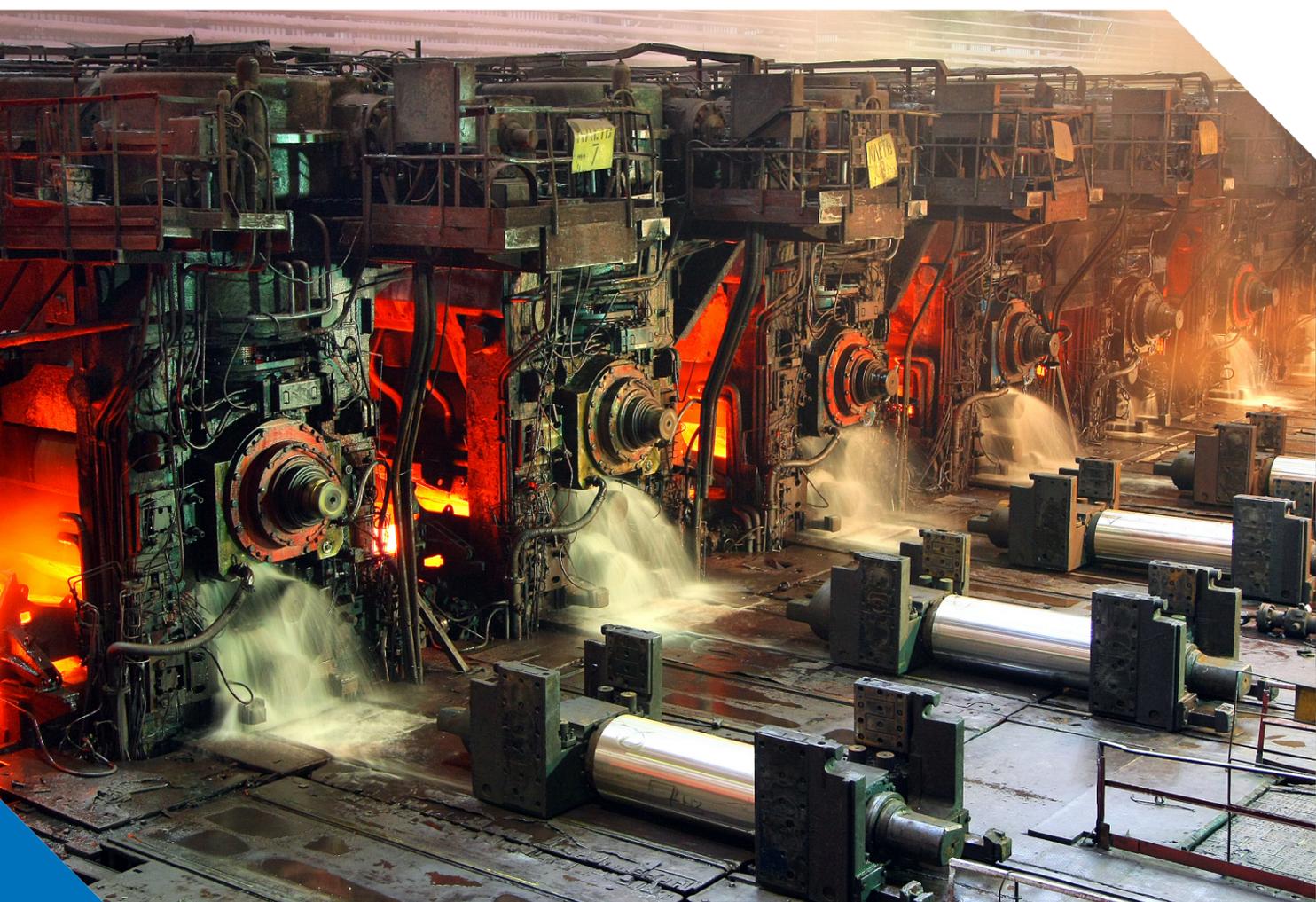


For all applications

- | | | |
|--------------------------------|------------------------------------|-------------------------------|
| • fan | • shear | • pump |
| • hydraulic station | • stand | • bridle roll |
| • conveyor | • spooler | • tandem motors |
| • wrapper roll | • cranes | • transport car |
| • transport roll | • reels | • screw down |
| • high pressure descender pump | • working and run out roller table | • entry and exit roller table |

Good reasons for VEM

- made in Germany
- own design engineers develop tailored solutions
- fast response times
- worldwide customer service
- durable, robust under extreme conditions
- environmentally friendly and highly energy efficient
- low “life cycle costs”





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