

Best in power per kilo



Best in power per space

MOTOX

Answers for industry.





Short-term power improvements

Complete range – it's your choice

Higher torque – benefit from the power

Practical modular system – remain flexible

Part of Totally Integrated Automation – increase your competitiveness

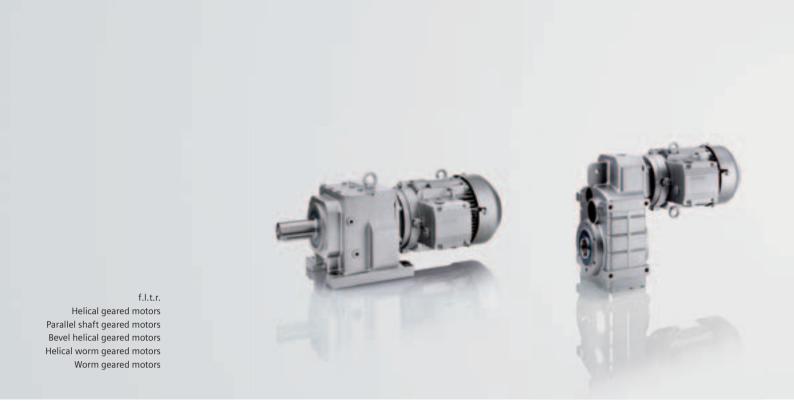
100% service – we are always there for you



Long-term power improvements

Maximum power in minimum space – this is what our new MOTOX series of geared motors offers. Amongst others, these motors support output torques of up to 20,000 Nm and higher nominal gear torques than our competitors' geared motors of the same size. MOTOX rounds off our drive portfolio in the power range from 0.09 kW to 200 kW for all gear types.

Convince yourself of this power.



The Suitable Power for Your Application

When it comes to drives, we are not willing to compromise. With MOTOX, we offer a complete portfolio of geared motors, which comprises all conventional gear types and covers all drive applications. It contains suitable solutions for all requirements and supports considerably higher nominal gear torques than competitors products. Benefit from the comprehensive advantages offered by MOTOX.

Complete portfolio - the choice is yours

When we say complete, we really mean it. With the new MOTOX series of geared motors, we round off our drive portfolio to offer you all geared types for the power range from 0.09 kW to 200 kW – comprising helical, parallel shaft, bevel helical, helical worm as well as worm geared motors. With our comprehensive drive solutions, you can realize any and all applications in all sectors around the globe. Our geared motors consistently comply with all applicable international regulations.

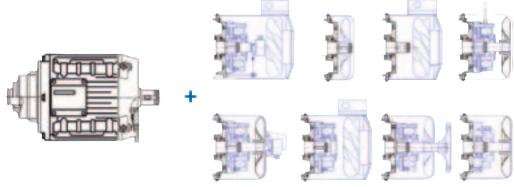
- The standard motors comply with the applicable IEC/EN standards.
- For NAFTA market (USA, Canada, Mexico), we offer motors with the following specifications: electrical NEMA, UL, CSA.
- Standard geared motors output shafts dimensions are available in metric and imperial sizes.
- For China, we offer CCC-certified motors, for Russia GOST-R-certified gears and motors.
- Our highly efficient geared motors (Eff1 motors), which both comply with the EU regulations in accordance with CEMEP, as well as with the regulations of the North American market in accordance with the US EPACT law, ensure energy efficiency.
- For operation in explosive areas, we offer geared motors for Zones 1 and 2 (gas) as well as 21 and 22 (dust) in accordance with the EU directive 94/9/EC.



Practical modular system – maintained flexibility

We cater to your flexibility needs. Whatever your requirement: Our complete portfolio can be individually combined thanks to our modular system for geared motors, on the basis of which you can assemble all conventional designs and installation variants of geared motors. The support of manifold gear combinations facilitates adjustability to various drive situations.

On the motor side, MOTOX features a modular and logistically optimized design. Functional units such as brake, external fan and sensor can be mounted to an invariable short motor. As a consequence, MOTOX keeps you consistently flexible as the motor can be expanded prior to delivery, and also later by further functional units.



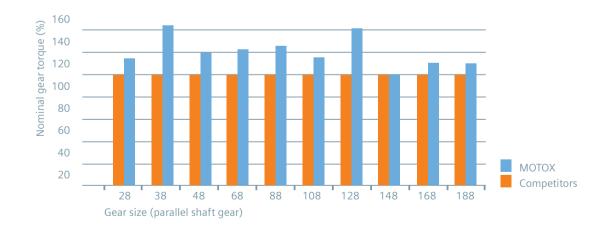
MODULOG principle

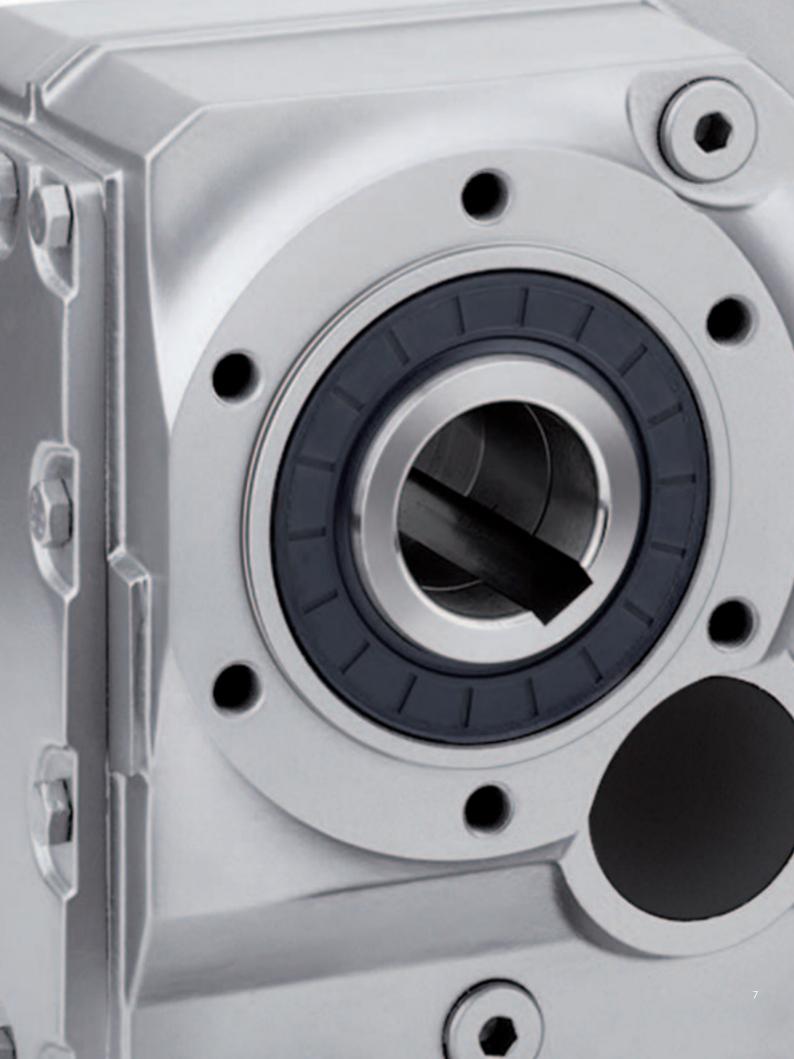
Maximum Power in Minimum Space

Higher torque - increased power

We reinforce our development efforts to render your applications even more profitable. Our new MOTOX series of geared motors stands out with its excellent technical performance, particularly when employed in conveyor, crane and lifting technology. Amongst others, these motors support output torques of up to 20,000 Nm and higher nominal gear torques than conventional geared motors of the same size. In addition, they facilitate an improved operating factor and thus an increased system availability and operational reliability.

Due to their special construction principle, the MOTOX geared motors attain a very high gear ratio. In many applications, this allows for more efficient solutions as one gear stage can be economized. Due to the greater ratio, you can also benefit from cost advantages by opting for the 4-pole standard motors instead of 6- or 8-pole motors. With MOTOX, you also decide in favour of low-noise geared motors as we were able to drastically reduce noise development through the low circumferential speed after the first gear stage.







All from a Single Source

Part of Totally Integrated Automation – for improved competitiveness

MOTOX geared motors form an integral component of Totally Integrated Automation (TIA), the comprehensive product and system portfolio by Siemens for company-spanning automation in all sectors. Thanks to its unique consistency, Totally Integrated Automation essentially contributes to the reduction of total cost of ownership, reduced time to market and increased investment protection – thus facilitating a sustainable improvement of your competitiveness. You can also exploit these benefits for your drive solutions – no matter what your specific requirements may be:

On the basis of Totally Integrated Automation, you can realize your plans with perfectly matched components from a single source.

Amongst others, MOTOX geared motors are compatible with our comprehensive MICROMASTER and SINAMICS converter series.

The result: You will benefit from integrated system solutions for improved productivity – solutions that are characterized by minimum interface expenditures, cost efficiency and sustainability.

Ethernet

SIMATIC S7

SIMATIC HIII

Profinet

Profinet

SIMATIC ET 200pro

SIMATIC ET 200

Safeguarding the Future with Systems and Services

100% service - through permanent support

We want you to be on the safe side with MOTOX at all times. This is why we offer support services right from the start. Our comfortable electronic catalog already eases the selection and configuration of your application. You can rapidly and safely select the suitable geared motor, call up 2D and 3D CAD data in various file formats and directly process them in your construction.

The tool is available on the Internet at www.siemens.com/gearedmotors.

If you are facing a rather specific drive requirement, which cannot be met by our standard portfolio, we will be pleased to develop a customized solution. In addition, we offer comprehensive on-site support – from commissioning and maintenance down to fault rectification and service contracts. Our global regional contact partners ensure the availability of your machines and systems by rendering individual on-site services and providing suitable spare parts.



Overview of Geared Motors

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	Helical geared motors	Parallel shaft geared motors	Bevel helical geared motors	Helical worm geared motors	Worm geared motors
Gear designation	E38148; D/Z18188	FZ/FD28188	B2838 / K38K188	C2888	SC3663
Typical application areas	Agitator technology Conveyor technology Cooling tower drives	Conveyor technology Mixers Extruders	Crane technology Airport technology Storage technology	Theater and stage technology, waste water technology	Conveyor technology
Nominal gear torque	Up to 20,000 Nm Up to 177,000 in-lbs	Up to 20,000 Nm Up to 177,000 in-lbs	Up to 20,000 Nm Up to 177,000 in-lbs	Up to 1,590 Nm Up to 14,000 in-lbs	Up to 166 Nm Up to 1,470 in-lbs
Maximum motor power (50Hz) Maximum motor power (60Hz)	200 kW 300 HP	200 kW 300 HP	200 kW 300 HP	11 kW 15 HP	1.5 kW 2 HP
Number of gear sizes	11	10	10	5	3
Number of ratios	1-/2-/3-stage	2-/3-stage	2-/3-stage	2-stage	1-stage
Number of ratios double gears	4-/5-/6-stage	4-/5-/6-stage	5-/6-stage	4-/5-stage	
Gear ratio single-stage	1.360 14.455				7 100
Gear ratio 2/3-stage	3.07 359.30	3.80 449.21	3.57 307.24	9.67 440.70	
Gear ratio double gear	207 71,317	299 71,388	181 60,115	324 33,491	
Sector-specific solutions*	Agitator variant Cooling tower variant	Mixer variant Extruder variant	Mixer variant Extruder variant Variant for electric monorail overhead conveyors	Variant for electric monorail overhead conveyors	Variant for washing bays variant for carwash

^{*} not available in all gear sizes

Inform yourself on our products for comprehensive and efficient drive solutions!

www.siemens.com/energy-saving

Siemens AG **Industry Sector Drive Technologies** Subject to change without prior notice 05/08 Order No.: E80001-A440-P220-V2-7600 DISPO 21505

2100/11912 MK.SD.FL.XXXX.52.8.01 WS 0508 PDF

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