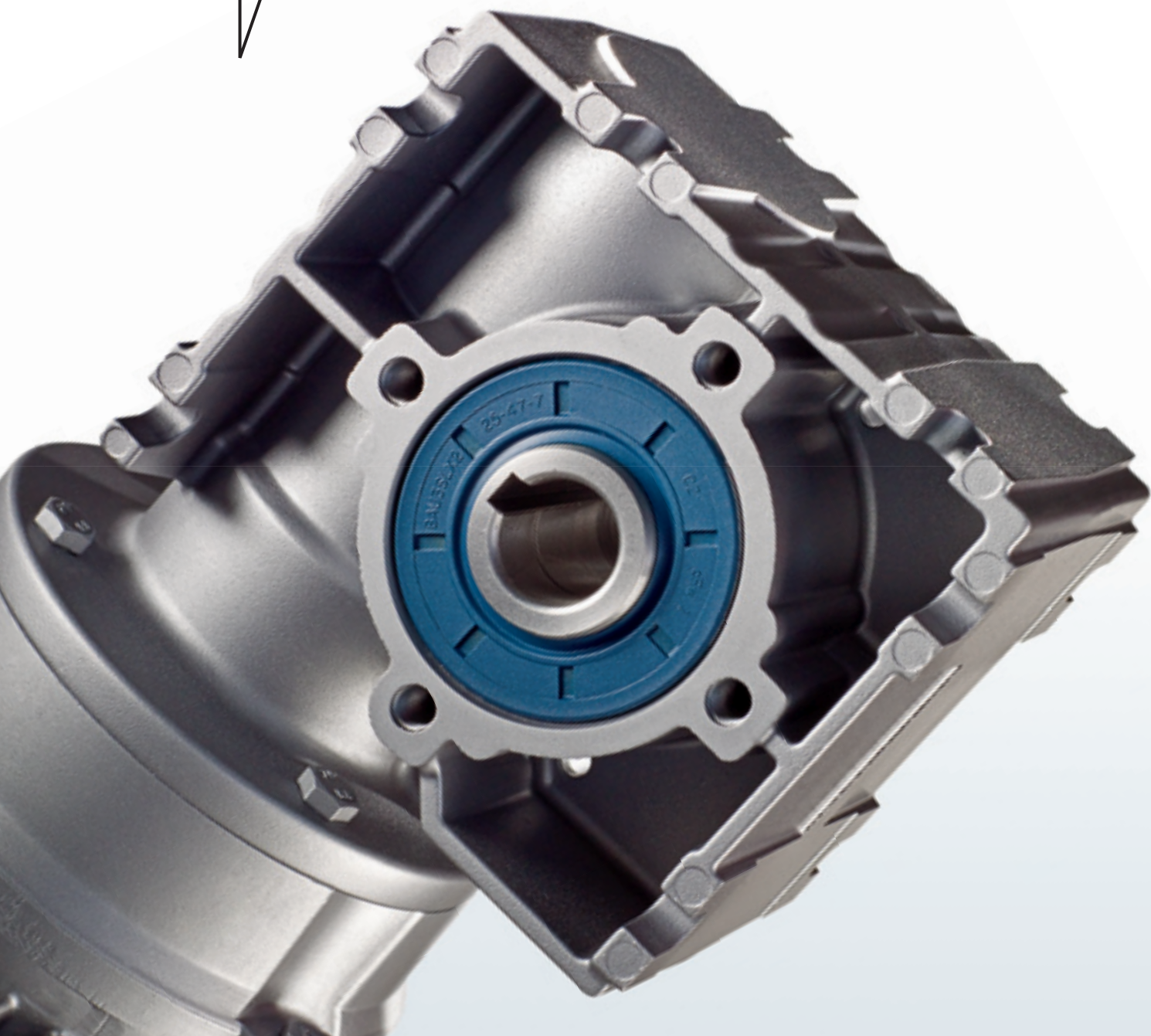


**What ensures a high degree of cost effectiveness with maximum efficiency in the smallest space?**



**MOTOX Worm Geared Motors: The compact S series offers a high efficiency and range of ratios together with a high overload capability.**

Answers for industry.

**SIEMENS**

A powerful solution for conveyor technology

# The new S series of MOTOX Worm Geared Motors

Whether baggage or roller conveyors, sorting or belt conveyors: Conveyor-related applications in the widest range of sectors demand powerful and reliable worm geared motors. With its new S series of MOTOX Worm Geared Motors, Siemens can provide you with the perfect solution – specifically designed to meet the requirements of conveyor applications. The single-stage worm gearbox is available in three sizes, a torque range up to 80 Nm and a power spectrum from 0.12 kW to 0.75 kW (4-pole). In addition, we can offer you the S series in torque-arm, foot and flange mounting versions – as well as with solid or hollow shaft.

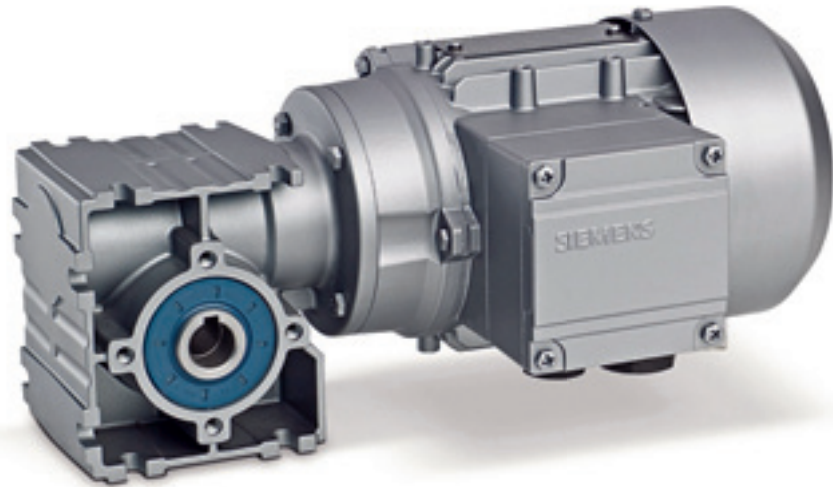
## Conveying at the highest level

High rated gear torques, efficiency and broad range of ratios: The S series is convincing across the board as a result of the high operating values. This is guaranteed by over 50 years of experience with worm gearing, the latest calculation methods and the high-quality materials used in production. In addition, our CAVEX concave profile teeth in the ZC shape improve the properties of worm gears, therefore ensuring a long service lifetime. A high radial load capability is achieved by using high-quality roller bearings and a long bearing distance.

## Maximum reliability in operation

With the S series, you profit from the highest operational reliability. The worm wheels are manufactured out of high quality bronze and the worm shafts are case-hardened and ground – in addition to high operating values, this also ensures quiet operation. The worm gearing has a high tooth root safety margin and allows relatively high load peaks. Thanks to the permanent lubrication using synthetic oil, high-quality bearings and seals, these gearboxes require absolutely no maintenance. The high efficiency and the careful analysis of the heat dissipation in the gearbox housing support a good thermal balance – and the low surface temperature plays its role in achieving the appropriate level of safety at work.





### High degree of flexibility to meet every demand

Collaboration with leading conveyor manufacturers during the design of our worm geared motors made it quite clear that these units not only had to be favorably priced, but also had to be extremely flexible. The compact and light S series absolutely complies with these demands. As a result of the versatile mounting types and output shafts, these gear units are simple to mount and integrate into the driven machine – without any additional mounting costs. They are supplied in a universal format for all mounting positions and have dimensions in line with market demands that permit fast commissioning. As a result of the completely standardized gear and motor components in the flexible modular system, you can obtain these worm geared motors with the shortest delivery times from our fast assembly line – and that, world-wide.

### Complete system-based solutions

It doesn't matter just how specific the conveyor technology demands are. The S series can be simply integrated into any system – thanks to Totally Integrated Automation (TIA) – the open system architecture from Siemens for company-wide automation. As a result of the unique degree of integration of TIA, all sub-steps of conveyor technology, across all automation levels, can be perfectly integrated in a total solution. This allows all processes to be continually optimized and plays a role in reducing the total cost of ownership. Further, as a result of the significantly lower costs associated with the interfaces, you profit from the highest degree of transparency, a less complex automation solution and absolutely reliable operation.



#### Your advantages at a glance:

- Worm gears with the highest efficiency
- Low weight
- Small space requirement
- High degree of performance
- Maintenance-free solution
- Wide range of mounting options and high flexibility
- Extensive synergistic possibilities together with the product and system range from Siemens

Siemens AG  
Industry Sector  
Drive Technologies

[www.siemens.com/gearedmotors](http://www.siemens.com/gearedmotors)

Subject to change without prior notice 04/10  
Order No.: E80001-A510-P220-X-7600  
Dispostelle 21505  
SCHÖ/26137 GD.SD.FL.XXXX.52.0.02 WS  
04103.0  
Printed in Germany  
© Siemens AG 2010

The information provided in this brochure contains merely general descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.