



Drive Solutions for the Crane Industry

ROBUST, STRONG,
MADE TO LAST



BAUER GEAR MOTOR™



DRIVE TECHNOLOGY REQUIREMENTS

The field of logistical solutions is faced with increasingly more demanding human and material requirements. In 2021, 77.98 million TEU standard containers were handled in the 15 largest European ports alone. This annually increasing figure poses, and will continue to pose, a challenge for logistical and transport systems.

Both the challenge and the means to solve it are clear:

The flow of commodities should arrive with the end customer, the processing company and the plant construction firm in a quick, safe and reliable manner.

This requires future-orientated solutions tailored to specific applications, particularly in the field of drive technology. Bauer Gear Motor can draw on decades of experience in this area. While motors specially developed for use with mains supply were previously used to compensate for slip and torque, the tasks of braking, positioning and acceleration have now been taken over by frequency inverters.

In order to achieve this, the drive technology needs to be optimally designed. An intermittent duty (e.g. S3-60%) adjusted to requirements and duty cycles is often used for crane and cross-travel trolleys.

Due to their high starting breakdown torque, Bauer motors have large reserves that aid acceleration and lead to perfectly balanced process dynamics.

Outputs from 0.12 kW are designed as standard according to the IE energy efficiency classification as per EU Regulation (EU) 2019/1781 in its latest version.





	Feature	Advantage	Benefit
Connections Output shaft	<ul style="list-style-type: none"> Variety of shaft designs Splined shafts (DIN 5480 compliant) Hollow shaft with shrink disc connection Hollow shaft with keyway 	<ul style="list-style-type: none"> Available for shaft-mounted and bevel gearboxes 	<ul style="list-style-type: none"> Easy drive assembly/disassembly Non-destructive disassembly, even after long periods of operation Impervious to reversible movements
Housing	<ul style="list-style-type: none"> Robust housing design 	<ul style="list-style-type: none"> Standard for all types of Bauer gears 	<ul style="list-style-type: none"> Vibration and impact resistant Enhanced reliability Long service life and availability
Motor	<ul style="list-style-type: none"> Tailored motor dimensioning 	<ul style="list-style-type: none"> Technical and economical solution 	<ul style="list-style-type: none"> Dimensioning to fit your application (e.g. S3-60% intermittent duty) Compact design with high starting and breakdown torque High motor protection class IP65 (standard)
Brakes	<ul style="list-style-type: none"> Variety of brake options 	<ul style="list-style-type: none"> Increased flexibility 	<ul style="list-style-type: none"> Built-on brakes in IP65 Finely graduated brake torques Microswitch for brakes Space heaters
Options	<ul style="list-style-type: none"> Expandable motor options 	<ul style="list-style-type: none"> Increased flexibility 	<ul style="list-style-type: none"> Incremental/absolute encoder systems Optional grey cast iron stators Space heaters
Drive	<ul style="list-style-type: none"> Efficient range of geared motors 	<ul style="list-style-type: none"> Energy saving 	<ul style="list-style-type: none"> Latest technologies Motors with increased energy efficiency as per IE classification





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