



## Drive units for cranes and hoists

Durable  
Reliable  
Powerful





## Reliability in many areas

ABM Greiffenberger develops and manufactures cutting edge drive unit solutions in highest quality. The individual components of our system solutions like motor and gearbox are from one single source and are exactly tuned to each other already in the development phase. That way industry specific and optimized solutions are developed for well-known manufacturers in the areas of lifting technology, warehouse logistics, pallet trucks, wind power plants, biomass heating systems electric vehicles or other markets.

Innovation, sustainability, partnership and high flexibility are the dictums of our actions. That way highly qualified personnel develop and produce more than 300,000 drive units annually. International subsidiaries as well as partners in all important industrial nations assure close contact to our customers world-wide.

## 1 million hoist drive units

ABM Greiffenberger develops and manufactures hoist drive units for more than 40 years. More than one million travel and hoist drive units "made in Germany" have been delivered for cranes all over the world. Consistently optimized for quality and benefit the drive technology of ABM Greiffenberger strengthens the competitiveness of crane manufacturers on all continents.

## Safety without compromises

Longevity, flawless function and safety even in rough conditions: Those are the core requirements for industrial cranes. At high throughput as well as frequent starts and reversals delicate positioning has to be assured – even at sophisticated operation. ABM Greiffenberger offers a broad range of hoist and travel drive units especially for this goal, all achieving highest safety requirements.



## Hoist drive units and motors

Hoist drive units from ABM Greiffenberger lift loads between 3.2 t and 40 t with absolute safety and reliability. The aluminum housings from the own aluminum die-cast shop of ABM Greiffenberger care for low weight and high corrosion resistance. U-shaped mounting of the drums allow for simple and space saving mounting.

Many advantages thanks to ABM Greiffenberger know-how: The inrush-current of the motors is low, a dynamic start-up curve allows for high crane capacity. ABM Greiffenberger motors care for precise and safe load handling with soft acceleration, extreme quietness and low-wear safety brakes, even at high throughput rates.

Naturally, ABM Greiffenberger hoist motors can also be sourced without gearbox.

## Travel drive units

Together with the travel drive units from ABM Greiffenberger – available as helical gearbox (G-series) or parallel shaft gearbox (FGA-series) with integrated safety brake – system solutions are developed ready for installation. With two product lines ABM Greiffenberger offers fitting solutions for all speed and precision requirements:

**PROFI-LINE** Travel drive units with two travel speeds

**AUTOMATION-LINE** Travel drive units for highest requirements in reference to variable travel speeds and positioning precision. Optimized matching of speed, vibration free travel and sensitive positioning allows for minimum clock cycles.

## Electronic drives

ABM Greiffenberger offers a complete drive unit technology for crane equipment with the Drive Controller. The Drive Controller allow for an optimized performance for all applications by individual parameterization capabilities. Additionally, the number of variants can be reduced by powering different wheel diameters with the same travel drive unit.

## High-quality drive unit solutions for cranes and hoist

Hoist and travel drive units from one source for safe **lifting and moving** of loads

40 years of experience and more than one million hoist drive units. That is the sound standing foundation of the specially designed product program of ABM Greiffenberger for the demanding hoist technology.

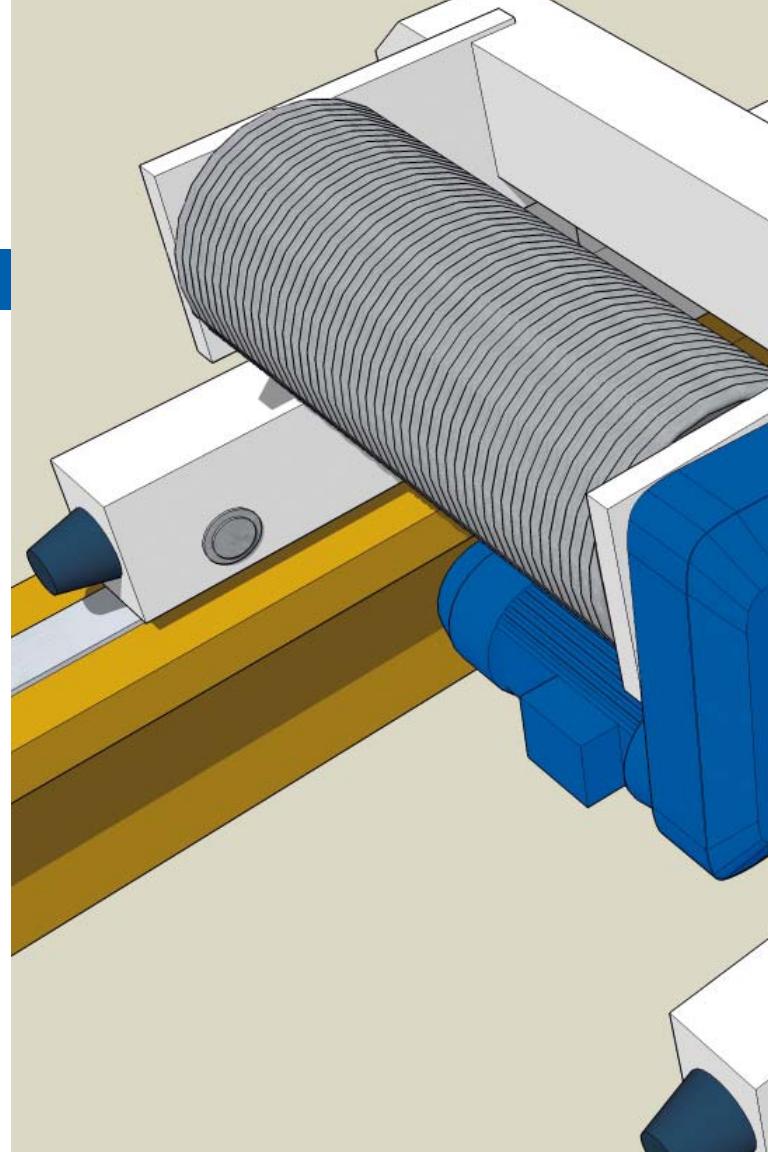
ABM Greiffenberger offers a complete system solution from one source of hoist drive units over hoist motors all the way to travel drive units and frequency inverters.

ABM Greiffenberger stands for powerful, durable and cutting edge solutions for your competitive advantage.

### Hoist drive units: Powerful and safe

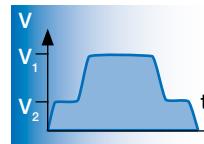
The compact hoist drive units of ABM Greiffenberger are equipped with a 12/2-pole asynchronous cylinder-rotor motor as standard. ABM Greiffenberger offers 4-pole hoist motors with encoder for the use in frequency controlled hoists.

The motor transforms the torque through the special hoist drive unit to the drum. That results in an extremely compact design. The top-quality helical gearing allows for low wear and quiet operation – even at high loads. Mounting of the drum on the output shaft allows for cost savings.

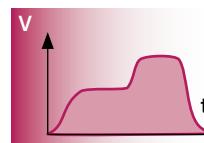


### Travel drive units: Dynamic and low vibration

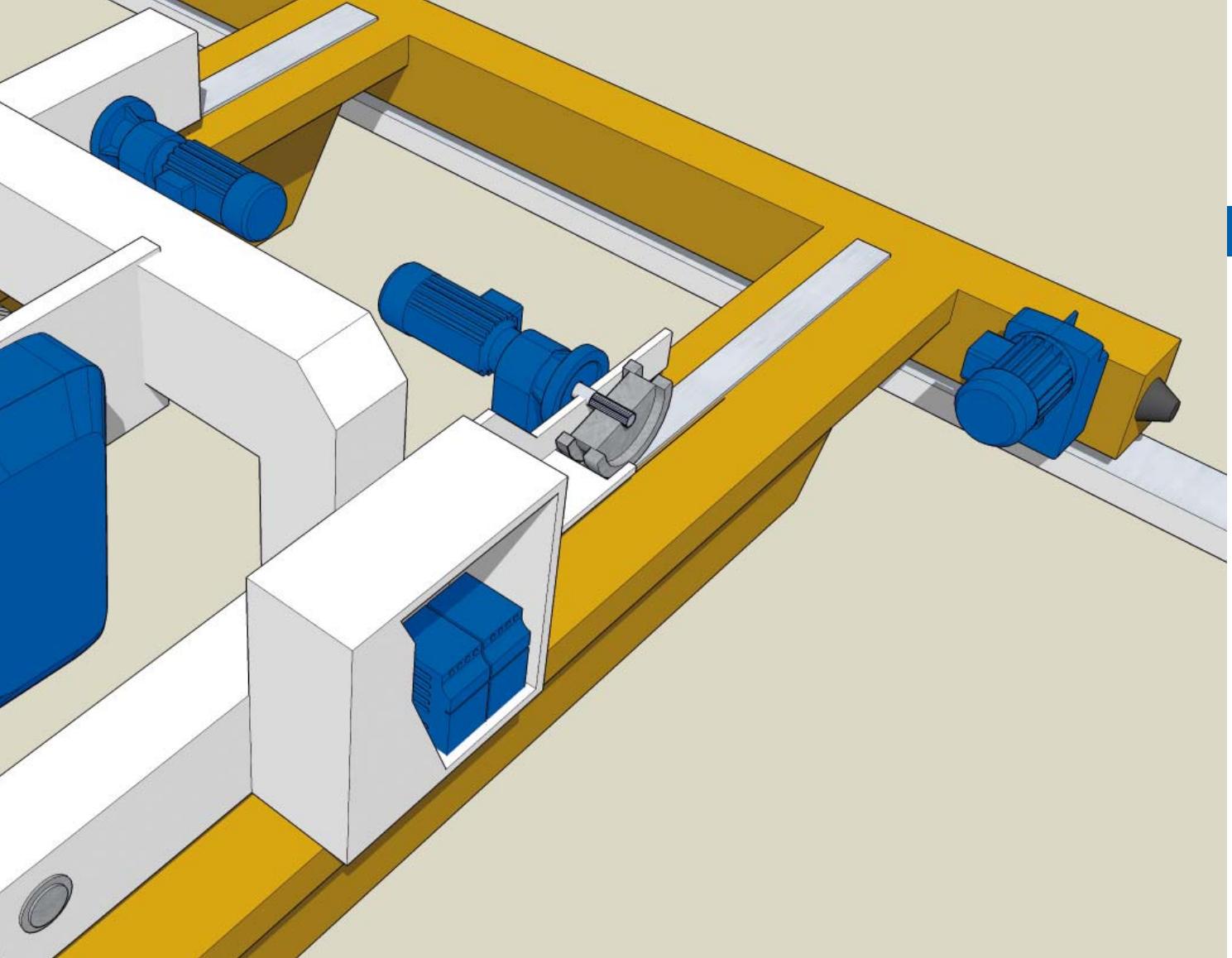
Two drive unit series achieve different requirements to speed and precision:



The **PROFI-LINE** offers two travel speeds. Pole-switching motors (8/2-pole) with specially designed windings and rotors allow for safe soft start. Typical operational areas are low-vibrant transport of sheet metal and coils or handling of cases, containers and components in assembly halls.



The **AUTOMATION-LINE** stands for variable speeds. Especially for inverter use designed 4-pole motors can be operated with an 87 Hz-characteristic. Important parameters like acceleration and deceleration ramps can be adjusted individually via the controller. The exceptionally soft start and braking characteristic of the drive units reduces load swings to a minimum.



**AUTOMATION-LINE** drive units are especially well-suited for use in the glass industry, handling of paper coils or insertion of moulds or other large tools.

## Design according to FEM

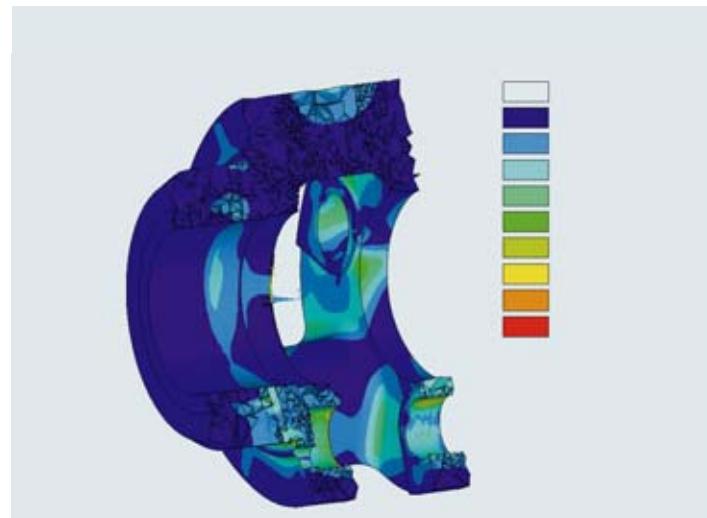
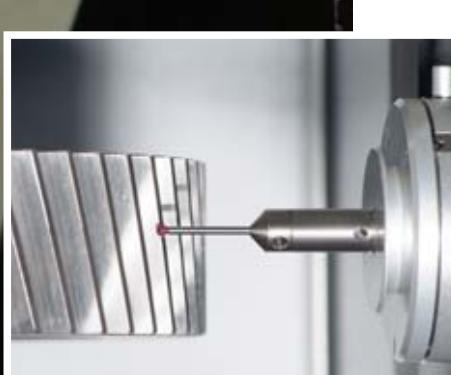
With the specification of load, lifting speed and FEM-group lifting technology specialists at ABM Greiffenberger configure the right drive unit. The classification in FEM-group 2m or higher emphasize for the quality of the drive units. For extremely competitive conditions you receive an extended service life (SWP).

Even outside of the regular product portfolio you are in good hands at ABM Greiffenberger. With profound know-how and powerful design software (like KISSsoft, CAD-Tools, etc.) experienced engineers develop optimized drive unit solutions. FEM-analysis for validation of the development results are as self-evident as customized tests in a well-equipped lab.

## Safe, durable, reliable

Even with difficult voltage conditions and in rough environments the powerful drive units of ABM Greiffenberger function reliable and safe. Their dynamic start-up curve assures high starting, cogging and breakdown torques despite soft start.

Thereby, a low-wear double surface safety brake with fast-excitation rectifier takes care of a safe slow-down of your loads. This brake engages automatically in case of a power loss. It responds fast in daily operation and is extremely durable and wear resistant. Should service be necessary after 1 Million cycles an automatic wear indicator will inform the user accordingly.



## Quality from the beginning

At ABM Greiffenberger quality starts with the first design step – the careful analysis of requirements of targeted markets. It continues on in a detailed and prospective design as well as diligent choice of used materials and suppliers.

Naturally, the manufacturing processes of ABM Greiffenberger are accompanied by quality checks. Whether 100% checks, durability tests or laser supported detail measurements – a close meshed net assures the reliability of our products. A certification according to DIN ISO 9001:2008 is as self-evident as a consequent environmental management system according to DIN ISO 14001:2004.

A smooth licensure and approval of your crane equipment is assured by the conformity of our drive units with important standards like CE, VDE, DIN, UL / CSA, CCC.




**Overview hoist drive units**

Last [t]	GH 3201	GH 5000A	GH 12500	GH 20000	GH 25000	GH 40000

Ø drum [mm]	Capacity [t]
140	3.2
170	6.8
266	12.5
295	20
325	25
405	40

\* at reeving 4/1

**Hoist drive units**

Type of motor	12/2-pole or inverter duty
Rated output	Up to 38 kW
Type of gearbox	3-stage aluminium parallel shaft gearbox
Lifting speeds	4 / 5 / 6.3 / 8 m/min at reeving 4/1
Protection class	IP 55 (optional IP65)
Cooling	Self- or forced cooling
Design	Acc. to FEM

**Overview travel drive units**

Wheel Ø	125	160	200	250	315	400

Wheel Ø [mm]	Load [t] (Helical gearbox)	Load [t] (Parallel shaft gearbox)
125	6	9.5
160	9.5	15
200	20	20
250	30	30
315	36	33
400	56	47

Manoeuvrable load [t] at dual motor drive train    Helical gearbox    Parallel shaft gearbox

**Travel drive units**

	<b>PROFI-LINE</b>	<b>AUTOMATION-LINE</b>
Standard travel speeds	5/20 m/min and 10/40 m/min	20 m/min and 40 m/min
Type of motor	8/2-pole	Inverter duty
Connection	Star/star	Delta/star
Duty cycle	S3 - 60% - 180 c/H; FEM 2m	
Protection class	IP54 (optional IP55, IP65)	
Brake	Safety brake with bridge-rectifier	
Type of gearbox	2- or 3-stage aluminium parallel shaft gearbox (up to 1,350 Nm) or helical gearbox (up to 2,060 Nm)	


**Electronic drive unit technology**

Voltage supply	3-phase, 380 – 480 V
Line frequency	50 - 60 Hz
Motor output	0.75 - 11.0 kW

ABM — in your proximity:

**P. R. China:**

ABM Drives (Suzhou) Co., Ltd  
Kuachun  
Industrial Area Unit 9G,  
5 Chun Hui Lu, Weiting Town  
VR China - 215122 Suzhou  
Phone +86 (0)512 8717 1081  
Fax +86 (0)512 8717 1084  
info@abm-drives.com

**France:**

ABM Systèmes  
d'Entraînement S.A.R.L.  
40, rue Jean Monnet  
Melpark Bat. 5  
F - 68200 Mulhouse  
Phone +33 (0)3 89 33 44 01  
Fax +33 (0)3 89 33 44 05  
infofr@abm-drives.com

**The Netherlands:**

ABM Nederland  
Aandrijftechniek B.V.  
Postbus 108, Industrieweg 6  
NL - 3440 AC Woerden  
Phone +31 (0)3 48 41 73 41  
Fax +31 (0)3 48 42 25 16  
info@abm-nl.nl

**Austria:**

ABM Antriebstechnik GmbH  
Ortsstraße 18/1-5-7  
A - 2331 Vösendorf  
Phone +43 (0)1 6 99 11 620  
Fax +43 (0)1 6 99 11 62 23  
abm-austria@abm-antriebe.de

**Switzerland:**

ABM Greiffenberger  
Antriebstechnik GmbH  
Marktredwitz (D)  
branch office  
Menziken (CH)  
Postfach 164  
CH - 5737 Menziken  
Phone +41 (0)62 775 09 60  
Fax +41 (0)62 775 09 66  
abm-antriebe@pop.agri.ch

**USA:**

ABM DRIVES INC.  
2000 Ford Circle · Suite E  
USA - Milford, OH 45150  
Phone +1 513 576 1300  
Fax +1 513 576 4999  
abmus@abm-drives.com

Other agencies:

**Belgium, Denmark, India,  
Italy, Sweden**  
(Contact details available on  
request)



This is how you can contact us:

**ABM Greiffenberger Antriebstechnik GmbH**

P.O. Box 140  
D - 95614 Marktredwitz  
Friedenfelser Strasse 24  
D - 95615 Marktredwitz  
Phone: +49 (0)9231 670 (Reception)  
Fax: +49 (0)9231 6 71 45 (Sales/ Technical Sales)  
E-Mail: Lifting@abm-drives.com  
Internet: www.abm-drives.com

