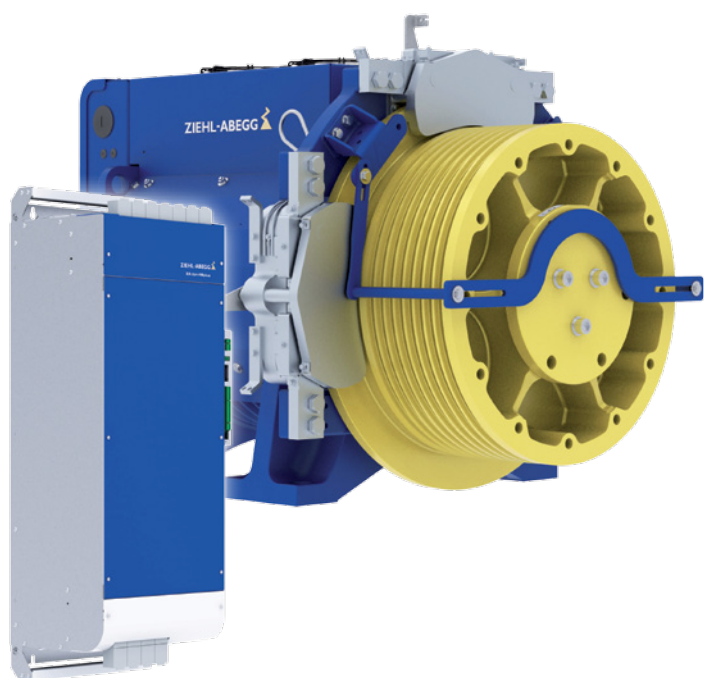


Movement by Perfection



The Royal League in ventilation, control and drive technology



ZAtop SM315 **ZA**dyn 4Bplus

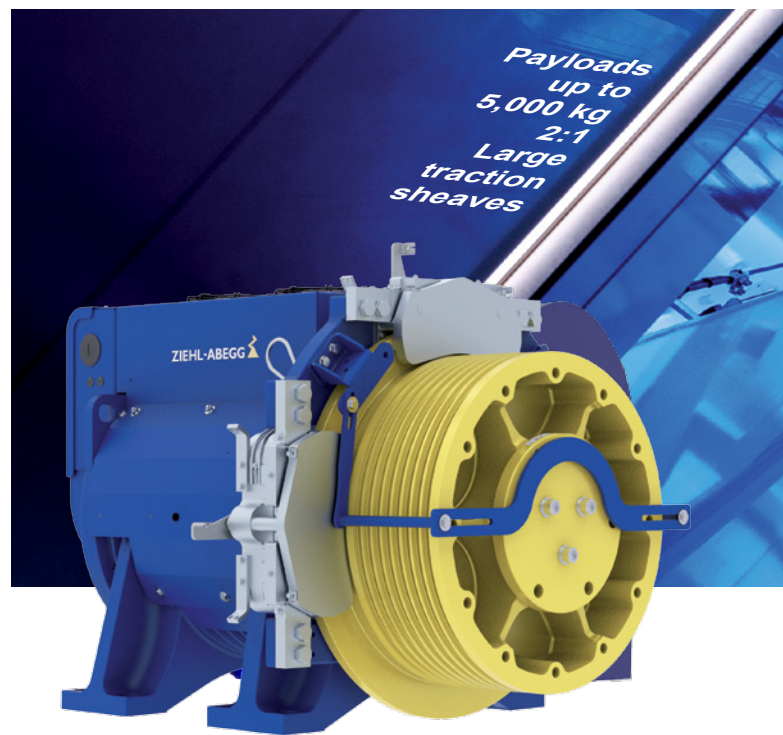
High efficient elevator machine package
for high payloads

ZA top SM315

New elevator machine giant for high payloads
and large traction sheaves

The gearless **ZA top SM315** can effortlessly handle huge payloads of up to 5,000 kg using large traction sheaves and state-of-the-art, energy-efficient, blue technology – particularly suited for high-performance applications, such as industrial freight elevators, or areas that require low operating noise, such as hospitals. The powerful elevator machine can be used in a wide range of applications:

Regardless of whether it is used in new buildings or modernisation, the elevator machine's construction width is reduced to less than 900 mm thanks to the removable brakes. This brand new mounting option considerably simplifies both transport into the machine room and installation. The traction sheave's complete housing also functions as an extended rope guard, thus ensuring comprehensive safety. Complemented by the matching control technology **ZA dyn 4Bplus**, the **ZA top SM315** is the only machine of its type worldwide. With its unique performance and safest drive power, the reliable giant is outstanding when it comes to energy-saving and sustainable use.



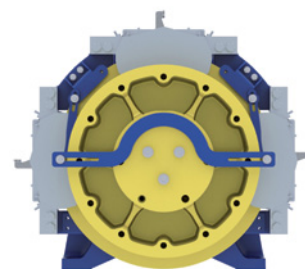
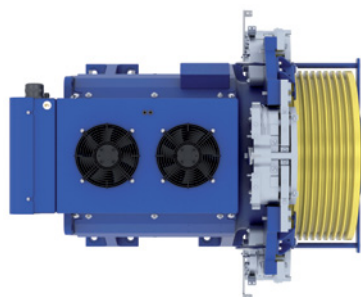
An elevator machine giant for high payloads, large traction



Quiet power for highest demands and large loads



Powerful, high efficient machine for payloads up to 5,000 kg



Technical highlights

- High efficient gearless elevator machine for payloads up to 5,000 kg (2:1 suspension)
- Traction sheave diameters: 520 mm & 640 mm
- Travelling speed up to 2.5 m/s
- Axle load up to 13,000 kg
- Complies with Lift Directive 2014/33/EU





sheaves and mounting option



Quiet, reliable and fast in an emergency

Efficient,
powerful and
perfectly controlled
Compact package
ZA^{top}SM315
with intelligent
control technology
ZA^{dyn}4Bplus

Unique performance profile

Powerful with a compact design, this distinguishes the **ZA^{top}SM315**. Equipped as standard with **inductive proximity switches on the brake** and **a completely enclosed traction sheave**, it

is also **also extremely safe to handle**. At speeds up to 156 rpm, it achieves a maximum **travelling speed of 2.5 m/s** with a 2:1 suspension. The **sustainability** of the powerful giant is

ensured by the **relubricable bearings**, which ensure constant operation and a long service life over many years. **As an option** the **ZA^{top}SM315** can be equipped with a preferred enco-

der system, a bowden cable solution for mechanical brake release and a device for rescue operation in the event of a power failure when using with a machine frame.

ZAtop SM315

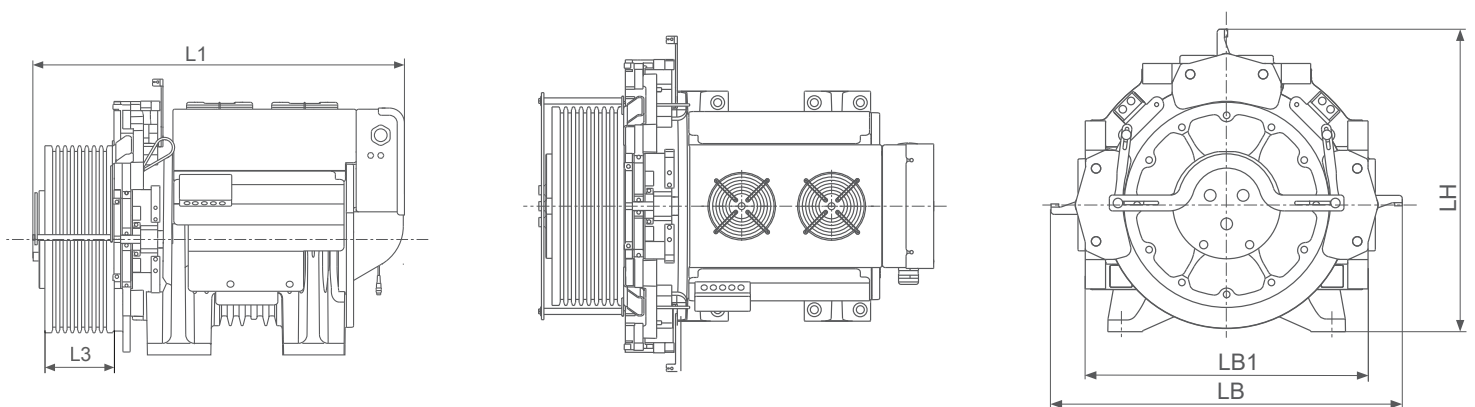
Impresses with noticeably superior quality

ZAtop SM315 – Intelligently controlled machine

ZAtop SM315 combined with the perfectly matched **ZA**dyn4Bplus come together to create a sustainable, future-proof elevator concept for your customers. **ZA**top SM315 impresses with noticeably superior quality, quiet operation, maximum energy efficiency and absolute reliability in elevator operation with high payloads.

ZAtop SM315 the compact giant!

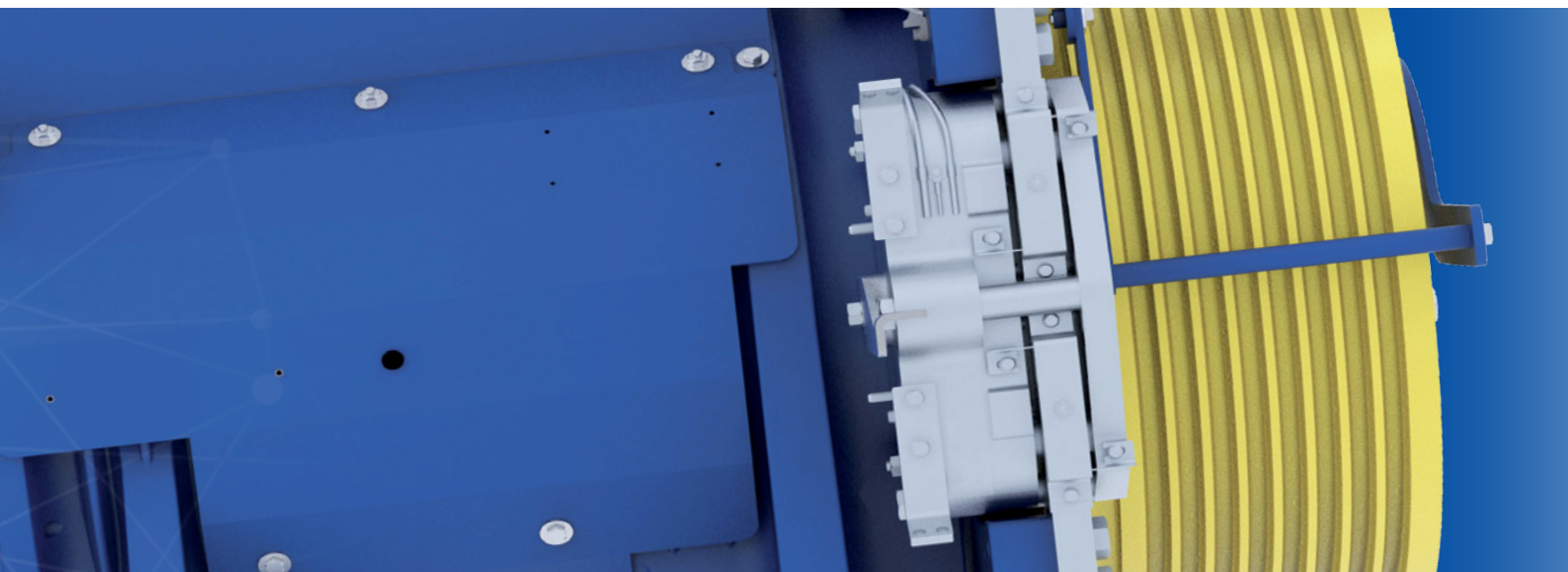
The **ZA**lift software is available for planning your elevator concept, helping you to select your ideal elevator machine and frequency inverter



Technical highlights

Motor type	Nominal torque Nm	Max. Axle load kg	Nominal speed rpm	Nominal power kW	L1 mm	LH mm	LB mm	LB1 mm	L3 mm	Weight kg
SM315.100A	5,000	13,000	40-156	24-82	1292	954	1108	892	230	1,920





developed for elevators of the future

All advantages at a glance

- State-of-the-art technology with high payloads of up to 5,000 kg (2:1)
- Speed up to 2.5 m/s
- Large traction sheave diameters 520 mm & 640 mm
- Permissible axle load up to 13,000 kg
- Torque 5,000 Nm
- Easier installation thanks to removable brakes (simplified mounting option)
- Relubricating bearings

Options

- Various encoder systems
- Bowden cable solution for mechanical brake release
- Hand wheel for releasing passengers in the event of a power failure and balanced load in combination with machine frame



ZABluegalaxy

The future of everything

With our intelligent cloud-based industrial web platform with data rooms, analytics, management portals and advanced services for connecting on-premise and other cloud data systems, you can get a real-time overview of all your network-capable devices, from frequency inverters and control devices to the complete elevator system, at the click of a button. Take part in predictive maintenance and gain a 360° overview of your systems.

ZAdyn4Bplus

New frequency inverter with world's only contactor-less operating concept for the heavy-duty elevator machine

Specially adapted to the upper power range, **ZAdyn4Bplus** is the perfect addition to the **ZAtopSM315** elevator machine. The new **ZAdyn4Bplus**, with its intelligent new extra functions, impresses not only with its unbeatable performance and contactor-less operating concept, which is unique in this performance class, but also with the short circuit of motor windings – another exclusive function in this performance class. In the event of a power supply failure and the limitation of the elevator's acceleration and speed due to the short circuit of the motor windings, convenient manual emergency evacuation can take place. Automatic evacuation using an uninterruptible 3~ power supply is of course also possible. With its integrated, climate-friendly energy-saving programme and diverse stand-by functions, **ZAdyn4Bplus** reduces the operating costs of the elevator.

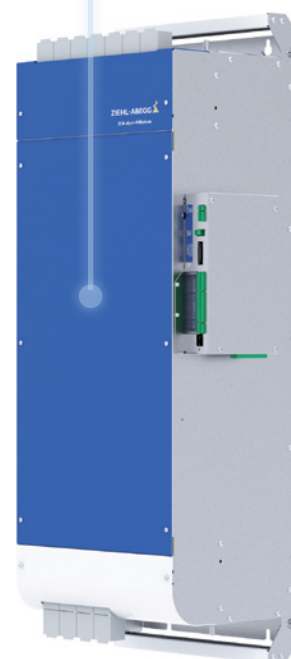


Impressive power that you can feel –
the new **ZAtopSM315**

ZAdyn4Bplus – Functions at a glance

- Operation without motor contactors using the Safe Torque Off function (STO) according to IEC 61800-5-2 (SIL 3)
- Self-monitoring of the motor brakes
- Electronic short circuit of the motor windings
- Emergency operation with 3~ uninterruptible power supply (UPS)
- Stand-by features increase the sustainability of your elevator
- Operation of synchronous motor (ZAdyn4BSplus) and asynchronous motor (ZAdyn4BAplus)

Certified
and tested
functions



Technical highlights

Type	Mains voltage VAC	Mains frequency Hz	Motor power typ. kW	Nominal current A	Current max. A	Duty cycle %	Dimensions H x W x D mm
ZAdyn4Bplus 110	3~ 180 - 440	50/60	55	110	198	60	1110 x 435 x 315
ZAdyn4Bplus 150			75	150	270		
ZAdyn4Bplus 180			90	180	324		
ZAdyn4Bplus 220			110	220	330		



Feel the future

Impressive power that you can feel –
A giant drive package, perfectly controlled,
quiet and sustainable in operation.

and **ZAdyn**4Bplus drive package

ZAmon Mobile

Intuitive and convenient operating concept

ZAmon Mobile is the ideal platform for operating the **ZAdyn** frequency inverter with mobile devices. Clearly structured user interfaces, self-explanatory icons, informative texts for each parameter and online help ensure fast, clear and convenient operation.



ZAmon STICK

Bluetooth® connection for operation with the **ZAmon Mobile** app. Optimal wireless connection due to different possibilities for installing the **ZAmon STICK** in the machine room or elevator shaft.

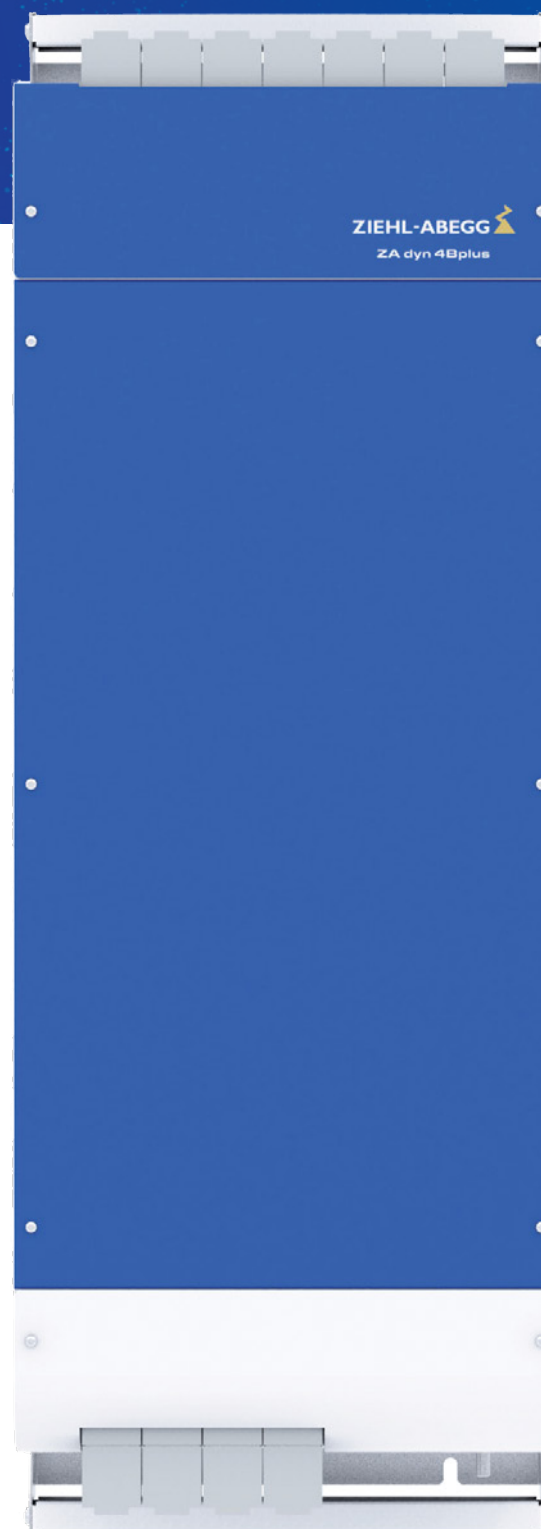


 **Bluetooth®**

Other cutting-edge operating options

ZApad

Operating terminal with plain text display for convenient operation and USB interface to the **ZAmon Desktop** software.



The Royal League

