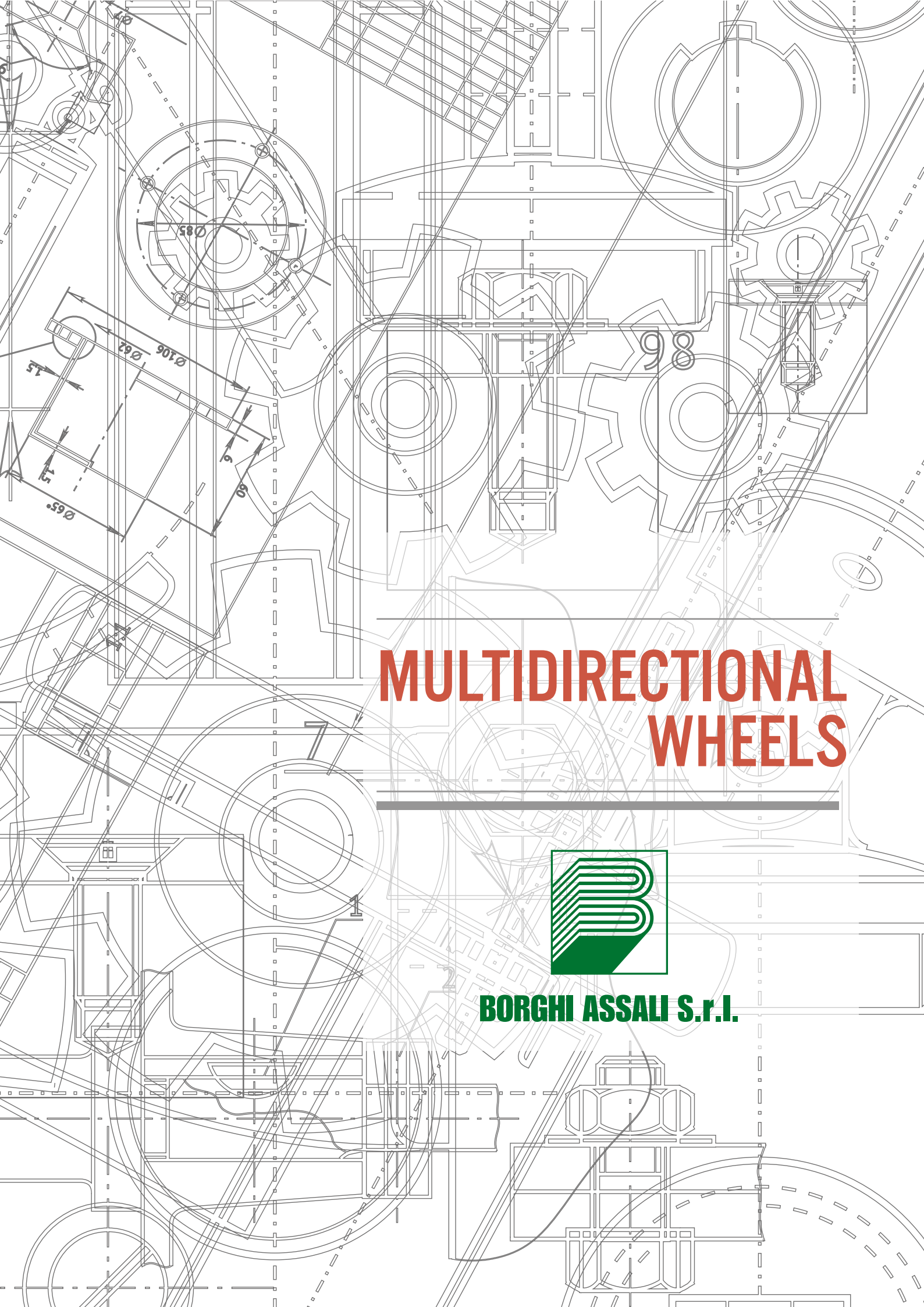


MULTIDIRECTIONAL WHEELS

BORGHI ASSALI S.r.l.

THE HISTORY

THE HISTORY

The company was born on 4rd January 1971 and was specialized in the design and construction of moulds and equipment for the metal sheet cold deformation.

In 1992 through an international research the company has begun the development of idle steer axles for forklift counterbalance, side loaders, Ground Support Equipment and airport tow tractors.

The innovation and the quality has conquered in a short time the markets all over the world. Beginning from this first experience and taking always advantage of the most modern design technologies the company could develop a wide range of products beginning from the idle steer axles with solutions covered by patents, the company is in fact present in many European and Extra-European countries with beyond 85% of the production.

Since 2009 we have begun the development of motorized wheels with horizontal and vertical motor and recently we have developed a little range of Motorised Transaxles.

TECHNICAL DEPARTMENT AND THE QUALITY

TECHNICAL DEPARTMENT AND THE QUALITY

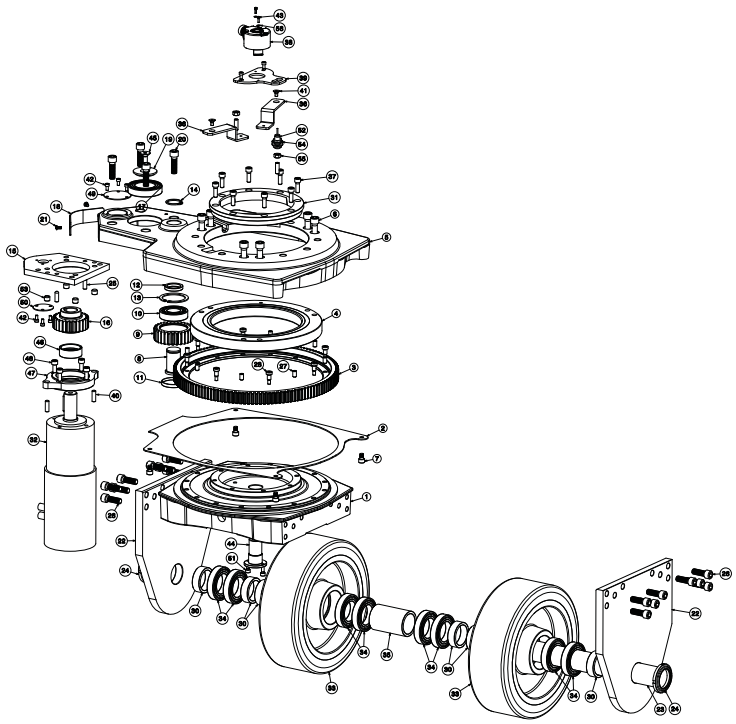
Our technical department is equipped with the most advanced systems for design and calculation with which it can face any demand from customers, preparing special products for the single applications.

The quality control, besides of the inbound and outbound components by means of automatic control systems, ensures the product quality that emphasizes the seriousness of the company and supports the customer guaranteeing completely the choice and the preference given to our production.

We are a certified company ISO 9001 and we are in line with the Italian legal requirements in the field of safety at work.

We are currently achieving the environmental certification ISO 14001 moreover we are working with American companies and we have adhered to the USA standard for antiterrorism called C-TPAT: an initiative of Customs in collaboration with a community of business to ensure the global supply chain.

MULTIDIRECTIONAL WHEELS



MULTIDIRECTIONAL WHEELS

The Company Borghi Assali designs and manufactures various types of multidirectional steering wheels. These steered units have twin wheels, without traction, which are steered by means of a gear reduction unit driven by a hydraulic motor or by an electric motor. Designed taking into account the latest technology and in compliance with applicable laws regarding the transmission for industrial vehicles, require little maintenance and are easy to care; are indispensable on vehicles that need to operate in confined spaces or in lanes.

BORGHI ASSALI s.r.l.

MULTIDIRECTIONAL WHEELS

EBm 248
EBm 300
EBm 406
EBm 417
EBm 457
EBm 525
EBm 676
COMPARISON TABLE

AGV

FORKLIFTS

STAKER
MAN ON BOARD

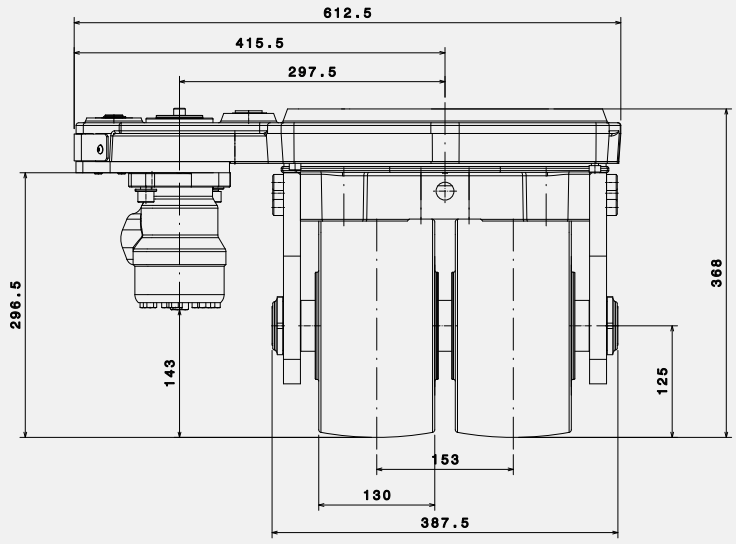
SIDE LOADERS

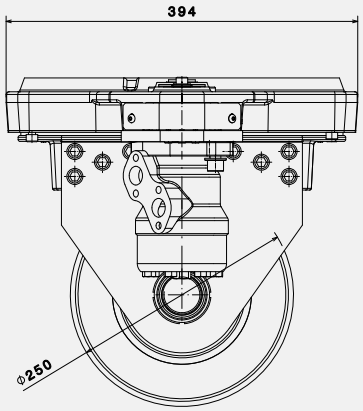
4 WAY LIFT TRUCK

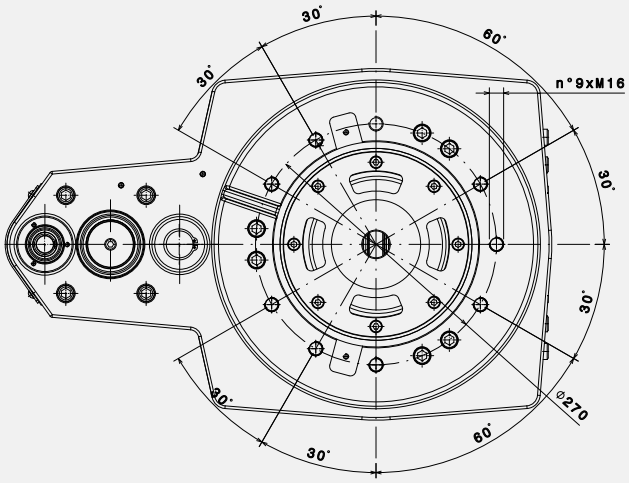
CRANE

MULTIDIRECTIONAL WHEELS

EBm 248







APPLICATION

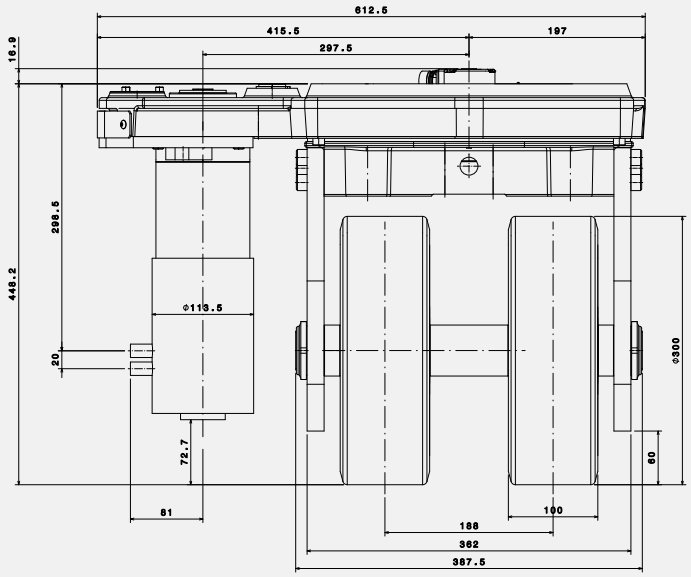
MAX LOAD ON THE WHEEL (Kg) 4800

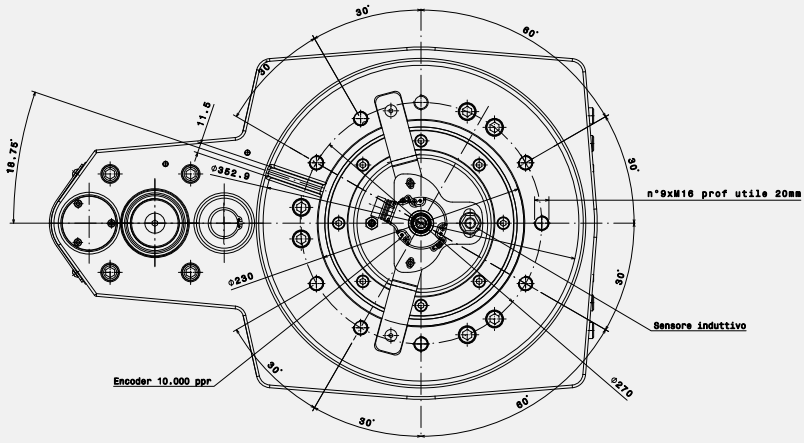
TECHNICAL SPECIFICATIONS

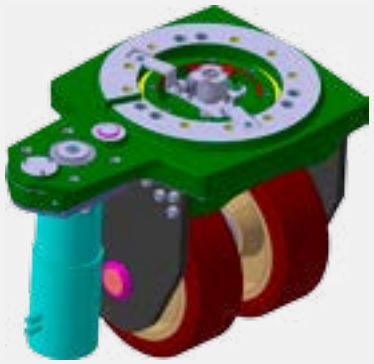
MAX LOAD ON THE WHEEL	4.800 kg at 6km/h
TIRE DIMENSION	Polyurethane / Vulkollan Ø250x130 mm
MAX TILTING ANGLE	/
STEERING MOTOR	Orbital hydraulic motor/ Electric AC/DC, 24V, 48V, 80V
STEERING POTENTIOMETER	Included
STEERING ABSOLUTE ENCODER	On request
SERVICE DRUM BRAKES	/

MULTIDIRECTIONAL WHEELS

EBm 300







APPLICATION

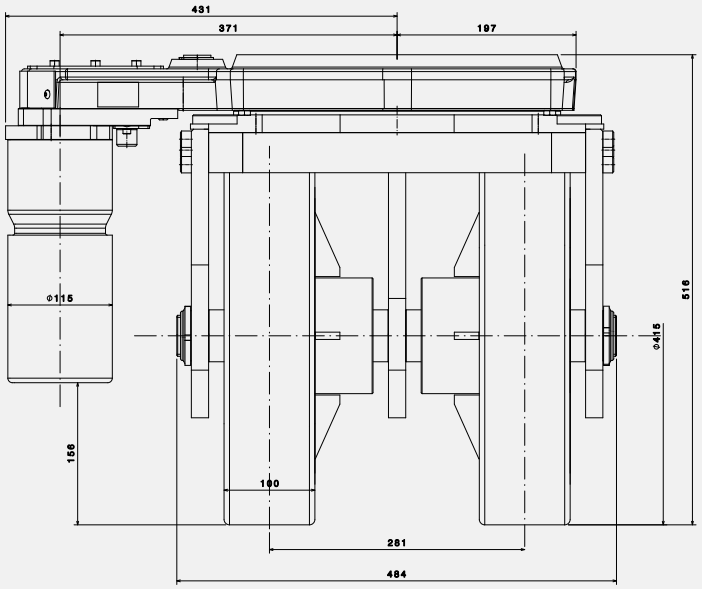
MAX LOAD ON THE WHEEL (Kg) 3000

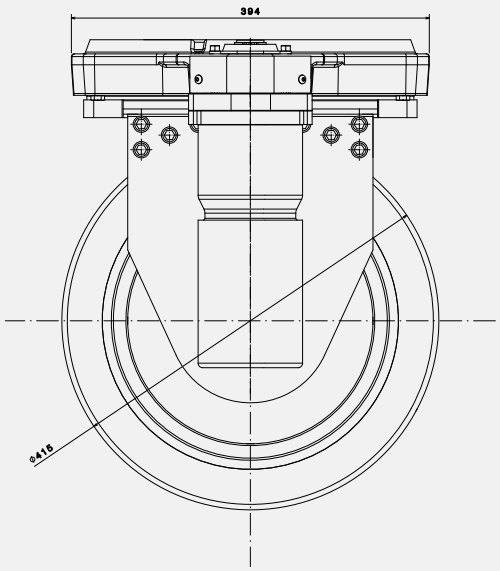
TECHNICAL SPECIFICATIONS

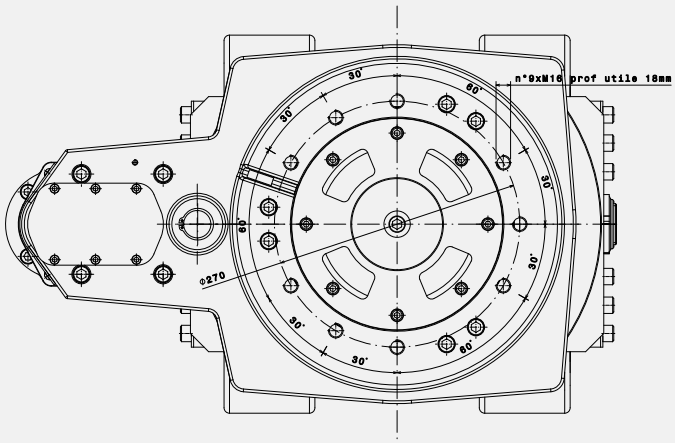
MAX LOAD ON THE WHEEL	3.000 kg at 6km/h
TIRE DIMENSION	Polyurethane / Vulkollan Ø300x100 mm
MAX TILTING ANGLE	/
STEERING MOTOR	Orbital hydraulic motor/ Electric AC/DC, 24V, 48V, 80V
STEERING POTENTIOMETER	Included
STEERING ABSOLUTE ENCODER	On request
SERVICE DRUM BRAKES	/

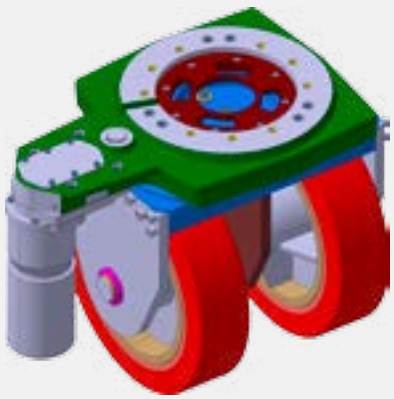
MULTIDIRECTIONAL WHEELS

EBm 406









APPLICATION

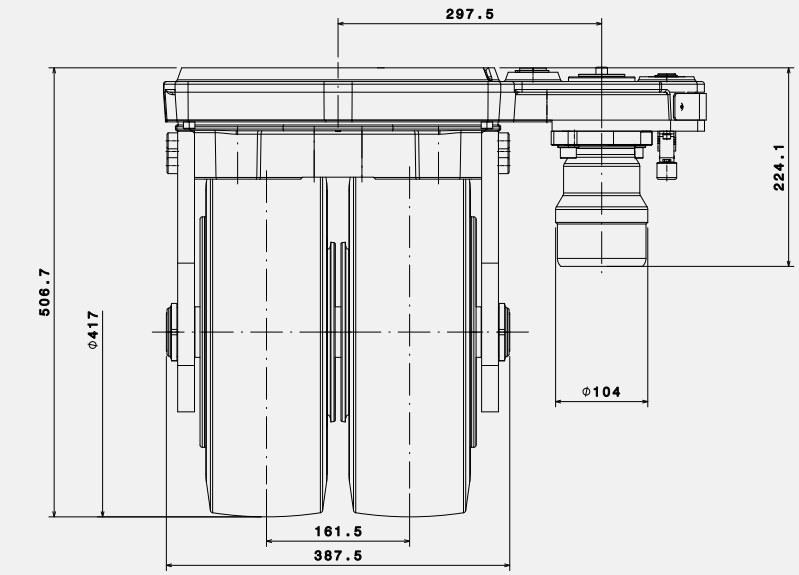
MAX LOAD ON THE WHEEL (Kg) 6000

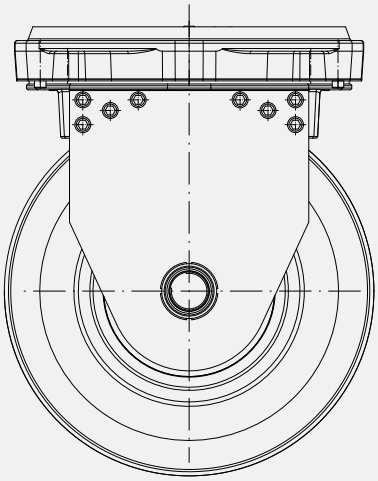
TECHNICAL SPECIFICATIONS

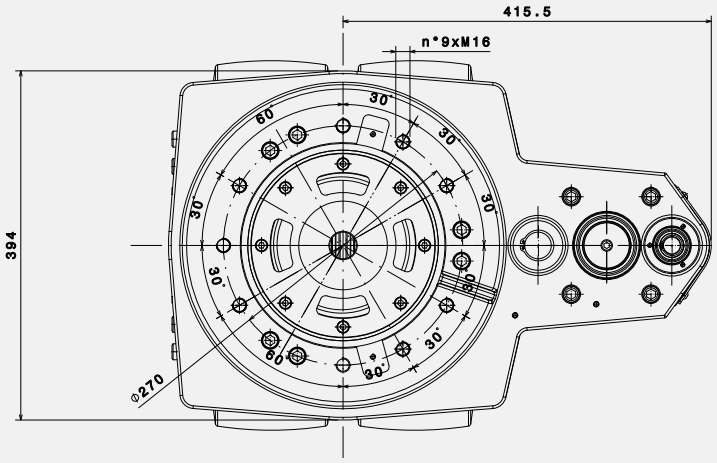
MAX LOAD ON THE WHEEL	6.000 kg at 6km/h
TIRE DIMENSION	Polyurethane / Vulkollan Ø406x100 mm
MAX TILTING ANGLE	/
STEERING MOTOR	Orbital hydraulic motor/ Electric AC/DC, 24V, 48V, 80V
STEERING POTENTIOMETER	Included
STEERING ABSOLUTE ENCODER	On request
SERVICE DRUM BRAKES	On request

MULTIDIRECTIONAL WHEELS

EBm 417







APPLICATION

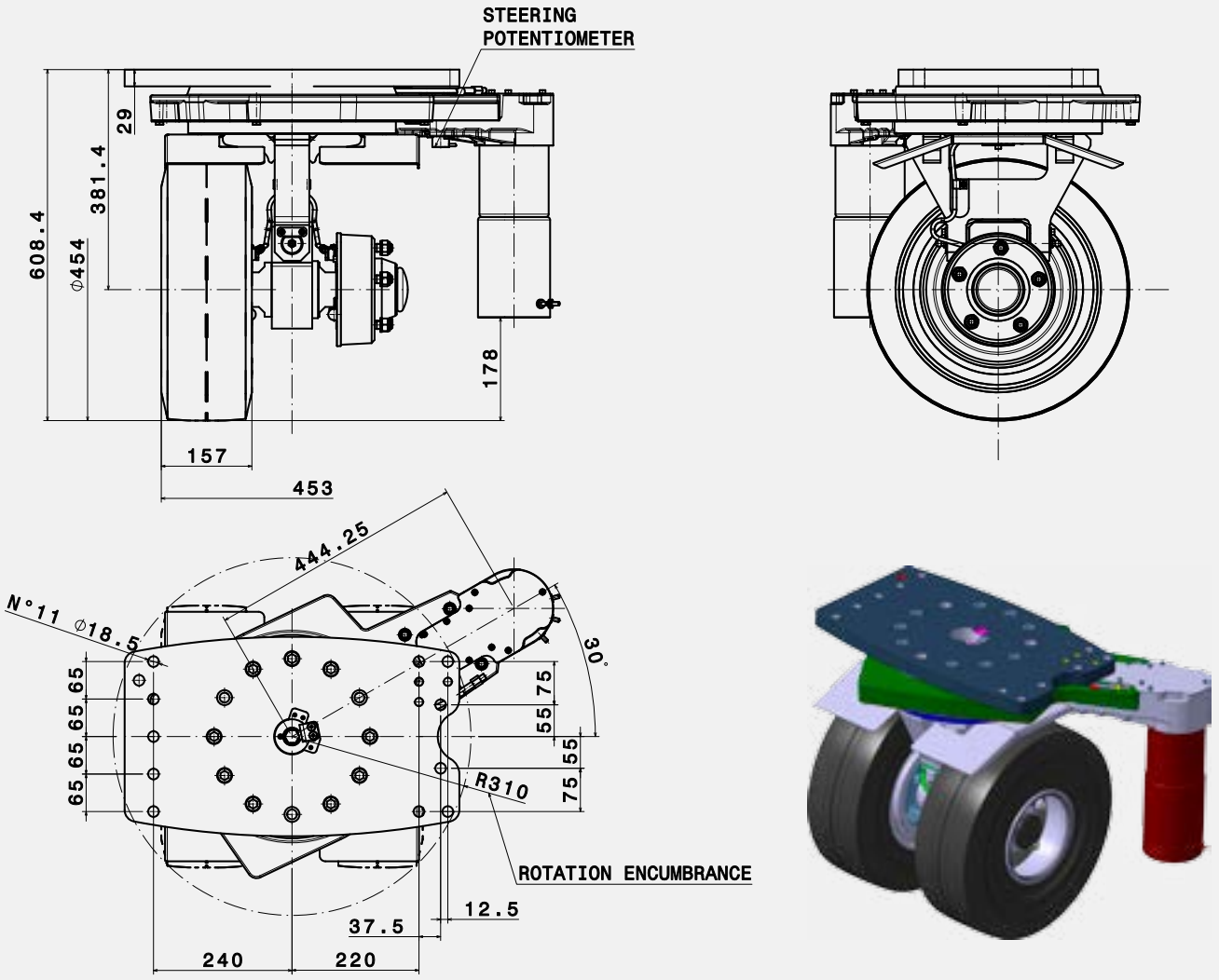
MAX LOAD ON THE WHEEL (Kg) 3000

TECHNICAL SPECIFICATIONS

MAX LOAD ON THE WHEEL	3.000 kg at 6km/h
TIRE DIMENSION	Superelastic Ø417x164 16x6-8 mm
MAX TILTING ANGLE	/
STEERING MOTOR	Orbital hydraulic motor/ Electric AC/DC, 24V, 48V, 80V
STEERING POTENTIOMETER	Included
STEERING ABSOLUTE ENCODER	On request
SERVICE DRUM BRAKES	On request

MULTIDIRECTIONAL WHEELS

EBm 457



APPLICATION

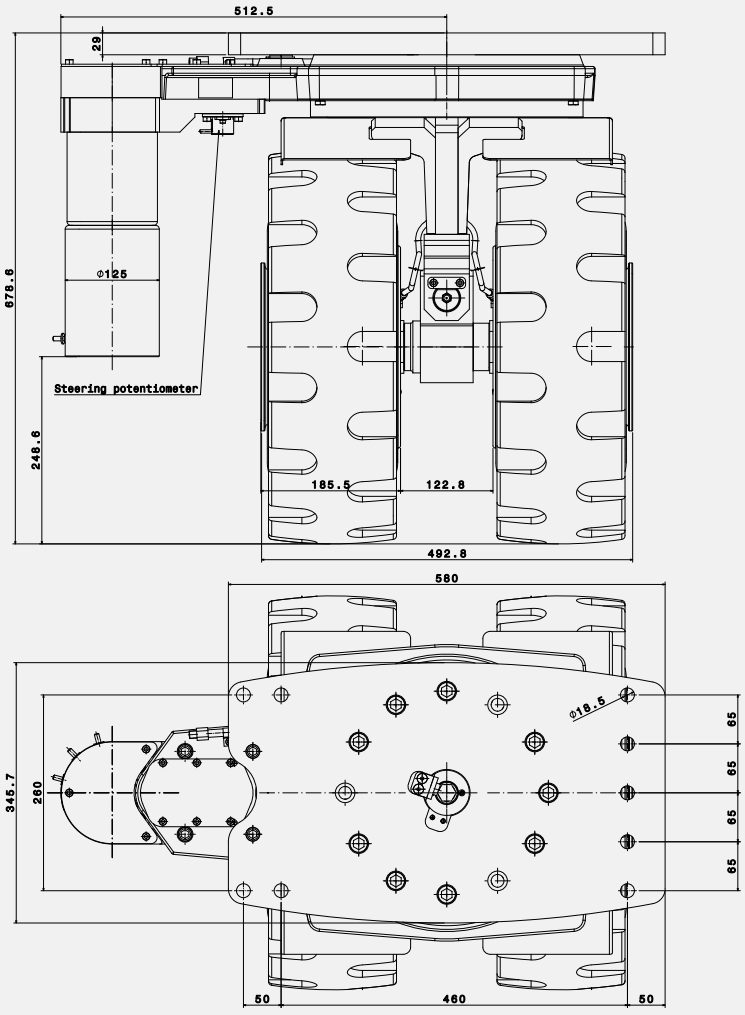
MAX LOAD ON THE WHEEL (Kg) 3000

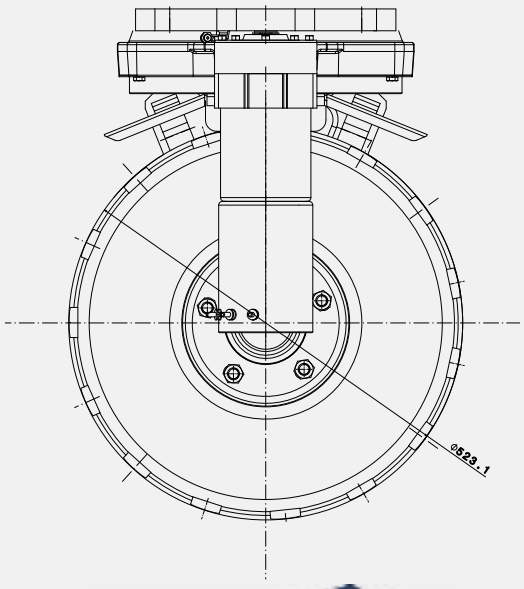
TECHNICAL SPECIFICATIONS

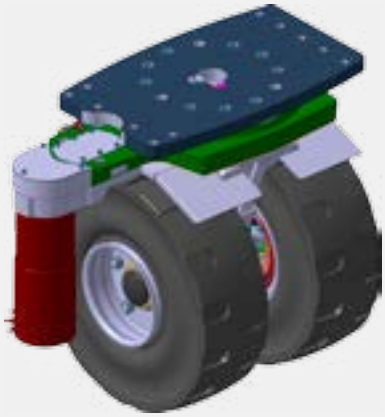
MAX LOAD ON THE WHEEL	3.000 kg at 8km/h
TIRE DIMENSION	Superelastic Ø457x187 18x7-8 mm
MAX TILTING ANGLE	/
STEERING MOTOR	Orbital hydraulic motor/ Electric AC/DC, 24V, 48V, 80V
STEERING POTENTIOMETER	Included
STEERING ABSOLUTE ENCODER	On request
SERVICE DRUM BRAKES	Ø160x35 mm

MULTIDIRECTIONAL WHEELS

EBm 525







APPLICATION

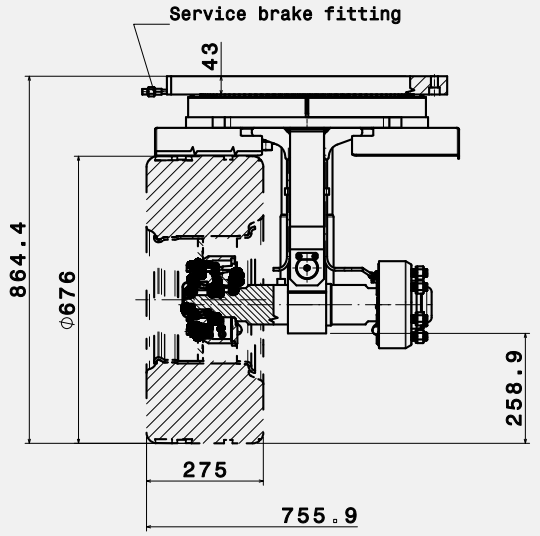
MAX LOAD ON THE WHEEL (Kg) 4000

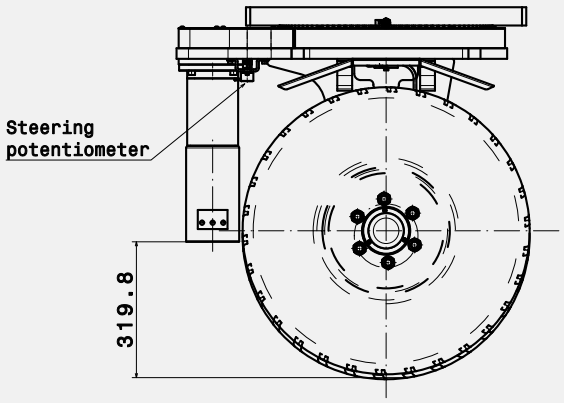
TECHNICAL SPECIFICATIONS

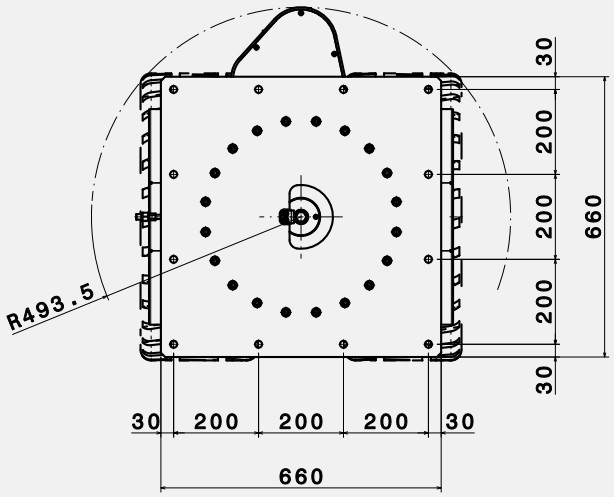
MAX LOAD ON THE WHEEL	4.000 kg at 6km/h
TIRE DIMENSION	Superelastic Ø524x216 21x8-9 mm
MAX TILTING ANGLE	±6°
STEERING MOTOR	Orbital hydraulic motor/ Electric AC/DC, 24V, 48V, 80V
STEERING POTENTIOMETER	Included
STEERING ABSOLUTE ENCODER	On request
SERVICE DRUM BRAKES	On request

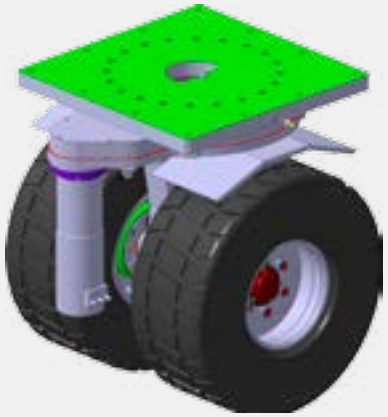
MULTIDIRECTIONAL WHEELS

EBm 676









APPLICATION

MAX LOAD ON THE WHEEL (Kg) 6000

TECHNICAL SPECIFICATIONS

MAX LOAD ON THE WHEEL	6.000 kg at 8km/h
TIRE DIMENSION	Superelastic Ø676x275 27x10-12 mm
MAX TILTING ANGLE	±6°
STEERING MOTOR	Orbital hydraulic motor/ Electric AC/DC, 24V, 48V, 80V
STEERING POTENTIOMETER	Included
STEERING ABSOLUTE ENCODER	On request
SERVICE DRUM BRAKES	Ø185x40 mm

COMPARISON TABLE

EBm		EBm 248	EBm 300	EBm 406	EBm 417	EBm 457	EBm 525	EBm 676
MAX LOAD ON THE WHEEL AT 6km/h		4.800 kg	3.000 kg	6.000 kg	3.000 kg	3.000 kg	4.000 kg	6.000 kg
TIRE DIMENSION	kg	Polyurethane / Vulkollan Ø250x130 mm	Polyurethane / Vulkollan Ø300x100 mm	Polyurethane / Vulkollan Ø406x100 mm	Superelastic Ø417x164 16x6-8 mm	Superelastic Ø457x187 18x7-8 mm	Superelastic Ø524x216 21x8-9 mm	Superelastic Ø676x275 27x10-12 mm
MAX TILTING ANGLE		/	/	/	/	±6°	±6°	±6°
STEERING MOTOR	V	Orbital hydraulic motor/ Electric AC/DC, 24V, 48V, 80V						
STEERING POTENTIOMETER		Included						
STEERING ABSOLUTE ENCODER		On request						
SERVICE DRUM BRAKES		/	/	On request		Ø160x35 mm	On request	Ø185x40 mm

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