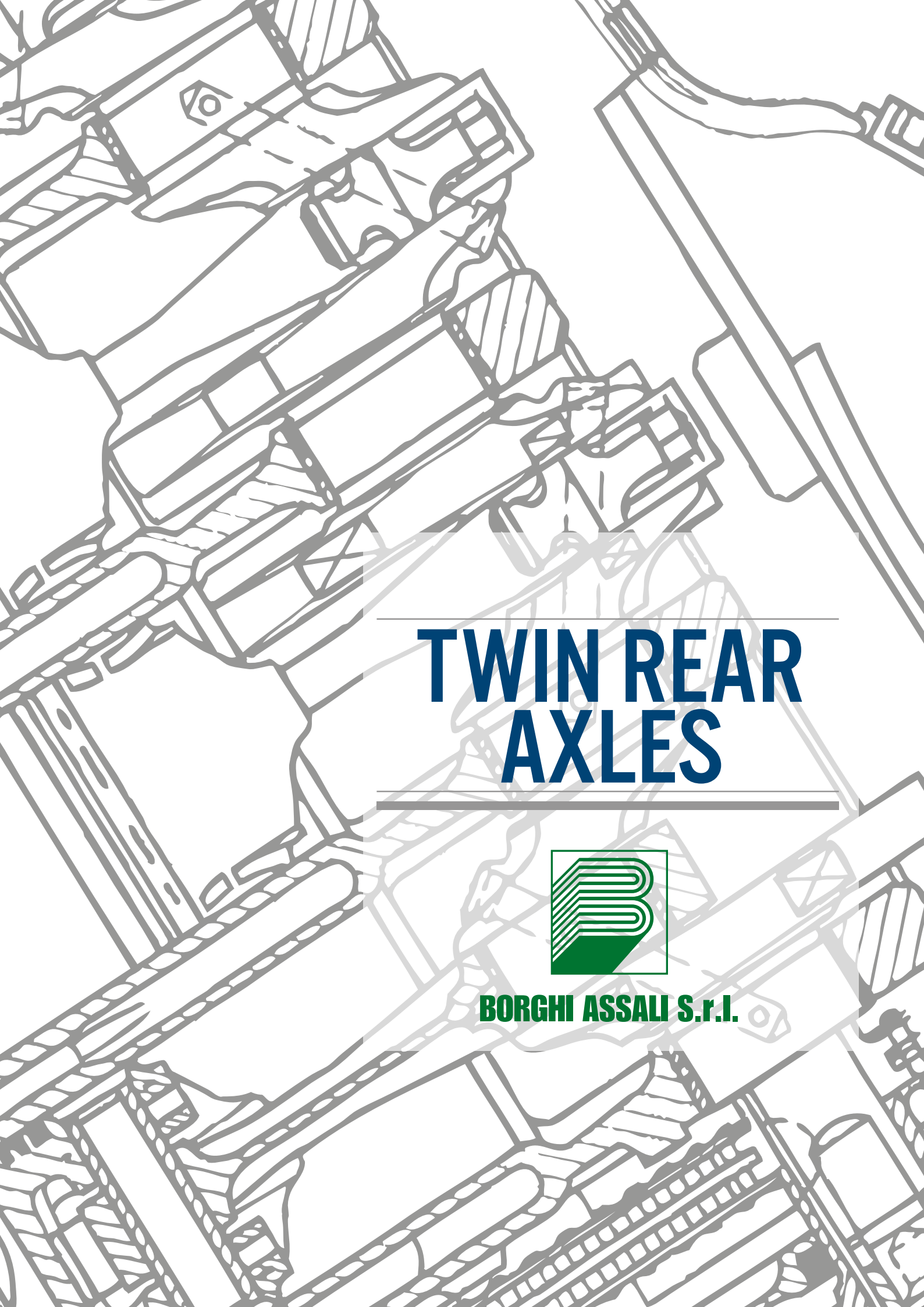


TWIN REAR AXLES

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

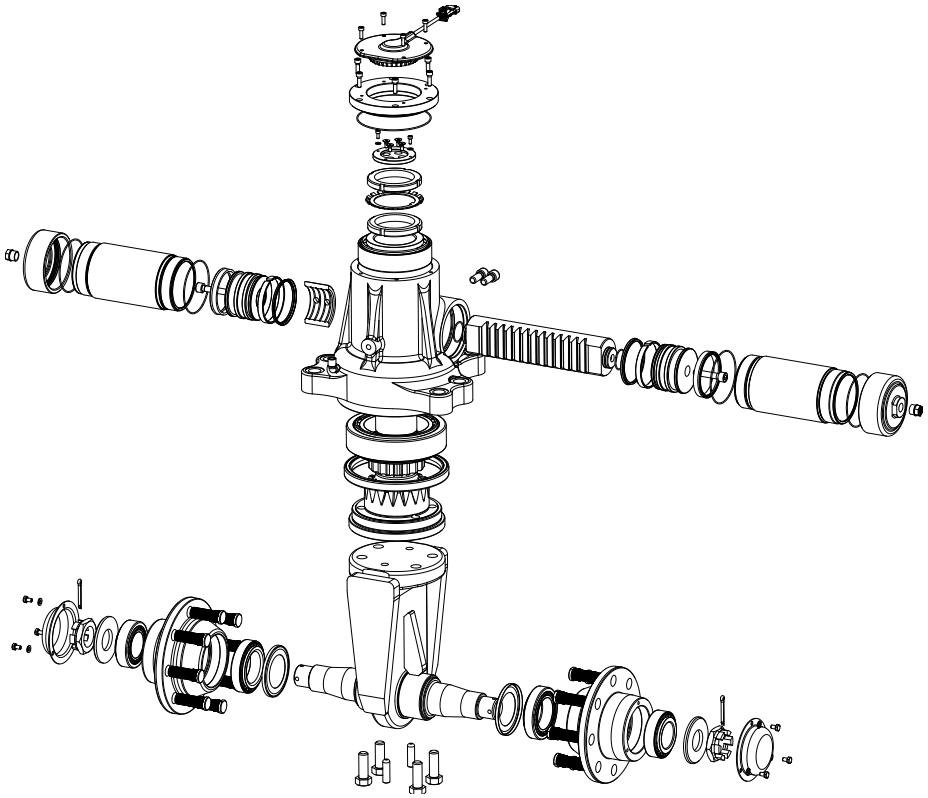
Our technical department is equipped with the most advanced systems for design and calculation facing any demand from customers preparing special products for the single applications.

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

We are a certified company ISO 9001 and we are in line with the requirements in the field of safety at work OHSAS 18001 and we are actually achieving the environmental certification ISO 14001.

In addition we are working with American companies and we have adhered to the USA standard for antiterrorism C-TPAT. This is a customs initiative that works in partnership with the trade community to secure the global supply chain.

TWIN REAR AXLES



TWIN REAR AXLES

BORGHI steering axles are compact mechanical components, being manufactured in special and certified steel, on multipallet CNC machines, that can operate also without any operator's control. Among the commercial components used by BORGHI, all bearings belong to manufacturer's A class and are tightened with torque wrenches as recommended by the main producers. Grease and seals ensure top performance at very high/very low temperatures, with high work loads. Before being marketed, all BORGHI products undergo strict static and dynamic tests.

TWIN REAR AXLES HYDRAULIC

074160000
074440000
384020000
471030000
475030000
536020000
599050000
COMPARISON TABLE

TWIN REAR AXLES ELECTRIC

074430000
074450000
257030000

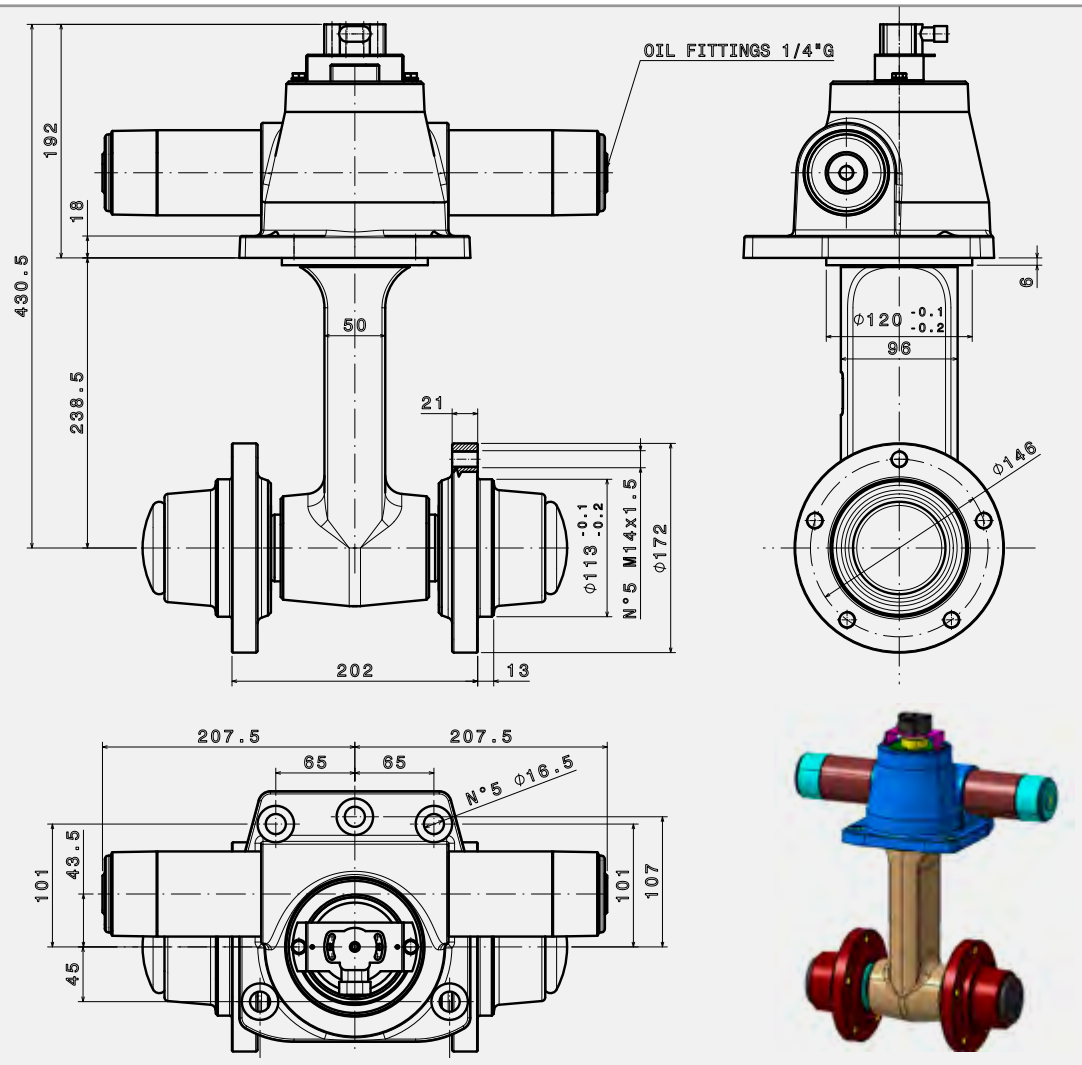
CRANE

ELECTRIC TOW TRACTOR

FORKLIFT TRUCKS

ELECTRIC VEHICLES

074160000



STATIC LOAD (Kg)

2000

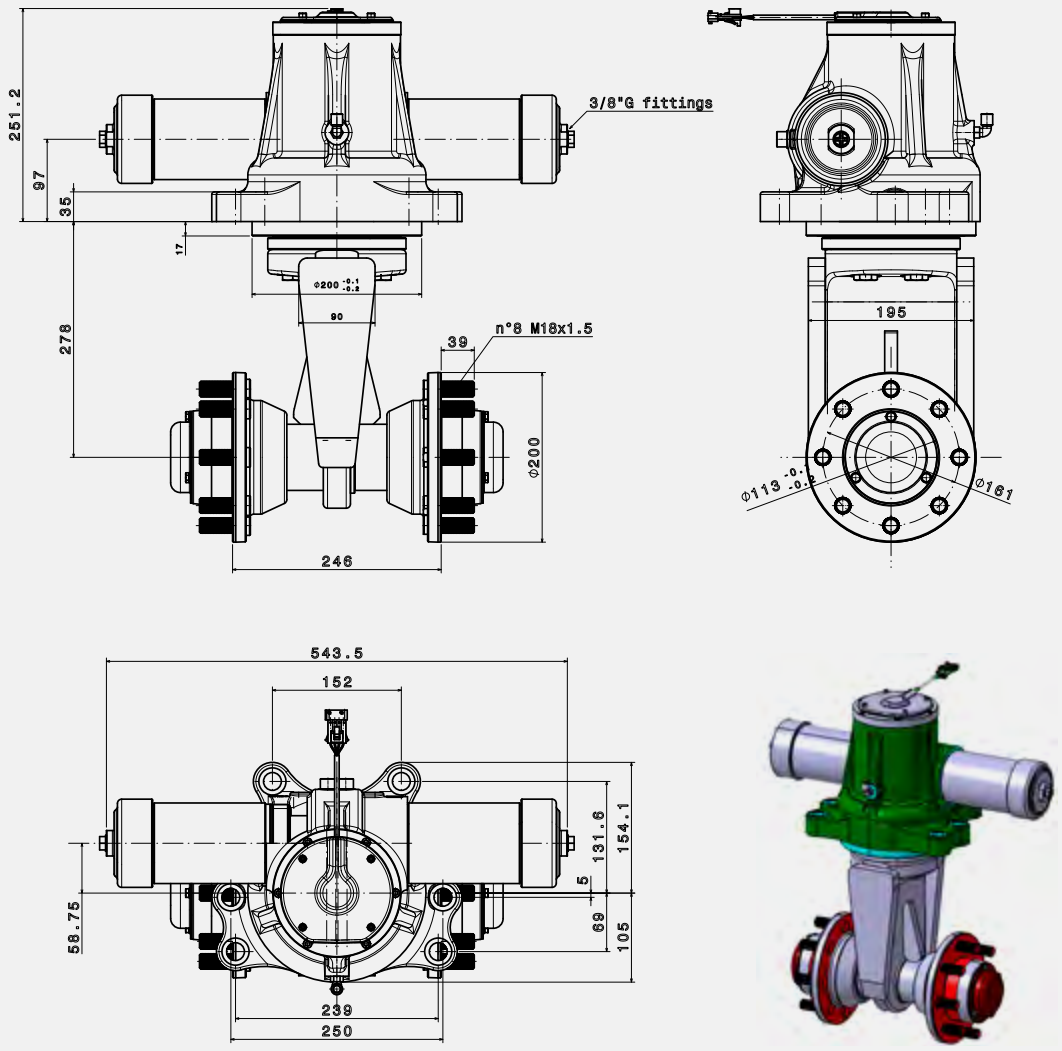
APPLICATION

TECHNICAL SPECIFICATIONS

WEIGHT	48 KG
STATIC LOAD	2000 KG
OIL VOLUME FOR TOTAL STEERING	197,3 CM^3
MAX ANGLE STEERING	85° - 90°

* The centering of the wheel hub, and the diameter of the threaded hole or stud can be made at the request

074440000



STATIC LOAD (Kg) 5000 7000

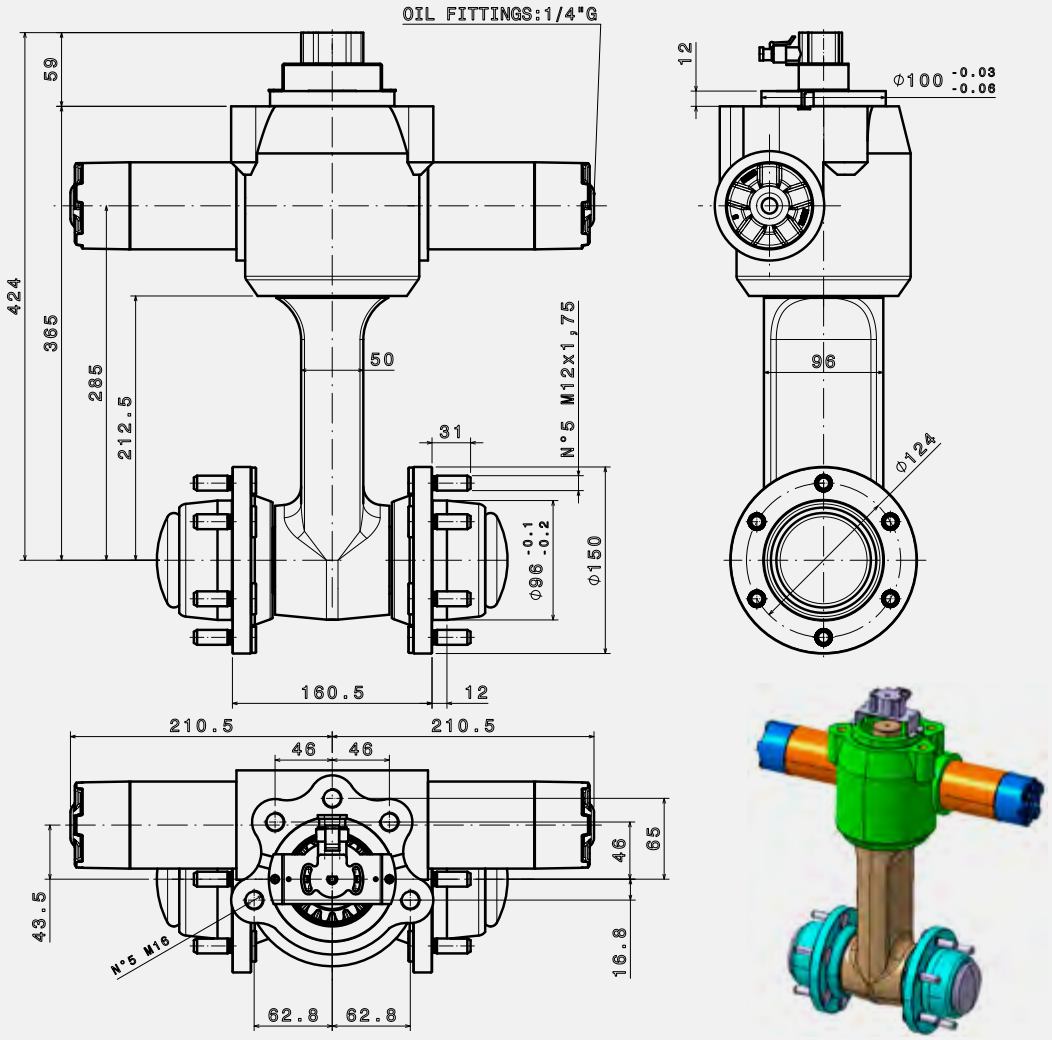
APPLICATION

TECHNICAL SPECIFICATIONS

WEIGHT	122 KG
STATIC LOAD	5000 KG -7000 KG
OIL VOLUME FOR TOTAL STEERING	671 CM^3
MAX ANGLE STEERING	85° - 90°

* The centering of the wheel hub, and the diameter of the threaded hole or stud can be made at the request

384020000



STATIC LOAD (Kg)

2000

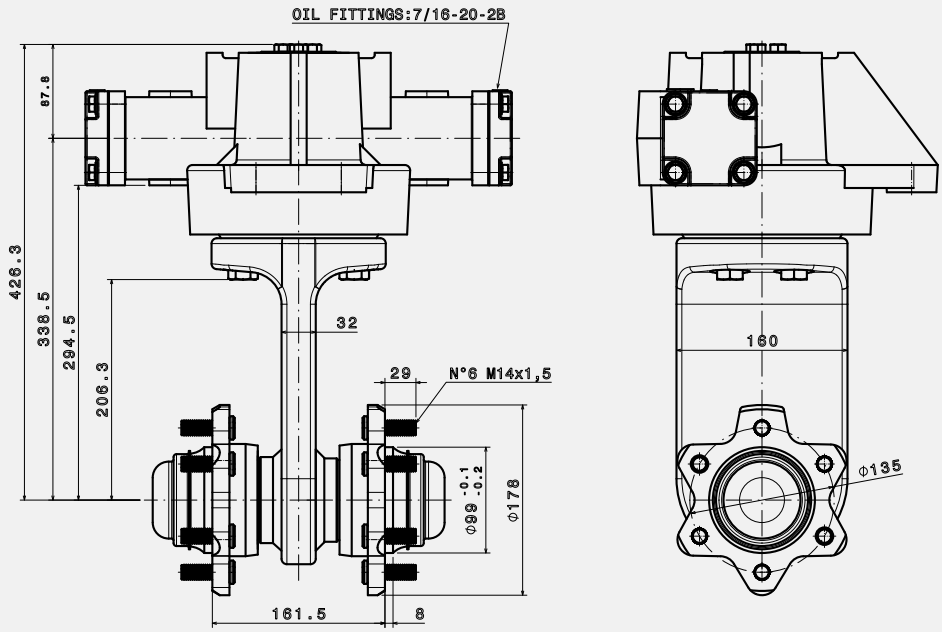
APPLICATION

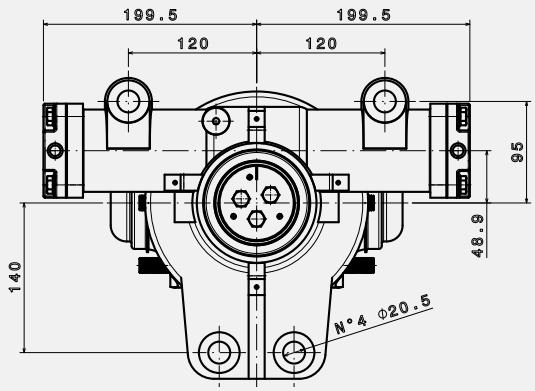
TECHNICAL SPECIFICATIONS

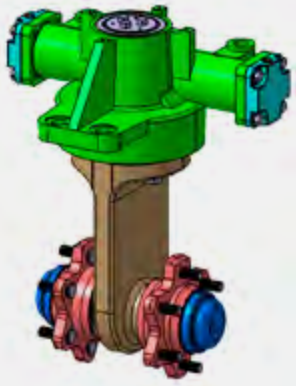
WEIGHT	48 KG
STATIC LOAD	2000 KG
OIL VOLUME FOR TOTAL STEERING	197,3 CM^3
MAX ANGLE STEERING	85° - 90°

* The centering of the wheel hub, and the diameter of the threaded hole or stud can be made at the request

471030000







STATIC LOAD (Kg)

2000

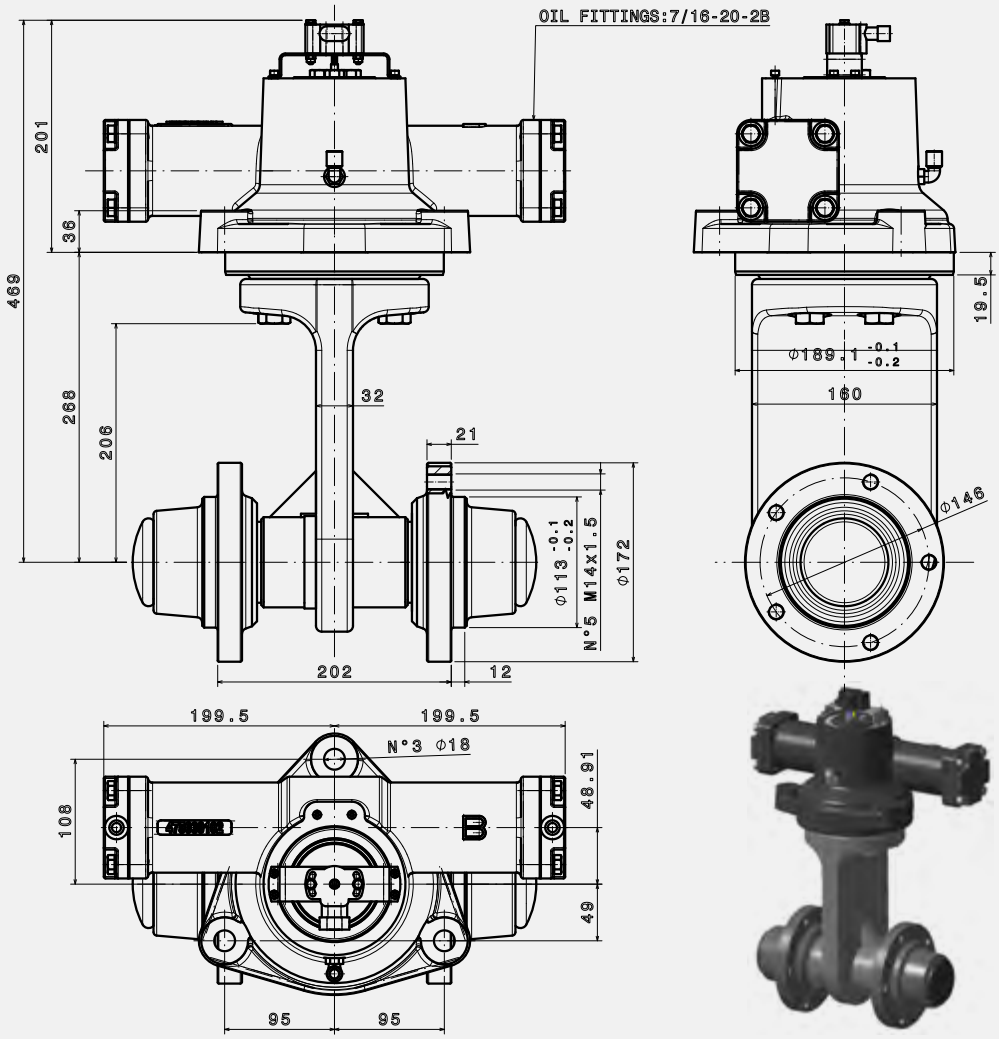
APPLICATION

TECHNICAL SPECIFICATIONS

WEIGHT	59 KG
STATIC LOAD	2000 KG
OIL VOLUME FOR TOTAL STEERING	266,8 CM^3
MAX ANGLE STEERING	85° - 90°

* The centering of the wheel hub, and the diameter of the threaded hole or stud can be made at the request

475030000



STATIC LOAD (Kg) 2000

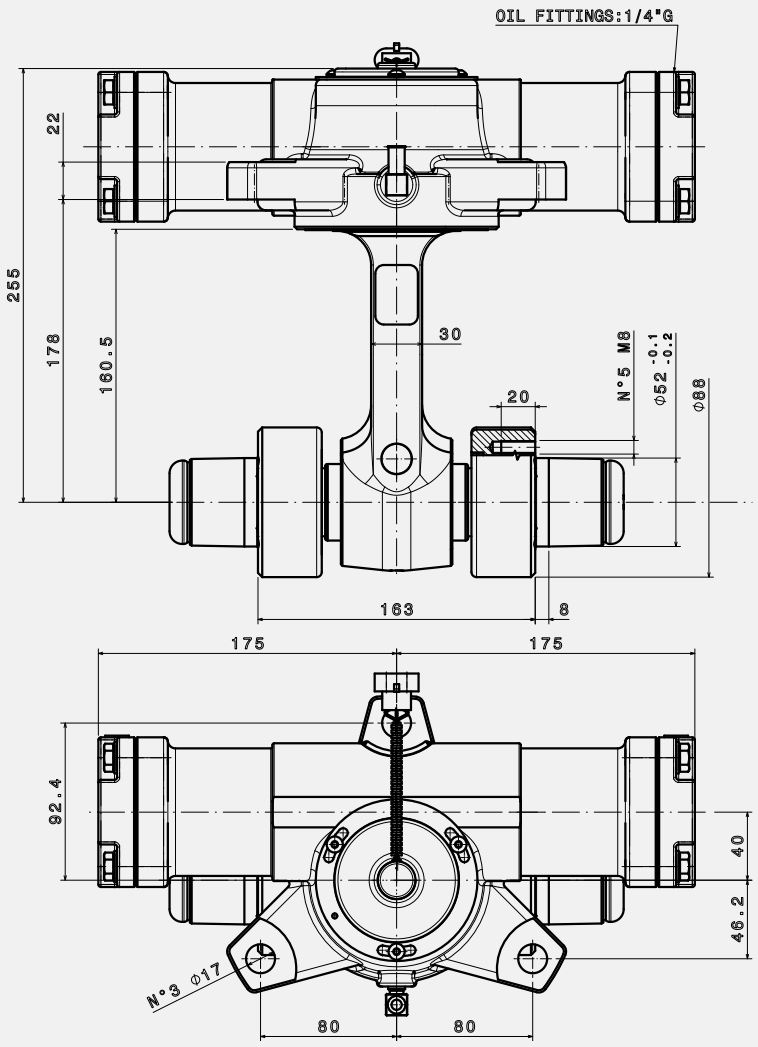
APPLICATION

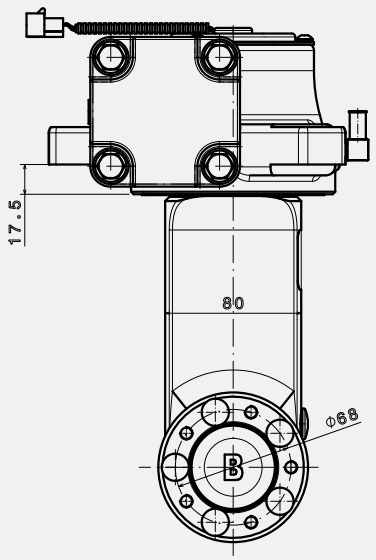
TECHNICAL SPECIFICATIONS

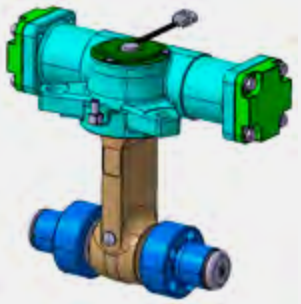
WEIGHT	69 KG
STATIC LOAD	2000 KG
OIL VOLUME FOR TOTAL STEERING	266,8 CM^3
MAX ANGLE STEERING	85° - 90°

* The centering of the wheel hub, and the diameter of the threaded hole or stud can be made at the request

536020000







STATIC LOAD (Kg)

1000

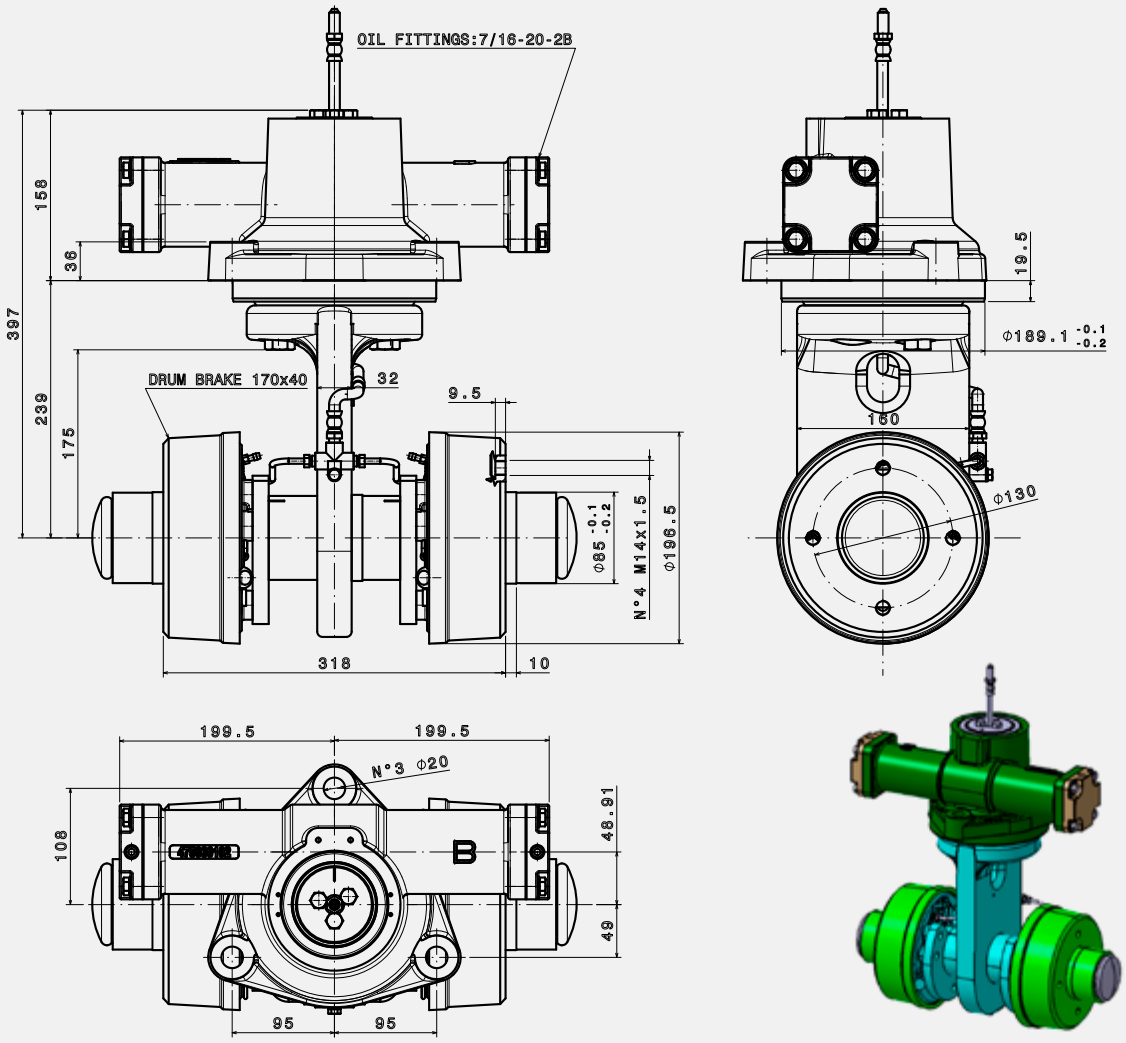
APPLICATION

TECHNICAL SPECIFICATIONS

WEIGHT	27 KG
STATIC LOAD	1000 KG
OIL VOLUME FOR TOTAL STEERING	170,8 CM^3
MAX ANGLE STEERING	85° - 90°

* The centering of the wheel hub, and the diameter of the threaded hole or stud can be made at the request

599050000



STATIC LOAD (Kg)

1000

APPLICATION

TECHNICAL SPECIFICATIONS

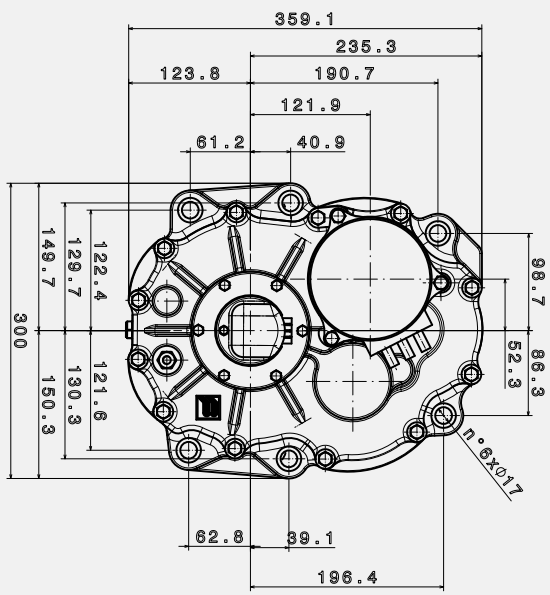
WEIGHT	80 KG
STATIC LOAD	1000 KG
OIL VOLUME FOR TOTAL STEERING	266,8 CM^3
MAX ANGLE STEERING	85° - 90°

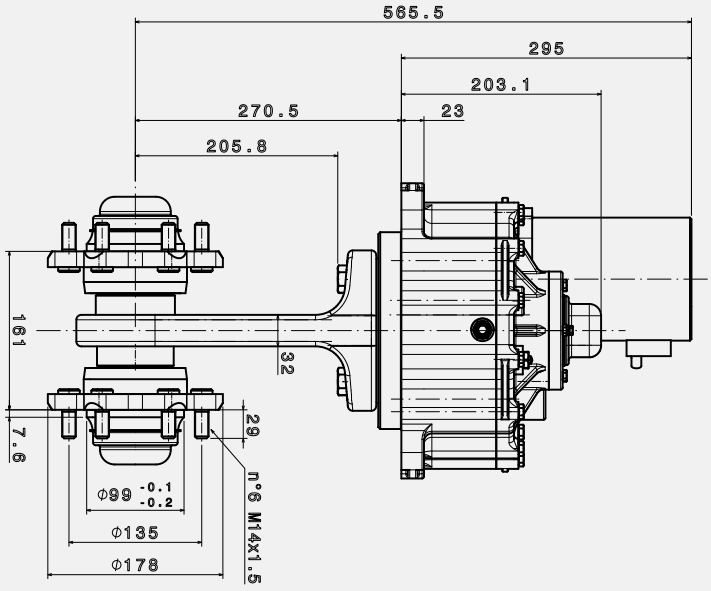
* The centering of the wheel hub, and the diameter of the threaded hole or stud can be made at the request

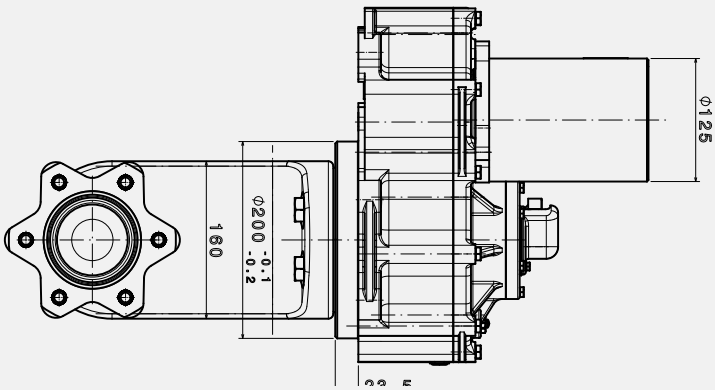
COMPARISON TABLE

ITEM	Weight	Static load	Oil volume	Max. steering angle
074160000	48 KG	2000 KG	197,3 CM^3	85-90
074440000	122 KG	5000 KG	671 CM^3	85-90
384020000	48 KG	2000 KG	197,3 CM^3	85-90
471030000	59 KG	2000 KG	266,8 CM^3	85-90
475030000	69 KG	2000 KG	266,8 CM^3	85-90
536020000	27 KG	1000 KG	170,8 CM^3	85-90
599050000	80 KG	1000 KG	266,8 CM^3	85-90

074430000







MAX LOAD ON THE AXLE (Kg)

2800

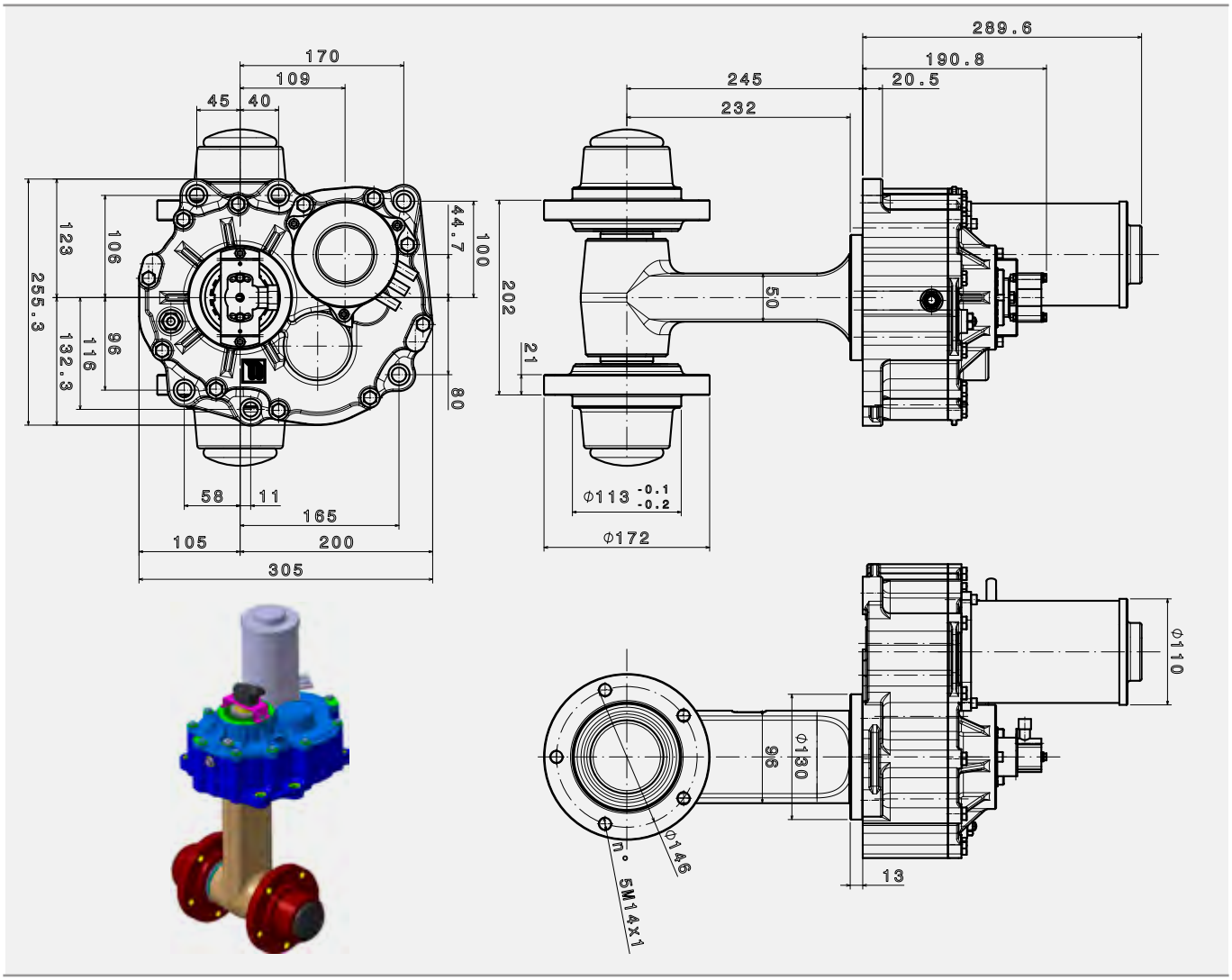
APPLICATION

TECHNICAL SPECIFICATIONS

MAX LOAD ON THE AXLE	2800 Kg
MAX DYNAMIC LOAD ON EACH WHEEL	600W 48V AC
MAXIMUN CURRENT SUPPLY	18A
MAXIMUN OUTPUT TORQUE	1700 Nm
REDUCTION RATIO	1:153
ALLOWABLE TIRE SIZE	Superelastic 16x6-8
STEERING FEEDBACK	Mechanical or magnetic rotary potentiometer
ELECTRIC STEERING MOTOR	600W 24-48V AC

* The centering of the wheel hub, and the diameter of the threaded hole or stud can be made at the request

074450000



MAX LOAD ON THE AXLE (Kg)

1800

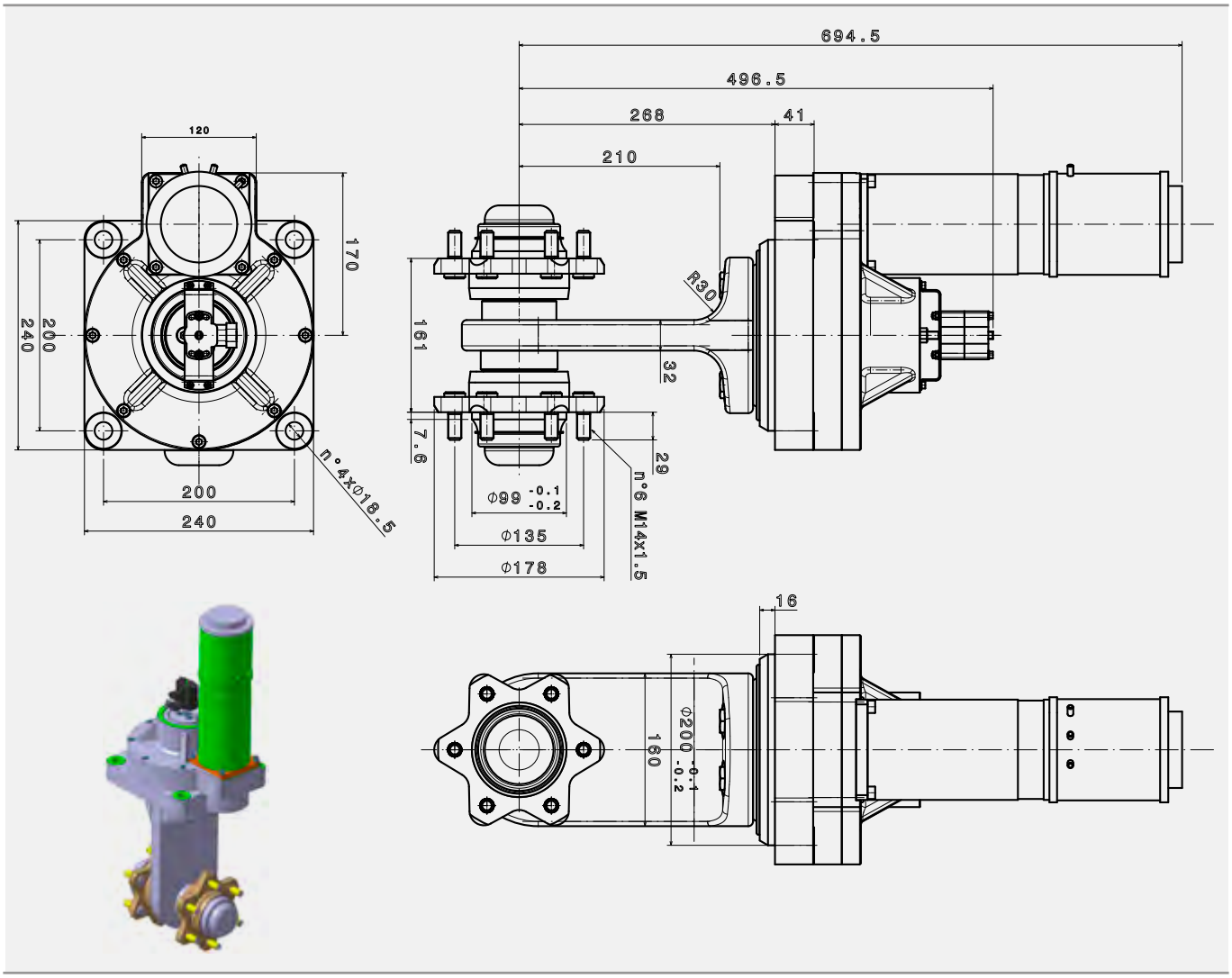
APPLICATION

TECHNICAL SPECIFICATIONS

MAX LOAD ON THE AXLE	1800 Kg
MAX DYNAMIC LOAD ON EACH WHEEL	400W 48V AC
MAXIMUN CURRENT SUPPLY	43A
MAXIMUN OUTPUT TORQUE	990 Nm
REDUCTION RATIO	1:160
ALLOWABLE TIRE SIZE	Superelastic 16x6-8
STEERING FEEDBACK	Mechanical or magnetic rotary potentiometer
ELECTRIC STEERING MOTOR	400W 24-48V AC

* The centering of the wheel hub, and the diameter of the threaded hole or stud can be made at the request

257030000



MAX LOAD ON THE AXLE (Kg)

1600 2300

APPLICATION

TECHNICAL SPECIFICATIONS

MAX LOAD ON THE AXLE	1600 Kg - 2300 Kg
MAX DYNAMIC LOAD ON EACH WHEEL	400W 48V AC
ALLOWABLE TIRE SIZE	Superelastic 16x6-8
STEERING FEEDBACK	Mechanical or magnetic rotary potentiometer
ELECTRIC STEERING MOTOR	400W 24-48V AC

* The centering of the wheel hub, and the diameter of the threaded hole or stud can be made at the request

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