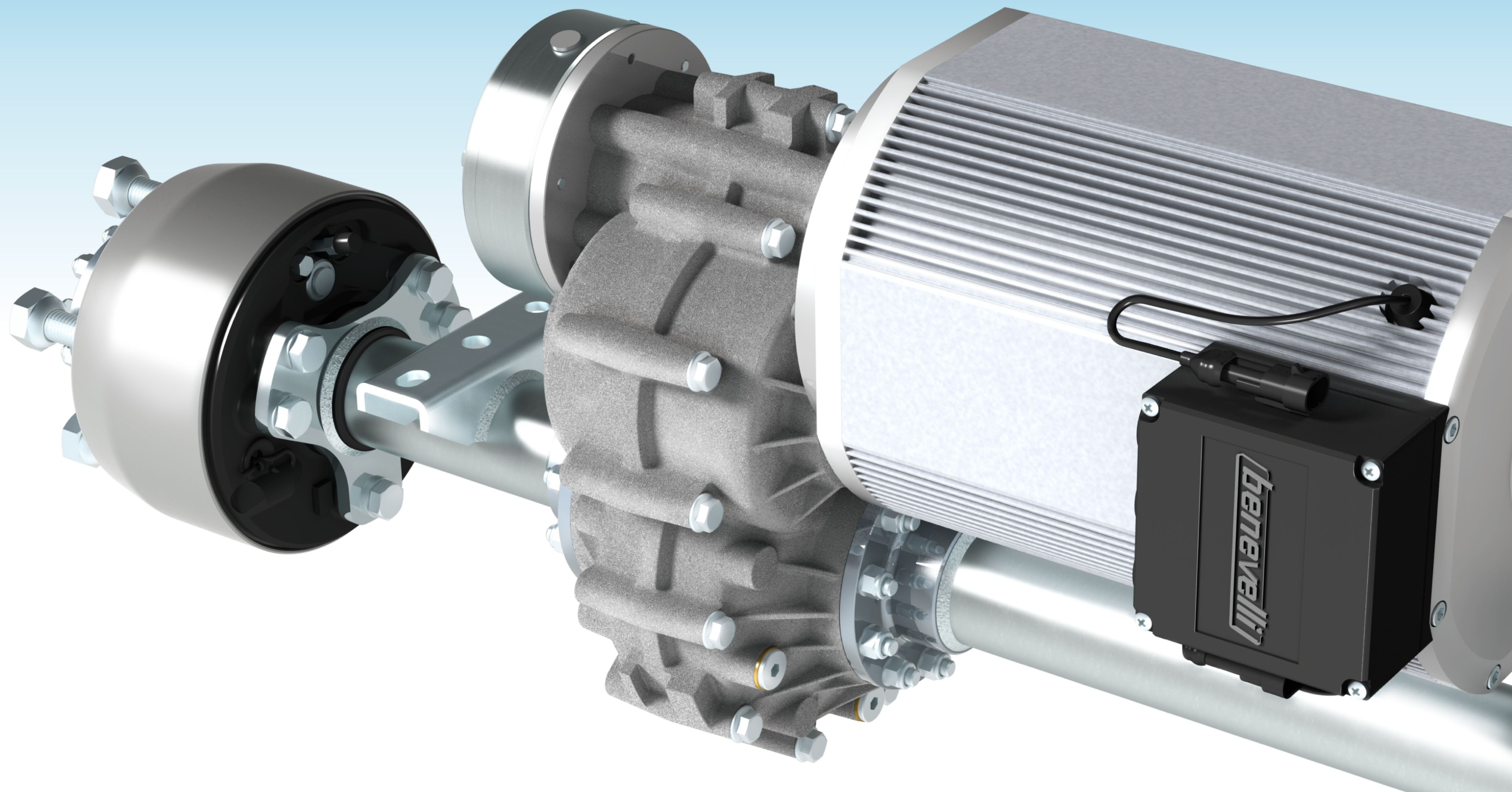
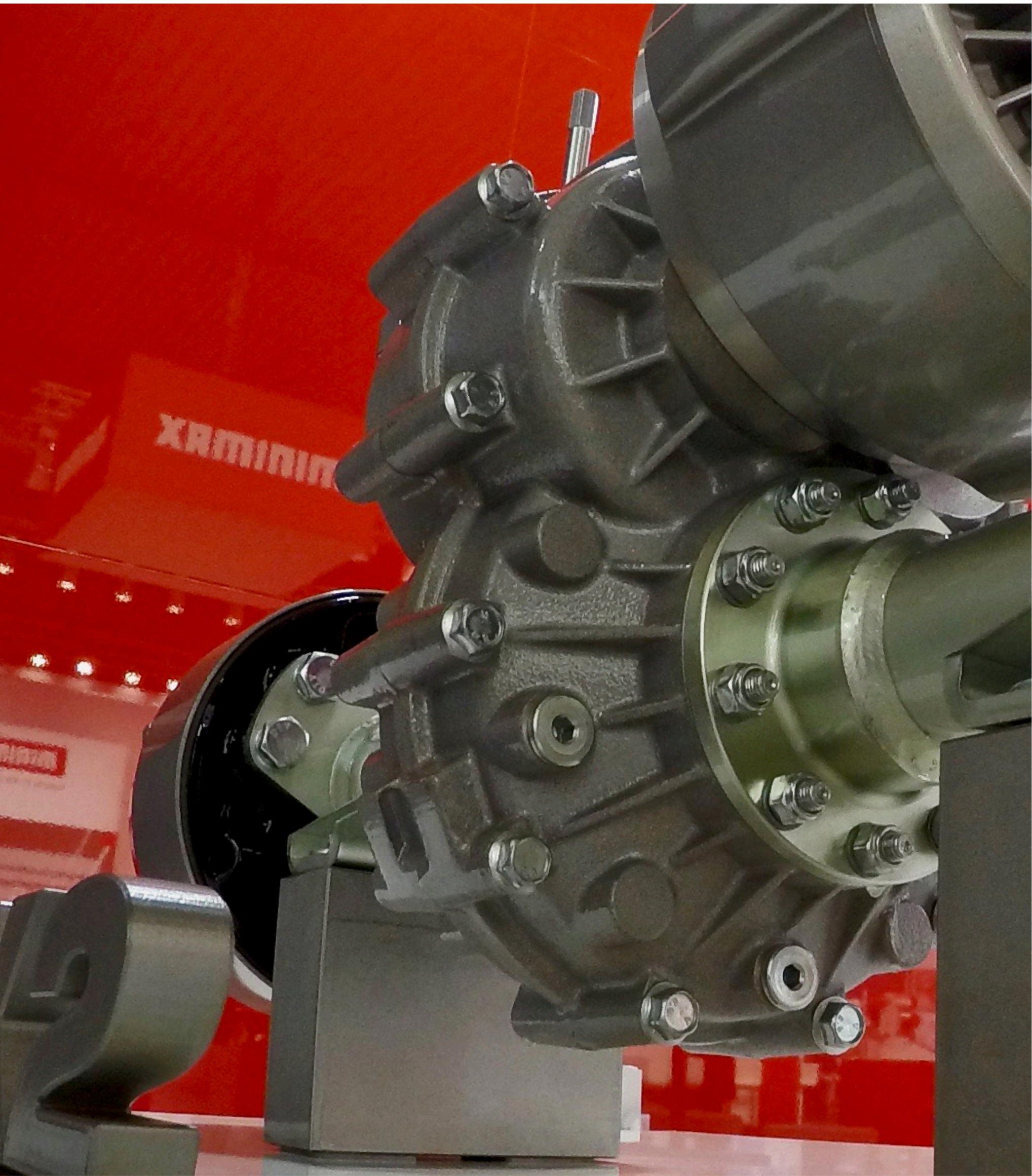






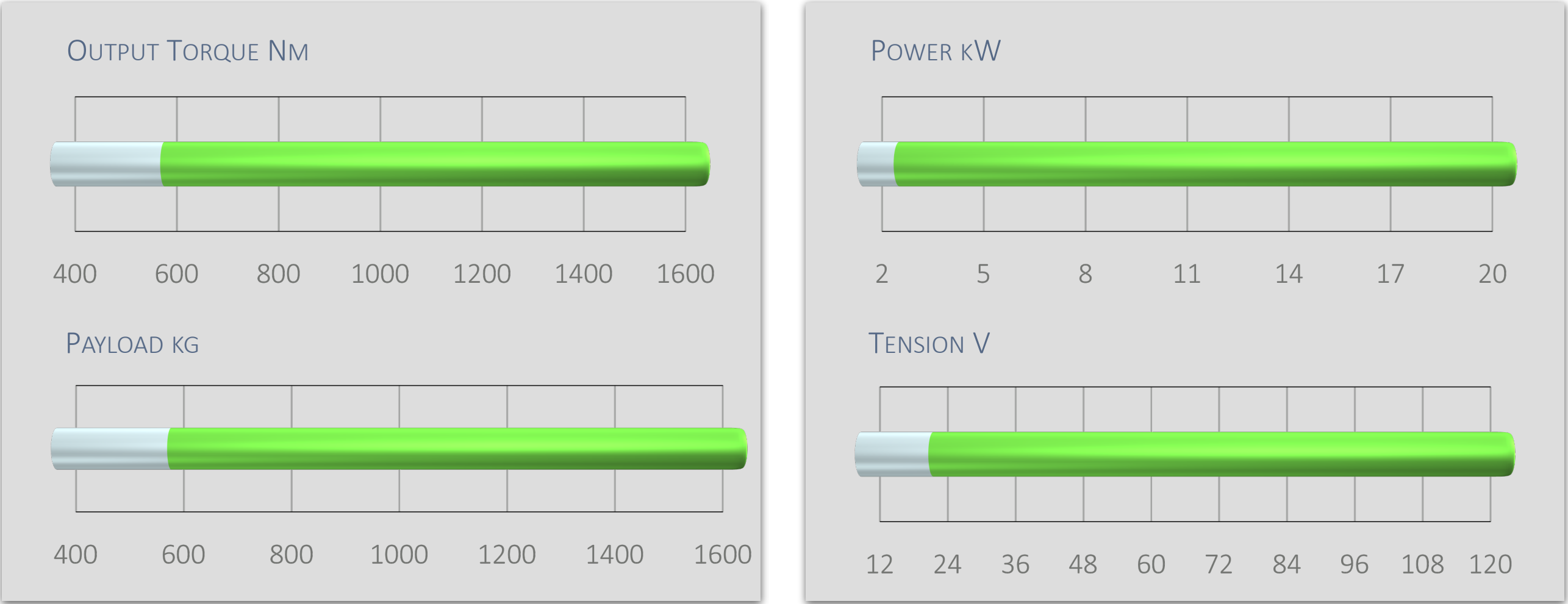
TRANSAXLE DRIVE SYSTEMS

TX2 Serie is a fully modular powered transaxle system that includes a gearbox with differential, a rigid axle, a brake system and an electric motor.

Modular system allow TX2 Serie custom design tailored to your specific requirements, TX2 Serie is the next generation transmissions developed for eMobility market.

TX2 Serie is the Next Generation eTransaxles.

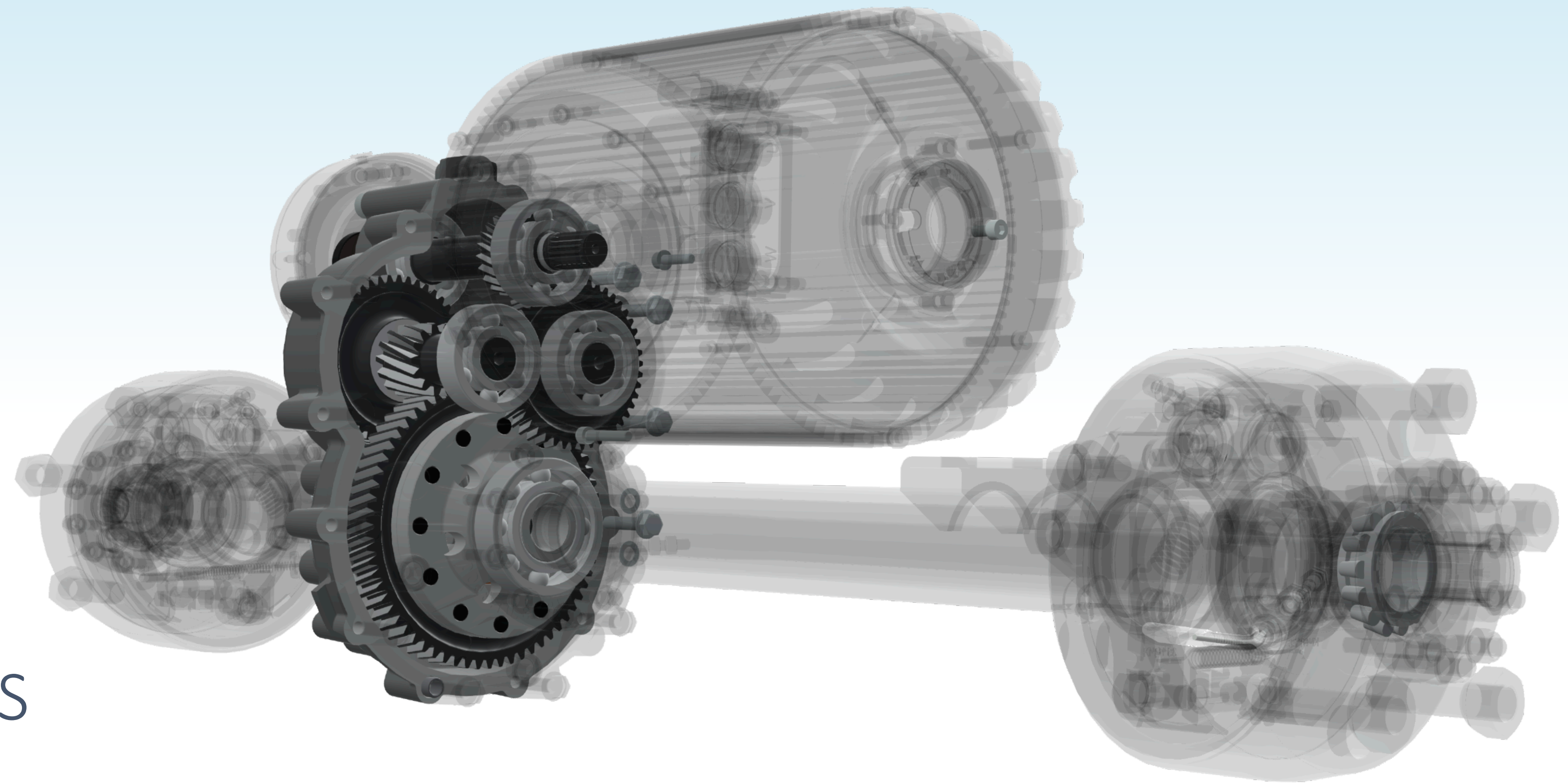
OPERATION RANGE



Benevelli products has always been built around a singular vision: to create gearboxes that are as powerful, functional and compact as they are modular and easy to install.

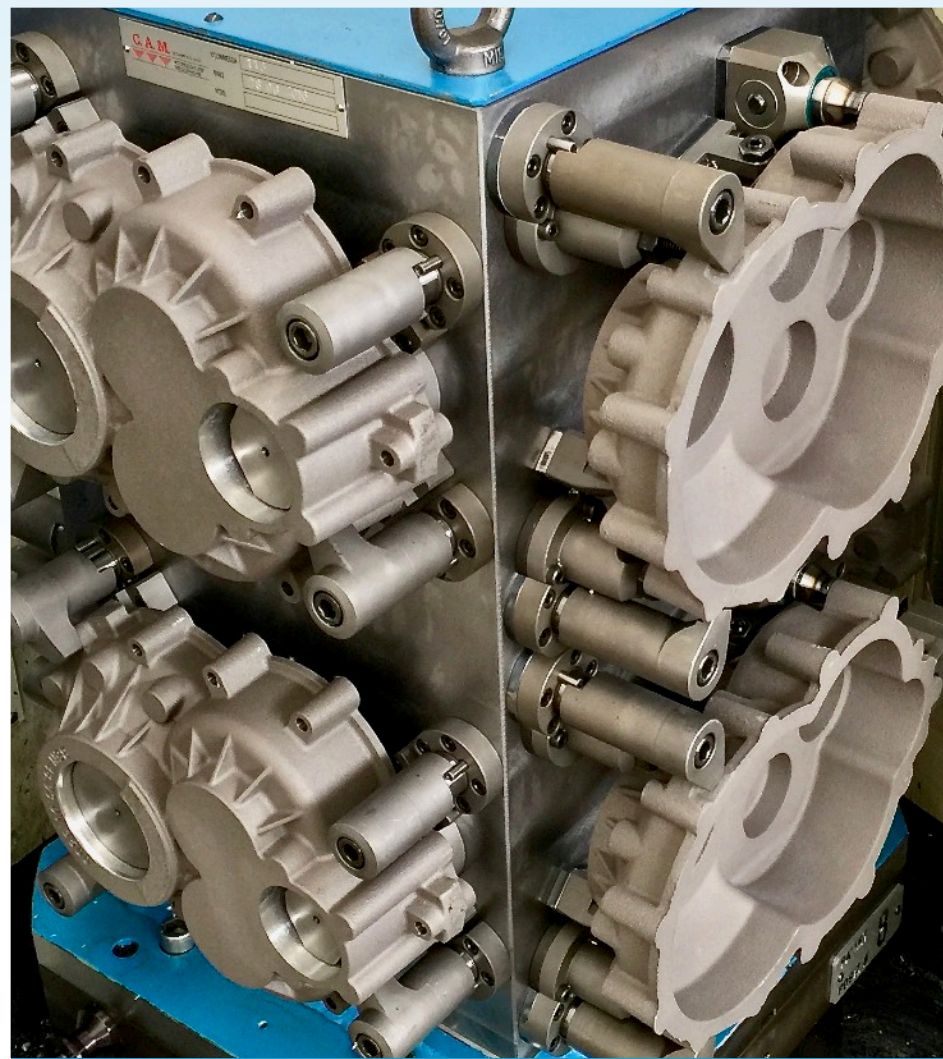
TX2 is a stunning realization of that.

We assemble the entire product and machine its high-precision components in Italy being able to build a product that's impeccably constructed in every detail.



TX2 SERIE MORE PERFORMANCES

OUR TECHNOLOGIES FOR YOUR eMOBILITY



CONSTANT DEVELOPMENT

A CONSTANT RESEARCH ON MATERIALS AND CONSTRUCTION TECHNIQUES IS BEHIND THE SUCCESS OF TX2 SERIE



HIGH EFFICIENCY

GEARS CLASS 5 WITH GROUND PROFILES GUARANTEE HIGH MECHANICAL EFFICIENCIES CLOSE TO 95%



DIFFERENTIAL LOCK

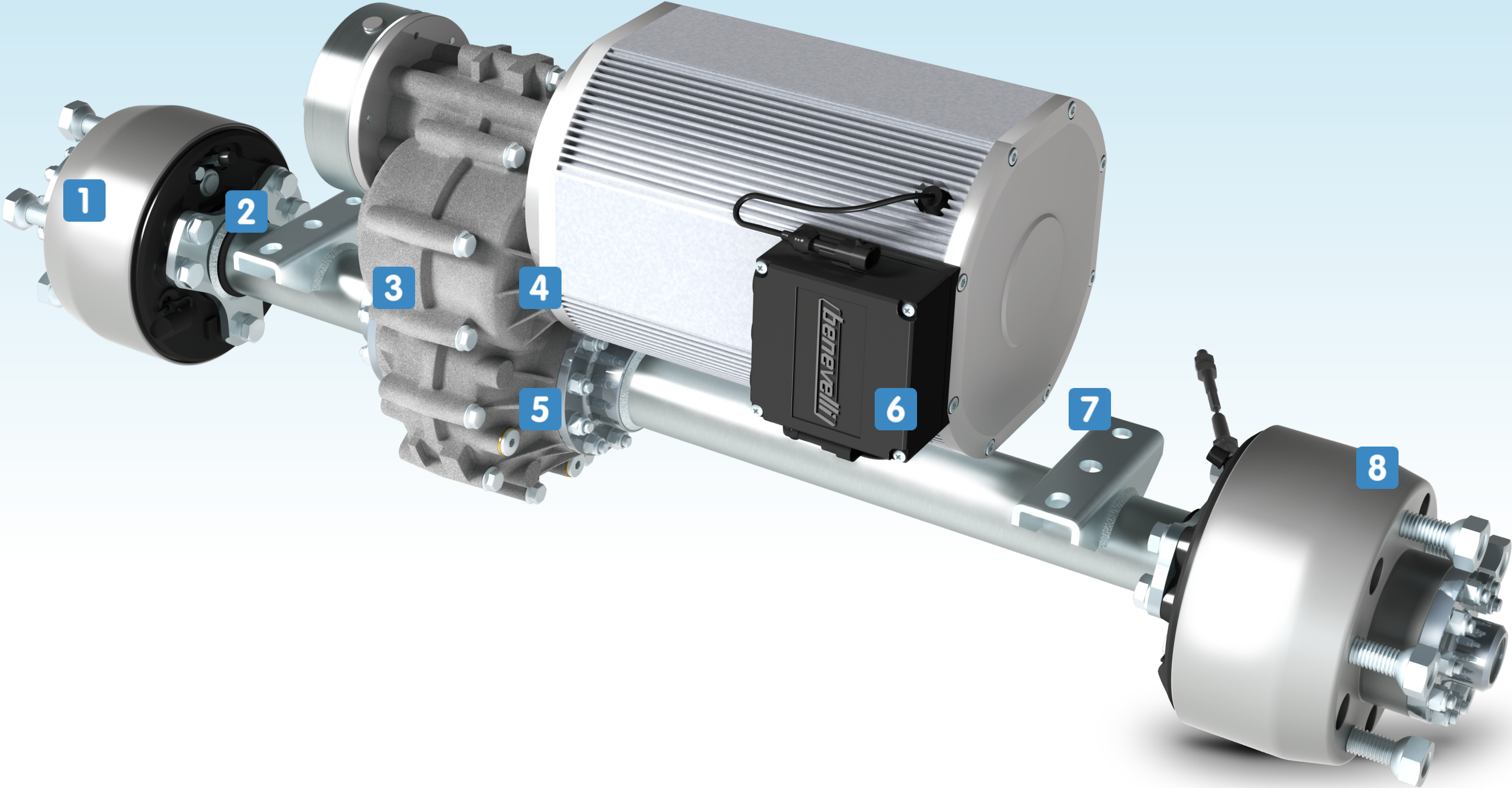
ALL OUR TRANSMISSIONS CAN BE EQUIPPED WITH DIFFERENTIAL MECHANICAL LOCK DEVICE



ENERGY SAVING

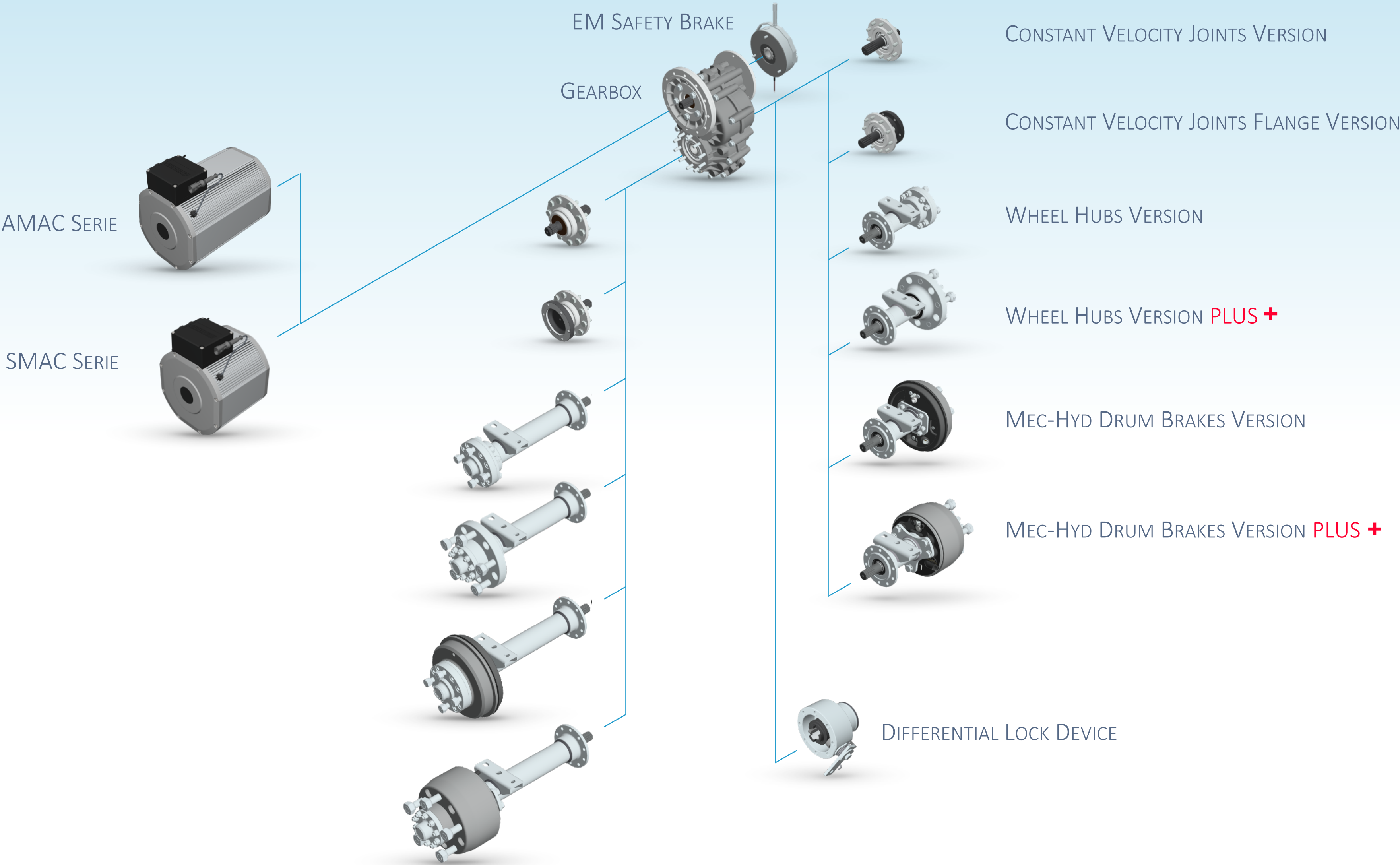
BENEVELLI MOTORS MAKES A SIGNIFICANT CONTRIBUTION TO SAVING CURRENT AND EXTENDS RUNNING TIME AUTONOMY

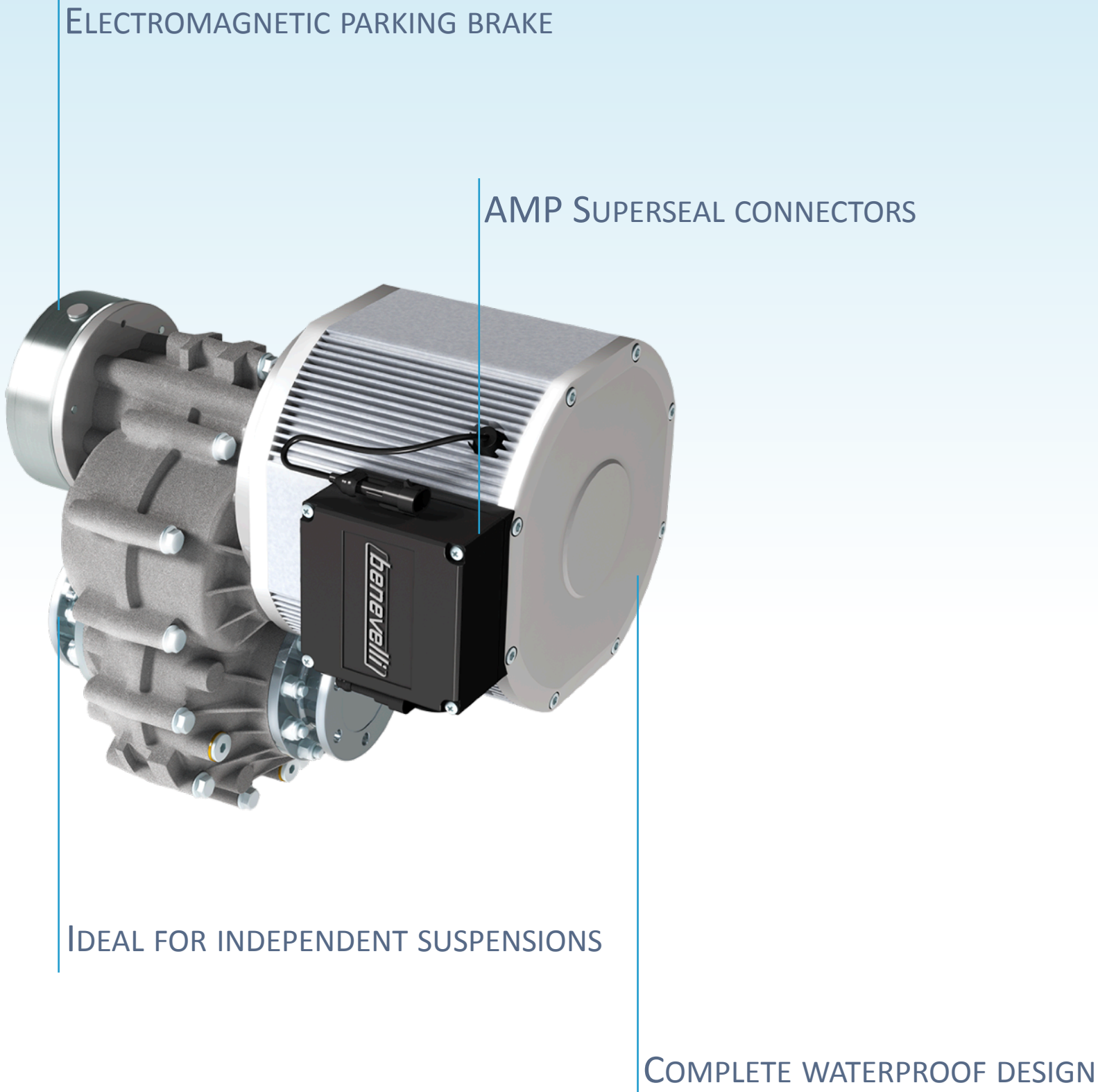
TX2 SERIE - BENEFIT & FEATURES



- 1** DIMENSIONS
MODULAR DESIGN ALLOWS CONFIGURATION IN OVER 1000 DIFFERENT TRACK-WIDTHS
- 2** WELDING
WELDINGS OPERATION PERFORMED BY ROBOTIC SYSTEMS TÜV CERTIFIED ISO 15614:2012
- 3** EM BRAKE
ELECTROMAGNETIC NEGATIVE BRAKE POSITIONED TO MINIMIZE THE OVERALL DIMENSIONS
- 4** MOTORS
AVAILABLE WITH ASYNCHRONOUS & SYNCHRONOUS AC MOTORS WITH POWER UP TO 20kW
- 5** DIFFERENTIAL LOCK
ALL MODELS ARE ALSO AVAILABLE WITH MECHANICAL DIFFERENTIAL LOCKING DEVICE
- 6** WATERPROOF DESIGN
DESIGNED FOR A COMPLETE PROTECTION UP TO IP66 UNDER IEC STANDARD 60529
- 7** MOUNTING POSITION
DIFFERENT STANDARD MOUNTING POSSIBILITIES ROTATING MOTOR ON Z AXIS FROM 0 TO 180°
- 8** WHEEL CONNECTION
AVAILABLE WITH DIFFERENT WHEEL HUBS TYPES OR WITH MECHANICAL-HYDRAULIC DRUM BRAKES

TX2 SERIE - MODULAR DRIVE SYSTEM





Gearbox Features		
RATIOS	I	3 - 5 - 7 - 10 - 12 - 16 22 - 27 - 34 - 43 - 56 - 80
OUTPUT TORQUE	NM	1.000
INPUT SPEED (MAX)	RPM	7.200
STATIC LOAD	KG	-
GEARBOX FINISHING		GROUND GEARS
EFFICIENCY	%	95
DIFFERENTIAL LOCK		OPTIONAL

Motor Features		
MOTOR TYPE		AMAC - SMAC
RATED POWER	kW	3,0 ÷ 20,0
RATED VOLTAGE	V	24 ÷ 120
INSULATION CLASS		F (155°)
PROTECTION DEGREE	IP	54 ÷ 67
SERVICE BRAKING		-
PARKING BRAKING		ELECTROMAGNETIC - NM 20 ÷ 100
MANUAL RELEASE		OPTIONAL



TECHNICAL SUPPORT

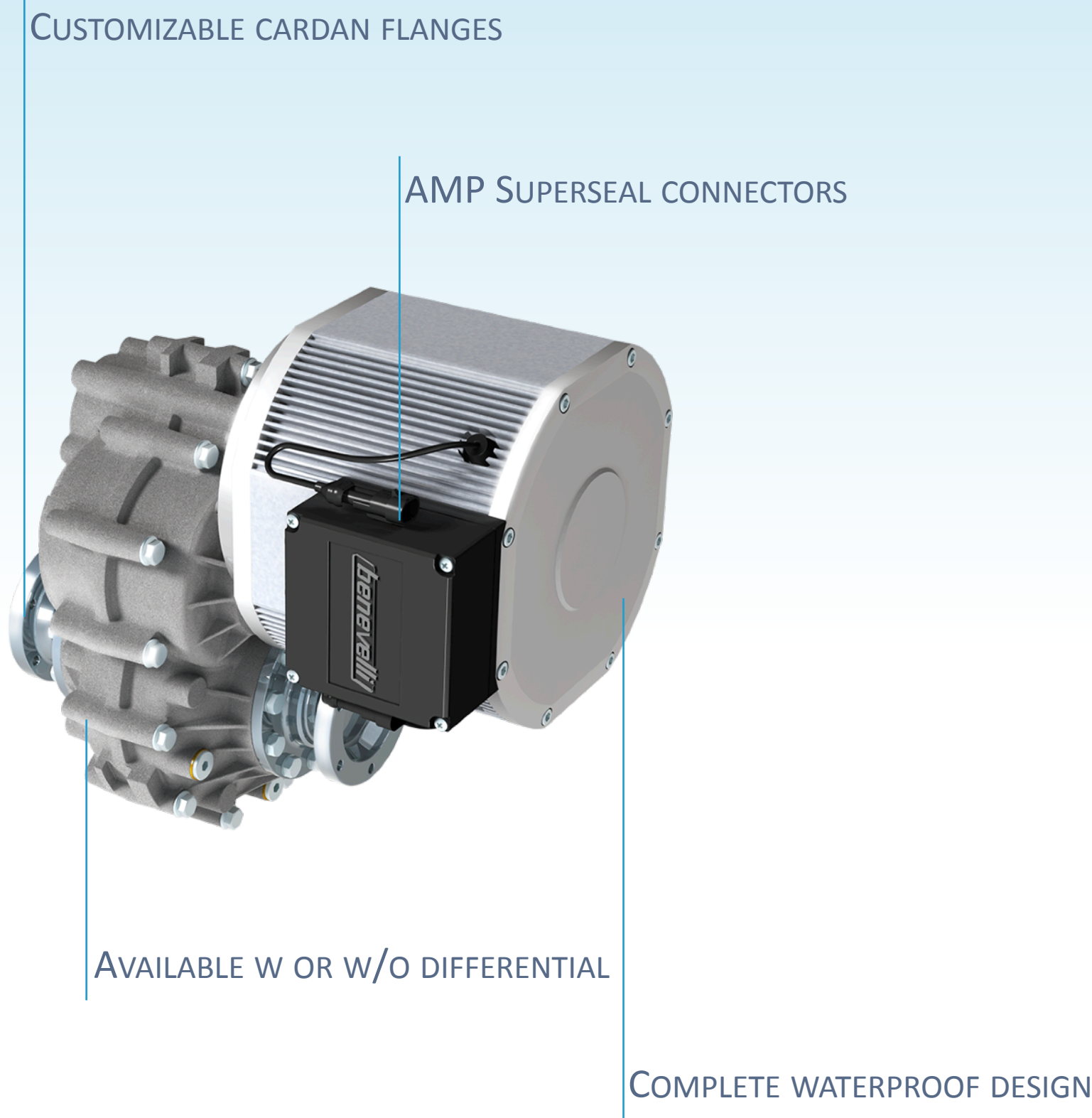


3D DRAWING



REQUEST A QUOTE

TX2 SERIE - 4WD TRANSFER CASE VERSION



GEARBOX FEATURES		
RATIOS	I	3 - 5 - 7 - 10 - 12 - 16 22 - 27 - 34 - 43 - 56 - 80
OUTPUT TORQUE	NM	1.000
INPUT SPEED (MAX)	RPM	7.200
STATIC LOAD	KG	-
GEARBOX FINISHING		GROUND GEARS
EFFICIENCY	%	95
DIFFERENTIAL LOCK		OPTIONAL

MOTOR FEATURES		
MOTOR TYPE		AMAC - SMAC
RATED POWER	kW	3,0 ÷ 20,0
RATED VOLTAGE	V	24 ÷ 120
INSULATION CLASS		F (155°)
PROTECTION DEGREE	IP	54 ÷ 67
SERVICE BRAKING		-
PARKING BRAKING		ELECTROMAGNETIC - Nm 20 ÷ 100
MANUAL RELEASE		OPTIONAL



TECHNICAL SUPPORT

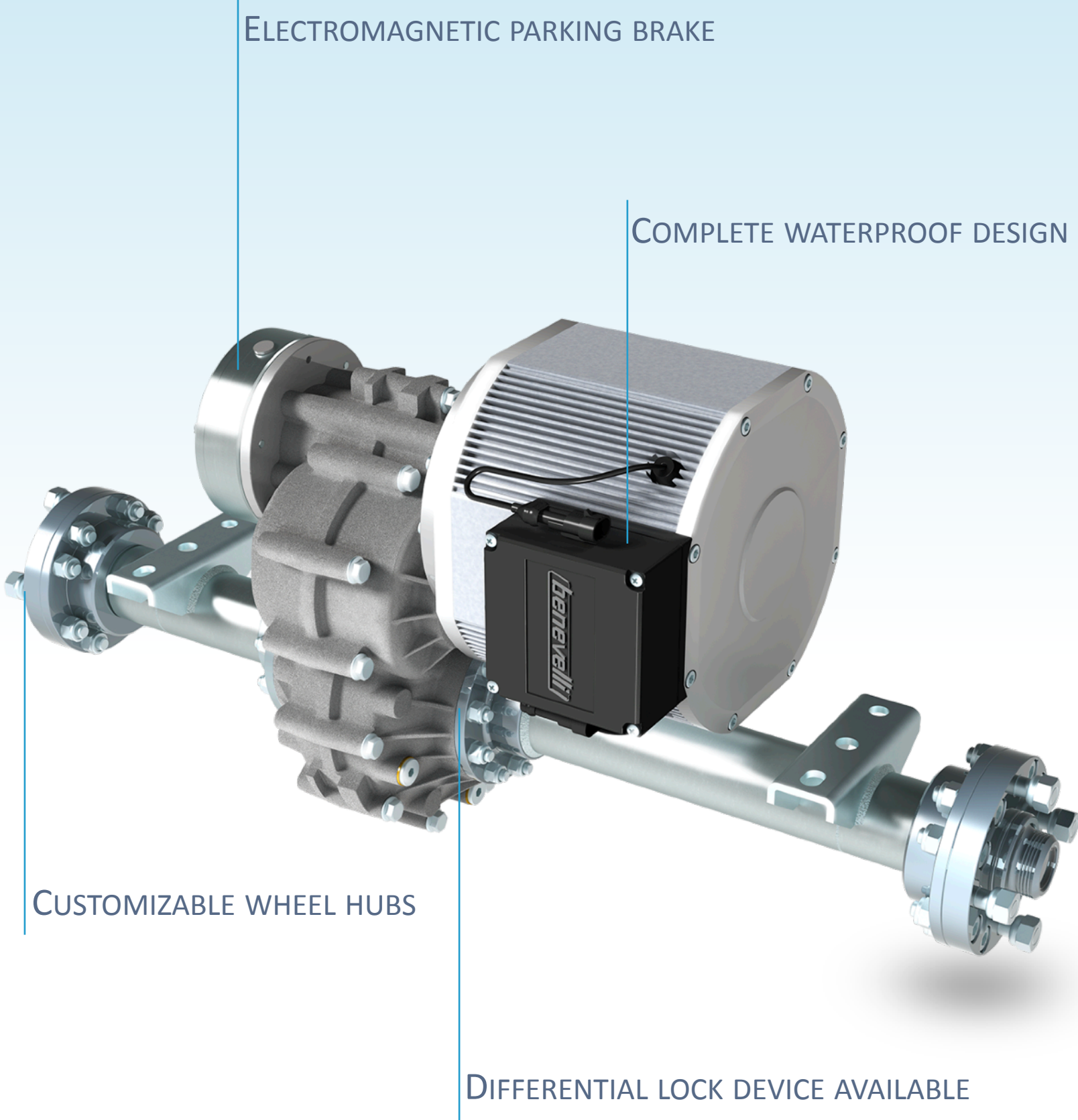


3D DRAWING



REQUEST A QUOTE

TX2 SERIE - WHEEL HUBS VERSION



GEARBOX FEATURES		
RATIOS	I	3 - 5 - 7 - 10 - 12 - 16 22 - 27 - 34 - 43 - 56 - 80
OUTPUT TORQUE	NM	1.000
STATIC LOAD	KG	1.000
TRACK-WIDTH	MM	560 ÷ 1.988
GEARBOX FINISHING		GROUND GEARS
EFFICIENCY	%	95
DIFFERENTIAL LOCK		OPTIONAL

MOTOR FEATURES		
MOTOR TYPE		AMAC - SMAC
RATED POWER	kW	3,0 ÷ 6,5
RATED VOLTAGE	V	24 ÷ 120
INSULATION CLASS		F (155°)
PROTECTION DEGREE	IP	54 ÷ 67
SERVICE BRAKING		-
PARKING BRAKING		ELECTROMAGNETIC - NM 20 ÷ 100
MANUAL RELEASE		OPTIONAL



TECHNICAL SUPPORT

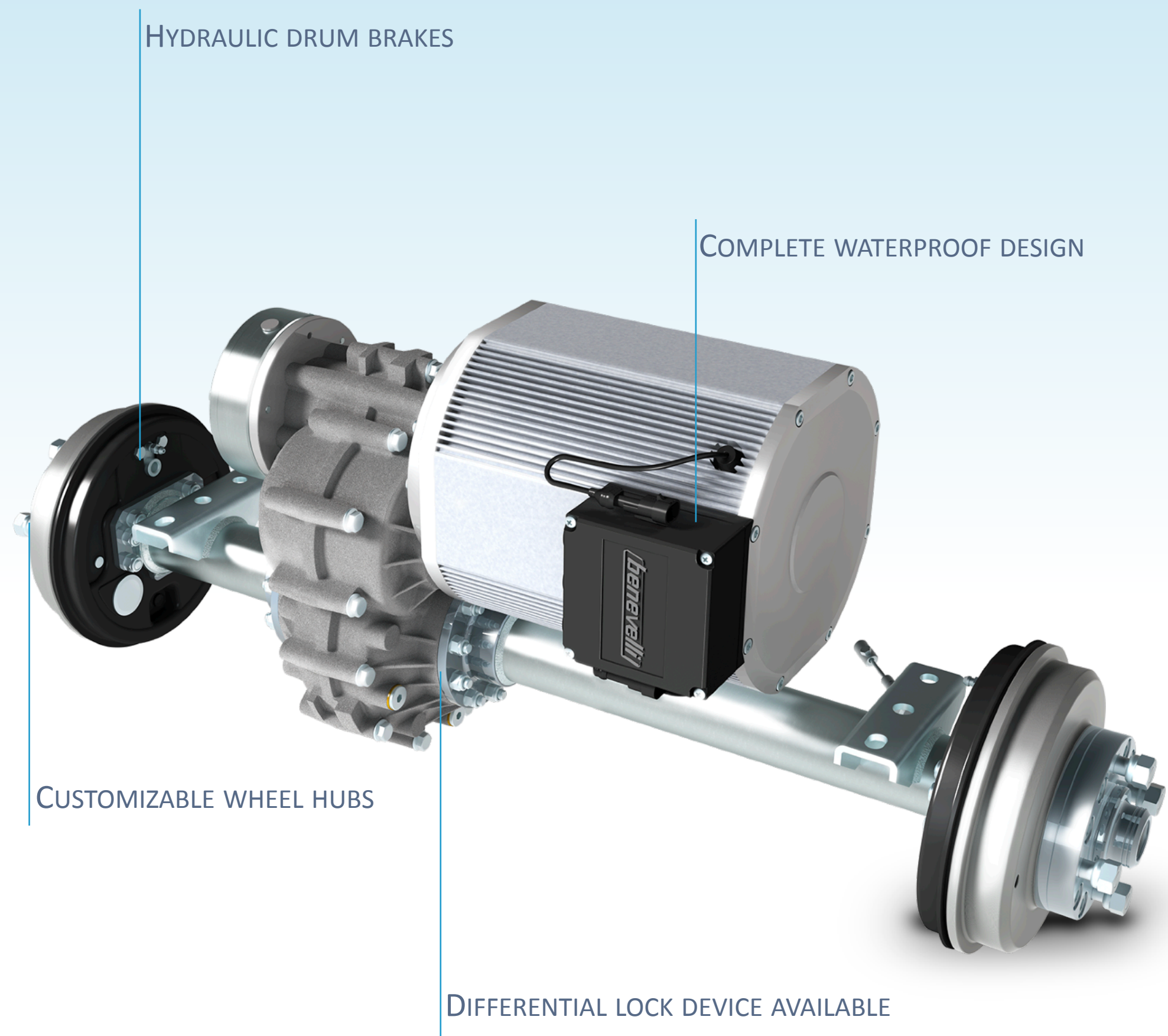


3D DRAWING



REQUEST A QUOTE

TX2 SERIE - DRUM BRAKES VERSION



GEARBOX FEATURES		
RATIOS	I	3 - 5 - 7 - 10 - 12 - 16 22 - 27 - 34 - 43 - 56 - 80
OUTPUT TORQUE	NM	1.000
STATIC LOAD	KG	1.000
TRACK-WIDTH	MM	560 ÷ 1.988
GEARBOX FINISHING		GROUND GEARS
EFFICIENCY	%	95
DIFFERENTIAL LOCK		OPTIONAL

MOTOR FEATURES		
MOTOR TYPE		AMAC - SMAC
RATED POWER	kW	3,0 ÷ 10,0
RATED VOLTAGE	V	24 ÷ 120
INSULATION CLASS		F (155°)
PROTECTION DEGREE	IP	54 ÷ 67
SERVICE BRAKING		HYDRAULIC/MECHANICAL - Nm 1.200
PARKING BRAKING		ELECTROMAGNETIC - Nm 20 ÷ 100
MANUAL RELEASE		OPTIONAL



TECHNICAL SUPPORT

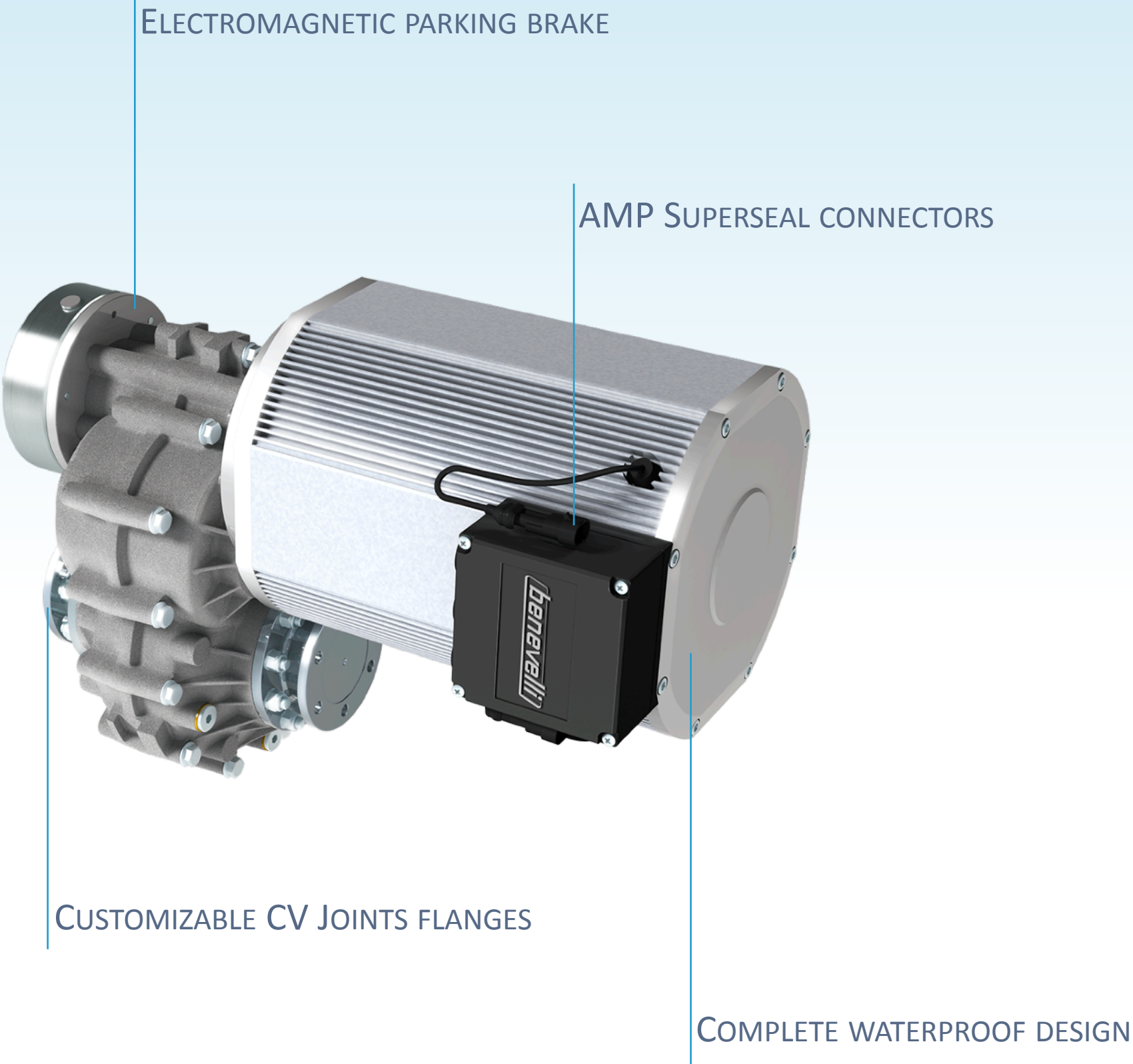


3D DRAWING



REQUEST A QUOTE

TX2 SERIE **PLUS** - CV JOINTS VERSION



Gearbox Features		
RATIOS	I	3 - 5 - 7 - 10 - 12 - 16 22 - 27 - 34 - 43 - 56 - 80
OUTPUT TORQUE	NM	1.600
INPUT SPEED (MAX)	RPM	7.200
STATIC LOAD	KG	-
GEARBOX FINISHING		GROUND GEARS
EFFICIENCY	%	95
DIFFERENTIAL LOCK		OPTIONAL

Motor Features		
MOTOR TYPE		AMAC - SMAC
RATED POWER	kW	3,0 ÷ 20,0
RATED VOLTAGE	V	24 ÷ 120
INSULATION CLASS		F (155°)
PROTECTION DEGREE	IP	54 ÷ 67
SERVICE BRAKING		-
PARKING BRAKING		ELECTROMAGNETIC - Nm 20 ÷ 100
MANUAL RELEASE		OPTIONAL



TECHNICAL SUPPORT



3D DRAWING



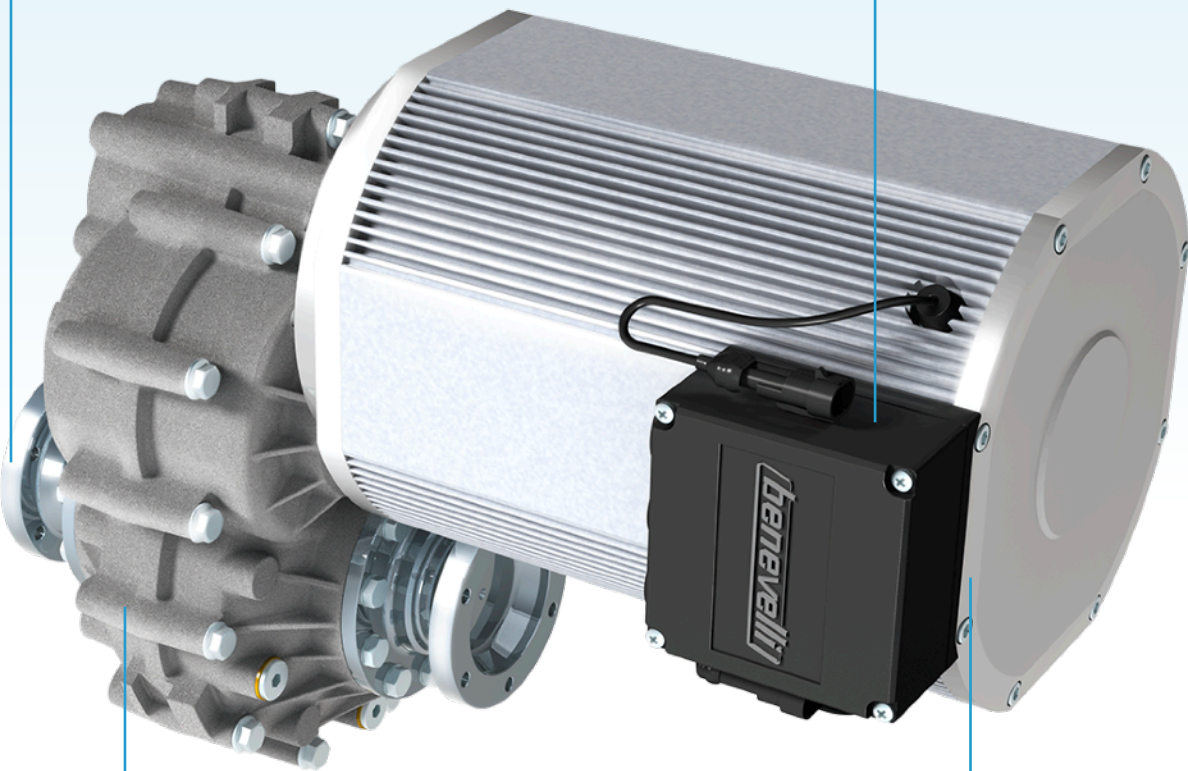
REQUEST A QUOTE

TX2 SERIE **PLUS** - 4WD TRANSFER CASE VERSION



CUSTOMIZABLE CARDAN FLANGES

AMP SUPERSEAL CONNECTORS



AVAILABLE W OR W/O DIFFERENTIAL

COMPLETE WATERPROOF DESIGN

GEARBOX FEATURES		
RATIOS	I	3 - 5 - 7 - 10 - 12 - 16 22 - 27 - 34 - 43 - 56 - 80
OUTPUT TORQUE	NM	1.600
INPUT SPEED (MAX)	RPM	7.200
STATIC LOAD	KG	-
GEARBOX FINISHING		GROUND GEARS
EFFICIENCY	%	95
DIFFERENTIAL LOCK		OPTIONAL

MOTOR FEATURES		
MOTOR TYPE		AMAC - SMAC
RATED POWER	kW	3,0 ÷ 20,0
RATED VOLTAGE	V	24 ÷ 120
INSULATION CLASS		F (155°)
PROTECTION DEGREE	IP	54 ÷ 67
SERVICE BRAKING		-
PARKING BRAKING		ELECTROMAGNETIC - Nm 20 ÷ 100
MANUAL RELEASE		OPTIONAL



TECHNICAL SUPPORT

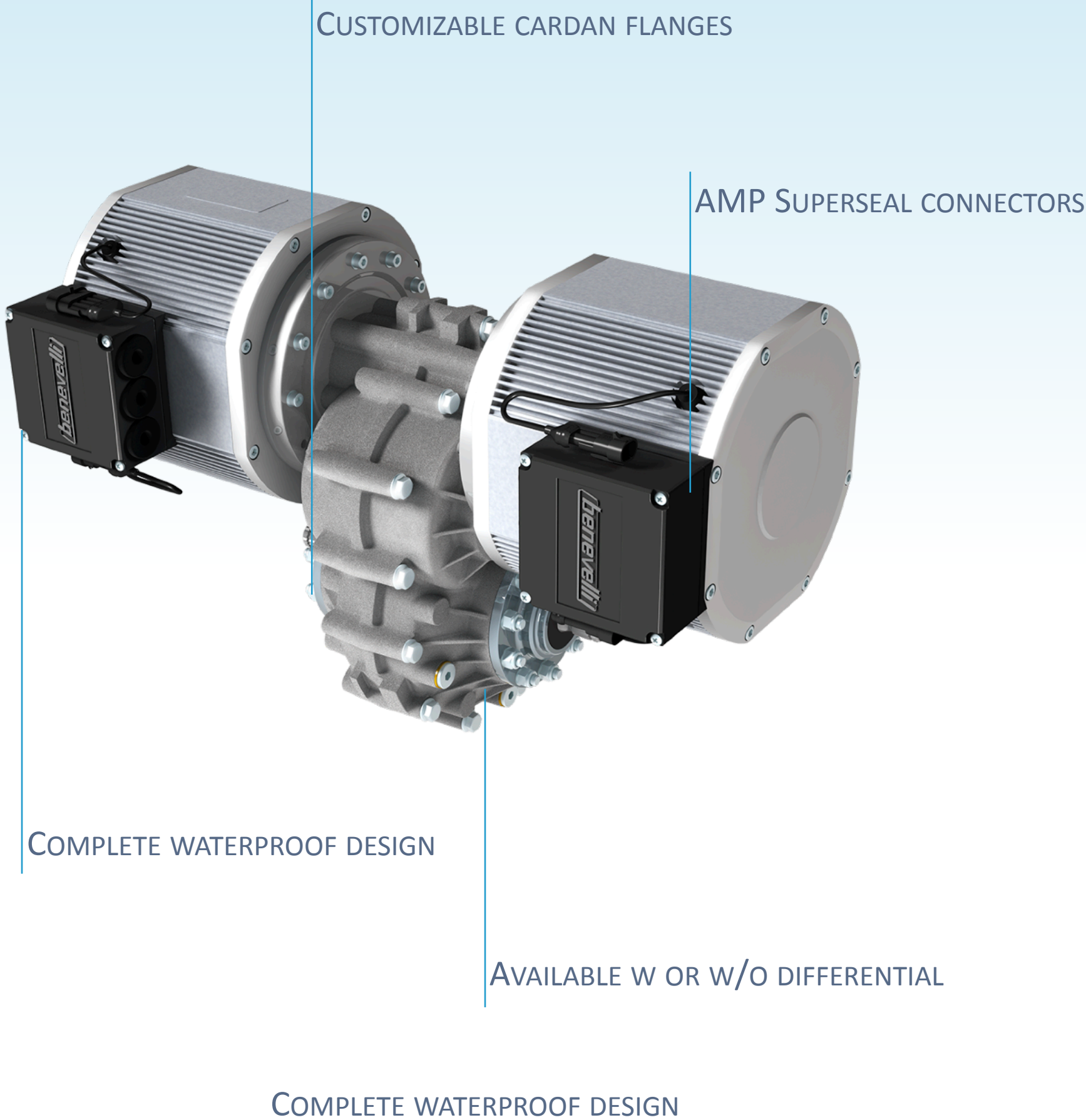


3D DRAWING



REQUEST A QUOTE

TX2 SERIE **PLUS** - DUAL MOTOR VERSION



GEARBOX FEATURES		
RATIOS	I	7 - 12 - 27 - 34
OUTPUT TORQUE	NM	1.600
INPUT SPEED (MAX)	RPM	7.200
STATIC LOAD	KG	-
GEARBOX FINISHING		GROUND GEARS
EFFICIENCY	%	95
DIFFERENTIAL LOCK		OPTIONAL

MOTOR FEATURES		
MOTOR TYPE		AMAC - SMAC
RATED POWER	kW	6,0 ÷ 40,0
RATED VOLTAGE	V	24 ÷ 120
INSULATION CLASS		F (155°)
PROTECTION DEGREE	IP	54 ÷ 67
SERVICE BRAKING		-
PARKING BRAKING		-
MANUAL RELEASE		-



TECHNICAL SUPPORT

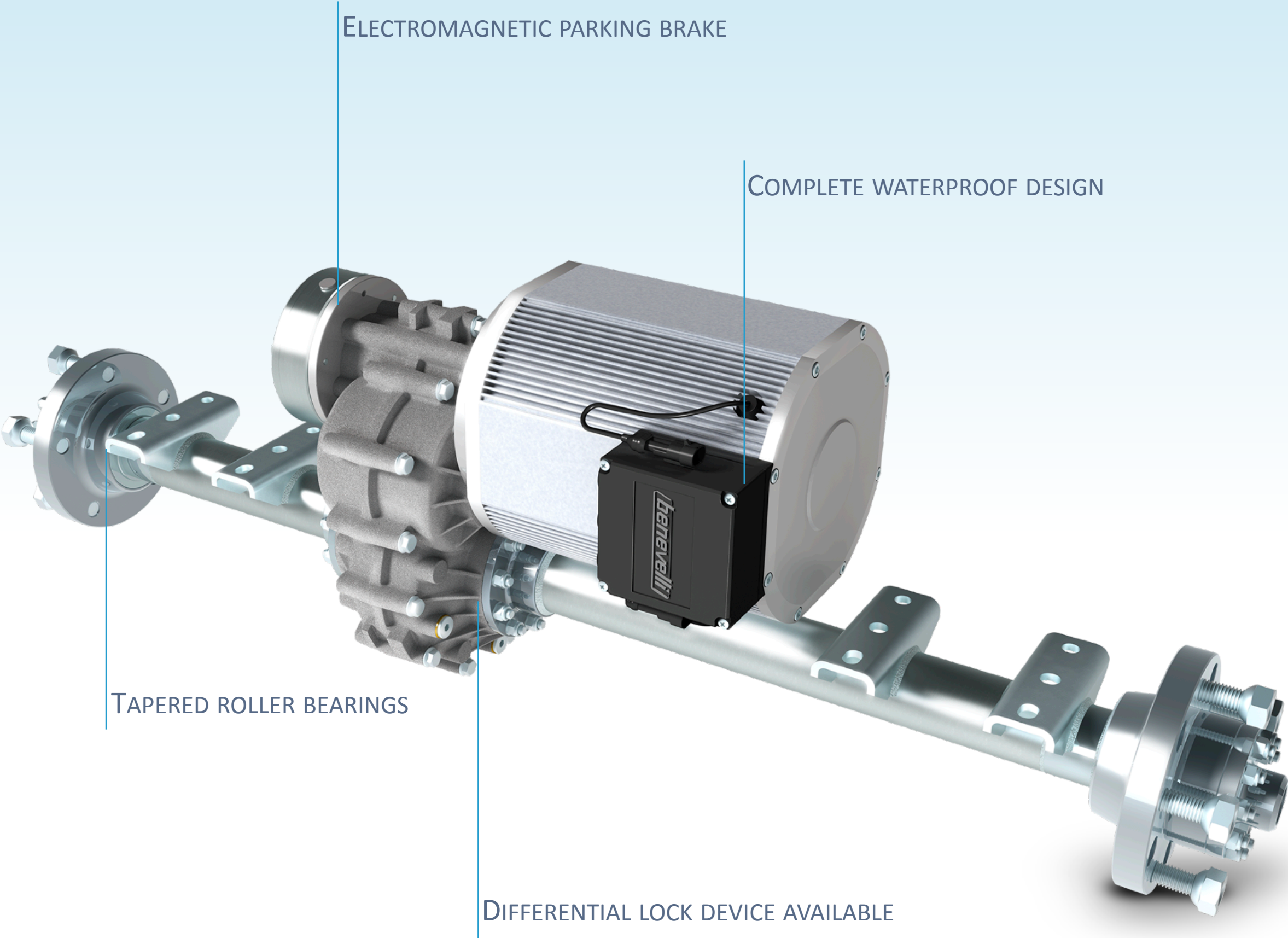


3D DRAWING



REQUEST A QUOTE

TX2 SERIE **PLUS** - WHEEL HUBS VERSION



Gearbox Features		
RATIOS	I	3 - 5 - 7 - 10 - 12 - 16 22 - 27 - 34 - 43 - 56 - 80
OUTPUT TORQUE	NM	1.600
STATIC LOAD	KG	1.600
TRACK-WIDTH	MM	560 ÷ 1.988
GEARBOX FINISHING		GROUND GEARS
EFFICIENCY	%	95
DIFFERENTIAL LOCK		OPTIONAL

Motor Features		
MOTOR TYPE		AMAC - SMAC
RATED POWER	kW	3,0 ÷ 20,0
RATED VOLTAGE	V	24 ÷ 120
INSULATION CLASS		F (155°)
PROTECTION DEGREE	IP	54 ÷ 67
SERVICE BRAKING		-
PARKING BRAKING		ELECTROMAGNETIC - NM 20 ÷ 100
MANUAL RELEASE		OPTIONAL



TECHNICAL SUPPORT

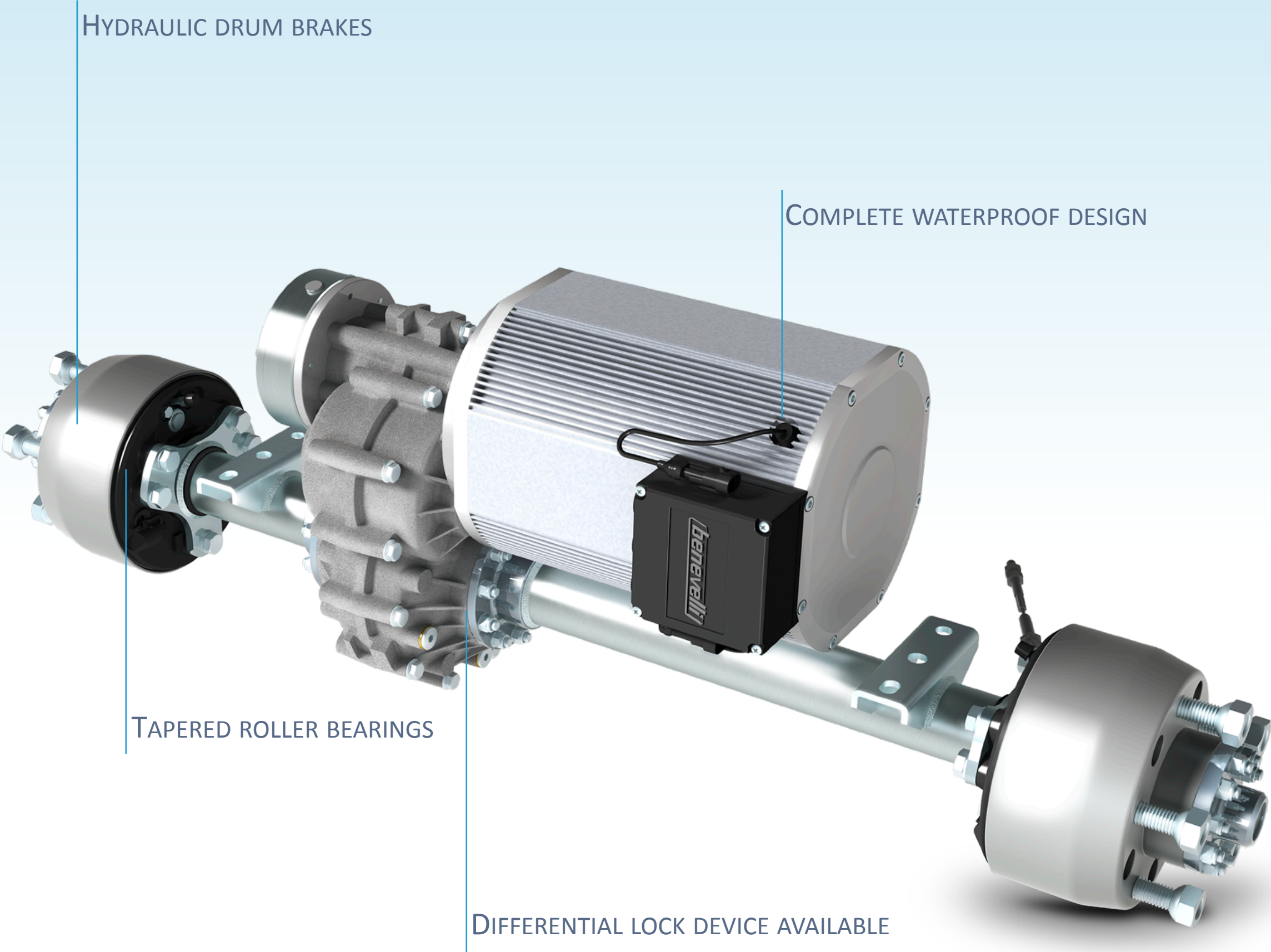


3D DRAWING



REQUEST A QUOTE

TX2 SERIE **PLUS** - DRUM BRAKES VERSION



Gearbox Features		
RATIOS	I	3 - 5 - 7 - 10 - 12 - 16 22 - 27 - 34 - 43 - 56 - 80
OUTPUT TORQUE	NM	1.600
STATIC LOAD	KG	1.600
TRACK-WIDTH	MM	560 ÷ 1.988
GEARBOX FINISHING		GROUND GEARS
EFFICIENCY	%	95
DIFFERENTIAL LOCK		OPTIONAL

Motor Features		
MOTOR TYPE		AMAC - SMAC
RATED POWER	kW	3,0 ÷ 20,0
RATED VOLTAGE	V	24 ÷ 120
INSULATION CLASS		F (155°)
PROTECTION DEGREE	IP	54 ÷ 67
SERVICE BRAKING		HYDRAULIC/MECHANICAL - Nm 3.400
PARKING BRAKING		ELECTROMAGNETIC - Nm 20 ÷ 100
MANUAL RELEASE		OPTIONAL



TECHNICAL SUPPORT



3D DRAWING



REQUEST A QUOTE



MECHATRONIC SOLUTIONS

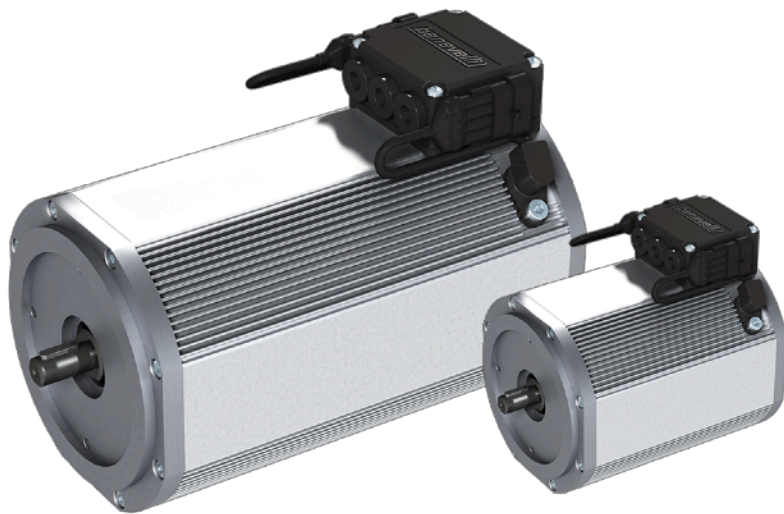
With the same philosophy that has distinguished us for 56 years, we are now able to design and build electric motors providing to customers complete mechatronic solutions.

Our motors are available in three different technologies: ACIM (AMAC Serie) and the newest PMAC (SMAC Serie) with power from to 20kW and voltages from 24 to 120V.

Entrust to our technicians to define what is the best choice for your vehicle, we will be able to better guide you by offering comparisons between the different available systems.

COMPARATIVE TABLE

	PMDC Serie	AMAC Serie	SMAC Serie
EM parking brake	✓	✓	✓
Speed encoder		✓	✓
Maintenance free		✓	✓
Noise level		✓	✓
Temp °C sensor		✓	✓
UL ready		✓	✓
High efficiency			✓
Constant torque			✓
Working Temp °C			✓



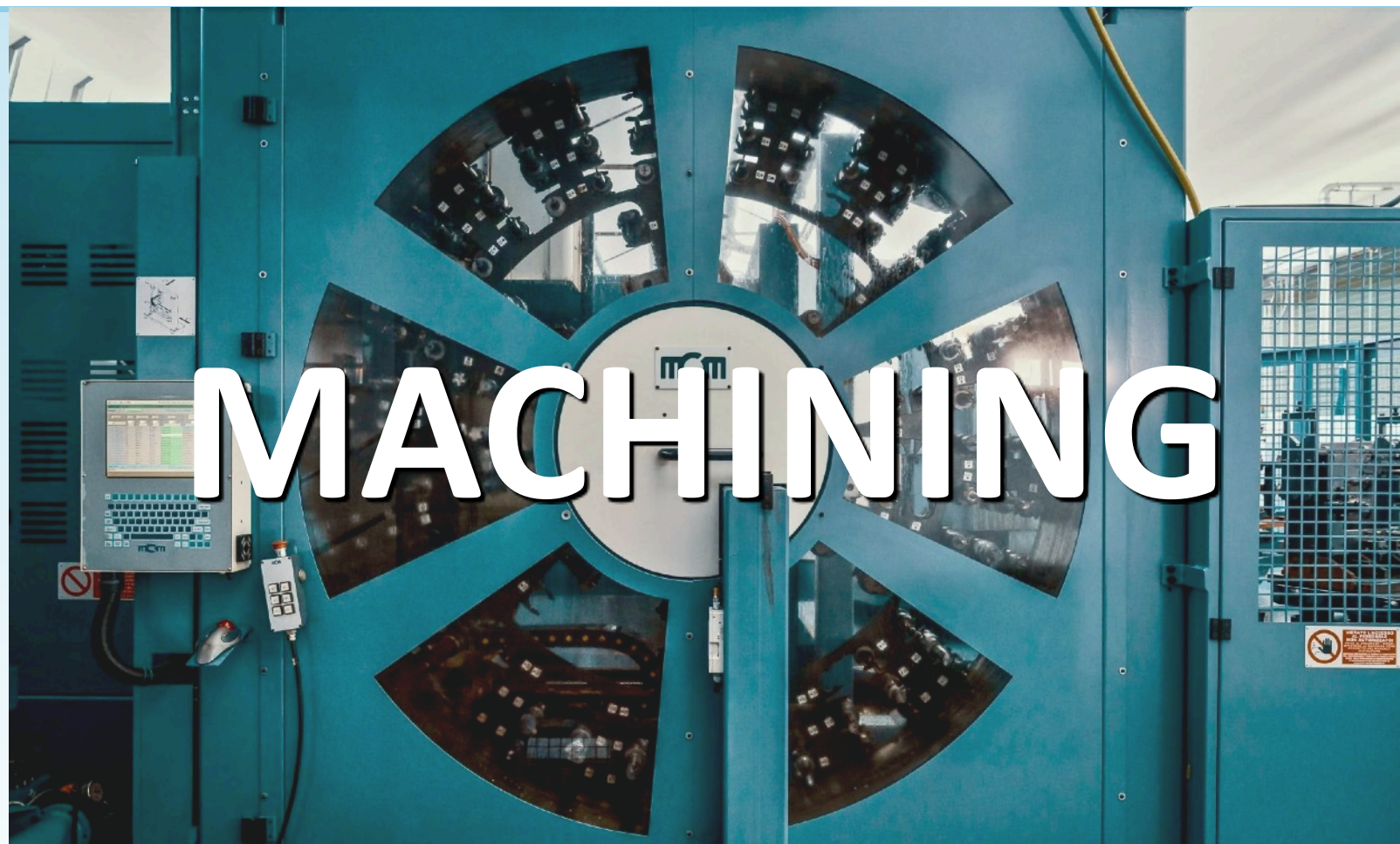
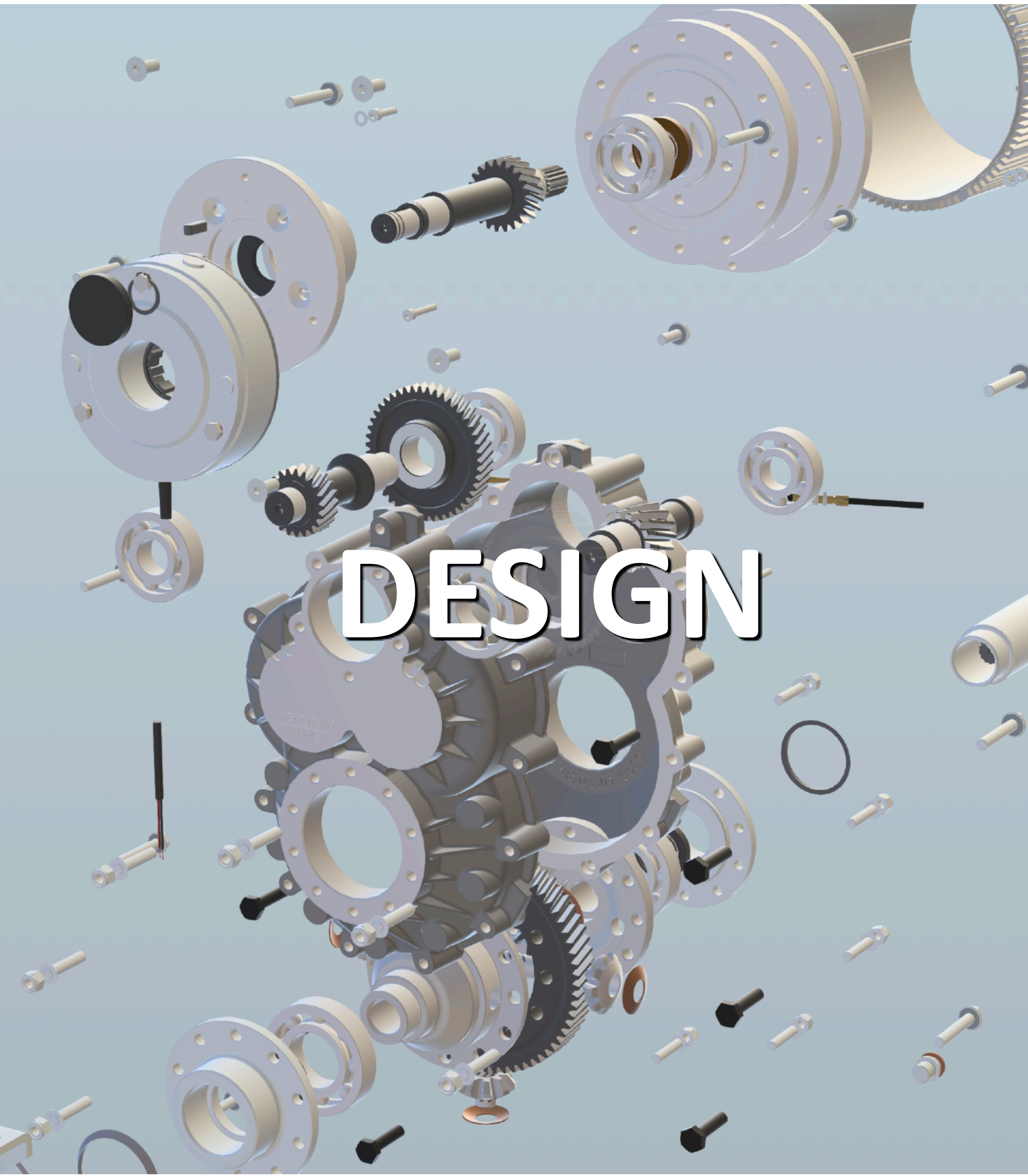
TX2 SERIE - eMOBILITY APPLICATIONS



OUR CUSTOMERS

Benevelli expertise is transferable in many industries and our projects reflect this diversity. Benevelli has experience in eMobility market and we are able to follow the electrification of your vehicles from prototype to serial production.

DRIVING THE FUTURE OF **ELECTRIC** VEHICLES



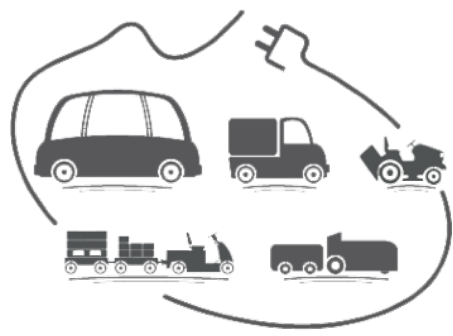
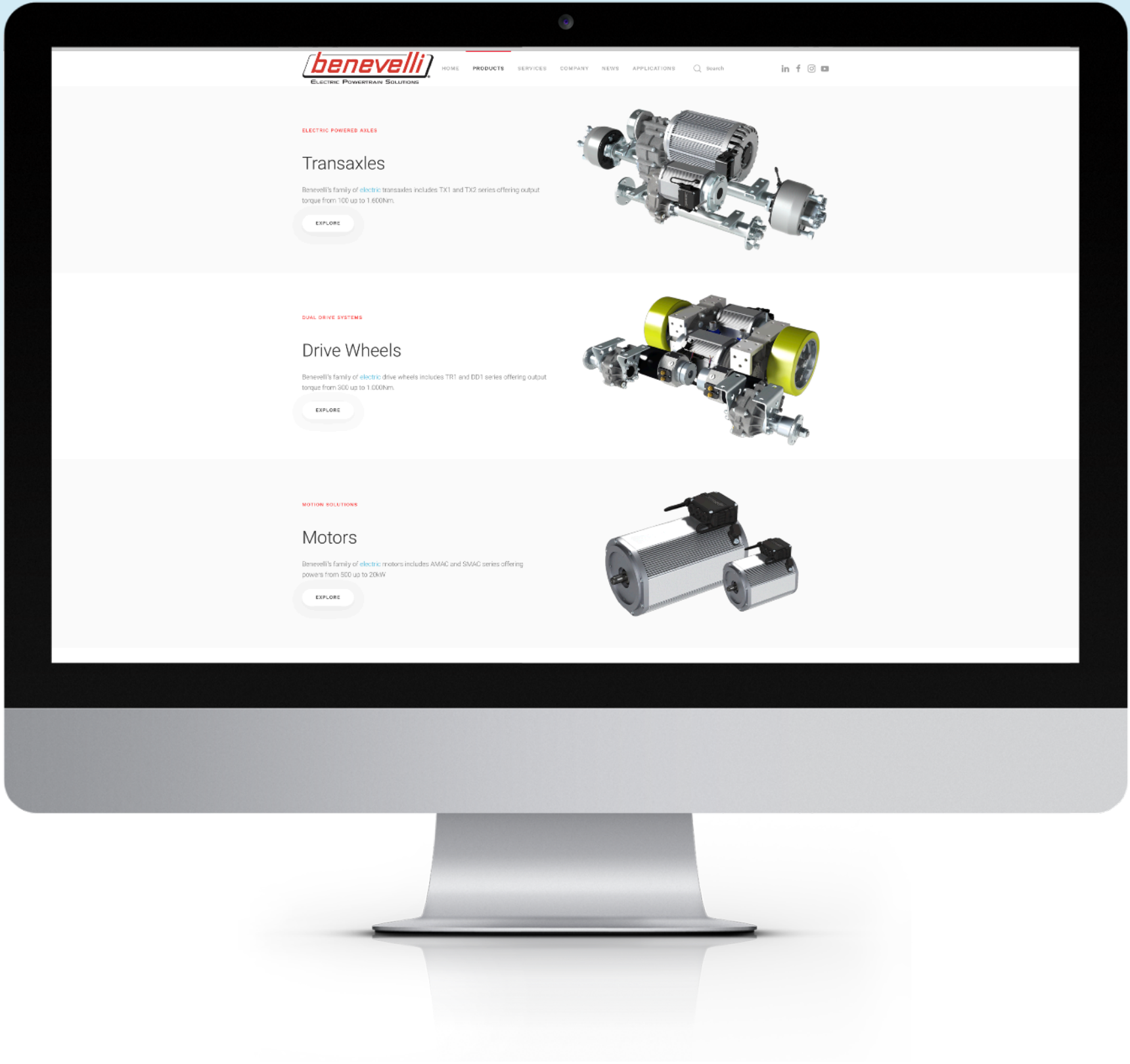
ABOUT BENEVELLI

Benevelli has been working for more than half a century manufacturing products reliable and of superior quality, creating a competitive advantage for customers. Benevelli follow 100% of production processes maintaining total control of manufactured parts and work progress.

OUR EXPERTISE DRIVES INNOVATIONS

Our team of expert engineers is ready to work with you to understand the exact functionality your equipment needs to operate at optimum capacity, and then design a solution to help make it possible.





Do you want to know more?
Visit our website or follow us clicking on below icons



via Salerno 28
42048 Rubiera RE
Italy