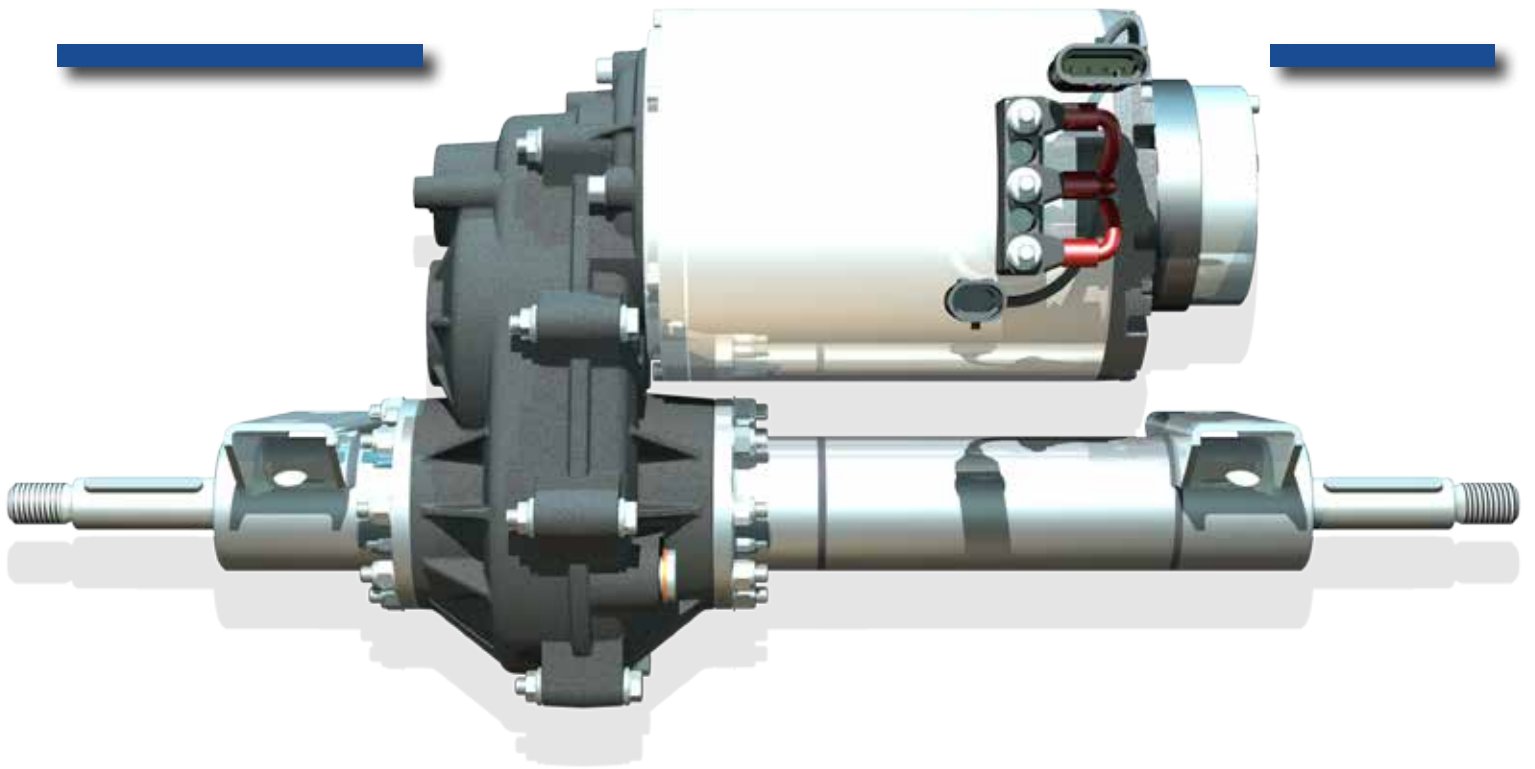


ALPATEK

BATTERY DRIVE SYSTEMS AND MOTORS



TXI^{plus} SERIES

TRANSAXLES DRIVE UNIT

AC RIGID DRIVE AXLE VERSION

TX1 AC RIGID DRIVE AXLE VERSION

Asynchronous High Efficiency Motors

The TX1 Transaxle Drive System is a complete package comprised of a reduction/differential gear assembly, rigid drive axle, AC motor and an electromagnetic parking brake. Different gear ratios, track-width, wheel hubs and differential locking system are available for customization. The main features of our products are their extremely robust structure and high quality components for a heavy duty use, every product is designed and produced in our facility, for this reason we can guarantee a strong control over quality and repeatability.

Technical Specifications

Gear Ratios	1:06 1:09 1:11 1:13 1:16 1:22 1:24 1:32
Output Torque	450Nm (332ft.lbs) Maximum
Input Speed	7200Rpm Maximum
Static Load Rating	500Kg (1100lb)
Lubrication	Oil SAE80W90 GL3 0,25Litres (0,44Pintes)
Trackwidth	From 400mm (16") up to 1150mm (45")
Braking System	Mechanical and Electromagnetic
Fixing	Mounting Brackets
Cast Housing	Aluminium/Silicon Alloy
Gears Finishing	Involute Grinding Profile
Differential Type	Bevel Gear
Efficiency	95%
Motor Type	Asynchronous
Motor Rated Power	From 0,8kW up to 1,5kW
Motor Rated Voltage	From 24V up to 48V
Motor Insulation	Class F 155°C (311°F)
Braking System	Electromagnetic Brake
Braking Torque	From 4Nm up to 20Nm



TXI AC RIGID DRIVE AXLE VERSION

Gears Finishing

Hardened alloy steel gears with involute grinding profile ensure maximum efficiency and low constant noise level

AC Motor

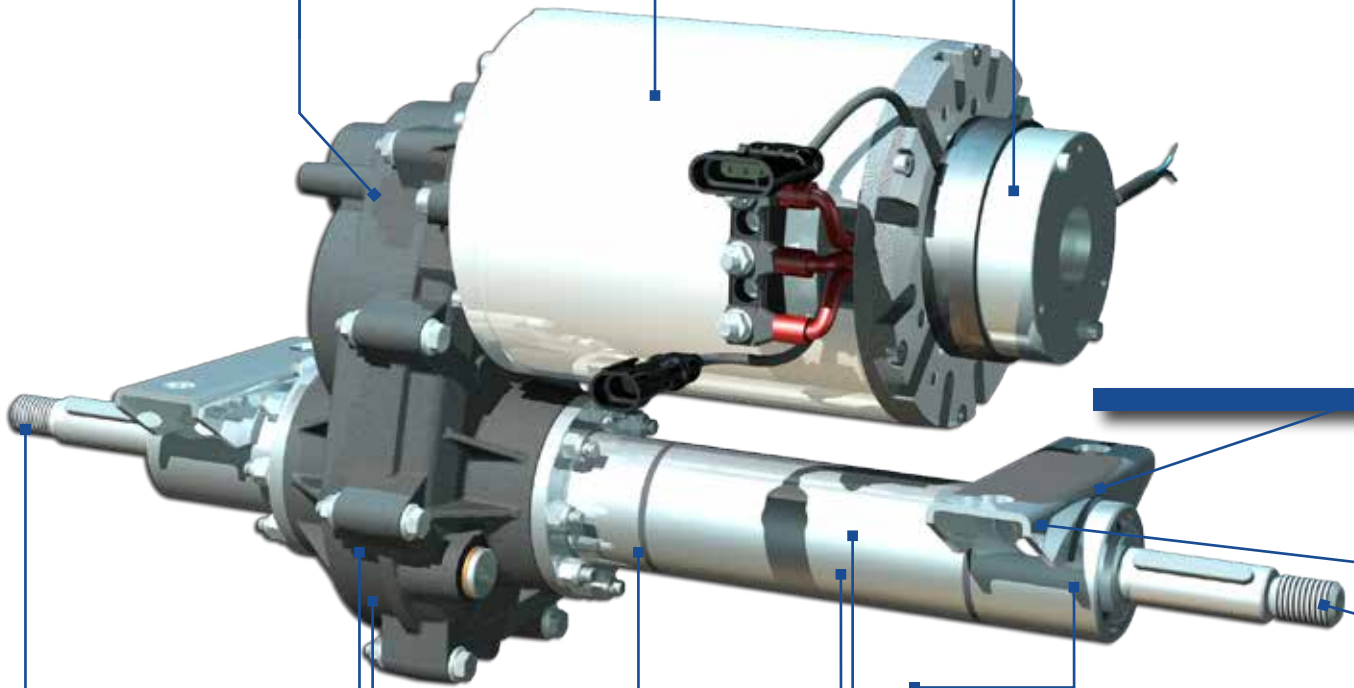
High Efficiency Aluminium built-in motor designed for traction use. It includes temperature sensor and speed encoder.

EM Brake

Available with several braking torques, it slow and stop transaxle motion. Hand release available on demand

Mounting Position

Six (6) standard mounting position (tilt on Z axis from 0° to 180°) gives to transaxle several installation possibilities



Wheel Fixing

Several keyholed standard drive-shafts (metric and inches sizes) for direct wheels flanging. Customized versions on demand

Weldings

Welding operations are performed by robots ensuring the highest safety criteria (TÜV certified EN ISO 15614:2012)

Wheel Bearings

Angular contact double row bearings & splined driveshafts allow use of transaxles in intensive conditions



Lubrication

All our products are supplied "ready to use" with adequate quantity and quality lubricating oil

Rigid Axle

Drawn tubes 51mm diam. & 7,5mm thickness are heavily installed with built-in studs on gearbox housing

Track-Width

Five Hundred adjustable standard trackwidth available from 400mm up to 1150mm (flange to flange)

Gearbox Casting

Compact and rugged Aluminium alloy gear housing minimizes weights adding strength thanks to the new "Heavy Duty" design

Finishing

All metallic parts are subjected to long life galvanizing treatment (zinc coating) to withstand the corrosive agents aggression

Chassis Fixation

Several standard mounting centres available, other mounting options can be developed on demand