

BODAS-drive eDA

Control solution for hydrostatic drivetrains



At Bosch Rexroth we make no excuses when it comes to the drive performance of our customer's machines.

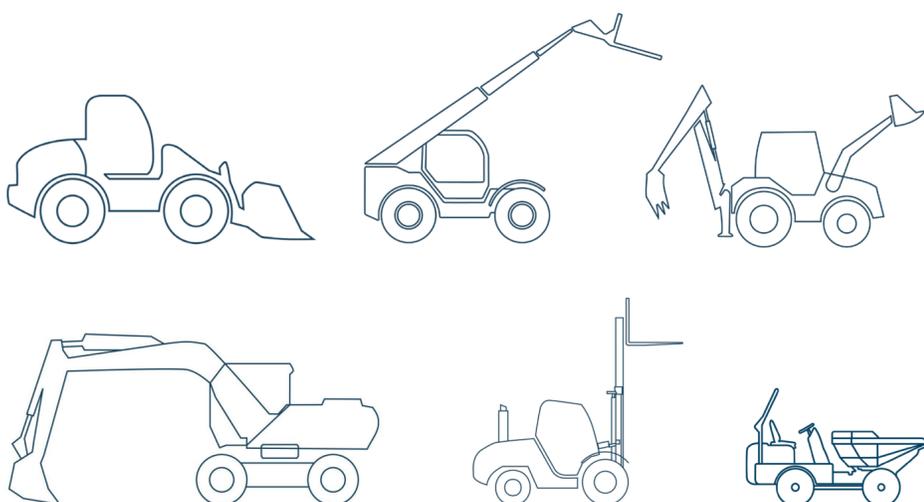
With the BODAS-drive eDA software, Bosch Rexroth offers a ready-to-use and scalable solution to control hydrostatic travel drives and boost their performance and efficiency thanks to the electronic control of our hydrostatic units.

BODAS-drive eDA is particularly suitable for wheeled vehicles such as wheel loaders, telehandler, dumpers or forklifts in all their power classes.

CUSTOMER BENEFITS

- Ready-to-use and scalable control solution
- Easy integration on machine-level
- Modular software concept for efficient, customer-specific adaptations
- Integrated safety functions according to EN ISO 13849
- CORE and PREMIUM functions to boost the performance of your machine
- Expansion Packs to support additional gearbox solutions
- Highly efficient due to electronified hydraulics
- Try It First: Develop your perfect machine solution in 3 steps

APPLICATIONS



FUNCTION AND BENEFITS

Easy integration on machine-level

BODAS-drive eDA is a software solution embedded in the Rexroth eDA controller. In combination with BODAS-service, the graphical interface enables easy integration into the vehicle and provides valuable application hints for guided commissioning. A clearly structured step-by-step optimization of the drive is guaranteed. Algorithms automatically define most of the parameters. This reduces complexity during commissioning.

Modular software concept for efficient, customer-specific adaptations

The software structure is open and simplifies efficient customer-specific adaptations. In combination with the wide Rexroth portfolio of pumps, motors and BODAS RC controllers, BODAS-drive eDA is fully scalable. Each operator device can either be hard-wired to the Rexroth controller or provides the signal via CAN, based on the SAE J1939 standard. Thanks to the standard functions of BODAS-drive eDA, unnecessary programming is a thing of the past.

Integrated safety functions according to EN ISO 13849

BODAS-drive eDA is a so called "Safety Element out of Context". This means, the software is developed using a generic approach and ready-to-use safety functions according to the standard EN ISO 13849.

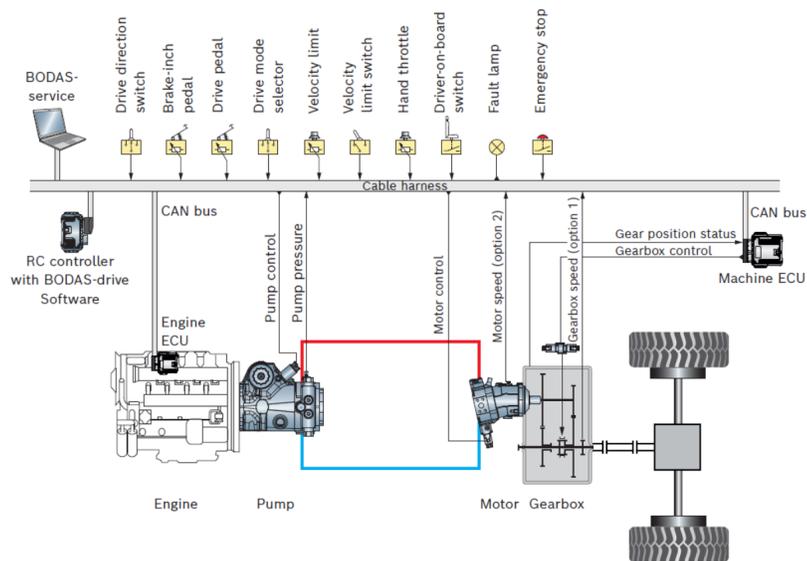
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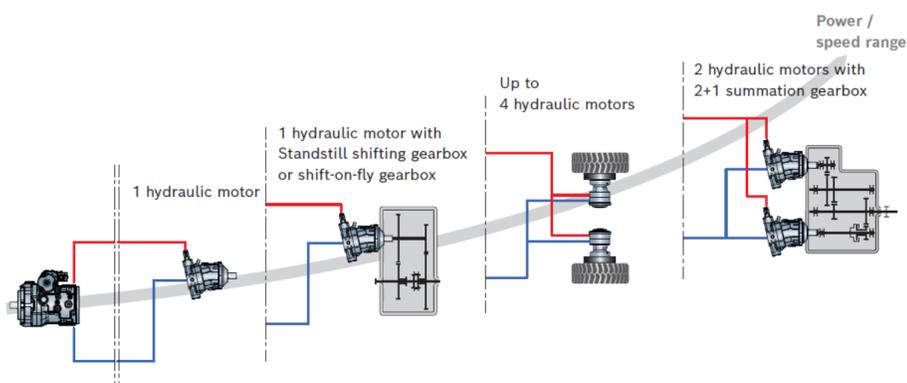
TECHNICAL DATA

BODAS-drive eDA

Engine:	Mechanical or CAN SAE J1939
Hydraulic drive units:	Pump: A4VG or A10VG with BT control Motor: A6VM with EP control
Rexroth sensors:	Pump Pressure: 2x PR4 SENT Motor speed: DST or DSA2
Operator interface:	Discrete or CAN SAE J1939
Rexroth controller:	RC5-6/40
Safety standards:	EN ISO 13849, ISO19014-4 and ISO 25119
Variants:	CORE and PREMIUM
Diagnostics:	BODAS-service or CAN SAE J1939 (UDS)
Data sheet:	95316



Example system overview BODAS-drive eDA PREMIUM



Supported systems with BODAS-drive eDA expansion packs

A sophisticated software monitor separates standard functions from safety functions, allows independent modifications and reduces the effort for verification and validation. This makes BODAS-drive eDA important for efficient machine safety.

CORE and PREMIUM functions to boost the performance of your machine

The BODAS-drive eDA is delivered in its CORE version which comprehends all the required functions to successfully control your machine and enjoy all the possibilities given by the electronic control of the hydrostatic transmissions.

In addition, a complete set of configurable PREMIUM functions can be activated to increase the driving performance and the efficiency of the machine.

Expansion Packs to support additional gearbox solutions

In addition to the standard hydrostatic transmission (one pump and one motor) eDA can now control more sophisticated systems, as dual gear gearboxes with Shift on Fly function or dual motor solution for higher power classes.

These solutions are offered as add-on modules which can be easily integrated in the core software with a practical integration guideline.

Highly efficient due to electrified hydraulics

BODAS-drive eDA provides in combination with the latest generation of the fully electrified Rexroth A4VG variable displacement pump and the variable displacement motors A36VM and A6VM a safe, efficient and powerful machine operation.

Try It First: Develop your perfect machine solution in 3 steps

1. Get easy access: Download Try It First software packages free of charge.
2. Customize Software: Test and adapt functions according to your needs.
3. Pay only what you decide to use – via credits.

EXPLORE MORE



BODAS-drive eDA

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