

ECODRIVE'S NEW PACKAGE SOLUTIONS

To simplify the process of selecting the correct EcoDrive options, we have put together several packages. These packages are made up of options that are required for certain types of work. Provided below are a few examples of these packages:

• Fast Drive Package – this package is intended for customers that require extra fast operations. It provides significant gains in terms of productivity and load handling.

The Fast Drive Package includes the following options:

- 14. FAST DRIVE SYSTEM – FDS
- 15. FAST DRIVE SYSTEM PLUS – FDS+
- 16. FAST TIPPER SYSTEM – FTS
- 17. FAST LOWERING SYSTEM – FLS
- 18. FAST LOWERING SYSTEM PLUS – FLS+

• Technical Package – this package is intended for customers that require simplicity and effectivity in their daily operations. It is ideal for customers that want to utilize the latest technology.

The Technical Package includes the following options:

- 19. POSITION MEMORY SYSTEM – PMS
- 21. AUTOCYCLE SYSTEM – ACS
- 22. CONTAINER MEMORY SYSTEM – CMS
- 23. ADJUSTABLE HYDRAULIC FLOW – AHF

• Asphalt Base and Asphalt Premium both include several options specifically designed to simplify the work of asphaltting. For further information regarding these two packages, contact your local sales representative.



Improvements for you as a customer

Environment and economy

- » Reduced energy consumption
- » Less fuel consumption
- » Less environmental impact
- » Cost-effective
- » Easier to post-supplement with functions thanks to smart modular construction

Efficiency

- » Even more stable when tipping
- » 50% faster lowering function as well as backwards shunting
- » Safer and faster hydraulic system
- » Faster and more efficient load handling
- » Optimised hook shape

User-friendliness

- » Better operational precision
- » Smooth and comfortable operation
- » Smoother precise movement pattern
- » Easier trailer connection
- » Smoother and safer lock function
- » More stable and safer tipping and lowering function
- » Facilitates shunting from trailer, tipping restriction in tunnels and retrieval from hills
- » Excellent for spreading gravel and driving to asphalt pavers
- » Increased safety

Service and increased product service life

- » Less hook lift and bed load
- » Optimised design, which provides better surface treatment
- » Longer service interval for the pump
- » Easy access to road side assistance (Service Online System – SOS)
- » Reduced risk of downtime
- » Customer assurance
- » JOAB is with you all the way

What is EcoDrive?

All moving machines have always worked in a similar way – an engine that combusts fossil fuel converts its energy into motion through either direct mechanical movements or hydraulic movements.

Our patented EcoDrive allows us in practice to use all available kinetic energy and safely control this movement. This reduces the pump's working hours by up to 70%.

EcoDrive performs a large part of the machine's movements using the load it carries and is completely self-optimizing and without calibration.

JOAB is a leading company within the truck bodybuilding industry, with over 50 years' experience. We develop, manufacture, market and sell skip loaders, hook lifts, the Cameleont™ swap system and RCVs. JOAB is also an exclusive distributor of HMF cranes in Sweden and Finland. We operate in the Nordic countries and export to Austria, Switzerland and the Baltic countries, among others.

Our customers are private and municipal recycling contractors, hauliers, truck manufacturers, truck dealers and other bodybuilders who want proper products and exemplary available service.

Interested? Contact us or your nearest dealer!

JOAB
With you all the way

Faster, lighter and
smarter



Model program

L18	L24
L18A	L24A
L21	L27
L21A	

JOAB
EcoDrive

FUNCTIONS

STANDARD FUNCTIONS

1. ECODRIVE LOAD HOLDING – ELH

A great feature is our new load-holding-valve (patent pending). It gives energy savings of up to 70% as all available kinetic energy is used to control the load. The load holding valve also has integrated safety features such as fastclosing hydraulic valves for emergency stops and fewer components that can fail.

2. INTELLIGENT PUMP CONTROL – IPC

The system senses when the pump needs to be activated, which means that the pump only activates when power is needed.

3. ECODRIVE PRESSURE CONTROL – EPC

Intelligent pressure control means that the system always works with optimal hydraulic pressure. Depending on which function is activated, the system will ensure that the optimal pressure is supplied. The system is self-calibrating and can operate from 50–350 bar. Pressure control shortens the response time.

4. SMARTLOCK SYSTEM – SLS

The hydraulic locks activate steplessly and sensors detect when the locks are sufficiently open. When the locks close, the system ensures that the body is centred automatically.

5. ELECTRONIC CYLINDER DAMPING – ECD

Integrated electronic end-position-damping for all cylinders provides smoother and more responsive movements at end positions.

6. ELECTRONIC SPEED CONTROL – ESC

Speed-adjusted movement sequences of the hook lift in the outer motion areas facilitates usage.

7. ECODRIVE TIPPER MODE – ETM

Tipper function is activated in tipper mode, which means you can lower the bed at the push of a button. The bed is automatically lowered at a controlled speed and safety is maintained.

8. FRICTION FREE DRIVE – FFD

Automatic frictionless drive of the bed. Built-in rollers in the auxiliary lifting arms ensure that the bed is moved forwards smoothly. This reduces the strain placed on the hook lift.

9. TIPPER SAFETY SYSTEM – TSS

Weight based auxiliary lift damping assists the hook lift and bed. Integrated flow distributors provide a safer tipping and lowering function. The auxiliary lifting arms ensure that the bed is retracted in a smooth and comfortable way.

10. TRAILER SAFETY TIPPER – TST

With the EcoDrive system you can lower your trailer even if the pump is switched off. This function also monitors the speed of the vehicle. If it detects that the vehicle is moving faster than 50 km/h, the trailer is automatically lowered*. This reduces the risk of damage. In addition to that, there will never be any pressure in the trailer tipper outlet on the vehicle when connecting quickconnectors.

11. TRAILER FAST LOWERING SYSTEM – TFS

The tipper trailer function is up to 50% faster in lowering mode. Optimised hydraulics provide more space for the oil to flow faster and lower the trailer.

12. DECENTRALISED HYDRAULIC SYSTEM – DHS

The EcoDrive system is modular-based, which means 30% fewer hydraulic components. This also reduces the response time for functions. At the same time, it is very easy to expand the system with new modules, e.g. plow hydraulics or other external functions.

13. JOAB CONNECT

All EcoDrive hook lifts are connected, which allows for upgrade of software and remote support services.

OPTIONAL FUNCTIONS

14. FAST DRIVE SYSTEM – FDS

Intelligent stepless fast drive gives faster shunting. The system senses the weight of the load and adjust the speed accordingly, guaranteeing smooth and fast operation.

15. FAST DRIVE SYSTEM PLUS – FDS+

Fast drive loading with intelligent load sensing. The system identifies whether it is safe to activate fast drive back. If the system considers the cylinders to be powered from the load, the pump will be shut off and a controlled free lowering of the body will occur. The FDS+ package includes FLS+.

16. FAST TIPPER SYSTEM – FTS

Intelligent stepless fast tipping. The system is load sensing and identifies the optimal speed for the tipping operation.

17. FAST LOWERING SYSTEM – FLS

Fast lowering with intelligent speed compensation allows the driver to lower the body empty or loaded.

18. FAST LOWERING SYSTEM PLUS – FLS+

50% faster lowering system for drivers who want even faster response.

19. POSITION MEMORY SYSTEM – PMS

The function allows recording of two memory positions for end positions, for example, collecting containers from the ground trailer.

20. ACTIVE FLOW CONTROL – APC

Uses the same portable control panel as for the hook lift. For example, stepless drive for all plow functions, and adjustable slat flow for high speed spreaders. The system is designed for both variable and fixed flow. Automatic function raises the plows when reverse is engaged. Stepless function is achieved even with radio control (option).

21. AUTOCYCLE SYSTEM – ACS

The autocycle function with adjustable end limit positions. The entire operation is performed by simply pulling the joystick back or forward.

22. CONTAINER MEMORY SYSTEM – CMS

You can save two memory positions for short bed lengths.

23. ADJUSTABLE HYDRAULIC FLOW – AHF

The flow of oil to a trailer tipper outlet can easily be adjusted using the display. For example, when working with ramps on machine trailers. The display clearly shows the set flow rate.

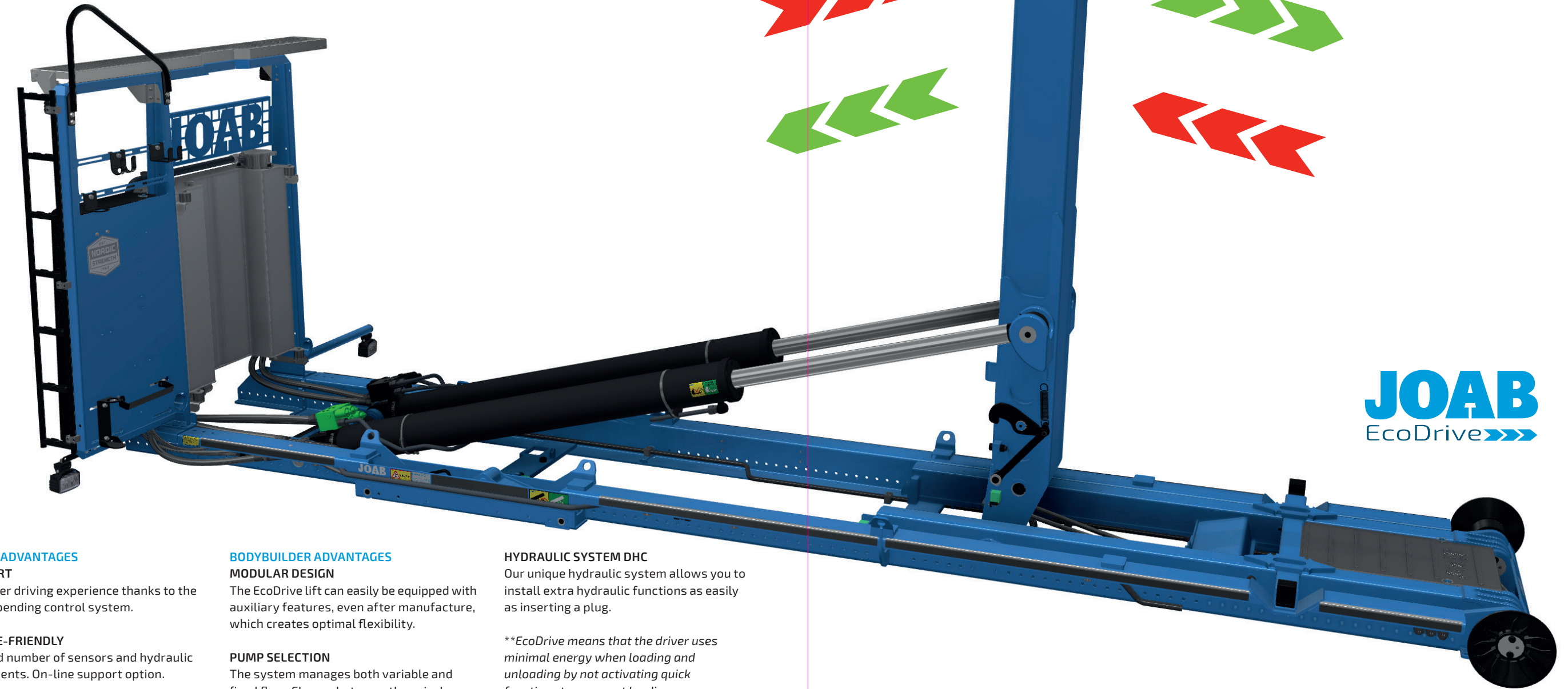
24. SERVICE ONLINE SYSTEM – SOS

Use SOS to post-supplement other functions and services. Contact your local dealer for more information.

*Requires CAN-connection.

EcoDrive

– easy on the environment
and the wallet



DRIVER ADVANTAGES

COMFORT
Smoother driving experience thanks to the patent pending control system.

SERVICE-FRIENDLY
Reduced number of sensors and hydraulic components. On-line support option.

ECONOMY AND ENVIRONMENT
EcoDrive** gives you an energy saving of up to 50% compared to competing hook lifts. One year of EcoDrive use gives up to 9200 kg less CO₂, which corresponds to 3000 litres of diesel.

SAFETY
No unwanted motions thanks to the monitoring hydraulic functions and the two circuit system.

STEEL CONSTRUCTION
Increased rigidity and tipping stability. Reduction by up to 150 kg in weight. Refined design gives optimal surface treatment.

BODYBUILDER ADVANTAGES

MODULAR DESIGN
The EcoDrive lift can easily be equipped with auxiliary features, even after manufacture, which creates optimal flexibility.

PUMP SELECTION
The system manages both variable and fixed flow. Change between these is done with one simple operation.

PLUG AND PLAY
Our new system does not require a computer to be started or calibrated.

CAN GATEWAY
The system manages all major chassis brand's CAN-interfaces and self-adjusts. This saves time when connecting chassis functions such as start/stop, manual throttle etc.

HYDRAULIC SYSTEM DHC
Our unique hydraulic system allows you to install extra hydraulic functions as easily as inserting a plug.

****EcoDrive means that the driver uses minimal energy when loading and unloading by not activating quick functions to carry out loading.**



NEW CONTROL PANEL

JOAB EcoDrive model program

JOAB L18

JOAB L24

JOAB L18A

JOAB L24A

JOAB L21

JOAB L27

JOAB L21A