

Electric forward facing seat/ Three-in-one forklift EFX 410/413.

1000 and 1250 kg capacity.



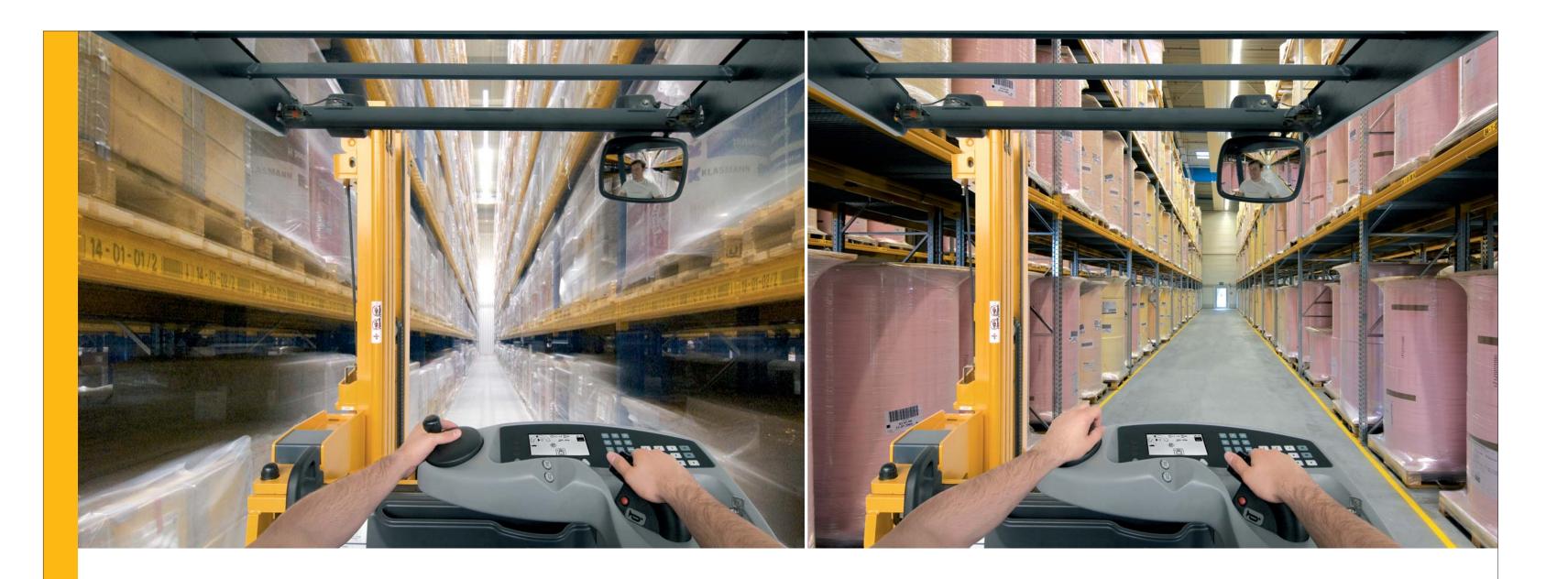
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Narrow aisle – wide aisle – free path.

The truck concept for flexible operation.

design offers a flexible solution for com- from the floor. The Jungheinrich EFX bined use in narrow aisles, wide aisles offers maximum flexibility and efficiency as well loading areas. The forward facing for lift heights up to 7000 mm. seat and the Tri-Lateral mast arrangement

The EFX 410/413, built with a modular allows the load to be picked up directly

floor space with high lift heights. Ad- out of these advantages. Its perform-

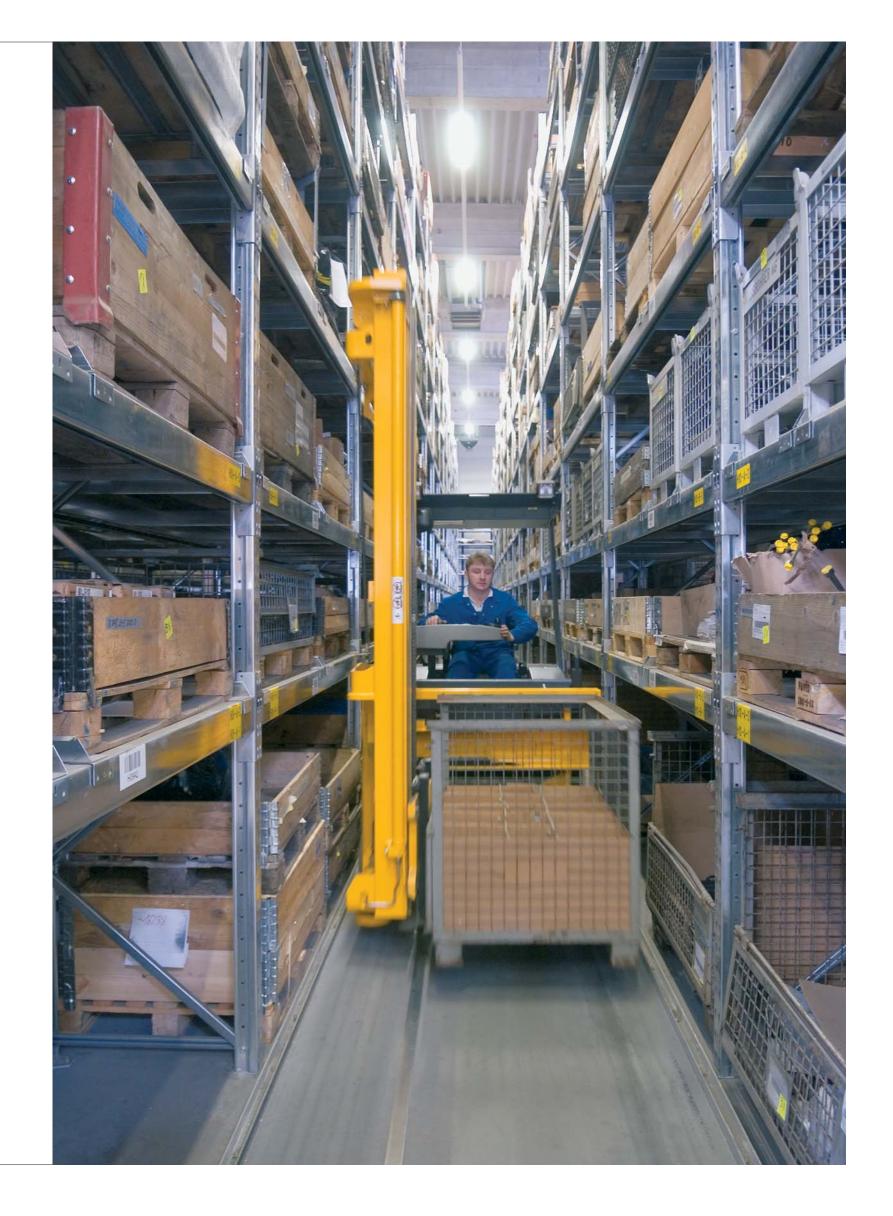
- Good space utilisation.
- Direct access to each pallet space.
- FIFO-principle easily achieved.

ance guarantees a good combination between racking and floor and creates the best conditions for producing high throughput rates.

3 ways. 2 Lifting capacity classes. 1 range.

The modular approach for the low lift narrow aisle trucks.







Advantage: All motors with 3-phase AC technology.

Drive your performance higher and your operating costs down!

3-phase AC technology has been proven time and time again

3-phase AC technology is a type of current generated from the normal power operate much more efficiently, reliably forklifts. The omission of direction con- 3-phase AC technology. and are more cost-effective.

Jungheinrich has made battery-powered forklifts

"fit for 3-phase AC technology"

At the beginning of the 90s, Jungheinrich tactors and carbon brushes means as supply, proven time and time again in all succeeded in converting dc into ac in a well as the increase in performance areas of industry. The 3-phase AC tech- cost-effective way by using high per- there is a significant reduction in opernology motors are characterised by a formance frequency converters and thus ating costs for order pickers and high significantly reduced number of compomade the advantages of 3-phase AC rack stackers. Today, all main categories nents and moving parts. AC motors technology usable for battery-powered of Jungheinrich trucks are equipped with



All motors with 3-phase AC technology

The results of the EFX in using 3-phase AC technology for drive, lifting and steering motors is; higher productivity rates due to higher speed and strength in high starting torques, even at low revs.



- 1 Steering motor 2 Driving motor 3 Lifting motor



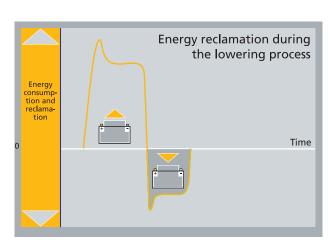
Advantage: Increase customer profitability.

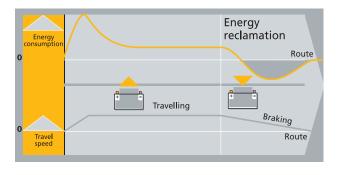
While at the same time reducing budgets and costs.

Energy efficiency due to an energy recovery system

During both the lowering of the forks and wear-free deceleration inductive

braking, energy is returned to the bat- This lowers energy costs and prolongs tery. The energy gained in this way is the life of the battery. available for the next operational current demand in lifting or for travelling.





Good heat balance through optimised control modes

Due to the laws of physics, heat sources always cause energy loss. Jungheinrich has reduced this to a minimum by the use of 3-phase AC technology.



The Advantages:

- Significantly reduced heating of motors through lower revs
- Low increase of hydraulic oil temperature through throttle-free valve technology
- Loss of passive hydraulic oil cooling via steel tanks by using corrosion free plastic tanks
- Further reduction of energy consumption

Matched batteries and chargers

More energy through synergy. Following this motto, Jungheinrich offers forklifts, batteries and chargers from a single source. A system that suits your requirements 100 percent.

Your advantage: maximum use of your trucks, added energy when needed and cost effectiveness. This is more economic for batteries and also budgets.

1 Hydraulic drive 2 Valve block 3 Plastic tank







Advantage: High reliability.

AC-Drive controller

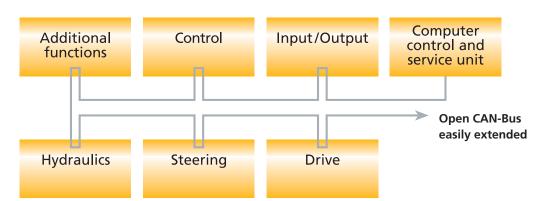
The new Jungheinrich AC-drive controller combines the three basic functions hydraulics, control and travelling into one single unit.

The Advantages:

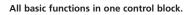
- Powerful, effective control through optimised efficiency
- Maximum reliability through an ideal interaction between controller and drive components
- Maximum serviceability through an easily exchangeable interface card

CAN-Bus-control for safe data transfer

Hardly any other technology has influenced the information exchange between on-board forklift components more strongly than CAN-Bus. All sensors communicate with the on-board computer via simple data lines. Quality, speed and flexibility in data transfer via CAN-Bus makes the use of the EFX as safe and reliable as never before.

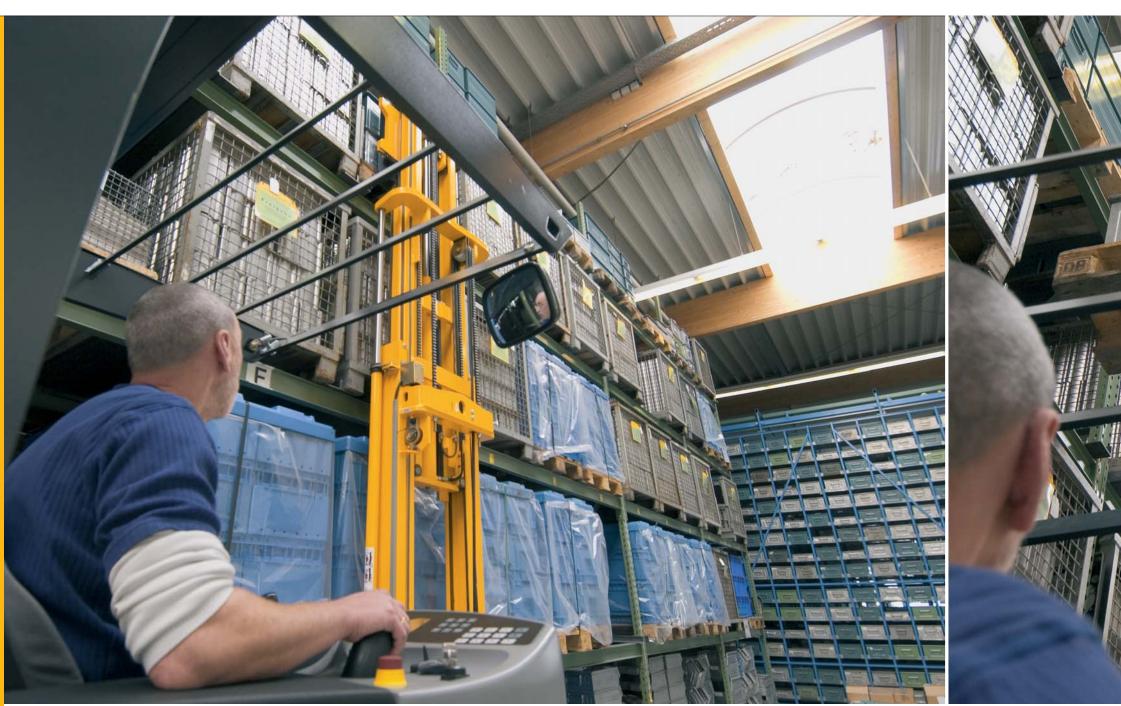








Easily interchangeable interface card.





Advantage: Perfect vision.

You can trust your own vision.

a clear vision of the working area and rate through high visability.

The elevated driver's seat combined with the load. The advantage is immediately the laterally positioned mast guarantees obvious; improved handling throughput







Advantage: Perfect ergonomics.

Form follows function.

Intuitive control for more comfort and speed

Drive regulator

ing and lowering movements are con-If the thumb moves upwards, the lifting movement is activated. If the thumb

Let your hands do the talking as the lift- moves downwards, the lowering movement is activated. These natural motions driver for height and distance, the EFX trolled by thumb actions on the EFX: not only simplify work, they are also can be steered with ease. The graphic particularly easy on the wrists.

Everything under control on the console

Because the console is adjustable to the display shows the most important data quickly, clearly arranged and easily legible with the use of symbols.

Steering wheel

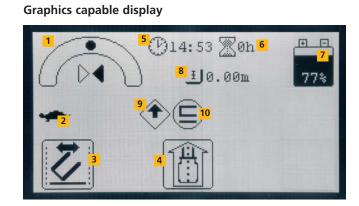


Safe grip and intuitive, precise control through thumb movement.



The steering performance of the generously sized steering wheel can be adjusted to individual requirements.

- **1** Steering wheel
- 2 Selection switch, rotate/traverse
- **3** Programmable keys (e.g. Turning on/off of guide control via tracks or inductive guide wire)
- 4 Graphic display
- **5** Key pad pre-height selection (optional extra)
- **6** Hand rest Lifting/Lowering/Rotating/Traversing
- **7** Horn
- 8 Armrest
- **9** Emergency stop
- **10** Key switch
- **11** Travel direction indicator switch



- **1** Position of steering wheel
- **2** Travel speed selected
- **3** Attachment operation
- **4** Selection inductive guidance
- **5** Time
- **6** Operating hours
- **7** Battery charge condition
- **8** Fork height
- **9** Travelling direction indicator
- **10** Load carrying unit position





Safety and comfort right from the start

Efficiency begins in the driver's cabin – with the operator. A multitude of performance enhancing ergonomic features considerably assists in day to day work.

- Wide foot and legroom
- Comfort seat which absorbs vibrations and is adjustable to height and weight
- Comfort seat with adjustable armrest (left) and armrest (right)
- Pedals arranged as in a carHigh quality craftsmanship
- All controls can be reached easily and quickly





The easily accessible pedal switch for releasing the dead man brake increases the safety for the operator.



Easy entry and exit over a low cabin floor.







Complete solutions for complete internal logistics.

Customer Service, Racking Systems, Warehouse Planning, Rental/Financial Services.

Pallet trucks, forklift trucks, order pickers and tow tractors in more than 600 truck variants. Added to this is a multitude of additional services. This makes Jungheinrich into an internal a logistics services provider who will pave your way towards a complete logistics solu-

Direct Customer Service network

Circa 500 of our own service engineers are available in 6 countrywide locations. Every one of them is a Jungheinrich professional: mechanic, electrician, electronics and hydraulics specialist com- hand". From projecting via CAD planbined in one person. And he will usually ning to handing over the key. From be with you within four hours.



For the right truck the right racking

Jungheinrich provides you with the complete solution: comprehensive warehouse planning that sees truck and racking as a system working "hand in shelving via system-built platforms right up to high bay racking. From consultation via assembly to Service. Everything from one supplier. Everything from Jungheinrich, your "architect" for complete internal logistics.

Financial Services and Rental Service

Jungheinrich provides you with a number of tailor-made solutions that optimally adapt to your general economic, tax and balance sheet conditions – even if these change during the course of time. So that you always react flexibly. Your specialist adviser will be pleased to calculate which solution would be the most optimal for your application.

