

# ESE 20

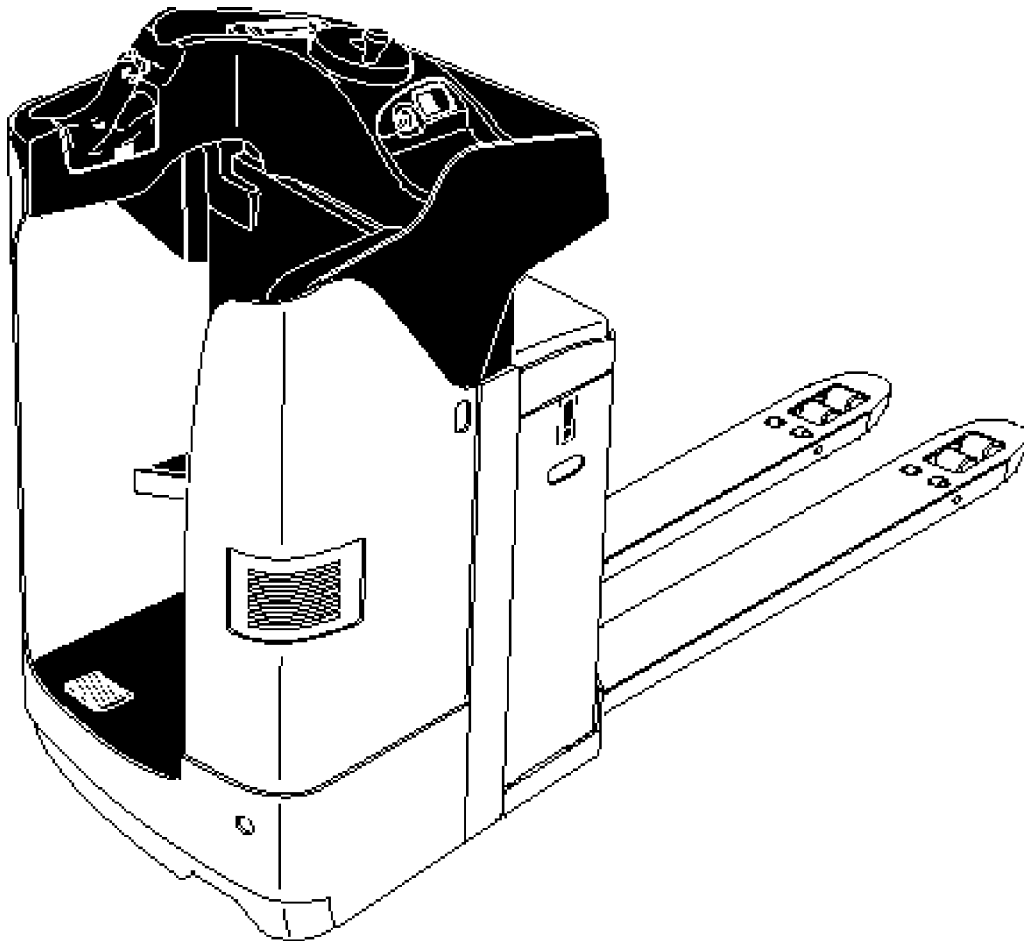
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Operating instructions

GB

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**JUNGHEINRICH**

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## 2.4 EN standards


**Continuous sound level:** 66dB(A)

according to prEN 12053 as stipulated in ISO 4871.

 The continuous sound level is a value averaged according to standard regulations, taking the sound pressure level into account when driving, lifting and idling. The sound pressure level is measured at the ear.

**Vibration:** 0,62m/s<sup>2</sup>

according to prEN 13059


 The swinging acceleration acting on the body in its operating position is, according to standard regulations, the linear integrated, weighted acceleration in the vertical plane. It is determined by driving over bumps with a constant speed.

### Electromagnetic compatibility (EMC)

The following limit values are observed according to prEN 12895

“Electromagnetic Compatibility of Industrial Trucks”:


- interference emission (EN 50 081-1)
- interference immunity (EN 50 082-2)
- electrostatic discharge (EN 61 000-4-2)

 Electrical or electronic components and their arrangement may only be modified after written approval by the JUNGHEINRICH AG has been obtained.

## 2.5 Conditions for application

### Ambient temperature:

- in operation: 5°C to 40°C

 When the truck is continually operated at temperatures below 5°C, in cold stores or at extreme fluctuations of temperature or humidity, special equipment and a special approval are required for industrial trucks.

## 7 ○ Battery discharge indicator, battery discharge monitor, operating hour meter

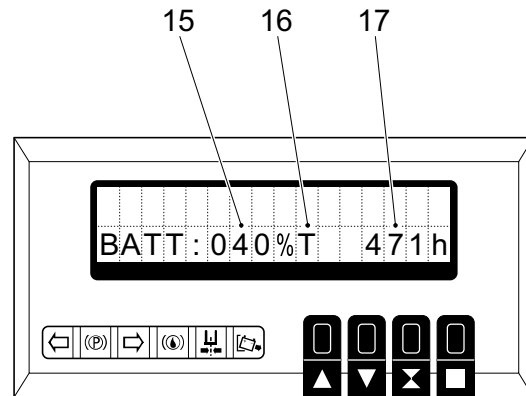
**Battery discharge indicator:** The loading status of the battery (15) is indicated in steps of 10% on the information and service indicator.



The manufacturer setting of the battery discharge indicator / discharge monitor is standard batteries.

If maintenance-free batteries are used, the indicator must be adjusted in such a way that the "T" symbol appears behind the percent specification. If this setting is not selected the battery may be damaged due to a complete discharge. Contact the JUNGHEINRICH customer service for setting the instrument.

If the remaining battery capacity falls below 30%, it is required to recharge the battery.



**Battery discharge monitor:** If the residual capacity falls below the specified minimum value, the lifting function is switched off. A corresponding message is displayed in the information and service indicator.



The lifting function will only then be released, if the connected battery is reloaded by min. 70%.

**Operating hour meter:** The operating hours (17) are indicated next to the loading status of the battery. The operating hour meter indicates the total time of all riding and lifting movements.

## Braking



The braking behaviour of the truck strongly depends on the state of the floor. This must be taken into account by the driver for his driving behaviour.

The truck may be braked in three ways:

- using the service brake (deadman key (9))
- using the generator brake (coasting)
- by counter-current braking (controller (1))



In case of emergencies, the truck must only be braked using the service brake (deadman key (9)).



During normal operation, the generator brake and counter-current braking should be applied. These methods of braking reduce wear and require less energy (energy recovery).

### Braking by means of the service brake:

- Release the deadman key (9).

The truck is braked at the maximum possible deceleration rate until it stands still.

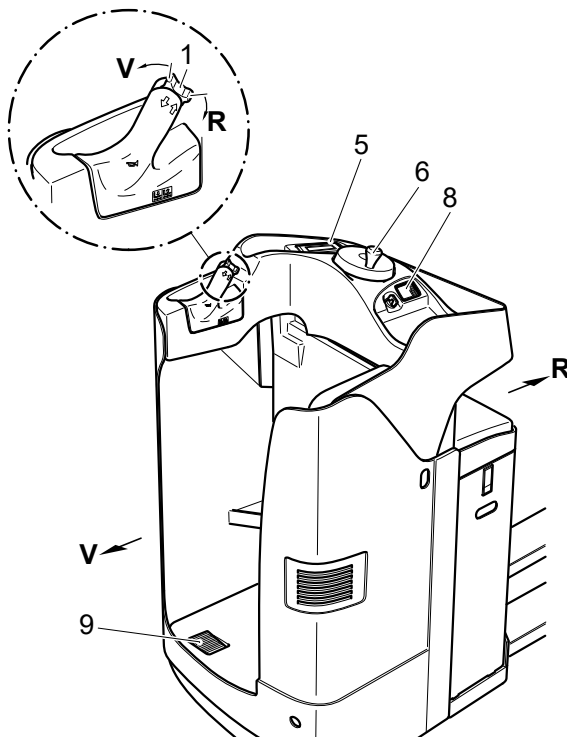
### Braking by means of the generator brake (coasting):

- Release the controller (1) - the controller assumes the zero position.

Depending on the setting, the truck is braked by the generator braked, coasting to a stop.



The deceleration rate can be adjusted by the JUNGHEINRICH service organization.



## 4 Maintenance checklist ESE 20

Maintenance intervals:	W 1= 50 operating hours, once per week min. M 3= 500 operating hours, every 3 months min M 6= 1000 operating hours, every 6 months min M12= 2000 operating hours, every 12 months min			Maintenance intervals			
			standard = ● cold store = *	W 1	M 3	M 6	M 12
<b>Chassis and superstruct.</b>	1.1	Check all load bearing elements for damage		●			
	1.2	Check all bolted connections		●			
	1.3	Check platform for correct functioning and damage		●			
<b>Drive unit</b>	2.1	Check the transmission for noises and leakage		●			
	2.2	Check the transmission oil level		●			
	2.3	Change the transmission oil				*	●
<b>Wheels</b>	3.1	Check for wear and damage	●				
	3.2	Check the wheel bearings for correct fastening a)	*	●			
<b>Steering</b>	4.1	Check the steering wheel play		●			
	4.2	Check the steering chain and chain sprocket for wear, adjust and grease		*	●		
<b>Brake system</b>	5.1	Performance and adjustment check	*	●			
	5.2	Check the brake linings for wear		●			
	5.3	Check reset function of the deadman key		●			
	5.4	Check the brake linkage; adjust if necessary	*	●			
<b>Hydraulic system</b>	6.1	Performance check	*	●			
	6.2	Check all connections for leakage and damage b)	*	●			
	6.3	Check hydraulic cylinders for leakage, damage and secure attachment	*	●			
	6.4	Clean filter		●			
	6.5	Check the oil level	*	●			
	6.6	Change hydraulic oil c)				*	●
	6.7	Check the pressure relief valves for correct functioning				*	●
<b>Electrical system</b>	7.1	Performance check		●			
	7.2	Check all cables for secure connection and damage		●			
	7.3	Check the fuses for correct amperage					●
	7.4	Check switches and trip cams for secure attachment and correct functioning		●			
	7.5	Check the warning installation for correct functioning	*	●			
	7.6	Check contactors, replace wearing parts if necessary		●			
<b>Electric motors</b>	8.1	Check the carbon brushes for wear		●			
	8.2	Check the motor for secure attachment		●			
	8.3	Clean motor housing by means of a vacuum cleaner and check the commutator for wear	*	●			
	8.4	Check whether the cover of the steering-engine potentiometer is present.		●			

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