



LINDE MATERIAL HANDLING (UK) Ltd.

Operating Instructions

T30

131 804 25 51

04/05 ⇒

Table of contents

Description

Plates and labels	5
Technical specifications	8
Technical description	9
General view	10
Controls	11
Description Multifunction indicator	12-14
Screen concatenation	15
Settings Multifunction indicator	16
Alarms Multifunction indicator	17
Options Multifunction indicator	18

Start-up / daily checks and work prior to start-up

Safety rules	19
Definition of safety-related terms	19
Use of lubricants	19
Periodic checks on the truck	20
Recommendations for start-up	20
Checks prior to initial start-up	20
Daily checks prior to use	20
Parameterisation of the multifunction indicator	21
Checking the direction controls	21
Checking the brakes	21-22
Checking the electrical steering	22
Checking the lift/lower controls	23
Checking the functioning of the emergency stop button	23
Checking the functioning of the horn	23
Checking tiller safety	24
Checking the safety reverser	24
Checking battery lock safety	24
Checking the battery charge status	25
Opening the battery cover	25
Connect/disconnect the battery connector	26
Recharge the battery with an external charger	27
Checking the condition of the cables, terminals and battery connector	27
Vertical output battery: Removal/replacement of the battery	28
Changing the front battery using a hoist	28
Lateral output battery:	

Unlocking/locking the battery	29
Changing using a roller support	30
Changing using a moveable support	31
Choosing the side on which the battery compartment opens	32
Setting the battery thrusts	32

Driving

User instructions	33
Starting up	33
Emergency stop button	34
Direction read-out	34
Steering	34
Turning lock in forward gear	34
Turning safety: speed restriction	34
Driving with on-board driver	35
Forward/reverse gear	35
Reversal of direction	35
Safety reverser	35
Using the truck on a slope	36
Climbing slopes	36
Descending slopes	36
Starting on a slope	36

Braking, lifting, lowering, horn

Electromagnetic safety or parking brake	37
Automatic braking	37
Braking by reversing direction	37
Lifting/lowering the fork	37
Horn control	37

Handling loads

Picking up the load from the ground	38
Transporting a load	38
Putting a load down	39
Before leaving the unit	39

Lifting, towing

Strapping the truck	40
Lifting the pallet truck	40
Towing	40
Transporting and stocking the unit	40

Table of contents

Maintenance

General comments	41
Check prior to initial start-up	41
Daily check prior to use	41
Check and maintenance for normal use	41
Check and maintenance for heavy duty use	41
Timetables of checking and maintenance operations ..	42

Maintenance according to need

Cleaning the truck	43
Cleaning the battery and its compartment	43
Opening the front hood	44
Removing the dash board	44
Removing the tiller housing	44
Tilting the tiller bracket	45
Checking the fuses	45
Hoist assembly, greasing the rings and articulations (greased option)	45

Maintenance every 1000 hours

Drive motor: Cleaning the cooling fins	46
Travel drive: Checking the reducer oil level	46
Wheels: Checking the condition and mounting	47
Steering: Checking the carbon brushes	47
Checking the motoreducer gear	48
Electromagnetic brake: Setting the air-gap	48

Electrical equipment:	
Cleaning the electrical panel	49
Checking the LAC and LES speed controls	49
Checking the mountings of cables and connections	49
Checking the electrolyte level and topping up with water	50
Checking the electrolyte density	50
Checking the condition of the cables, terminals and battery connector	51
Checking the setting of the rubber thrusts on lateral access batteries	51
Checking and cleaning the fans	51
Main hydraulic circuit:	
Checking the carbon brushes	52
Checking the oil level	52
Checking the circuit for leaks	52
Cleaning the oil barrier plug	52

Maintenance every 2000 hours

Travel drive: Replacing the reducer oil	54
Main hydraulic circuit: Replacing the hydraulic oil	54
Recommended lubricants	55
Hydraulic diagram	57
Electrical diagrams	58-61
Index	62-63

Hoist assembly:	
Checking the degree of wear on the articulation rings and pins	53
Checking the tightening of the pin nuts (chassis/track rods)	53
Greasing the articulations (greased option)	53