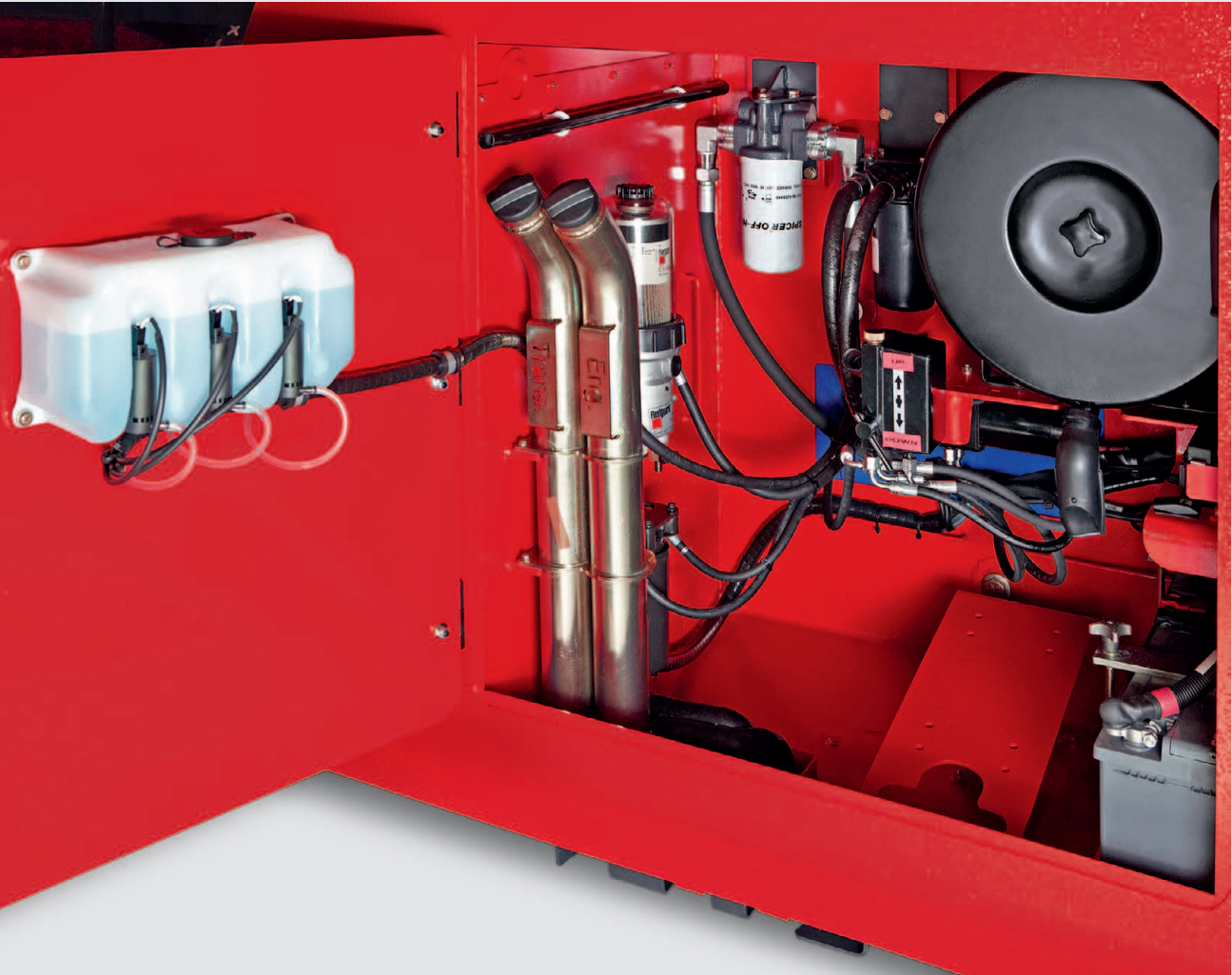




Mast variations - Standard														
H 180, H 200, H 220, H 250 (Double non-free lift clearview tilting mast with carriage)														
Lift	h3	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
Lift height	h3 + s	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal free lift	h2	150	150	150	150	150	150	150	150	150	150	150	150	150
Closed height with 150 mm free lift	h1	3800	4050	4300	4550	4800	5050	5300	5550	5800	6050	6300	6550	6800
Extended height	h4	5800	6300	6800	7300	7800	8300	8800	9300	9800	10300	10800	11300	11800
H 280, H 300, H 320 (Double non-free lift clearview tilting mast with carriage)														
Lift	h3	4000	4500	5000	5500	6000	6500	7000	7500	8000	8500	9000	9500	10000
Lift height	h3 + s	-	-	-	-	-	-	-	-	-	-	-	-	-
Normal free lift	h2	150	150	150	150	150	150	150	150	150	150	150	150	150
Closed height with 150 mm free lift	h1	3950	4200	4450	4700	4950	5200	5450	5700	5950	6200	6450	6700	6950
Extended height	h4	5950	6450	6950	7450	7950	8450	8950	9450	9950	10450	10950	11450	11950

Standard Equipment/Optional Equipment

Standard Equipment

Operational overhead guard
Hydraulic-suspension comfort-class seat
Lockable, underseat storage box
Document storage bin – left side of seat
Single drive pedal with direction selector in armrest
Linde Load Control for low-effort precision control of all mast functions
Fixed angle steering wheel
Demand-controlled hydrostatic power steering
Turbo charged diesel engine
Powershift transmission
Forward/reverse inhibitor
Automatic electronic gear shift
Heavy duty wide track double reduction drive axle
Wet disc brake system
Brake system accumulator
Load sensing hydraulic system with piston type pumps
Engine air intake cleaner with integral safety element
High-performance hydraulic filters
Electrically operated tilting loadguard for service access

Back-up, manual hydraulic pump for tilting loadguard
Floormat
Single control lever – Lift/tilt operation, variable piston type
Single lever control – Fork position operation, gated type
Glare-free Iqan display, including all monitoring, warning, control and information functions
Abundant storage space for writing materials, cans, etc.
Pneumatic tyres
Standard mast, lift height h3 = 4000 mm
Fork carriage, width b3=2950 mm 18t-25t, 3040 mm 28t-32t
Fork carrier to suit all standard pin type or hook-on forks
Pin-type mounted forks
Internal rear-view mirror
Chassis mounted, rear-view mirrors
Audible warning reverse alarm
12v socket in cabin
Horn
Head/rear lights, reverse warning lights, turn indicators
Rotating warning beacon
Standard Linde paint scheme

Optional Equipment

Standard masts, 4000 mm to 10000 mm lift height
Single and double auxiliary hydraulics for all mast types
Alternative fork lengths
Flat face carrier
Hook-on type forks
Alternative carriage widths – 3500 mm, 4000 mm, 4500mm
Overhead guard add-ons – Front screen, top window, rear window
Fully equipped mid-mounted cabin with hinged doors, front, top and rear washer/wipers, heaters and de-misters
Adjustable steering column
Blinds - roof and front screen
Climate control with integral pollen filter
High level air intake for heating system

Radio-CD player
Seat incorporating air suspension with compressor
Individual levers – lift and tilt
Individual levers – forkspread and sideshift
Gated lever – additional hydraulic service
Fire extinguisher, powder 3 kg
Hydraulic oil pre-heater
Engine oil pre-heater
Transmission oil pre-heater
Central lubrication system
Custom paintwork

Other options available on request



Engine-powered
counterbalanced truck
Capacity 18000 - 32000 kg
H 180 - H 320

Series 1402

Features



Load sensing hydraulics

- Highly efficient variable displacement pumps
- Metered oil for function selected
- Lower oil wear giving extended life in operation

Operator's compartment

- Centralised, forward positioned for optimised all-round visibility
- Impact tested loadguard structure
- Maximised glass area with front, top and rear washers/wipers

Stable, robust chassis

- Heavy duty main chassis for optimised stress handling
- Dual longitudinal chassis sections with lateral stress bracing provided by the drive axle and counterweight, provide high strength to weight ratio



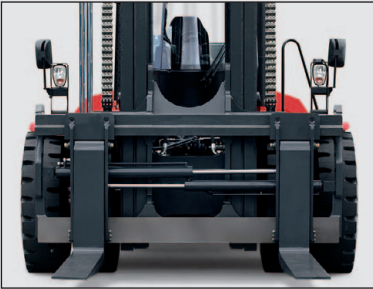
Operator's controls

- Linde control levers
- Twin pedal foot brake
- Column mounted handbrake
- Centralised Iqan display



Power and Drive system

- Powerful modern diesel engine giving high performance combined with low fuel consumption and exhaust emissions
- Torque converter coupled power-shift transmission with automatic electronic controlled gear shift
- Wide-track drive axle with wet disk brake system
- Drive-line protection with built-in operational inhibitors



Free-sight mast

- Unique mast profile developed to facilitate both compact and also operational container handling
- Optimised forward visibility by placing all operational parts behind or to the outside of the mast profile
- Universal terminal-west-type carriage system with interchangeable carriers and forks, for multi-functional operation

Linde Material Handling

Linde

Technical Data according to VDI 2198

		Technical specifications								
		General		Dimensions		Performance		Other		
		Description	Unit	L190E	L200E	L220E	L250E	L280E	L300E	L320E
Characteristics	1.1	Manufacturer		LINDE	LINDE	LINDE	LINDE	LINDE	LINDE	LINDE
	1.2	Model designation		H180	H200	H220	H250	H280	H300	H320
	1.3	Power unit		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
	1.4	Operation		Seat	Seat	Seat	Seat	Seat	Seat	Seat
	1.5	Load capacity	Q (t)	18.0	20.0	22.0	25.0	28.0	30.0	32.0
	1.6	Load centre	c (mm)	1200	1200	1200	1200	1200	1200	1200
Weights	1.8	Axle centre to fork face	x (mm)	1145	1145	1145	1145	1215	1215	1215
	1.9	Wheelbase	y (mm)	4000	4000	4000	4250	4500	4500	4750
	2.1	Service weight	(kg)	32500	33723	34933	35770	40130	41370	41620
Wheels/Tyres	2.2	Axle load with load, front/rear	(kg)	46365 / 4136	49350 / 4373	52493 / 4441	55965 / 4805	64157 / 3973	67067 / 4303	69709 / 3911
	2.3	Axle load without load, front/rear	(kg)	17812 / 14688	17625 / 16098	17595 / 17338	17171 / 18599	21130 / 19000	20967 / 20403	21440 / 20180
	3.1	Tyres rubber, SE, pneumatic, polyurethane			Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
	3.2	Tyre size, front		14.00-24 / 28PR	14.00-24 / 28PR	14.00-24 / 28PR	14.00-24 / 28PR	16.00-25 / 32PR	16.00-25 / 32PR	16.00-25 / 32PR
	3.3	Tyre size, rear		14.00-24 / 28PR	14.00-24 / 28PR	14.00-24 / 28PR	14.00-24 / 28PR	16.00-25 / 32PR	16.00-25 / 32PR	16.00-25 / 32PR
	3.5	Wheels, number front/rear (x = driven)		4x / 2	4x / 2	4x / 2	4x / 2	4x / 2	4x / 2	4x / 2
	3.6	Track width, front	b10 (mm)	2283	2283	2283	2283	2480	2480	2480
Dimensions	3.7	Track width, rear	b11 (mm)	2480	2480	2480	2480	2455	2455	2455
	4.1	Mast/fork carriage tilt, forward/backward	a/b (°)	5.0 / 10.0	5.0 / 10.0	5.0 / 10.0	5.0 / 10.0	5.0 / 10.0	5.0 / 10.0	5.0 / 10.0
	4.2	Height of mast, lowered	h1 (mm)	3800	3800	3800	3800	3950	3950	3950
	4.3	Free lift	h2 (mm)	150	150	150	150	150	150	150
	4.4	Lift	h3 (mm)	4000	4000	4000	4000	4000	4000	4000
	4.5	Height of mast, extended	h4 (mm)	5800	5800	5800	5800	5950	5950	5950
	4.7	Height of overhead guard (cabin)	h6 (mm)	3297 ¹⁾	3297 ¹⁾	3297 ¹⁾	3297 ¹⁾	3355 ²⁾	3355 ²⁾	3355 ²⁾
	4.8	Height of seat/stand-on platform	h7 (mm)	2162	2162	2162	2162	2220	2220	2220
	4.12	Towing coupling height	h10 (mm)	690	690	690	690	750	750	750
	4.19	Overall length	l1 (mm)	8560	8560	8560	8810	9060	9060	9310
	4.20	Length to fork face	l2 (mm)	6160	6160	6160	6410	6660	6660	6910
	4.21	Overall width	b1/b2 (mm)	3098 / 2912	3098 / 2912	3098 / 2912	3098 / 2912	3440 / 2912	3440 / 2912	3440 / 2912
	4.22	Fork dimensions	s/e/l (mm)	120 x 250 x 2400	120 x 250 x 2400	120 x 250 x 2400	120 x 250 x 2400	120 x 300 x 2400	120 x 300 x 2400	120 x 300 x 2400
	4.23	Fork carriage to ISO 2328, class/type A, B		Pin-Type	Pin-Type	Pin-Type	Pin-Type	Pin-Type	Pin-Type	Pin-Type
	4.24	Width of fork carriage	b3 (mm)	2950	2950	2950	2950	3040	3040	3040
	4.25	Fork spread, min/max	b5 (mm)	675 / 2775	675 / 2775	675 / 2775	675 / 2775	790 / 2850	790 / 2850	790 / 2850
	4.31	Ground clearance, below mast	m1 (mm)	300	300	300	300	415	415	415
	Performance	4.32	Ground clearance, centre of wheelbase	m2 (mm)	360	360	360	360	475	475
4.34e		Aisle width with load length 2400 mm	Ast (mm)	9306	9306	9306	9576	9922	9922	10195
4.35		Turning radius	Wa (mm)	5561	5561	5561	5831	6107	6107	6380
4.36		Minimum pivoting point distance	b13 (mm)	1850	1850	1850	1962	2073	2073	2184
5.1		Travel speed, with/without load	(km/h)	27.5 / 31.5	27.5 / 31.5	27.5 / 31.5	27.5 / 31.5	24.6 / 29.3	24.6 / 29.3	25.4 / 29.5
5.2		Lifting speed, with/without load	(m/s)	0.52 / 0.57	0.52 / 0.57	0.52 / 0.57	0.52 / 0.57	0.41 / 0.47	0.41 / 0.47	0.41 / 0.47
5.3		Lowering speed, with/without load	(m/s)	0.5 / 0.5	0.5 / 0.5	0.5 / 0.5	0.5 / 0.5	0.5 / 0.5	0.5 / 0.5	0.5 / 0.5
5.5		Tractive force, with/without load	(N)	154200 / -	154200 / -	154200 / -	154200 / -	178300 / -	178300 / -	187000 / -
5.7		Climbing ability, with/without load	(%)	25.4 / -	25.4 / -	25.4 / -	25.4 / -	23.4 / -	23.4 / -	24.4 / -
5.10		Service brake		Wet disc	Wet disc	Wet disc	Wet disc	Wet disc	Wet disc	Wet disc
IC-Drive	6.4	Battery voltage/rated capacity (5h)	(V/Ah)	2x 12 / 143	2x 12 / 143	2x 12 / 143	2x 12 / 143	2x 12 / 143	2x 12 / 143	2x 12 / 143
	7.1	Engine manufacturer/type		Cummins QSB 6.7	Cummins QSB 6.7	Cummins QSB 6.7	Cummins QSB 6.7	Cummins QSC 8.3	Cummins QSC 8.3	Cummins QSC 8.3
	7.2	Engine performance according to ISO 1585	(kW)	179	179	179	179	183	183	209
	7.3	Rated speed	(1/min)	2070	2070	2070	2070	2200	2200	2200
	7.4	Number of cylinders/displacement	(-/cm3)	6 / 6700	6 / 6700	6 / 6700	6 / 6700	6 / 8300	6 / 8300	6 / 8300
Others	7.5	Fuel consumption according to VDI cycle	(l/h)	14.0-16.0	14.0-16.0	14.0-16.0	14.0-16.0	14.0-16.0	14.0-16.0	14.0-16.0
	8.1	Type of drive control		Torque conv. 3/3	Torque conv. 3/3	Torque conv. 3/3	Torque conv. 3/3	Torque conv. 3/3	Torque conv. 3/3	Torque conv. 3/3
	8.2	Operating pressure for attachments	(bar)	280	280	280	280	280	280	280
	8.3	Oil flow for attachments	(l/min)	120	120	120	120	120	120	120
	8.4	Noise level at operator's ear	(dB(A))	74.0	74.0	74.0	74.0	74.0	74.0	74.0
		8.5	Towing coupling, design/type, DIN 15 170		Ø 50 mm	Ø 50 mm	Ø 50 mm	Ø 50 mm	Ø 50 mm	Ø 50 mm
1) cabin tilted --> h6# = 4000 mm			2) cabin tilted --> h6# = 4058 mm							

