



Laden Container Handler  
Reachstacker  
Capacity 42000 to 45000 kg  
C 4230 TL – C 4531 CH

SERIES 357

### Safety

On-board microprocessors constantly measure load weight, boom angle and extension; immediately responding to potential overload conditions by warning the operator and cutting-out lift and telescopic reach functions while allowing the operator to return the machine to a safe operational condition.

### Performance

The combination of a high power, low speed – high torque engine, matched with an electronically controlled 4-speed transmission, together with an advanced hydraulic system, manage the efficient use of energy, with maximised speed of operation while reducing the wear on hydraulic components.

### Comfort

The cabin, equipped to provide the operator with a low stress and spacious working environment is provided with comfortable and intuitive ergonomics which are vital in creating the optimised working conditions necessary for sustained high performance operation.

Linde Material Handling

*Linde*

### Reliability

The high performance of the Linde Reachstacker is matched by the robustness of its construction. The high quality, heavy duty drive line components are designed to ensure maximum performance and durability. Heavy-duty main structural elements provide stress relief over the load bearing areas, thus ensuring lifelong product integrity.

### Productivity

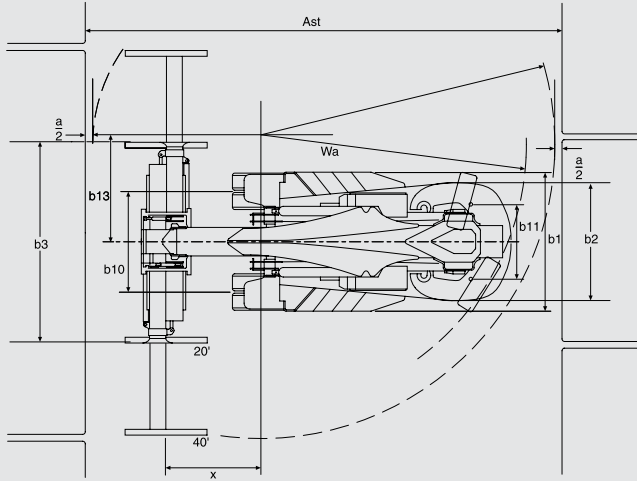
The central positioning of the operators cabin optimises the visibility to the load handler for loading and unloading operations, and also around the machine when working in confined operating areas; Combining the operator comfort and component performance with intuitive ergonomics further enhances the ease of operation which is a main characteristic of this product.

# Technical data

Characteristics	1.1	제작사	린데	린데	린데	린데
	1.2	형식	<b>C4230 TL/4</b>	<b>C4230 TL/5</b>	<b>C4531 TL/4</b>	<b>C4531 TL/5</b>
	1.3	동력: 배터리, 디젤, LP 가스	디젤	디젤	디젤	디젤
	1.4	조종석: 수동, 보행, 탑승, 좌승, 오더 픽커	좌승	좌승	좌승	좌승
	1.5	인상 능력 (L1, L2, L3) Q (kg)	42000/30000/16000	42000/30000/16000	45000/31000/16000	45000/31000/16000
	1.6	인상 중심, 1열 (L1) c (mm)	1760	1760	1760	1760
		인상 중심, 2열 (L2) c (mm)	3810	3810	3810	3810
		인상 중심, 3열 (L3) c (mm)	6250	6250	6250	6250
	1.8	축중심 스프레더간 거리 (L1-1/2) x (mm)	2800/2600	2800/2600	2800/2600	2800/2600
1.9	축거 y (mm)	6400	6400	6400	6400	
Weights	2.1	자중 (기본 제원) kg	70400	70400	71400	71400
	2.2	축하중 (부하), 전륜/후륜 (L1) kg	97180/15220	97180/15220	101900/14500	101900/14500
		축하중 (부하), 전륜/후륜 (L2) kg	-	-	-	-
	2.3	축하중 (무부하), 전륜/후륜 (L1) kg	35900/34500	35900/34500	36400/35000	36400/35000
		축하중 (무부하), 전륜/후륜 (L2) kg	-	-	-	-
Wheels & tyres	3.1	타이어, 전륜/후륜 (SE: 탄성, P: 공기)	P/P	P/P	P/P	P/P
	3.2	타이어 크기, 전륜	18.00 x 25 / 40pr	18.00 x 25 / 40pr	18.00 x 25 / 40pr	18.00 x 25 / 40pr
	3.3	타이어 크기, 후륜	18.00 x 25 / 40pr	18.00 x 25 / 40pr	18.00 x 25 / 40pr	18.00 x 25 / 40pr
	3.5	타이어 수량, 전륜/후륜 (x: 구동축)	4x/2	4x/2	4x/2	4x/2
	3.6	트랙 전폭, 전륜 b10 (mm)	3030	3030	3030	3030
	3.7	트랙 전폭, 후륜 b11 (mm)	2786	2786	2786	2786
	Dimensions	4.1	텔레스코픽 붐 각도, 인상/인하 $\alpha/\beta$ (°)	56/0	61/0	56/0
4.2		텔레스코픽 붐 높이, 인하 h1 (mm)	4900	4900	4900	4900
4.4		인상 높이 (L1, L2, L3) h3 (mm)	13400/11120/6850	15900/14100/11350	13400/11120/6850	15900/14100/11350
4.5		텔레스코픽 붐 높이, 인상 h4 (mm)	16560	19000	16560	19000
4.7		조종실 높이 h6 (mm)	3900	3900	3900	3900
4.8		조종석 높이 h7 (mm)	2840	2840	2840	2840
4.12		견인 장치 높이 h10 (mm)	600	600	600	600
4.15		트윈스트 록 높이 h13 (mm)	1495	1495	1495	1495
4.19		전장 l1 (mm)	11618	11618	11618	11618
4.20		전장 (본체) l2 (mm)	8408	8408	8408	8408
4.21		전폭 $\varphi 1/b2$ (mm)	4180/3400	4180/3400	4180/3400	4180/3400
4.24		스프레더 전폭, 20'/40' b3 (mm)	6050/12150	6050/12150	6050/12150	6050/12150
4.31		최저 지상고 m1 (mm)	345	345	345	345
4.32		축중심 지상고 m2 (mm)	300	300	300	300
4.33		20' 컨테이너 작업 공간 Ast (mm)	10225	10225	10225	10225
4.34		40' 컨테이너 작업 공간 Ast (mm)	13050	13050	13050	13050
4.35		회전 반경 Wa (mm)	8605	8605	8605	8605
4.36	최소 선회 지점 거리 b13 (mm)	3400	3400	3400	3400	
Performance	5.1	주행 속도, 부하/무부하 km/h	22/25	22/25	22/25	22/25
	5.2	인상 속도, 부하/무부하 m/s	0.28/0.39	0.28/0.39	0.28/0.39	0.28/0.39
	5.3	인하 속도, 부하/무부하 m/s	0.39/0.39	0.39/0.39	0.39/0.39	0.39/0.39
	5.5	견인력, 부하/무부하 l kph kN	325/-	325/-	325/-	325/-
	5.6	최대 견인력, 부하/무부하 kN	370/-	370/-	370/-	370/-
	5.7	등판 능력, 부하/무부하 l kph %	29/-	29/-	29/-	29/-
	5.8	최대 등판 능력, 부하/무부하 %	33.9/34.5	33.9/34.5	33.9/34.5	33.9/34.5
	5.9	가속 시간, 부하/무부하 s	-	-	-	-
	5.10	제동 장치	습식	습식	습식	습식
	6.4	배터리 전압, 정격 용량 V/Ah	24V (2x12/143)	24V (2x12/143)	24V (2x12/143)	24V (2x12/143)
Drive	7.1	엔진 제작사/형식	커민스 QSM 11	커민스 QSM 11	커민스 QSM 11	커민스 QSM 11
	7.2	엔진 출력 (ISO 1585) kW	246	246	246	246
	7.3	정격 회전수 1/min	2100	2100	2100	2100
	7.4	실린더 수량/배기량 /cm <sup>3</sup>	6/10820	6/10820	6/10820	6/10820
	7.5	연료 소모량 (VDI 사이클) l/h	-	-	-	-
Other	8.1	구동부 형식	토크 컨버터 4/4	토크 컨버터 4/4	토크 컨버터 4/4	토크 컨버터 4/4
	8.2	사용 유압 압력 bar	160	160	160	160
	8.3	토출 유량 l/min	-	-	-	-
	8.4	소음, 조종실 dB (A)	74	74	74	74
	8.5	견인 장치 규격 (DIN) $\varnothing$ (mm)	50	50	50	50

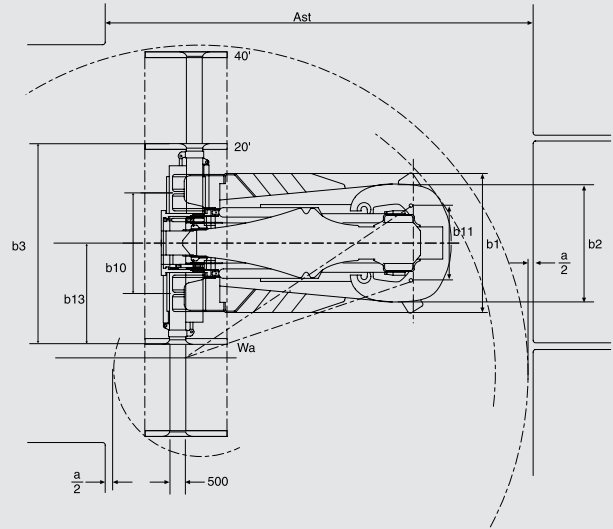
### AST Stacking aisle

	4	5
20'	12700	12900
40'	14400	14600

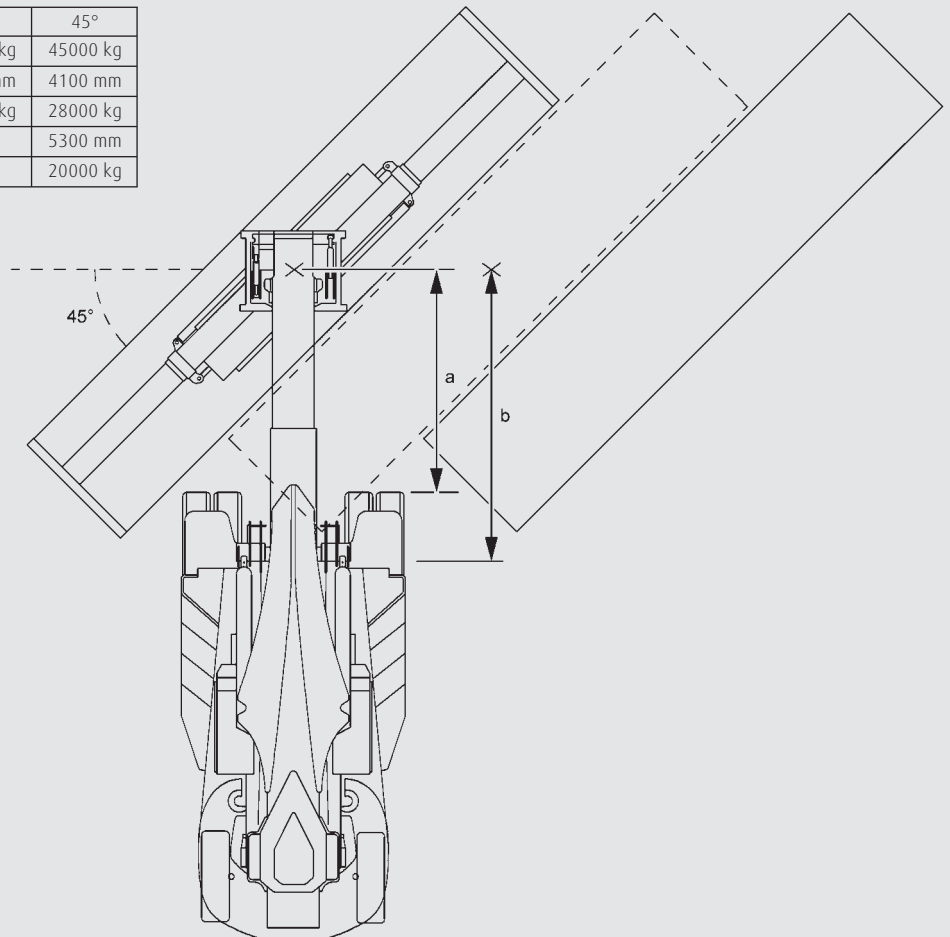


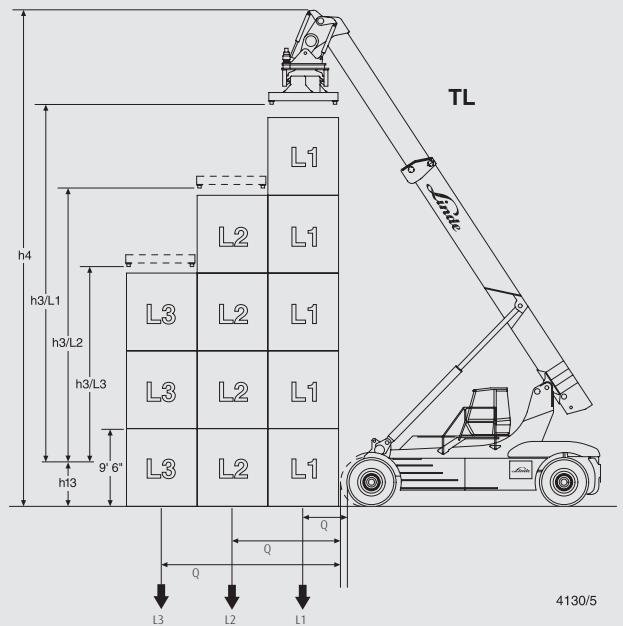
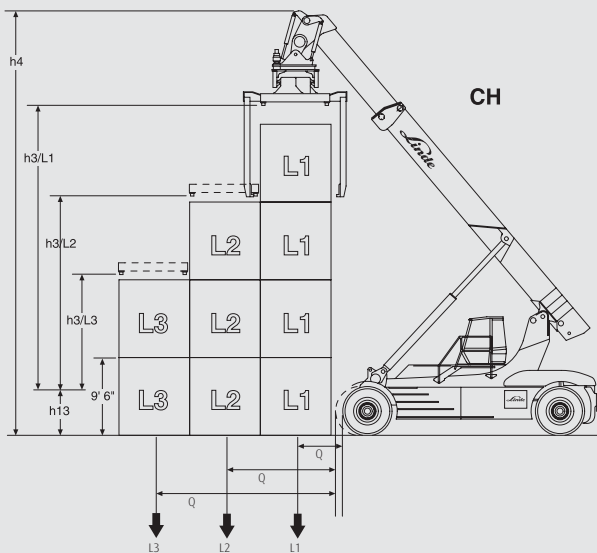
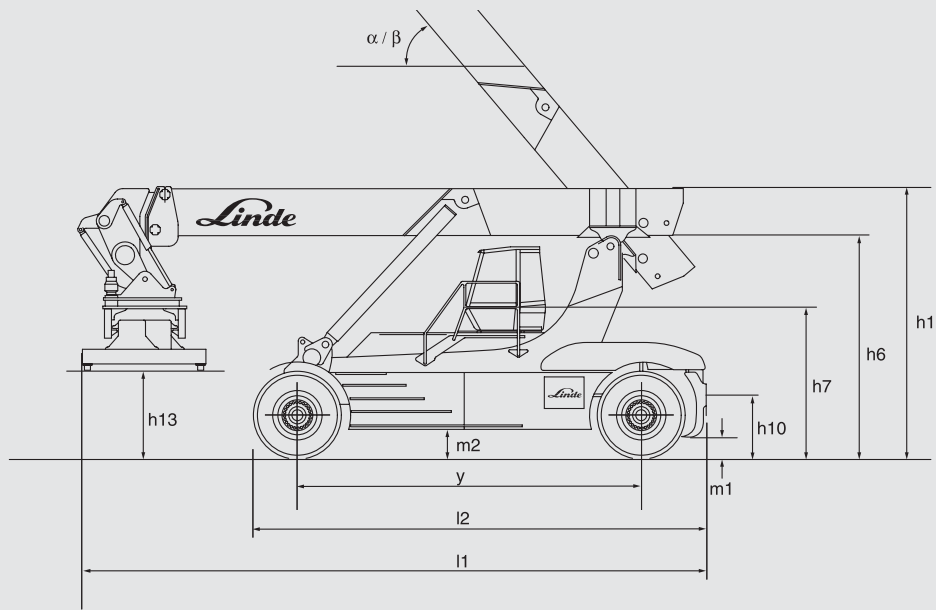
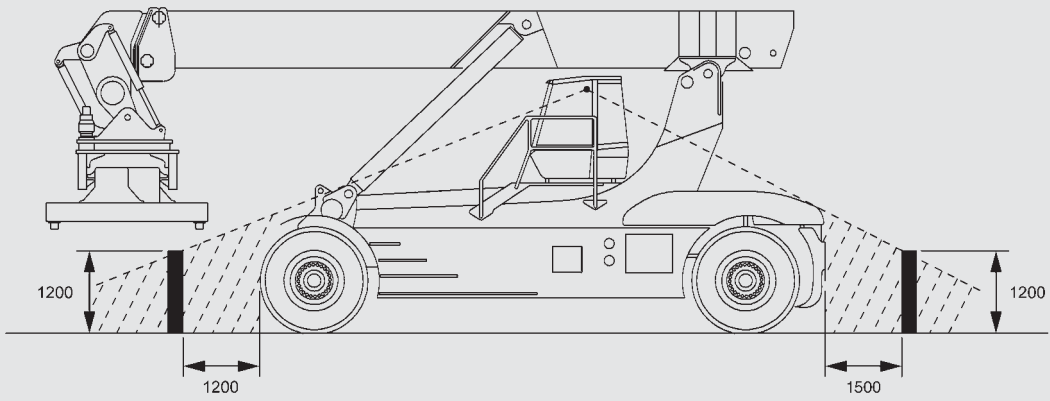
### AST Travelling aisle

	4	5
20'	10225	10225
40'	13050	13050



Rotation	30°	45°	30°	45°
Model capacity	42000 kg	42000 kg	45000 kg	45000 kg
Distance (a)	4200 mm	4100 mm	4200 mm	4100 mm
Capacity (a)	25000 kg	25000 kg	28000 kg	28000 kg
Distance (b)	-	5300 mm	-	5300 mm
Capacity (b)	-	20000 kg	-	20000 kg





# Container-Load weight and lift height (under twistlocks)

## Toplift Handler – TL

**C 4230 TL / 4** 8' 6"

37			5 high	13400 mm
42	30		4 high	11120 mm
42	30			
42	30	16	2 high	6850 mm
42	30	16		

L1	L2	L3
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**C 4230 TL / 5** 8' 6"

27			6 high	15900 mm
37	25		5 high	14100 mm
42	30	16	4 high	11350 mm
42	30	16		
42	30	16		
42	30	16		

L1	L2	L3
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**C 4230 TL / 4** 9' 6"

42			4 high	13400 mm
42	30		3 high	11120 mm
42	30	16	2 high	6850 mm
42	30	16		

L1	L2	L3
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**C 4230 TL / 5** 9' 6"

34			5 high	15900 mm
42	30		4 high	14100 mm
42	30	16	3 high	11350 mm
42	30	16		
42	30	16		

L1	L2	L3
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## Toplift Handler – TL

**C 4531 TL / 4** 8' 6"

45			5 high	13400 mm
45	31		4 high	11120 mm
45	31			
45	31	16	2 high	6850 mm
45	31	16		

L1	L2	L3
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**C 4531 TL / 5** 8' 6"

35			6 high	15900 mm
45	25		5 high	14100 mm
45	31	16	4 high	11350 mm
45	31	16		
45	31	16		
45	31	16		

L1	L2	L3
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**C 4531 TL / 4** 9' 6"

45			4 high	13400 mm
45	31		3 high	11120 mm
45	31	16	2 high	6850 mm
45	31	16		

L1	L2	L3
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**C 4531 TL / 5** 9' 6"

41			5 high	15900 mm
45	31		4 high	14100 mm
45	31	16	3 high	11350 mm
45	31	16		
45	31	16		

L1	L2	L3
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## Toplift Handler – TL

**C 4234 TL / 4** 8' 6"

37			5 high R1	13400 mm
42	34		4 high R2	11120 mm
42	34			
42	34	17	2 high R3	6850 mm
42	34	17		

L1	L2	L3
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**C 4234 TL / 5** 8' 6"

27			6 high R1	15900 mm
37	25		5 high R2	14100 mm
42	34	17	4 high R3	11350 mm
42	34	17		
42	34	17		
42	34	17		

L1	L2	L3
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**C 4234 TL / 4** 9' 6"

42			4 high	13400 mm
42	34		3 high	11120 mm
42	34	17	2 high	6850 mm
42	34	17		

L1	L2	L3
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**C 4234 TL / 5** 9' 6"

34			5 high	15900 mm
42	31		4 high	14100 mm
42	34	17	3 high	11350 mm
42	34	17		
42	34	17		

L1	L2	L3
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## Toplift Handler – TL

**C 4535 TL / 4** 8' 6"

45			5 high R1	13500 mm
45	35		4 high R2	11220 mm
45	35	19	3 high R3	6950 mm
45	35	19		
45	35	19		

L1	L2	L3
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**C 4535 TL / 5** 8' 6"

35			6 high R1	16000 mm
45	32		5 high R2	14200 mm
45	35	19	4 high R3	11550 mm
45	35	19		
45	35	19		
45	35	19		

L1	L2	L3
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**C 4535 TL / 4** 9' 6"

45			4 high R1	13500 mm
45	35		3 high R2	11220 mm
45	35	19	2 high R3	6950 mm
45	35	19		

L1	L2	L3
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**C 4535 TL / 5** 9' 6"

41			5 high R1	16000 mm
45	35		4 high R2	14200 mm
45	35	19	3 high R3	11550 mm
45	35	19		
45	35	19		

L1	L2	L3
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## Combination Handler – CH

**C 4026 CH / 4** 8' 6"

40	26		4 high R1	13075 mm
40	26		4 high R2	10800 mm
40	26	12	2 high R3	6550 mm
40	26	12		

L1	L2	L3
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**C 4026 CH / 5** 8' 6"

33	22		5 high R1	15575 mm
40	26	12	5 high R2	13775 mm
40	26	12	4 high R3	11025 mm
40	26	12		
40	26	12		

L1	L2	L3
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**C 4026 CH / 4** 9' 6"

40			4 high R1	13780 mm
40	26		3 high R2	10800 mm
40	26	12	2 high R3	6550 mm
40	26	12		

L1	L2	L3
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**C 4026 CH / 5** 9' 6"

29			5 high R1	15575 mm
40	26		4 high R2	13780 mm
40	26	12	3 high R3	11050 mm
40	26	12		
40	26	12		

L1	L2	L3
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## Combination Handler – CH

**C 4030 CH / 4** 8' 6"

40	30		4 high R1	13075 mm
40	30		4 high R2	10800 mm
40	30	13	2 high R3	6550 mm
40	30	13		

L1	L2	L3
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**C 4030 CH / 5** 8' 6"

33	22		5 high R1	15575 mm
40	30	13	4 high R2	13780 mm
40	30	13	5 high R2	11050 mm
40	30	13		
40	30	13		

L1	L2	L3
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**C 4030 CH / 4** 9' 6"

40			4 high R1	13075 mm
40	30		3 high R2	10800 mm
40	30	13	2 high R3	6550 mm
40	30	13		

L1	L2	L3
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**C 4030 CH / 5** 9' 6"

29			5 high R1	15575 mm
40	26		4 high R2	13780 mm
40	30	13	3 high R3	11050 mm
40	30	13		
40	30	13		

L1	L2	L3
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## Combination Handler – CH

**C 4531 CH / 4** 8' 6"

43			5 high R1	13175 mm
45	31		4 high R2	10900 mm
45	31			
45	31	15	2 high R3	6650 mm
45	31	15		

L1	L2	L3
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**C 4531 CH / 5** 8' 6"

41	27		5 high R1	15675 mm
45	31	15	5 high R2	13880 mm
45	31	15	4 high R3	11150 mm
45	31	15		
45	31	15		

L1	L2	L3
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**C 4531 CH / 4** 9' 6"

45			4 high R1	13175 mm
45	31		3 high R2	10900 mm
45	31	15	2 high R3	6650 mm
45	31	15		

L1	L2	L3
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**C 4531 CH / 5** 9' 6"

36			5 high R1	15675 mm
45	31		4 high R2	13880 mm
45	31	15	3 high R3	11150 mm
45	31	15		
45	31	15		

L1	L2	L3
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# Standard equipment/Optional equipment

## Standard equipment

Fully equipped driver's cabin with hinged doors; wipers and washers for windscreen, rear screen and overhead screen, heater and demister

Hydraulically driven, forward moving cabin with rear safety exit window (CH – Combi-Handler models)

Hydraulic-suspension comfort-class seat with wide range of adjustment

Proportional hydraulic function lever enabling precise load positioning with automatic anti-stall function

Adjustable-angle steering wheel

Effortless hydrostatic power steering; lock-to-lock at standstill

Engine intake air cleaner with integrated safety element

High performance hydraulic filters preserving maximum purity of oil for long life of all hydraulic components

On-demand working hydraulics, oil supply by twin-pump installation

Overload safety device; measures load weight and position

Data transfer modem for remote truck diagnostics and fault warning

Comprehensive head-up display; monitors all key components

Central master warning light

Modern diesel engine with electronically controlled single-rail fuel injection system meeting European and international emission regulations

Heavy-duty automatic 4-speed electronic powershift transmission with integrated safety protection; downshift, forward/reverse interlock

Robust double hub reduction drive axle, incorporating oil bath type multi-disk brakes with zero maintenance requirements

Regenerative hydraulic system for lift and extension system

4 high stacking boom

LCD display including fuel gauge, clock, hour meter and control lamps, lamps for all important truck functions

Abundant storage space for writing, materials, beverage cans, etc.

Pneumatic tyres

Telescopic toplift spreader (TL – Toplift models)

Telescopic toplift spreader with folding lifting arms and manual extension stops at 20' – 24' – 30' – 40' (CH – Combi-Handler models)

Rotation 95 degrees / 185 degrees

Sideshift 800mm +/-

Road lighting with boom support mounted reverse lights and audible warning

Front mudguard mounted working lights 2 pairs

Boom support mounted rear left / right working lights

Boom mounted working lights 2 pairs

Reverse driving mirrors – chassis mounted

Interior rearview mirror

Battery isolator switch with removeable key

Low step left & right (CH – Combi-Handler models)

Automatic handbrake

## Optional equipment

Hydraulically driven, forward moving cabin with rear safety exit window (TL – Toplift models)

Climate control

Cabin pre-heat system – fuel burning or electrical

Central greasing system – chassis, chassis & boom, chassis boom & spreader

High level air intake – cabin (heater system only)

Heated operators seat

Additional seat

Tinted glass

Sliding window – right side

Air suspension seat with compressor

Vertical lift

Joystick steering or mini-wheel steering systems

Electrical socket in cab – 12volt

5 high stacking boom

Heated reverse driving mirrors

Panoramic interior mirror

Radio with compact disc unit and speakers

Spreader mounted working lights 2 or 4

Rotating beacon or flashing beacon

Manual extension stops 20/24/40 or 20/24/30/40 or 20/30/40 (TL – Toplift models)

Sun blind – front and top

Fire extinguisher (2 kg)

Engine coolant heater

Hydraulic tank heater

Brake tank heater

Counterweight mounted camera with monitor

Handrails – on steps left & right, on chassis top right

Low step left & right (TL – Toplift models)

Custom paintwork



# Features



## Power and drive system

- Powerful engine – high torque at low speed
- 4 speed electronically controlled transmission
- Wide-track drive axle with wet disk brake system
- Drive line protection with built-in operational inhibitors: downshifting, reverse direction change, gear change ration

## Stable, robust chassis

- Heavy duty main chassis for optimised stress handling
- Robust boom construction for secure load handling
- Heavy gauge side panels providing impact protection

## Modern powerfull engine

- Diesel motor Stage II emissions
- Turbocharger and Intercooler
- 6 cylinder – 11 litre
- 246 kW (330 bhp) @ 2100 rpm
- maximum torque 1674 @ 1100 rpm

## Load sensing hydraulics

- Highly efficient variable displacement pumps
- Metered oil for function selected
- Synchronised with truck load and operational conditions for optimised performance

## Linde load management

- IQAN managed operating system
- CanBus linked major components
- Controlled truck and load condition
- LCD display
- Constant fault monitoring

## Telescopic spreader

- Rotation 95 / 185 degrees
- Twin sideshift cylinders
- Sideshift 800 mm +/-
- Internal extension cylinders
- Slope pile +/- 2 degrees
- Twin brake hub units
- Twistlock safety interlock

## Operators compartment

- Fully adjustable high quality seat
- Forced air heating and ventilation system
- Adjustable steering column
- Adjustable armrest and hydraulic control console
- Optimised position of operator control instrumentation

## Comprehensive display

- Languages – 8 european
- Engine – water temperature, oil pressure, tachometer, engine torque
- Transmission – oil pressure and temperature
- Hydraulic & Brake – oil temperature
- Fuel – level and rate of use
- Electrical – battery state
- Air – cleaner restriction warning



Subject to modification in the interests of engineering progress. Illustrations and technical details non-binding for actual construction. All measurements subject to customary tolerances.