

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72	Краснодар (861)203-40-90	Рязань (4912)46-61-64
Астана (7172)727-132	Красноярск (391)204-63-61	Самара (846)206-03-16
Белгород (4722)40-23-64	Курск (4712)77-13-04	Санкт-Петербург (812)309-46-40
Брянск (4832)59-03-52	Липецк (4742)52-20-81	Саратов (845)249-38-78
Владивосток (423)249-28-31	Магнитогорск (3519)55-03-13	Смоленск (4812)29-41-54
Волгоград (844)278-03-48	Москва (495)268-04-70	Сочи (862)225-72-31
Вологда (8172)26-41-59	Мурманск (8152)59-64-93	Ставрополь (8652)20-65-13
Воронеж (473)204-51-73	Набережные Челны (8552)20-53-41	Тверь (4822)63-31-35
Екатеринбург (343)384-55-89	Нижний Новгород (831)429-08-12	Томск (3822)98-41-53
Иваново (4932)77-34-06	Новокузнецк (3843)20-46-81	Тула (4872)74-02-29
Ижевск (3412)26-03-58	Новосибирск (383)227-86-73	Тюмень (3452)66-21-18
Казань (843)206-01-48	Орел (4862)44-53-42	Ульяновск (8422)24-23-59
Калининград (4012)72-03-81	Оренбург (3532)37-68-04	Уфа (347)229-48-12
Калуга (4842)92-23-67	Пенза (8412)22-31-16	Челябинск (351)202-03-61
Кемерово (3842)65-04-62	Пермь (342)205-81-47	Череповец (8202)49-02-64
Киров (8332)68-02-04	Ростов-на-Дону (863)308-18-15	Ярославль (4852)69-52-93

Единый адрес: edi@nt-rt.ru **Веб-сайт:** www.linde.nt-rt.ru

Логистический поезд LT06-LT20 LINDE МН. Техническое описание

Standard equipment/optional equipment

Standard equipment

Maximum total weight of trailers with load for one train: 8,000 kg (depends on towing capacity of tractor)
CAN bus controller
Option of four different steering systems:
Electrical 4-wheel steering/mechanical 4-wheel steering /mechanical 2-wheel steering/2 swiveling plus 2 fixed wheels (4-wheel steering for highest directional driving stability)
Robust, durable load-frame construction with release guard and stable front and rear axle
Warp-resistant lifting system powered by quiet electrical spindles
Exchangeable trolley lifting profile at front and rear side of the trolley compartment
2 or 4 lifting spindles depending on load capacity
Lifting height 30 – 100 mm, adjustable
Lifting speed 18 mm/s
Load capacity: from 600 kg to 2,000 kg
Holding capacity for various load/trolley dimensions: 400x600 up to 2000x1200 mm
Lifting function operated from panel at tow tractor and additional lift operation at trailer via footswitch, Footswitch with immediate-stop function
Automatic tractor drive lock when lifting in lowered position
Low energy consumption
Trailers designed for a small turning radius
Optional: without lifting system, trolleys remain on own wheels
C frame configurable for trolley opening left or right side
Bridge frame for trolley opening on both sides
Backlash-free ball type coupling system
Linde red/anthracite paintwork

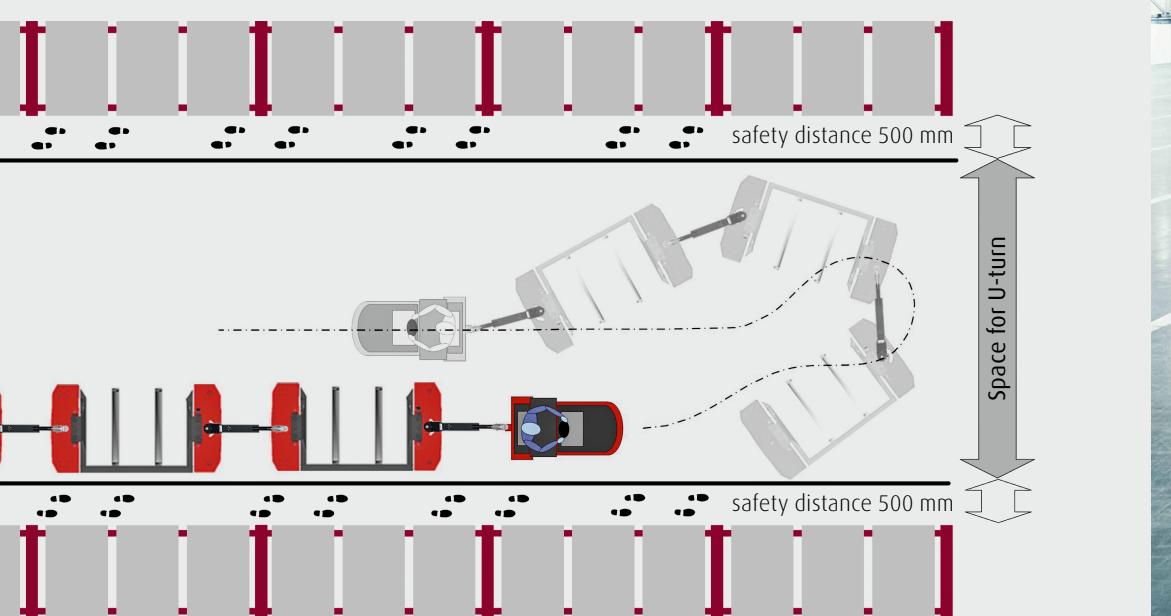
Requires adaptation of the tractor (electrical connector, ball type coupling, operating panel)

Optional equipment

Heavy duty version with SE tires 250x85 mm and lifting height 30-200 mm, adjustable
Adaptable to customer-specific trolley
Mechanical trolley locking, foot-operated
Load handling of other load dimensions on request
Foot pedal for locking dolly
Alternative paintwork
Weather protection
1 or 2 sets of movable forks
ESD conductivity (ESD wheels)
Lighting system
Stainless steel version for foodstuffs field
Wet grip drive wheel for tow tractor (P50 C, recommended for towed load of 3600 kg and above)
Tractor Tractor P20/P30C/P50C/P60/P80 or P250
Additional optional equipment on request

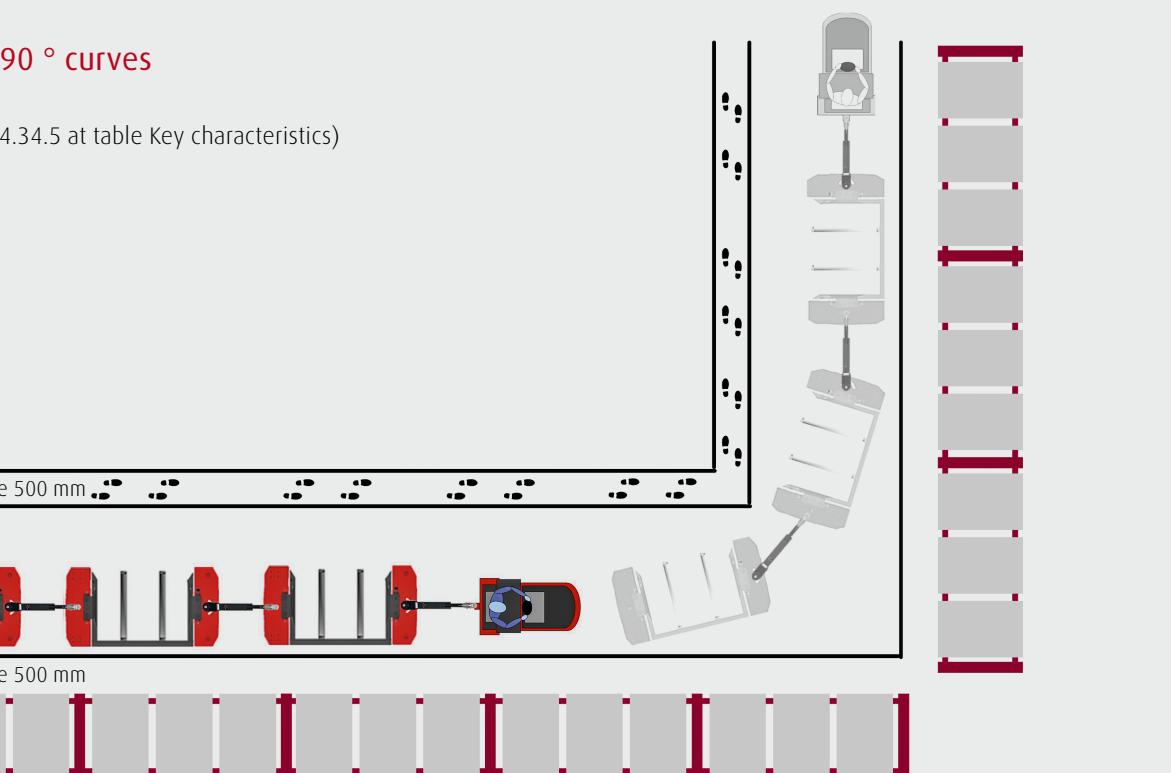
Space required for U-turn with optimized tractor driving line

(for dimensions see 4.35 at tabel Key characteristics)



Path width for 90 ° curves

(for dimensions see 4.34.5 at table Key characteristics)



Linde Logistic Train LT06 – LT20
Load capacity 600 – 2000 kg

BR1196

Safety

The innovative Linde Logistic Train is an ideal solution for the tightly scheduled material flow in modern production plants. Raising varying loads on pallet undercarriages (=trolleys) above the floor creates a load-protecting, low-noise and low-wear load handling process. An integral drive-lock prevents the tractor moving with lowered lifting units. Load lifting, for safety reasons, can also be controlled direct at the trailer

Performance

Goods are safely transported due to the sturdy frame construction. The Linde Logistic Train can transport up to four trailers safely at the same time, greatly improving goods handling capacity. The optional 4-wheel steering and the special trailer chassis design ensure outstanding maneuverability and high directional stability. The electrical lifting function performs up to 2.0 t.

Comfort

The Logistic Train was designed to offer the best possible ergonomics for the operator. Foot-switch in the trailer for hands-free operation, pre-lowering from the tractor combined with the smooth-running trolleys allow for comfortable follow up on the internal deliveries. The wheel suspension, the electrically driven lifting spindles and the backlash-free coupling provide for quiet operation. The bridge type trailer allows a simple roll-in and out from both sides.

Reliability

Solid framework surrounds and intelligent construction, incorporating release guard and the low-maintenance electrical lift design offer excellent levels of reliability. A high-strength trailer tiller, fitted with ball type coupling as well as smooth-running wheels with integrated suspension enable long-term use. No lurching, even with high load heights.

Serviceability

Sturdy and service friendly, the trailers can simply be uncoupled for exchange. The unique construction consisting of two axles and the drop-in-position load-frame are very easy to maintain. The sealed electrical lifting spindles are service-free and easy to replace. Each trailer has its own CAN bus controller that memorizes operations and failures. The tiller with its ball type coupling is almost wear-free in use.

Product information

Directionally stable trailers

- Directionally stable trailers for optimal maneuverability
- A range of four different steering systems for adaption to individual driveway situations
- Electrical steering for optimized driving in tight turning circles and narrow curves
- Wide wheelbase for excellent driving stability
- Minimum space requirements

Low noise

- The electrically powered spindles lift and lower quickly and quietly
- The wheels with integrated suspension in combination with the backlash-free ball type coupling reduce the noise emissions to a minimum



Serviceability

- Easily maintained basic construction
- CAN bus controller with data memory
- Interchangeable rollers and axles are easily accessible for servicing

Energy management

- Energy-optimized lifting system
- Reduced rolling resistance due to optimal roller pivot bearings



Safety

- Safety pre-lowering from the tractor panel: trailers remain locked until released via footswitch at the trailer
- Drive lock function: The tractor cannot be started whilst the load is in the lowered position
- Footswitch with stop-movement-function

Operation

- Safe operation from the operating panel at the tow tractor or directly at the trailers' footswitch
- Trailer fitted with Lift function indication
- Operating panel at the tow tractor provides visual feedback of lift units position
- On-site control the lift can be operated directly at the trailer
- Drive can only be enabled when the loads are raised

Lifting device

- Pre-adjustable lifting height from 30-100 mm, Optional heavy duty version 30-200 mm
- The slackless coupling offers the highest directional driving stability
- Load securing by load stops, on request also a foot-pedal-activated mechanical locking

Towing device

- Trailers are equipped with backlash-free ball type coupling
- The slackless coupling offers the highest directional driving stability
- No backlash noise when driving
- Robust, durable train tiller



Linde

Key characteristics (according VDI 2198)

Distinguishing mark		LINDE		LINDE		LINDE		LINDE		LINDE		LINDE		LINDE								
1.1	Manufacturer (abbreviation)	LINDE		LINDE		LINDE		LINDE		LINDE		LINDE		LINDE								
1.2	Manufacturer's type designation	LT06 / LT08 / LT12		LT06 / LT08 / LT12		LT16		LT20		LT08-B / LT10-B		LT10-B(2) / LT16-B(2)		LT16-B(2)								
1.2a	Series	1196		1196		1196		1196		1196		1196		1196								
1.5	Rated capacity/rated load Q(t)	0.6/0.8/1.2		0.6/0.8/1.2		1.6		2.0		0.8/1.0		1.0/1.6		1.6								
1.9	Wheelbase y(mm)	1937		1937		2337		2737		1937		2149		2549								
Weight	2.1	Service weight (kg)	540 / 540 / 550		560 / 560 / 570		750		770		620 / 630		720 / 720		860							
Tyres/chassis	3.1	Tyres: solid rubber, superelastic, polyurethane	SE (opt. PU)		SE (opt. PU)		SE (opt. PU)		SE (opt. PU)		SE (opt. PU)		SE (opt. PU)		SE (opt. for LT10-P: PU)							
	3.2	Tyre size, front	$\varnothing 200x50 / x50 / x80$		$\varnothing 200x50 / x50 / x80$		$\varnothing 200x80$		$\varnothing 200x50 / x80$		$\varnothing 200x50 / \varnothing 250x80$		$\varnothing 250x80$		$\varnothing 200x50 / \varnothing 250x80$							
	3.3	Tyre size, rear	$\varnothing 200x50 / x50 / x80$		$\varnothing 200x80$		$\varnothing 250x80$		$\varnothing 200x50 / x80$		$\varnothing 250x80$		$\varnothing 250x80$		$\varnothing 200x50 / \varnothing 250x80$							
	3.5	Wheels, number front/rear	2/2		2/2		2/2		2/2		2/2		2/2		2/2							
	3.6	Tread	b10(mm)		820		1020		1220		820		820		1020							
	4.2.1	Overall height mech./el. steering (opt. f. wheel-0250mm mech./el. steering)	h1(mm)		462/688 (487/713)		462/688 (487/713)		487/713		2275 2300		2305 2330		2305 2330							
Dimensions	4.4	Lift (optional)	h3(mm)		100 (200)		100 (200)		100 (200)		100 (200)		100 (200)		100 (200)							
	4.4d	Lifting function	electrical		electrical		electrical		electrical		electrical		electrical		electrical							
	4.12	Coupling height, 200 resp. 250mm wheel	h10(mm)		417 resp. 442		417 resp. 442		417 resp. 442		417 resp. 442		417 resp. 442		417 resp. 442							
	4.19	Overall length (Drawbar short / upright) ¹⁾	l1(mm)		3086 / 2268		3486 / 2668		3486 / 3068		3141 / 2268		3353 / 2480		3753 / 2880							
	4.19.1	Length in train ¹⁾ (depending on length of adjustable drawbar)	(mm)		2826 - 3326		2826 - 3326		3226 - 3726		3626 - 4126		3086 - 3586		3298 - 3798							
	4.16.1	Opening length for loads	l6(mm)		1334		1334		1734		2134		1334		1546							
	4.21	Overall width	b1/b2(mm)		1079		1279		1479		1079		1079		1279							
	4.22	Fork dimensions (depth for trolleys x width)	s/e/l(mm)		860x100		1060x100		1260x100		1260x100		-		-							
	4.22.1	Lifting profile (depth x width for trolleys)	(mm)		860x64		1060x64		1260x64		1060x64		1060x64		1260x64							
	4.31	Ground clearance axle 200 resp. 250mm wheel	(mm)		56 resp. 104		56 resp. 104		56 resp. 104		56 resp. 104		56 resp. 104		56 resp. 104							
	4.33	Load dimension	(mm)		1200x800		1200x1000		1600x1200 With 2 pair of forks: 2pcs. 1200x1000 2pcs. 1200x800 4pcs. 800x600 4pcs. 800x600		2000x1200 With 2 pair of forks: 2pcs. 1200x1000 2pcs. 1200x800 4pcs. 1000x600 4pcs. 800x600		1200x800 (or 2pc. 1200x400) 1200x1000 (or 2pc. 1200x500)		1200x800 1200x1000 Adjustable center support allows different load dimensions + combinations.		1600x1200 2pc. 1200x1000 Adjustable center support allows different load dimensions + combinations.		1600x1200 2000x1200 Adjustable center support allows different load dimensions + combinations.		allows only loads without trolleys: max. 1200x1000 / max. 1600x1200	
	4.34.5	Driveway width 90°-curves: 1 trailer without safety; safety l/r each 500mm 2 trailers 3 trailers 4 trailers	(mm)		1800 1950 2100 2250		1900 2050 2200 2350		2000 2150 2300 2450		2200 2350 2500 2650		1700 1850 2000 2150		1800 1950 2100 2250		2000 2150 2300 2450		1900 2050 2200 2350			
	4.35	Required space for U-Turn: 1 trailer without safety; safety l/r each 500mm 2 trailers 3 trailers 4 trailers	(mm)		3500 3800 4100 4250		3700 4000 4300 4450		4100 4400 4700 4850		4300 4600 4900 5050		3500 3800 4100 4400		3650 3950 4250 4400		4050 4350 4650 4800		4450 4750 5050 5200			
Performance data	5.2	Lift speed with / without load	(mm/s)		18		18		18		18		18		18		18					
	5.3	Lowering speed with / without load	(mm/s)		18		18		18</td													

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72	Краснодар (861)203-40-90	Рязань (4912)46-61-64
Астана (7172)727-132	Красноярск (391)204-63-61	Самара (846)206-03-16
Белгород (4722)40-23-64	Курск (4712)77-13-04	Санкт-Петербург (812)309-46-40
Брянск (4832)59-03-52	Липецк (4742)52-20-81	Саратов (845)249-38-78
Владивосток (423)249-28-31	Магнитогорск (3519)55-03-13	Смоленск (4812)29-41-54
Волгоград (844)278-03-48	Москва (495)268-04-70	Сочи (862)225-72-31
Вологда (8172)26-41-59	Мурманск (8152)59-64-93	Ставрополь (8652)20-65-13
Воронеж (473)204-51-73	Набережные Челны (8552)20-53-41	Тверь (4822)63-31-35
Екатеринбург (343)384-55-89	Нижний Новгород (831)429-08-12	Томск (3822)98-41-53
Иваново (4932)77-34-06	Новокузнецк (3843)20-46-81	Тула (4872)74-02-29
Ижевск (3412)26-03-58	Новосибирск (383)227-86-73	Тюмень (3452)66-21-18
Казань (843)206-01-48	Орел (4862)44-53-42	Ульяновск (8422)24-23-59
Калининград (4012)72-03-81	Оренбург (3532)37-68-04	Уфа (347)229-48-12
Калуга (4842)92-23-67	Пенза (8412)22-31-16	Челябинск (351)202-03-61
Кемерово (3842)65-04-62	Пермь (342)205-81-47	Череповец (8202)49-02-64
Киров (8332)68-02-04	Ростов-на-Дону (863)308-18-15	Ярославль (4852)69-52-93

Единый адрес: edi@nt-rt.ru **Веб-сайт:** www.linde.nt-rt.ru