Price list P-THL20.15

Version: 10/2017



# a g r o l i n e r Centre-axle container hook-lift trailer (Tandem)

Type: THL20 20 tonnes permissible total weight

Standard equipment:

Tyres:	4 x 385/65R22.5 factory refur	bished tyres on a centre well rim, approved for 80 km/h		
Axles:	ADR tapered roller bearing axle, 2 x 11.3 tonnes axle load (60 km/h), 2,050 mm track width			
	approved up to 60 km/h without ABS (technically 105 km/h), wheel brake 406 x 120 mm,			
	130 mm square axle			
Springs:	21 tonnes 2-layer parabolic spring suspension, 100 mm wide, approved for up to 105 km/h, 1,480 mm axle wheelbase			
	overload protection on all 4 springs, rocker arms between the front and rear axle			
Draw gear:	rigid drawbar with 40 mm flanged towing eye DIN 11026 screwed on (coupling required			
	on the tractor, DIN 11029), mechanical saddle landing gear with rapid speed			
Chassis frame:	integrated frame construction, welded construction, main load bearer made from torsion-resistant square tube profiles			
Brake system:	dual line service brake system with automatic load-dependent brake force control (ALB),			
	4 x diaphragm brake cylinder, spindle parking brake on the front axle			
Hydraulic system:	the tractor must be equipped with 3 double-acting controllers: 1 x connection for			
	picking-up/tipping, 1 x connection for forward and return strokes, 1 x hydraulic internal locking			
Hook lift:	factory new hook lift system brand "MEILLER" Type RK20.65 with hydraulic internal locking mechanism,			
	load-dependent speed valve (only effective in empty and partial-load range)			
	hook height 1570 mm according to DIN 30722-1			
Electrical system:	12 Volt system according to the guidelines of the StVZO (German traffic laws) with 7-pin connecting cable,			
	triangular reflector and yellow side reflectors, 3 chamber lamps (rubber mounted),			
	number plate lighting, position lights			
Accessories:	stable underride protection, 2 x wheel chocks with bracket, plastic mudguard			
	one piece, hose cabinet for all supply lines on the drawbar			
Paintwork:	vehicle blasted with steel grit and also degreased, chip-resistant primer,			
	top coat in German quality dual component gloss paint			
	Hook:	Kröger red RAL 3002		
	Chassis:	Kröger red RAL 3002		
Technical data:	Permissible total weight:	20,000 kg		
	Hook system technically approv20,000 kg at operating pressure 280 bar			
	(only possible for on-board hydraulics, see equipment F 0496)			
	when using the tractor hydraulic system (200 bar), the tipping and pick-up capacity is max. 17 tonnes			
	(for 22.5" tyres)			
	Oil quantity required:	approx. 25 litres		
	Empty weight:	approx. 5,100 kg (in the basic equipment)		
	Drawbar load:	2,000 kg (optionally, also 2,500 or 4000 kg possible),		
		(see equipment F 3226 / F 3326 / F 3346)		
	Container lengths:	5,000-6,500 mm		
	Tipping angle:	approx. 50°		
	Rollers height:	approx. 1,260 mm (in the basic equipment)		

(Technical changes reserved)

## Basic price a groliner Type: THL20

#### Ancillary equipment subject to charge:

#### A SUPERSTRUCTURE

- A 4486 21 tonnes hook system, NEW, brand "MEILLER" Type RS21.65 for container lengths of up to 6,500 mm including load-dependent double speed valve for optimising the speed of the hook (effective for empty or full-load range) and efficiency package, weight savings approx 160 kg, instead of RK20.65 (only in combination with F 0496)
- A 4516 20 tonnes hook system, NEW, brand "MEILLER" Type RK20.70 for container lengths of up to 7,000 mm (max. tipping angle 47°) including load-dependent speed valve for optimising the speed of the hook (only effective in empty or partial-load range), instead of RK20.65 (only in combination with F 0496)

#### F CHASSIS

- F 0496 On-board hydraulics, "MEILLER" NEW with pump, 115 litre at 1000 rpm (up to 280 bar), 38 litre hydraulic tank as well as PTO-shaft drive, PTO-shaft + wireless remote control for the tractor "ISAR-Control"; hydraulic control block for 3 double-acting functions
- F 0526 Auxiliary cylinder for increasing the tipping capacity, integrated into the hook hydraulic circuit
- F 0556 6/2-directional valve for 2 double-acting functions; switching point on a double-acting control unit
- F 1006 Automatic trailer coupling including light, pneumatic and hydraulic connections for a 2nd trailer
- F 1306 Towing device at the rear
- F 1616 Mechanically extendable underride protection (required for container lengths longer than 6000 mm)
- F 1856 One-piece aluminium mudguard for the front and rear axle instead of the plastic mudguard (these mudguards are mandatory for low-pressure tyres)
- F 2706 Side guards (required for outside of Germany and for HGV operation)
- F 2906 Plastic toolbox, dimensions: W 600 x D 500 x H 400
- F 2916 Mains cabinet made of perforated stainless steel sheet metal 610 H x 120 W x 1,000 L
- F 3226 Reinforced height-adjustable, rubber bearing draw bar, dimensioned for 4 tonnes bearing load (mandatory from 4 tonnes bearing load), version as central tube
- F 3256 Hydraulically suspended towing device instead of fixed towing device (double-acting control unit required)
- F 3266 Pulling cylinder between the draw gear + tractor for an improved weight distribution
- F 3286 Hydraulic support leg instead of the mechanical landing gear (double-acting controller required)
- F 3326 SCHARMÜLLER round shaft draw head Type K80 up to 4 tonnes drawbar load
- F 3346 SCHARMÜLLER round shaft drawbar eye Type D 40 mm diameter up to 2.5 tonnes drawbar load, DIN 11026
- F 4006 A.B.S. 24 Volt
- F 4686 Brake system with Duomatik couplings
- F 5106 Side marking lights (LED)

F 5146 Contour marking film, yellow on the side and rear of the vehicle (mandatory for approval > 60 km/h)

- F 5166 Position and number plate lights as LED version
- F 5176 Warning sign package for wide loads (required from a width of 2750 mm)
- F 5196 3-unit rear lights, round, LED version
- F 5206 5 unit rear lights with fog light and reversing light (second 7-pin 24 Volt connection required)
- F 5216 2 x LED reversing lights on the rear of the vehicle (12 Volt 3-pin socket required)
- F 5266 Protective grids for the rear lights, screw-on version (not permitted on German public roads)
- F 5276 separate switching box with 2 x toggle switches (on+off) for the operation of two electric functions, power supply via 3-pin socket 12 Volt)
- F 5296 Hydraulic hose marking "Kennfixx" (price per hydraulic pipe)
- F 5406 Separate oil stub line to the rear (diameter 15 mm)
- F 6016 Axle wheelbase > 1800 mm for 24 tonnes total weight (only in combination with adjustable axles and suspension)
- F 6136 Hydraulic spring system including BPW axles (max. 60 km/h), track 2,150 mm; second axle trailing steered, 11 tonnes axle load (at 60 km/h); wheel brake 410 x 180 mm; 150 mm square axle (brake cylinder mounted at top, no lifting axle possible)
- F 6216 Hydraulic spring system including BPW axles (max. 60 km/h), track 2,150 mm; second axle forced steering, 11 tonnes axle load (at 60 km/h); wheel brake 410 x 180 mm; 150 mm square axle (brake cylinder mounted at top)
- F 6266 Parabolically suspended linked steering unit with trailing links and dynamic axle compensation (24 tonnes)

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F 6276	Parabolically suspended linked steering unit with trailing links and dynamic axle compensation (32	
F 6306	tonnes) 12 tonnes BPW axles (max.60 km/h), reinforced, 2150 mm track, without ABS and AGS, wheel brake	
1 0000	410 x 180 mm, 150 mm square axle (only in combination with F 6276)	
F 6326	12 tonnes ADR axles (max. 60 km/h), reinforced, 2150 mm track, without ABS and AGS (technical 105	
	km/h) wheel brake 420 x 180 mm, 150 mm square axle (only in combination with F 6266 or F 6276)	
F 6456		
	180 mm (approved only for tyres 445/65R22.5)	
F 6556	9 tonnes GIGANT / SMB axles (105 km/h), 2,040 mm track, ABS fitted, AGS, wheel brake 420 x 180 mm (approved only for tyres 445/65R22.5)	
F 6746	11 tonnes BPW self-steering axle (max. 60 km/h), without ABS + AGS, 2,150 mm track, wheel brake	
1 01 10	410 x 180 mm, 150 mm square axle (only in combination with F 6276 and F 6306)	
F 6776	11 tonnes ADR self-steering axle (max. 60 km/h), without ABS + AGS, 2,150 mm track, wheel brake	
	420 x 180 mm, 150 mm square axle (only in combination with F 6266 or F 6276 and F 6326)	
F 6786	11 tonnes ADR forced-steering axle (max. 60 km/h), reinforced, including forced steering, without ABS	
F 7000	+ AGS, 2,150 mm track, wheel brake 420 x 180 mm, 150 mm square axle (only in combination with F	
	1st axle carried out as lift axle (only possible in combination with hydraulic spring suspension)	
F 8006 F 8016	Hydraulic rear-axle support (increased stability/double-acting controller required) Electrically switched rear-axle support for hydraulic spring suspension (increased stability)	
F 9026	Electronic load control with signal lamp on the vehicle (only possible in combination with hydraulic	
1 3020	spring suspension, 12 Volt, 3-pin socket required)	
F 9036	Signal lamp for the correct closing of the hydraulic container lock (12 V, 3-pin socket required)	
	Protective cover for container internal lock made from aluminium checkered plate	
F 9306	Tie rod, forced steering, with additional automatic telescope	
F 9546	Wide-angle universal shaft instead of the standard universal shaft	
Info:	(For forced-steering axles, a cracked push rod with ball K50 is supplied as standard.	
Info:	From tyre width > 600 and use of a steering axle, the equipment F 6016 axle spacing > 1800 mm must	
	be selected!	
R	WHEELS	
R 2000	Tyres, "new" 385/65R22.5 (105 km/h) manufacturer Continental Hybrid HT3 (EU Tire Label B,B,73)	
R 2200	Tyres, "new" 425/65R22.5 (105 km/h) manufacturer Continental (roller height approx. + 50 mm)	
R 2400	Tyres, "new" 445/65R22.5 (105 km/h) manufacturer Continental (roller height approx. + 50 mm)	
R 2581	Tyres "new" 560/60R22.5 NOKIAN Country King (tyre load at 1.5 bar 10 km/h = 5,000 kg)	
R 2631	Tyres, new 650 / 55R26.5 BKT FLOTATION RADIAL, profile FL 630, (65 km/h) 169D, (tyre load at 1.5 bar 10 km/h = 5.185 kg)	
R 2641	Tyres "new" 620/60R26.5 NOKIAN Country King (tyre load at 1.5 bar 10 km/h = 5,310 kg)	
R 2761	Tyres, new 600 / 55R26.5 BKT FLOTATION RADIAL, profile FL 630, (65 km/h) 165D, (tyre load at 1.5	
11 2701	bar 10 km/h = 4525 kg)	
R 2811	Tyres, new 650 / 55R26.5 BKT FLOTATION RADIAL, profile FL 693, (70 km/h) 169D, (tyre load at	
	1.5 bar 10 km/h = 5,185 kg)	
R 2921	Tyres, new 710/50R26.5 BKT FLOTATION RADIAL, profile FL 630, (65 km/h) 170D, (tyre load at 1.5	
	bar 10 km/h = 5.305 kg)	
R 2931		
Info:	Tyres "new" 710/50R26.5 NOKIAN Country King (tyre load at 1.5 bar 10 km/h = 5,615 kg)	
	(all tyres $\geq$ 26.5" are not compatible with the standard parabolic spring suspension, please select	Ш
lafe.	(all tyres $\geq$ 26.5" are not compatible with the standard parabolic spring suspension, please select composite steering, pneumatic or hydraulic steering in the combination with these wheels)	
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L	(all tyres $\geq$ 26.5" are not compatible with the standard parabolic spring suspension, please select composite steering, pneumatic or hydraulic steering in the combination with these wheels) From total external width of 2750 mm, equipment F 5176 warning sign package must be selected <b>PAINTWORK</b>	
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L L 1456 T T 1506	(all tyres $\geq$ 26.5" are not compatible with the standard parabolic spring suspension, please select composite steering, pneumatic or hydraulic steering in the combination with these wheels) From total external width of 2750 mm, equipment F 5176 warning sign package must be selected <b>PAINTWORK</b> Special paintwork, chassis and hook unit according to RAL tone <b>EXPERT'S REPORT/HANDING OVER</b> Expert's report for 40 km/h registration	
L L 1456 T T 1506	(all tyres $\geq$ 26.5" are not compatible with the standard parabolic spring suspension, please select composite steering, pneumatic or hydraulic steering in the combination with these wheels) From total external width of 2750 mm, equipment F 5176 warning sign package must be selected <b>PAINTWORK</b> Special paintwork, chassis and hook unit according to RAL tone <b>EXPERT'S REPORT/HANDING OVER</b> Expert's report for 40 km/h registration Expert's report for 60 km/h registration (max. 2 tonnes drawbar load permitted)	
L 1456 T T 1506 T 2006	(all tyres $\geq$ 26.5" are not compatible with the standard parabolic spring suspension, please select composite steering, pneumatic or hydraulic steering in the combination with these wheels) From total external width of 2750 mm, equipment F 5176 warning sign package must be selected <b>PAINTWORK</b> Special paintwork, chassis and hook unit according to RAL tone <b>EXPERT'S REPORT/HANDING OVER</b> Expert's report for 40 km/h registration Expert's report for 60 km/h registration (max. 2 tonnes drawbar load permitted) Expert's report for 105 km/h registration (only with F4006 + F3346 + F5106 + F5146 + F5206 + F6556	
L L 1456 T T 1506 T 2006 T 3006	(all tyres $\geq$ 26.5" are not compatible with the standard parabolic spring suspension, please select composite steering, pneumatic or hydraulic steering in the combination with these wheels) From total external width of 2750 mm, equipment F 5176 warning sign package must be selected <b>PAINTWORK</b> Special paintwork, chassis and hook unit according to RAL tone <b>EXPERT'S REPORT/HANDING OVER</b> Expert's report for 40 km/h registration Expert's report for 60 km/h registration (max. 2 tonnes drawbar load permitted) Expert's report for 105 km/h registration (only with F4006 + F3346 + F5106 + F5146 + F5206 + F6556 + R2000)	
L 1456 T 1506 T 2006 T 3006 T 5006	(all tyres $\geq$ 26.5" are not compatible with the standard parabolic spring suspension, please select composite steering, pneumatic or hydraulic steering in the combination with these wheels) From total external width of 2750 mm, equipment F 5176 warning sign package must be selected <b>PAINTWORK</b> Special paintwork, chassis and hook unit according to RAL tone <b>EXPERT'S REPORT/HANDING OVER</b> Expert's report for 40 km/h registration Expert's report for 60 km/h registration (max. 2 tonnes drawbar load permitted) Expert's report for 105 km/h registration (only with F4006 + F3346 + F5106 + F5146 + F5206 + F6556 + R2000) Technical instruction on-site	
L 1456 T 1506 T 2006 T 3006 T 5006 T 9004	(all tyres $\geq$ 26.5" are not compatible with the standard parabolic spring suspension, please select composite steering, pneumatic or hydraulic steering in the combination with these wheels) From total external width of 2750 mm, equipment F 5176 warning sign package must be selected <b>PAINTWORK</b> Special paintwork, chassis and hook unit according to RAL tone <b>EXPERT'S REPORT/HANDING OVER</b> Expert's report for 40 km/h registration Expert's report for 60 km/h registration (max. 2 tonnes drawbar load permitted) Expert's report for 105 km/h registration (only with F4006 + F3346 + F5106 + F5146 + F5206 + F6556 + R2000) Technical instruction on-site Transport costs, German post code 0-4	
L 1456 T 1506 T 2006 T 3006 T 5006	(all tyres $\geq$ 26.5" are not compatible with the standard parabolic spring suspension, please select composite steering, pneumatic or hydraulic steering in the combination with these wheels) From total external width of 2750 mm, equipment F 5176 warning sign package must be selected <b>PAINTWORK</b> Special paintwork, chassis and hook unit according to RAL tone <b>EXPERT'S REPORT/HANDING OVER</b> Expert's report for 40 km/h registration Expert's report for 60 km/h registration (max. 2 tonnes drawbar load permitted) Expert's report for 105 km/h registration (only with F4006 + F3346 + F5106 + F5146 + F5206 + F6556 + R2000) Technical instruction on-site	
L 1456 T 1506 T 2006 T 3006 T 5006 T 9004	(all tyres $\geq$ 26.5" are not compatible with the standard parabolic spring suspension, please select composite steering, pneumatic or hydraulic steering in the combination with these wheels) From total external width of 2750 mm, equipment F 5176 warning sign package must be selected <b>PAINTWORK</b> Special paintwork, chassis and hook unit according to RAL tone <b>EXPERT'S REPORT/HANDING OVER</b> Expert's report for 40 km/h registration Expert's report for 60 km/h registration (max. 2 tonnes drawbar load permitted) Expert's report for 105 km/h registration (only with F4006 + F3346 + F5106 + F5146 + F5206 + F6556 + R2000) Technical instruction on-site Transport costs, German post code 0-4	

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