

UP

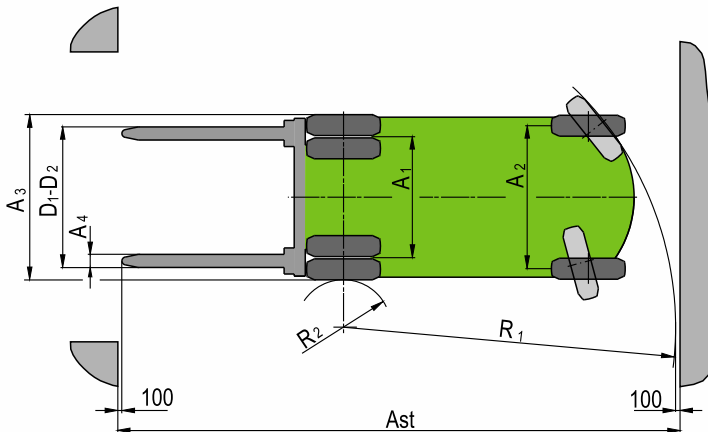
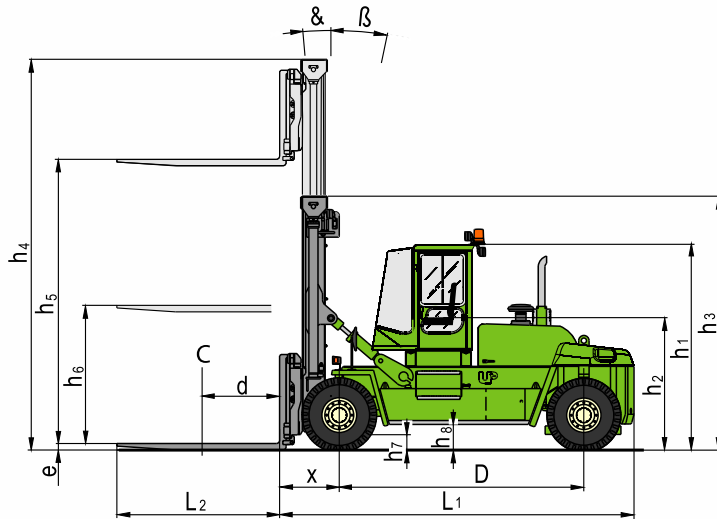
TUP 12-1200 TUP 16-1200

Forklift for general loads
12, 16 tonnes



TUP 12-1200, TUP 16-1200

Forklift for general loads. 12, 16 tonnes. 1200 mm load centre.



GROUND CLEARANCE

Under Lift-frame H_7	250
At centre of distances between axles H_8	380

Cab

- _ Excellent visibility all around: ISO/DIS 13564-1
- _ Operator's seat with air suspension
- _ Tinted safety glass
- _ Sideways tilting
- _ Tilting steering column
- _ Sound proofing ISO/TS 3691 - 7:2011
- _ Easy accessibility
- _ Joystick which controls mast and accessories.

Safety

- _ Safety-glass is used in the whole machine.
- _ Functions control by electronic system.
- _ Seat belt is incorporated.
- _ Non-slip steps to get the cabin.

Dimensions (mm)

OVERALL

Length L_1	5365
Distance between axles D	3750
Distance between wheels:	
_Centres of front axle A_1	1830
_Centre of back axle A_2	2190
Total width A_3	2530
Truck height h_1	3060
Seat height h_2	1920
Load centre d	1200
Distance of the load x	915
Height of cab at max. side shift	3580
Width of cab at max. side shift	3295

MAST

Minimum height h_3	3800
Maximum height h_4	5800
Height lift duplex h_5	4000
Height lift special duplex h_6	2000
Tilt angle	
_Forwards &	5°
_Backwards β	10°

FORKS

Thickness e	100
Width A_4	200
Length L_2	2400
Max distance between forks D_1	2265
Min distance between forks D_2	705
Maximum side-shift	390

TURNING RADIUS

Outer R_1	5085
Inner R_2	725

Environment

- _ Lowering toxic emissions engine in accordance with Stage IV/Tier 4f.
- _ The use of high elasticity steel ensures the diminution of harmful emissions to the environment.
- _ Stage II/Tier 2 or Stage IIIA/Tier 3 engines for non-regulated regions which do not belong to the EU.

Toughness

- _ Large sections made of high strength steel.
- _ Critical resistant elements get a visual and a controlled testing inspection once welded.
- _ A latest generation welding robot is used for welding.

Weights

TUP 12-1200	Unladen	Laden
Front axle	10.1 t	28.9 t
Rear axle	9.5 t	2.7 t
Total	19.6 t	31.6 t

TUP 16-1200	Unladen	Laden
Front axle	10.9 t	35.9 t
Rear axle	12.4 t	3.4 t
Total	23.3 t	39.3 t

Tyres and wheels

	Front	Rear
Number	4	2
Dimensions	(12.00x20)/20PR	(12.00x20)/20PR

Electronic control system

- _ 3.5" transfective TFT master color display
- _ Engine, transmission and satellite modules control
- _ External GSM modem
- _ Large internal memory for events and logging
- _ Instantaneous display of warnings

Transmission

Manufacturer	ZF
Model	3WG171

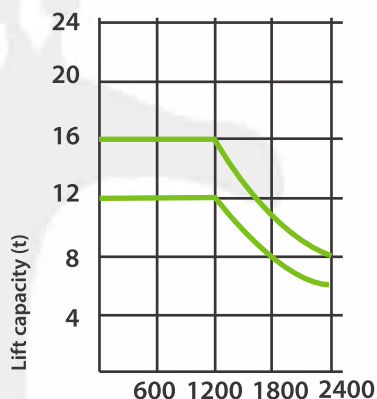
Steering

Hydraulic

Driving axle

Manufacturer	KESSLER
Model	D81PL478-NLB

Load diagram



Distance to centre of load (mm)
From the surface of the fork
The lift capacity is with vertical mast

Engine

Manufacturer	CATERPILLAR	VOLVO
Model	C4.4	TAD 571 VE
Power (ISO 3046/2534)	129 kw	129 kw
Torque	750 N m	802 N m
	1400 rpm	1500 rpm
Speed	2200 rpm	2200 rpm
Cylinders	4	4
Displacement	4399 cc	5100 cc

Speeds

	Unladen	Laden
Travel	30 km/h	25 km/h
Lifting	0.33 m/s	0.30 m/s
Lowering	0.30 m/s	0.30 m/s

Brakes

Service brake	Oil bath disc brake. No maintenance is needed
Parking brake	Disc brake. Spring applied and hydraulic released.

Starter battery

Tension	2x12 V
Capacity	165 Ah

Gradeability

Laden	2 km/h	0 km/h
TUP 12-1200	24	30
TUP 16-1200	20	26

Drawbar pull

Maximum	105 kN
Maximum 2 km laden	80 kN

Noise level

Cab	77 dB
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Optional equipment

- _ Automatic lubrication system.
- _ Cameras system.
- _ Tyre pressure control system.
- _ Fire suppression system
- _ Fleet vehicle management (electronic control system)
- _ Air-conditioner system
- _ 2 or 3 stage mast with/without free lifting.
- _ Wide range of adjustable carriages for each feature.

MACHINERY RANGE

Reach stackers

- _ Loads from 10 to 90 t



General load Lift Trucks

- _ Light duty range from 8 to 15 t
- _ Medium duty range from 16 to 25 t
- _ Heavy duty range from 28 to 60 t



Lift Trucks for containers

- _ For laden containers from 32 to 50 t
- _ For unladen containers from 3 to 8 heights
- _ Containers standard handling
- _ Containers longitudinal handling



Spreaders

- _ Telescopic from 20 to 45'
- _ Fixed
- _ Intermodal handling (Piggy- back)



UP LIFTING VERTICAL, S.A.

Ronda de la Industria, Parc 151, Pol. Sepes, 22006
Huesca
Tel. 974 229 832 Fax. 974 242 481
uplifting@gaypu.com

www.uplifting.es

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