

UP

TUP 80-1500

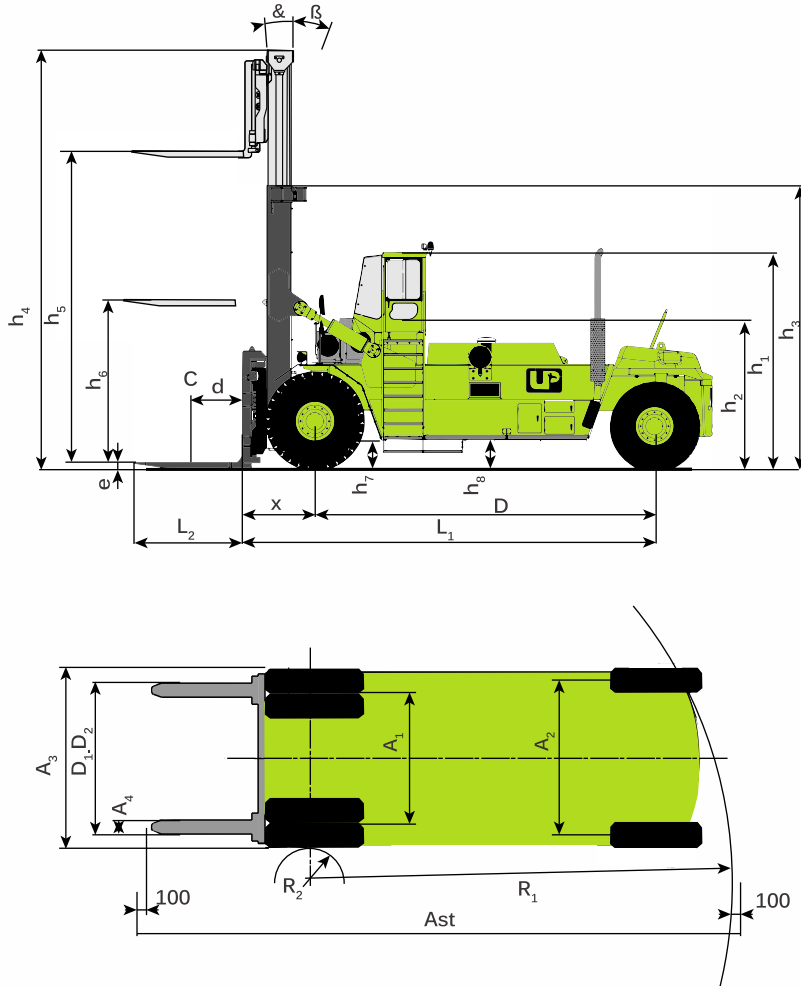
Forklift for general loads
80 tonnes



New ways to advance without pause, **step by step...**

TUP 80-1500

Forklift for general loads. 80 tonnes. 1500 mm load centre.



Dimensions (mm)

OVERALL

Length L_1	10 500
Distance between axles D	9200
Distance between wheels:	
_Centres of front axle A_1	3250
_Centre of back axle A_2	2950
Total width A_3	4600
Truck height h_1	4690
Seat height h_2	3490
Load centre d	1500
Distance of the load x	1700

MAST

Minimum height h_3	6100
Maximum height h_4	8500
Height lift duplex h_5	5000
Height lift special duplex h_6	2500
Tilt angle	
_Forwards α	5°
_Backwards β	10°

FORKS

Thickness e	160
Width A_4	600
Length L_2	2400
Max distance between forks D_1	3220
Min distance between forks D_2	1540
Maximum side-shift	400

GROUND CLEARANCE

Under lift-frame h_7	300
At centro of distances between axles h_8	500

TURNING RADIUS

Outer R_1	11 360
Inner R_2	2000

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.

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

	Unladen	Laden
Front axle	55 t	162.8 t
Rear axle	42 t	14.2 t
Total	97 t	177 t

Tyres

	Front	Rear
Number	4	2
Dimensions	(21x35)/40PR	(18x33)/40PR

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	4WG311

Steering

Hydraulic

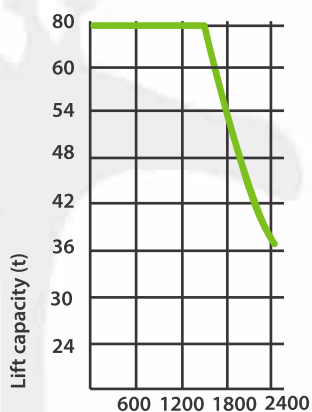
Driving axle

Manufacturer	KESSLER
Model	D111PL351 PL447NLB

Noise level

Cab	74 dB
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Load diagram



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

Engine

Manufacturer	VOLVO
Model	TAD 1341 VE
Power (ISO 3046/2534)	275 kw (2100 rpm)
Torque	1900 N m (1400 rpm)
Cylinders	6
Displacement	12.8 L

Speeds

	Unladen	Laden
Travel	25 km/h	20 km/h 10 km/h (with loads > 70 t)
Lift	0.25 m/s	0.22 m/s
Lowering	0.30 m/s	0.35 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

	2 km/h	0 km/h
Laden at continuous operation	20	25

Drawbar pull

Maximum	350 kN
Maximum 2 km laden	250 kN

Optional equipment

- _ Automatic lubrication system.
- _ Cameras system.
- _ Tyre pressure control system.
- _ Fire supression system
- _ Fleet vehicle management (electronic control system)
- _ Air-conditioner system



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)



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