

UP

TUP 10-600

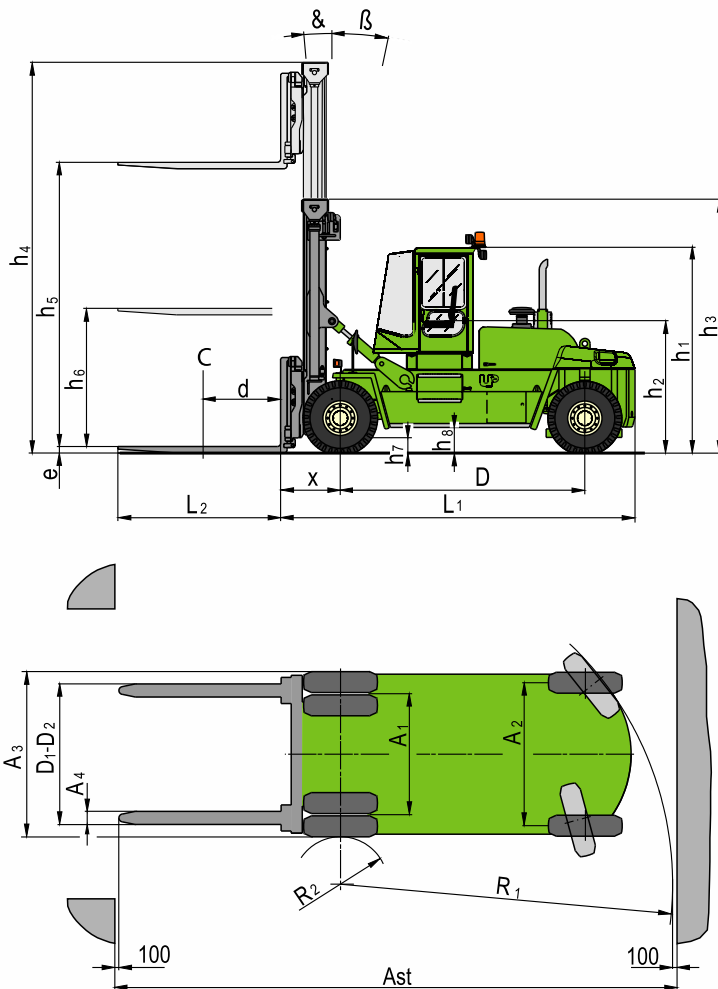
TUP 12-600

Forklift for general loads  
10, 12 tonnes



# TUP 10-600, TUP 12-600

Forklift for general loads. 10 t, 12 t. 600 mm load centre.



## Dimensions (mm)

### OVERALL

Length $L_1$	4340
Distance between axles $D$	2950
Distance between wheels:	
_Centres of front axle $A_1$	1830
_Centre of back axle $A_2$	1870
Total width $A_3$	2475
Truck height $h_1$	2920
Seat height $h_2$	1800
Height of cab at max. side shift	3450
Width of cab at max. side shift	3160
Distance of the load $x$	820
Load centre $d$	600

### MAST

Minimum height $h_3$	3500
Maximum height $h_4$	5500
Height lift duplex $h_5$	4000
Height lift special duplex $h_6$	2000
Tilt angle	
_Forwards &	5°
_Backwards $\beta$	10°

### FORKS

Thickness $e$	70
Width $A_4$	200
Length $L_2$	1600
Max distance between forks $D_1$	2370
Min distance between forks $D_2$	630
Maximum side-shift	400

### GROUND CLEARANCE

Under Lift-frame $H_7$	250
At centre of distances between axles $H_8$	350

### TURNING RADIUS

Outer $R_1$	4100
Inner $R_2$	500

## 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

TUP 10-600	Unladen	Laden
Front axle	7.5 t	22.7 t
Rear axle	6.5 t	1.5 t
Total	14.0 t	24.2 t

TUP 12-600	Unladen	Laden
Front axle	8.1 t	25.8 t
Rear axle	7.6 t	1.9 t
Total	15.7 t	27.7 t

## Tyres and wheels

TUP 10-600	Front	Rear
Number	4	2
Dimensions	(10.00x20)/16PR	(10.00x20)/16PR

TUP 12-600	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	3WG94

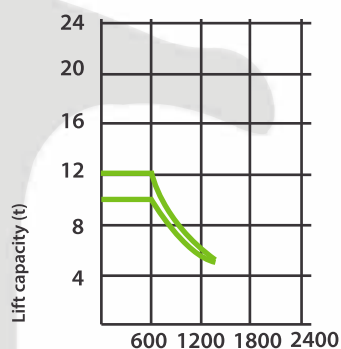
## Steering

Hydraulic

## Driving axle

Manufacturer	AXLETECH
Model	PRW-425W3h

## 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 570 VE
Power (ISO 3046/2534)	99 kw	105 kw
Torque	556 N m	662 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	23 km/h
Lift	0.3 m/s	0.3 m/s
Lowering	0.3 m/s	0.3 m/s

## Brakes

Service brake	Wet disc brake. No maintenance needed.
Parking brake	Spring applied and hydraulic release

## Starter battery

Tension	2x12 V
Capacity	110 Ah

## Gradeability

Laden	2 km/h	0 km/h
TUP 10-600	22	30
TUP 12-600	19	26

## Drawbar pull

Maximum	74 kN
Maximum 2 km laden	54 kN

## Noise level

Cabin	77 dB
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## 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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