

UP

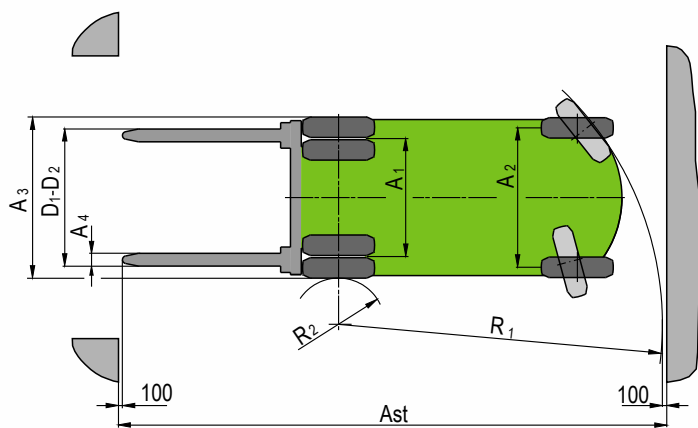
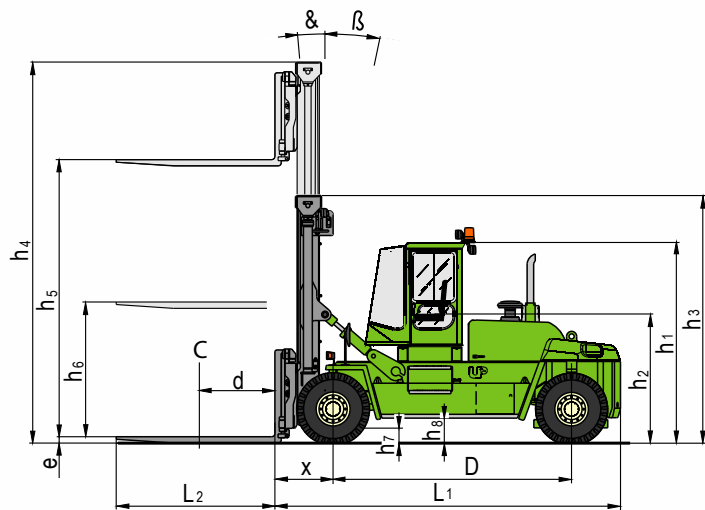
# TUP 18-1200 TUP 20-1200

Forklift for general loads  
18, 20 tonnes



# TUP 18-1200, TUP 20-1200

Forklift for general loads. 18, 20 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 accesibility
- \_ Joystick which controls mast and accesories.

## 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	TUP 18-1200	TUP 20-1200
Length $L_1$	6125	6125
Distance between axles D	4500	4500
Distance between wheels:		
_Centres of front axle $A_1$	2190	2190
_Centre of back axle $A_2$	2450	2450
Total width $A_3$	3075	3075
Truck height $h_1$	3240	3240
Seat height $h_2$	2100	2100
Load centre d	1200	1200
Distance of the load x	1075	1075
Height of cab at max. side shift	3075	3075
Width of cab at max. side shift	3560	3560

## MAST

Minimum height $h_3$	3950	3970
Maximum height $h_4$	5980	5970
Height lift duplex $h_5$	4000	4000
Height lift special duplex $h_6$	2000	2000
Tilt angle		
_Forwards &	5°	5°
_Backwards $\beta$	10°	10°

## FORKS

Thickness e	100
Width $A_4$	250
Length $L_2$	2400
Max distance between forks $D_1$	2600
Min distance between forks $D_2$	900
Maximum side-shift	450

## TURNING RADIUS

Outer $R_1$	5750
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 18-1200	Unladen	Laden
Front axle	14.2 t	41.8 t
Rear axle	13.1 t	3.5 t
Total	27.3 t	45.3 t

TUP 20- 1200	Unladen	Laden
Front axle	14.5 t	45.4 t
Rear axle	13.8 t	3.7 t
Total	28.3 t	49.1 t

## Tyres and wheels

	Front	Rear
Number	4	2
Dimensions	(14.00x24)/24PR	(14.00x24)/24PR

## 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

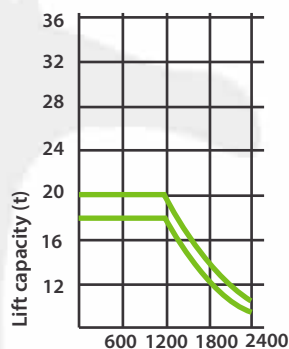
## Steering

Hydraulic

## Driving axle

Manufacturer	KESSLER
Model	D91PL489-NLB

## 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 572 VE
Power (ISO 3046/2534)	160 kw
Torque	910 N m
	1200 - 1700 rpm
Speed	2300 rpm
Cylinders	4
Displacement	5,1 L

## Speeds

	Unladen	Laden
Travel	28 km/h	25 km/h
Lift	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 18-1200	22	28
TUP 20-1200	21	26

## Drawbar pull

Maximum	130 kN
Maximum 2 km laden	105 kN

## Noise level

Cabin	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.
- \_ Integrated ram for coils or quick assembly.

## 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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