

UP



# TUP 3/4-EC

Forklift for containers  
Transversal load



# TUP 3/4-EC

Forklift for empty containers. 3/4 containers. Transversal load.

## Dimensions (mm)

OVERALL	TUP 3-EC	TUP 4-EC
Rated capacity	8000 kg	8000 kg
Length $L_1$	5830	5830
Distance between axles D	3750	3750
Distance between wheels:		
_Centres of front axle $A_1$	3110	3110
_Centre of back axle $A_2$	2190	2190
Total width $A_3$	3790	3790
Truck height $h_1$	3920	3920
Seat height $h_2$	2050	2050
Cab height when maximum side-tilt	3550	3550
Cab width when maximum side-tilt	3250	3250
Distance of the load x	1100	1100
Load centre d	1250	1250

### MAST

Minimum height $h_3$	5500	7670
Maximum height $h_4$	9000	14 000
Height lift duplex $h_5$	7000	11 300
Max.height under twistlocks $h_6$	9 300	13 600
Tilt angle		
_Forwards &	3°	3°
_Backwards $\beta$	6°	6°

### STACKING AISLE (Ast)

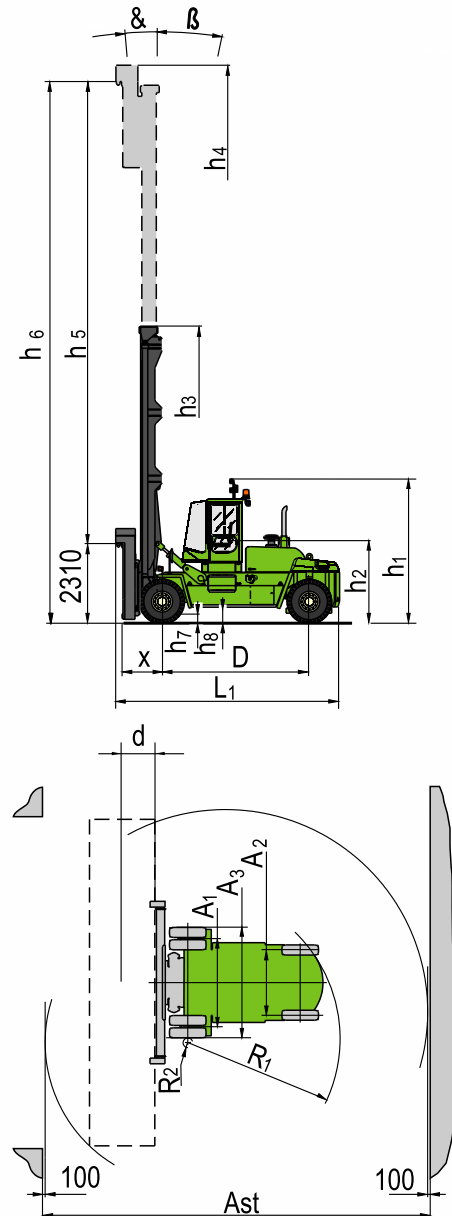
For containers of 20'	8800	8800
For containers of 40'	13 850	13 850

### GROUND CLEARANCE

Under lift frame $h_7$	250	250
At centre of distance between axles $h_8$	380	380

### TURNING RADIUS

Outer $R_1$	5050	5050
Inner $R_2$	180	180



## Cab

- \_ Excellent visibility all around: ISO/DIS 13564-1
- \_ Hydraulic reclination
- \_ Operator's seat with air suspension
- \_ Tinted safety glass
- \_ Tilting steering column
- \_ Sound proofing ISO/TS 3691 - 7:2011
- \_ Accessibility
- \_ Joystick to control spreader movements.

## Safety

- \_ Safety-glass is used in the whole machine.
- \_ Functions control by electronic system.
- \_ Safety 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 3-EC	Unladen	Laden
Front axle	15.9 t	29.2 t
Rear axle	9.9 t	4.6 t
Total	25.8 t	33.8 t

TUP 4-EC	Unladen	Laden
Front axle	17.0 t	30.3 t
Rear axle	10.9 t	5.6 t
Total	27.9 t	35.9 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

## Drawbar pull

Maximum	110 kN
Maximum 2 km laden	100 kN

## Noise level

Cabin	77 dB
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## Engine

Manufacturer	CATERPILLAR	VOLVO
Model	C4.4	TAD 571 VE
Power (ISO 3046/2534)	99 kw	129 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	28 km/h	25 km/h
Lifting	0.50 m/s	0.45 m/s
Lowering	0.40 m/s	0.50 m/s

## Brakes

Service brake	Wet disc brake with oil bath. No maintenance needed.
Parking brake	Disc, Spring applied and hydraulic released

## Starter battery

Tension	2x12 V
Capacity	165 Ah

## Gradeability

Nominal 2 km/h laden	25
0 km/h laden	28

## Spreader

_ Uplifting model	TSEUP 24-B
_ Classification	DIN 15018, H2B4
_ Load capacity	10 t
_ Weight	3550 kg
_ Telescoped pieces	20-30-40 feet
_ Twistlocks	ISO oscillating
_ Side-shift	+/-600 mm
_ Telescoping time	20 seconds

## Optional equipment

- \_ Automatic lubrication system
- \_ Camera system
- \_ Tyre pressure monitor
- \_ Fire suppression system
- \_ Air-conditioner
- \_ Vehicle fleet management (electronic control 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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