

# TLR 20 - TSR 20<sup>ac</sup>

## Technical Data



# TLR- TSR Technical Data

VDI 2198

Specification	1.1	Manufacturer		OM	OM		
	1.2	Model designation		TLR 20	TSR 20 <sup>ac</sup>		
	1.3	Power: (electric,diesel,petrol)		Electric	Electric		
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker.		Standing / rider seated	Seated with driving wheel		
	1.5	Load capacity	Q (t)	2	2		
	1.6	Load centre distance	c (mm)	600 <sup>(1)</sup>	Vedi tabella		
	1.8	Load distance, lowered / raised	x (mm)	969 / 904	Vedi tabella		
	1.9	Wheelbase, lowered / raised	y (mm)	1623 / 1558	Vedi tabella		
	Weights	2.1	Weight (battery included)	kg	1070 <sup>(1)</sup>	777 <sup>(1)</sup>	
2.2		Axle loading with load	driver side / load side	kg	1450 / 1620 <sup>(1)</sup>	1372 / 1807 <sup>(2)</sup>	
2.3		Axle loading without load	driver side / load side	kg	820 / 250 <sup>(1)</sup>	967 / 212 <sup>(3)</sup>	
Wheels and Tyres	3.1	Tyres: solid rubber, Polyurethane.		Vulkollan / (only drive wheel in Solid Rubber) <sup>(2)</sup>	Vulkollan		
	3.2	Tyre size driver side	Drive wheel / Swivel castor wheel	mm	ø 250 X 80 / ø 125 X 50	250x80 / 125x50	
	3.3	Tyre size load side		mm	ø 85 X 100 <sup>(6)</sup>	85x80	
	3.5	Wheels number	load side/driver side (x=drive wheel)		2 <sup>(7)</sup> / 1x-2	1x-2/4	
	3.6	Tread	driver side	b10 (mm)	507	584,5	
	3.7	Tread	load side	b11 (mm)	350 <sup>(1)</sup> - (500) <sup>(3)</sup>	390	
	Dimensions and Overall Sizes	4.4	Lift height		h3 (mm)	120	120
4.8				h7 (mm)	-	-	
4.9		Height max of steering wheel		h14 (mm)	1345	-	
4.15		height lowered		h13 (mm)	85	85	
4.19		Overall length		l (mm)	1970 <sup>(1)</sup>	see table	
4.20		Length to front face of forks		2 (mm)	820	938	
4.21		Overall width		b1 (mm)	796	886	
4.22		Fork dimensions		s/e/l (mm)	52 / 170 / 1150 <sup>(4)</sup>	52 / 170 / 1150	
4.25		Outside fork width dimension		b5 (mm)	520 - (670)	560	
4.32		Ground clearance centre of wheelbase		m2 (mm)	33	153	
4.33		Aisle width pallets 1000 x 1200 crossways (1200 forking side)		Ast (mm)	2026 <sup>(5)</sup>	2165	
4.34		Aisle width pallets 800 x 1200 lengthwise (800 forking side)		Ast (mm)	2226	2365 <sup>(4)</sup>	
4.35		turning radius		Wa (mm)	1795	Vedi tabella	
Performance		5.1	Travel speed	with load / without load	km/h	8 / 11	9 / 12
		5.2	Lift speed	with load / without load	m/s	0,075 / 0,109	0,073 / 0,127
	5.3	Lowering speed	with load / without load	m/s	0,05 / 0,040	0,05 / 0,040	
	5.7	Gradeability	(with load / without load) <sup>(1)</sup>	%	-	-	
	5.8	Max. Gradeability	(with load / without load) <sup>(1)</sup>	%	8 / 12	/	
	5.9	Acceleration time	(with load / without load)	s	6,34 / 4,80	-	
	5.10	service brake			Electric	Electric	
	Engine	6.1	Drive motor, S2 60 minute rating		kW	2,0	3
		6.2	Lifting motor, S3 15% rating		kW	2,0	2,2
		6.3	Battery DIN IEC 254-2; A, B, C, no			IEC 254-2; A	DIN 43535 B
6.4		Battery voltage / capacity at 5 hour rate		V / Ah	24 / 420	24 / 360-640	
6.5		Battery weight (± 5%)		Kg	370	312 / 502	
6.6		Energy consumption according to VDI cycle		Kwh/h	0,8	-	
Others	8.1	Drive control			Electronic	Electronic	
	8.4	Sound level at the driver's ear according to DIN 12053		dB (A)	< 70	< 70	

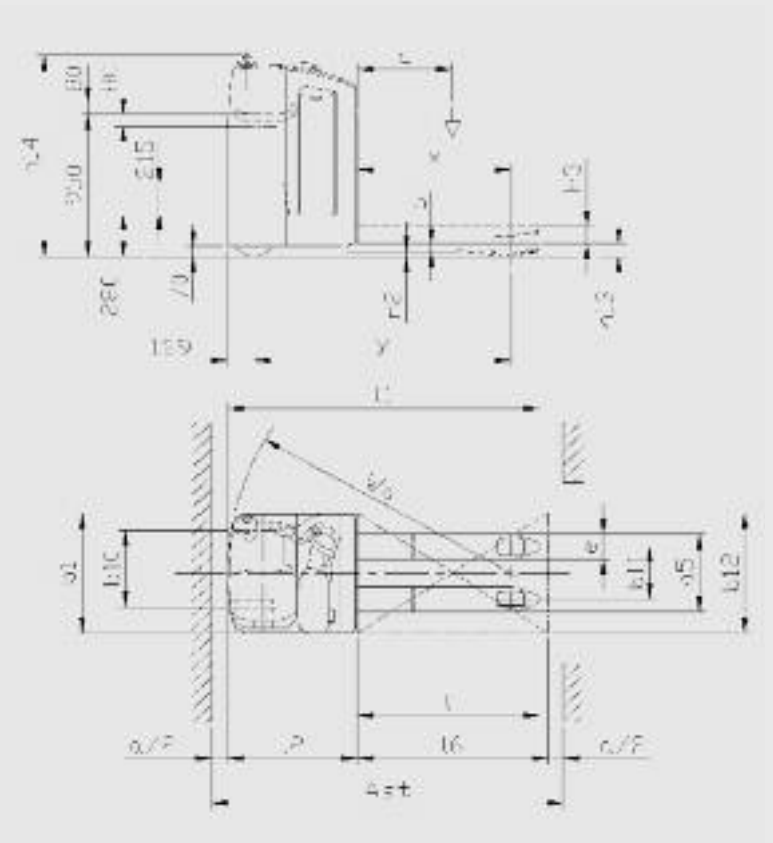
The values presented are to be taken as indicative and not binding; they refer to the standard equipment

TLR 20  
1) Value referred to fork dimensions l = 1150 x 520 mm  
2) Drive wheel in rubber (standard configuration), [drive wheel in Vulkollan, optional]  
3) Value referred to overall fork width b5= 670 mm  
4) Fork length available as option

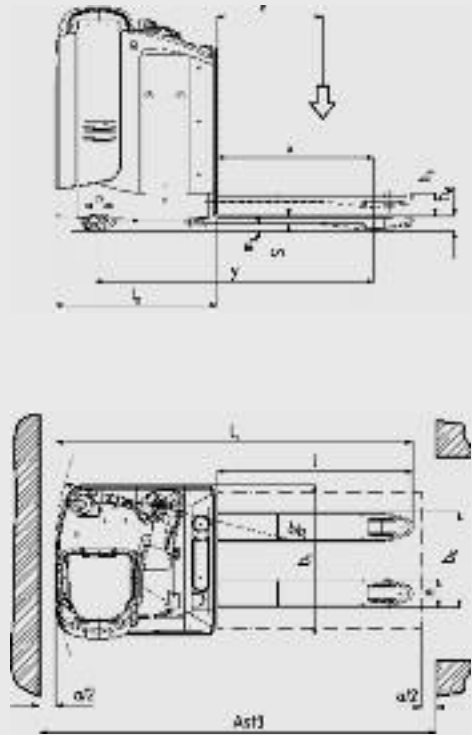
L= 1000-1200-1400-1600-2390mm  
5) With fork length l = 1000 mm  
6) Single load wheel version, (Tandem load wheel dimension [option] ø 85 X 80)  
7) Referred to the Standard version with Single load wheel (N\*4 with Tandem load wheels)

TSR 20<sup>ac</sup>  
(1) Value referred to fork dimensions l = 1150 mm  
2) Included driver on board and forks lifted and battery 4 pzs 360Ah  
3) Included driver on board and forks lowered and battery 4 pzs 360Ah  
4) For the other forks see table

TLR 20



TSR 20<sup>bc</sup>



TLR							
Fork length	mm	1000	1150	1200	1400	1600	2390
Load center	C mm	500	600	600	700	800	1200
Distance	x mm	820	969	1020	1220	1420	1840
Wheelbase	Y mm	1473	1623	1673	1873	2073	2493
Overall	L1 mm	1820	1970	2020	2220	2420	3210

TSR						
Fork length	L mm	1150	1400	1600	1800	2390
Load center	C mm	600	700	800	900	1200
Distance	x mm	910	1159	1359	1359	1781
Wheelbase	Y mm	1592	1842	2042	2042	2464
Overall	L1 mm	2088	2338	2538	2738	3328
	Wa	1873	2120	2318	2318	2734
	Ast3	2363	2561	2759	2959	3553

## TLR 20 - TSR 20<sup>ac</sup>

### Electric Rider pallet truck



TLR20



TLR20



TLR20

The TLR20 and TSR 20<sup>ac</sup> rider pallet trucks are built to tackle any type of transport activity even in the narrowest of spaces. The TSR 20<sup>ac</sup> comfortable driving position makes it the clear winner for transporting loads over long distances.

Both models offer the benefits of ergonomic operating conditions and easy maintenance.

**Chassis:** Robust steel construction consisting of the traction unit, which accommodates the driver's seat and all the controls, and the lift unit. Easy access to the motor for maintenance. 4-wheel structure provides optimum weight distribution and reduced pressure. Important features when using a goods lift. Pallet entry rollers under the fork tips allow for easier entry from the closed side.

**Driver's seat:** Spacious driver's seat designed for ergonomic operating conditions. The TLR 20 is equipped with a small seat to allow the operator to sit down while driving if necessary. The TSR20 is equipped with a hydraulically cushioned seat that can be adjusted in accordance with the driver's weight and size reducing operator fatigue. Padded armrest with document holder.

**Steering:** Power steering with a steering wheel with spinner knob, and gear transmission. The small steering wheel allows for greater speed and maneuverability. The speed of the steering motor is electronically controlled by a sensor that checks the rotations of the reducer.

**Traction:** Robust, series excited motor with forced air ventilation (TLR 20). Powerful AC technology motor High performance and optimal energy consumption due to the bevel gear transmission.

**Hydraulic system:** Compact but powerful pump unit operated from the control panel. The hydraulic functions are controlled by an electromagnetic valve and a valve that regulates the lower function. A pressure relief valve protects the system from becoming overloaded.

**Braking:** An electromagnetic brake acts as the parking brake. The truck brakes smoothly and gradually when the butterfly is operated to reverse the truck. TSR 20 is fitted with e- ABS braking system that avoid block of drive wheel during brake

**Battery:** Easily accessible for maintenance. Can be removed using a battery stand.

**Safety:** The TSR 20<sup>ac</sup> and TLR20 trucks comply with the Direttiva Macchine 98/37/CEE and are CE certified.

**Additional equipment:** Optional fork lengths. Tandem load wheels.

Technical data are given as an indication.

OM Carrelli Elevatori reserves the right to modify them without notice.

OM Carrelli Elevatori S.p.A.  
Viale A. De Gasperi, 7  
I-20020 Lainate (MI)  
Tel.: +39(02)937 65-1  
Fax: +39(02)937 65-450  
[www.om-mh.com](http://www.om-mh.com)