

VTU 1.1-2.0 tonnes

# **DESIGNED FOR HIGH PERFORMANCE IN NARROW AISLES**

With exceptional design, outstanding performance and effortless manoeuvrability, the modular VTU offers a chassis width from just 1 metre and an industry-leading maximum lifting height of 19 metres.

From the compact VTU11 to the heavy lifting VTU20, each model can be tailored to meet your specific VNA application needs.





- Available in both 48V or 80V electrical systems and fitted as standard with highly energy efficient, cool running, 4th generation AC motors.
- Easily accessible battery compartment for swift checks and changeover.
- Stable chassis innovation and micro-controller with solid state technology - for most efficient use and maximum operational cycles.



### **REDEFINING COMFORT & CONTROL**

- Ergonomically designed cabs offer wide, easy entry to a secure and safe space with a new level of operator free-movement and control, seated or standing.
- New mast design opens up excellent all-round visibility for operator confidence and safety.
- Clear display and multi-functional control for effortless control and message recognition.



### **IMPRESSIVE STABILITY AND DRIVE**

• Outstanding stability and smooth drive for increased safety, improved productivity and effortless manoeuvrability and control in all applications and on all floors surfaces.

ONS	Semi-automation	Foldable and heated seats				
0PTI(	RFID zone detection	Side shift and hydraulic fork adjustments				

32 kW lift motor with copper rotor technology for up to 7% more efficiency and lift speeds of up to 0.6 m/s

Cold-store cabin with doubleisolated, heated-glass windows and under-seat heating

# INTELLIGENT **ASSISTANCE SYSTEMS**



# **EXTENDING APPLICATION EFFICIENCY WITH INNOVATIVE OPTIONS**



### **EXCEPTIONAL CONFIDENCE** AND COMFORT OPTIONS



#### **POSITION ASSISTANCE SYSTEM**

Precise navigation with semi-autonomous operation of storage and retrieval orders using optimal driving profiles. Operator choice of automatic or manual operation increasing performance by 30%.



SIMULTANEOUS LIFTING

ATTACHMENTS FOR LARGER



**CLEAR WEIGHT INDICATOR** 



**DOUBLE DEEP STACKING** 

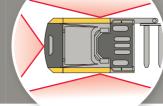
For increased efficiency





**TILTING SIDE GATES** 







TILTING CONTROL POD

For easier access to

the carried pallet.

#### For operator confidence **VICINITY ASSISTANT** and easy picking

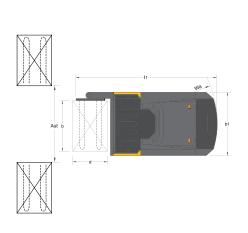
A powerful camera system for all-round visibility minimising risk of injury or damage, increasing confidence, accuracy and performance levels. Red line guidance lights improve aisle turning and forward cameras assist rail-guided aisle insertion.

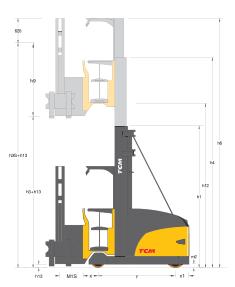


### **STANDARD SPECIFICATIONS**

CHAR	ACTERISTICS										
1.1	Manufacturer	TCM Forklifts									
1.2	Model Name			VTU11	VTU12	VTU13	VTU14	VTU15	VTU15XL	VTU20	
1.3	Drive		-				Electric				
1.4	Operation (hand, pedestrian, standing, seated, order-picker)		-	Stand-on/Rider seated							
1.5	Load capacity	Q	kg	1100	1200	1300	1350	1500	1500	2000	
1.6	Load centre	С	mm	600							
1.8	Overhang front / rear	x/x1	mm	355 / 255	355 / 255	355 / 255	365 / 255	360 / 270	360 / 270	360 / 270	
1.9	Wheelbase	у	mm	1780	1845	1910	1880	2140	2140	2140	
WEIG	its										
2.1	Weight, without load, including battery		kg	•	•	•	•	•	•	•	
2.2	Axle load with load, load side/drive side		kg	•	•	•	•	•	•	•	
2.3	Axle load without load, load side/drive side		kg	•	•	•	•	•	•	•	
WHEE	LS AND TYRES										
3.1	Tyres		-				Polyurethan				
3.2	Tyre size, load side		mm	343 / 140	343 / 140	343 / 140	377 / 178	377 / 178	377 / 178	377 / 178	
3.3	Tyre size, drive side		mm	343 / 140	343 / 140	343 / 140	343 / 140	381 / 152	381 / 152	381 /152	
3.5	Wheels, number load side/drive side (x = driven)		-	2/1x	2/1x	2/1x	2/1x	2/1x	2/1x	2/1x	
DIMENSIONS											
4.2	Height with mast fully lowered	h1	mm							•	
4.4	Lift height	h3G+h13	mm		•	•				•	
4.5	Height with mast fully extended	h4	mm		•				•	•	
4.7	Height to top of overhead guard	h6	mm	•	•				•		
4.8	Platform height lowered	h7	mm	400	400	400	400	400	400	400	
4.11	Supplementary lift	h9	mm	1900	1900	1900	1900	1900	1900	1500	
4.14a	Platform height raised	h12	mm	•	•	•		•	•	•	
4.14b	Picking height		mm								
4.15	Fork height, fully lowered	h13	mm	90	90	90	90	90	90	90	
4.19a	Overall length with fork carrier width 850 mm	l1	mm		•			•	•	•	
4.19b	Overall length with fork carrier width 580 mm	11	mm								
	Support boom length	M1S	mm								
4.21	Overall width	b1	mm								
4.22a	Fork dimensions (thickness / width)	s/e	mm	40 / 120	40 / 120	40 / 120	40 / 120	40 / 120	40 / 120	40 / 120	
4.22b	Fork dimensions (length)	1	mm	•	•	•	•	•	407 120	+07120	
4.25	Width across forks (fork carrier width 580 / 850 mm)	b5	mm		•				•		
4.32	Ground clearance at centre of wheelbase	m2	mm	40	40	40	40	40	40	40	
4.33a	Working aisle width with pallet 1000 x 1200 mm crossways	Ast	mm	•	•	•	•	•	•	•	
4.34a	Working asse width with pallet 1000 x 1200 mm lengthways	Ast	mm		•						
4.35	Turning radius	Wa	mm	2080	2145	2210	2170	2445	2445	2445	
	DRMANCE	vva	111111	2080	2145	2210	2170	2445	2445	2443	
5.1	Travelling speed, with/without load		km/h	1			12.0 / 12.0				
5.1	Lifting speed, with/without load		m/s	0.32 / 0.40 1)	0.31 / 0.40 1)	0.52 / 0.56 1)	0.49 / 0.52 1)	0.48 / 0.52 1)	0.44 / 0.52	0.48 / 0.56	
5.2				0.45 / 0.45	0.45 / 0.45						
5.3	Lowering speed, with/without load		m/s m/s			0.45 / 0.45	0.45 / 0.45	0.45 / 0.45	0.45 / 0.45	0.45 / 0.45	
	Reach speed, with/without load (adjustable)		m/s	up to 0.45	up to 0.45	up to 0.45	up to 0.45	up to 0.45	up to 0.45	0.20 / 0.20	
5.10	Service brake FRIC MOTOR		_				Electro-magnetion				
			LAAZ	5.0	E 0	7.0	7.0	7.0	7.0	7.0	
6.1	Drive motor		kW	5.0	5.0	7.0	7.0	7.0	7.0	7.0	
6.2	Lift motor		kW	12.5 1)	12.5 1)	21.0 1)	21.0 1)	21.0 1)	32.0	32.0 1)	
6.4	Battery voltage / capcaity		V/Ah	48 / 775 2) 3)	48 / 930 2) 3)	80 / 620 <sup>3)</sup>	80 / 465 3)	80 / 775 3)	80 / 775 3	80 / 775 3)	
6.5	Battery weight		kg	1118	1309	1558	1238	1862	1862	1862	
OTHE											
8.1	Type of drive control		-	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	

<sup>•</sup> Specification and dimensions will vary depending on application. Please contact your TCM Dealer for further information. 1) Higher lift speeds on request. 2) Also available in 80 volt. 3) Other capacities on request.







#### tcm.eu