

VFS120 / TLF820 Forklift Scales

Up to 40% Faster Pallet Handling



Speed Up Pallet Handling

With the right forklift scale, you can cut pallet handling times by up to 40%. Reduce the number of steps required to create a pallet profile for pricing, invoicing, inventory management and load planning.



Seamless Process Integration

Designed to become an integral part of your freight handling process, weighing data can be transmitted via Smart PC to your inventory management or invoicing system. Pre-configured workflow software offers step-by-step guidance to operators for optimal workflow efficiency.



Cut Maintenance Costs in Half

While other scales require re-calibration 2-3 times per year, our patented 3-point suspension holds calibration for up to 12 months, cutting maintenance costs in half. Accuracy tolerances are monitored automatically so that you don't need to take time out to check the scale yourself.



Reduce Risk of Accident

Accidents happen daily in the fast-paced LTL industry. With the largest viewing window in the industry and the option of a virtual terminal, our forklift scales provide maximum visibility for safe pallet loading, positioning and transport.



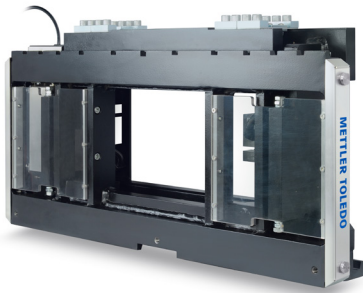
Save Time and Money With Forklift Scales

Whether your business is freight logistics, shipping or warehousing, weighing can be an extra step that slows down your process.

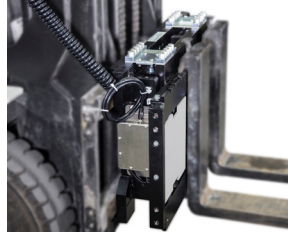
METTLER TOLEDO offers a full range of solutions that turn weighing into a one-step process. Choose the VFS120 for weighing only, or a TLF820 for a fully integrated solution with smart data management. These scales are designed for use in tough, industrial environments and set the standard for reliable, safe, accurate weighing in heavy-use environments.

Forklift Scale Solutions

Choose the right scale for your operation based on your integration requirements



VFS120
Basic Connectivity



TLF820
Advanced Connectivity



Description	Forklift weighing for simple applications with limited data integration.	Forklift weighing with advanced connectivity and data integration.
Data Interface	IND236 for forklifts	Smart PC / Compatible Display
Data Interface Connection	Cable	Bluetooth
Data Transmission	Bluetooth (optional)	Bluetooth, WiFi
Data Management Requirements		
Simple weighing with manual processing	•	
Automatic data transfer to third party devices		•
Fully integrated data management via Smart PC		•
Full operator guidance displayed on Smart PC		•

Model Specific Specifications

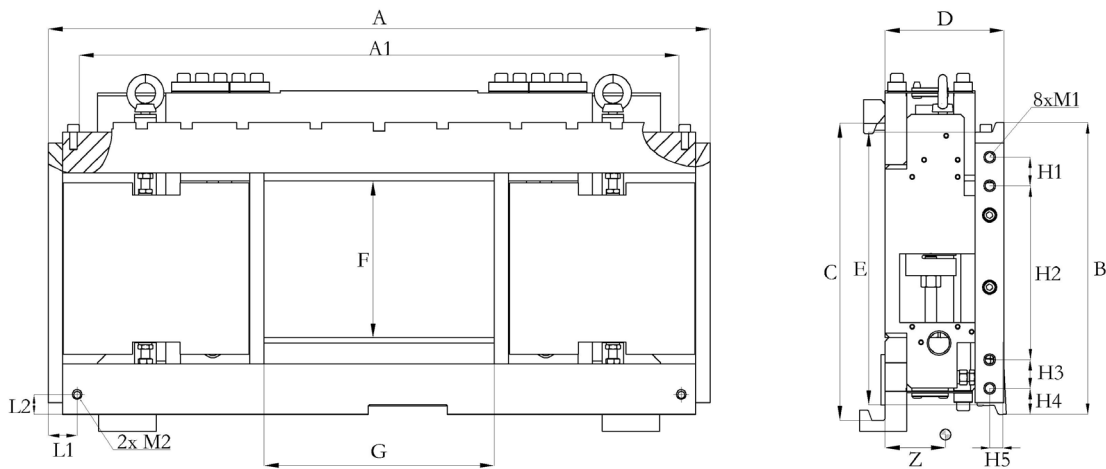
This table will help you to check your truck carriage and select the correct scale capacity and resolution.

Model Name		VFS120 / TLF820													
Scale Capacity	t	1.5				2				3		5			
Installation Class		II						III						IV	
Width of Carriage (A)	mm	762	920	1000	1040	920	1000	1040	1150	1100	1150	1250	1250		
Carriage Weight	kg	140	165	175	180	165	180	185	200	245	255	285	370		
Weighing Specifications															
Forklift Rated Capacity	kg	1,000 - 1,600				1,601 - 2,500				2,501 - 3,000		3,001 - 4,999		5,000 - 6,000	
	lb	2,200 - 3,520				3,521 - 5,500				5,501 - 6,600		6,601 - 10,000		10,001 - 13,200	
Scale Capacity	kg	1500				2000				3000		5000			
	lb	3000				5000				7500		10,000			
Resolution (e)	kg	1				2				5					
	lb	2				5				10					
Fork Specifications															
Certified Fork Length	mm	1070	1220*								1520				
	inch	42	48								60				
Certified Fork Spacing	mm	530	660	760		660	760				920				
	inch	21	26	30	26	30	30				36				
Certified Pallet Size (WxL)	mm	1,070 x 1,070	1,220 x 1,220								1,520 x 1,520				
	inch	42 x 42	48 x 48								60 x 60				

*For TLF820 with capacities 2000 kg and 3000 kg, the max certified fork length for Australia is 1520 mm.

Physical Dimensions

The VFS120 and the TLF820 share the same mechanical design and are easily installed on to the majority of forklift trucks.



Model Specific Specifications

This table will help you to determine the exact dimensions of the scale required for your forklift truck.

Model Name		VFS120 / TLF820											
Scale Capacity	kg	1500				2000				3000		5000	
	lb	3000				5000				7500		10000	
Installation Class□		II						III				IV	
Width of Carriage (A)	mm	762	920	1000	1040	920	1000	1040	1150	1100	1150	1250	1250
	inch	30	36	39.5	41	36	39.5	41	45	43	45	49	49
Dimensions													
Fork Movable Distance (A1)	mm	676	834	914	954	834	914	954	1064	1004	1054	1154	1122
	inch	26.6	32.8	36	37.6	32.8	36	37.6	41.5	39.5	41.5	45.4	45.4
Load Center	mm	700											
	inch	27.6											
Load Loss Distance (D)	mm	165						175					
	inch	6.5						6.9					
Horizontal Center of Gravity (Z)	mm	82						87					
	inch	3.3						3.4					
B	mm	407						508				635	
	inch	16						20				25	
C	mm	411						512				639	
	inch	16.2						20.1				25.2	
E	mm	381						476				595	
	inch	14.8						18.8				23.4	
F	mm	217						299				350	
	inch	8.5						11.8				13.8	
G	mm	162	320	400	440	320	400	440	460	600		530	
	inch												
H1/3	mm	40						42				75	
	inch	1.6						1.7				3	
H2	mm	241						338				369	
	inch	9.5						13.3				14.5	
H4	mm	38						43.5				56	
H5	mm	20						25					
M1	mm	M14 x 1.5										M16X2	
L1	mm	40											
L2	mm	27						18					
M2	mm	M12 x 1.75											

Scale Specifications

Weighing Specifications	
Capacity*	1500 / 2000 / 3000 / 5000 kg 3000 / 5000, 7500, 10000 lbs
Resolution	1,000~1,500e
Accuracy	III
Stable Weighing Time	1-2 seconds
Angular Compensation Range	Pitch $\pm 5^\circ$, Roll $\pm 3^\circ$
Overload	Safe overload: 150% Limited Overload: 300%
Capacity Loss	~15% of forklift capacity
IP Protection	IP65 for electric parts
Approvals	
VFS120	NTEP, OIML, CPA, MC
TLF820	NTEP, OIML, CPA, MC

Enclosure / Environment	
Material	Steel
Operating Temperature	-10°C to 40°C
Power	12~36 VDC by forklift battery or 9 VDC battery
Load Cell Specifications	
Load Cells	TSH Loadcells
Protection	IP68
Material	Stainless steel

*Capacities 3000 lbs and 5000 lbs are NTEP approved.
TLF820 capacities 2000 kg, 3000 kg, 5000 kg are NMI approved for Australia market.

Accessories

Choose from a range of accessories that support and enhance your forklift scale.

Article Number	Description	VFS120	TLF820
61045699	Multi-directional bracket for attaching the terminal or Smart PC to the forklift, providing easy angle adjustment. North America only.	•	•
30237451	Multi-directional bracket for attaching the terminal or Smart PC to the forklift, providing easy angle adjustment. Rest of world.	•	•
30463385	Bracket for fastening the Smart PC onto the forklift.		•
30492650	CNC660 advanced PC Windows OS with OCTO kit.		•
30293678	Bluetooth kit for communication between scale terminal and PDA.	•	
30237455	Cabling wheel for coiled cable. Extends cable lifetime.	•	
30460100	Fixed barcode reader to be mounted onto the forklift truck for easy pallet identification.		•
30428572	Paired bluetooth devices for communication between the scale and Smart PC.		•
30463386	Coiled power cable. Coils up neatly out of the way when forks are lifted.		•
30249667	Power supply 5 m cable, 24VDC IND236 Indicator.	•	•
30293671	Coiled data transmission cable. Connects the forklift scale to the weighing terminal. Coils up neatly out of the way.	•	
30293679	Data transmission 5 m cable extension.	•	
30793530	KOP Battery and charger TLF820. Including the battery and battery charger (US/EU).		•
30697076	Battery mate kit TLF820 (for the standard scale width 920 mm).		•

www.mt.com/forkliftscales

For more information



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Part number: 30455654D
Subject to technical changes
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