



# Technical specifications



**FD**  
series

6.0-10.0 t



world wide network

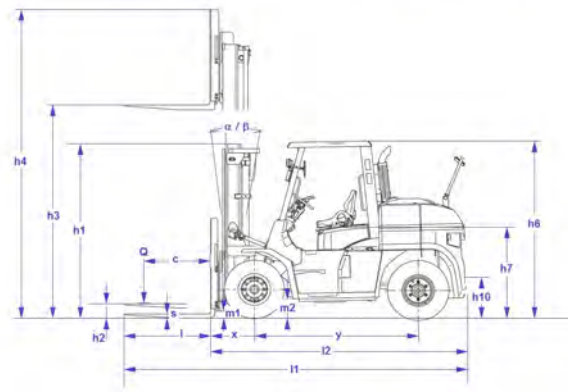
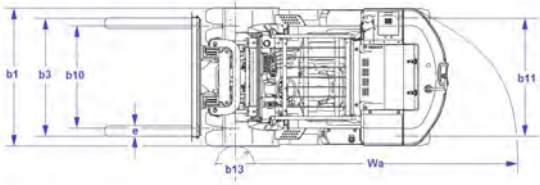
24/7  
support

**STANDARD SPECIFICATIONS**

		Counterbalance trucks Designation according VDI 3586	Data sheet for materials handling equipment			
		Manufacturers Data and Design Characteristics				
<b>CHARACTERISTICS</b>	1.1	Manufacturer	M. LOGISNEXT			
	1.2	Model	FD60-4L	FD60-4	FD70-4L	FD70-4
	1.3	Power unit: Electric, Diesel, Gasoline, LPG, others	Diesel			
	1.4	Operation: Sit, Hand, Pedestrian, Standing, Order picking	Sit Down Rider Type			
	1.5	Load capacity	Q (t)	6.0	7.0	
	1.6	Load centre	c (mm)	600	600	
	1.8	Front overhang	x (mm)	615	625	
	1.9	Wheel base	y (mm)	2300	2300	
	<b>WEIGHTS</b>	2.1	Service weight	kg	8610	9480
2.2		Axle load with load, front/rear	kg	13020/1590	13030/1640	14630/1850
2.3		Axle load without load, front/rear	kg	3850/4760	3860/4810	3900/5580
<b>WHEELS &amp; TIRES</b>	3.1	Tyres front/rear (C=Cushion, SE=superelastic, P=pneumatic)	P(SE)/P(SE)			
	3.2	Tyre size, front	8.25-15-14PR		8.25-15-14PR	
	3.3	Tyre size, rear	8.25-15-14PR		8.25-15-14PR	
	3.5	Wheels, number front/rear (x=powered)	4x/2		4x/2	
	3.6	Tread, front	b10 (mm)	1470	1470	
	3.7	Tread, rear	b11 (mm)	1700	1700	
	<b>DIMENSIONS</b>	4.1	Tilt Mast/carriage, forward/backward	$\alpha/\beta$ (°)	6/12	6/12
4.2		Height mast fully lowered	$h_1$ (mm)	2500	2500	
4.3		Free lift	$h_2$ (mm)	205	215	
4.4		Lift height	$h_3$ (mm)	3000	3000	
4.5		Height mast fully extended	$h_4$ (mm)	4420	4420	
4.7		Overhead guard height	$h_6$ (mm)	2550	2550	
4.8		Seat height/Standing height	$h_7$ (mm)	1420	1420	
4.12		Towing coupler height	$h_{10}$ (mm)	520	520	
4.19		Overall length	$l_1$ (mm)	4805	4875	
4.20		Length to fork face	$l_2$ (mm)	3585	3655	
4.21		Overall width <sup>1</sup>	$b_1$ (mm)	2005	2005	
4.22		Fork dimensions	s,e,l (mm)	60x150x1220	70x150x1220	
4.23		Carriage DIN 15173, Class / Form A,B		4A	4A	
4.24		Carriage width	$b_3$ (mm)	1845	1845	
4.31		Mast underclearance loaded	$m_1$ (mm)	200	200	
4.32		Underclearance centre wheelbase	$m_2$ (mm)	225	225	
4.33		Right angle stacking aisle with pallet 1000x1200 crossways	Ast (mm)	5215	5285	
4.34	Right angle stacking aisle with pallet 800x1200 lengthways	Ast (mm)	5415	5485		
4.35	Turning radius	Wa (mm)	3400	3460		
4.36	Turning radius, inner	$b_{13}$ (mm)	250	250		
<b>PERFORMANCE</b>	5.1	Travelling speed with/without load	km/h	21/25	25/28	21/25
	5.2	Lifting speed with/without load	mm/s	395/440	530/550	395/440
	5.3	Lowering speed with/without load	mm/s	450/500		450/500
	5.6	Drawbar pull, with/without load	kN	49.0/21.6	54.9/21.6	49.0/21.6
	5.8	Gradeability with/without load	%	24/20	28/20	24/20
	5.10	Service brake		Hydraulic		
<b>DRIVE</b>	7.1	Engine manufacturer/type	KUBOTA-V3800			
	7.2	Engine rated power according ISO 1585	kW	55	81	55
	7.3	Rated engine revolutions	min <sup>-1</sup>	2200	2400	2200
	7.4	Number of cylinders/Displacement	cm <sup>3</sup>	4/3769		4/3769
<b>OTHERS</b>	8.1	Type of drive control	Torque converter/1			
	8.2	Working pressure attachments	bar	206		
	8.4	Noise level operator's ear according EN12053*1	dB(A)	84	86	84

\*) Noise level at operator's ear in ECO-mode

### DIMENSIONS



### MAST SPECIFICATIONS & RATED CAPACITIES: FD: 6.0 TONNE

Mast type	Mast name	Maximum fork height	Overall height			Free lift		Tilt angle Forward/backward	Load capacity <sup>2</sup> Load center 600 mm
			Fully lowered	Fully extended		Without backrest	With Std backrest		
				mm <sup>1</sup>	mm <sup>1</sup>				
TWO STAGE WIDE VIEW	VM300	3000	2500	3950	4420	205	205	6-12 (6-10)	6000
	VM330	3300	2650	4250	4720				
	VM350	3500	2750	4450	4920				
	VM400	4000	3050	4975	5420			6-6	
	VM450	4500	3300	5475	5920				
	VM500	5000	3550	5975	6420			3-6	
	VM550	5500	3850	6525	6920				
	VM600	6000	4100	7025	7420				
TWO STAGE FULL FREE	VFM300	3000	2625	4095	4420	1580	1255	6-12 (6-10)	6000
	VFM330	3300	2775	4395	4720	1730	1405		
	VFM350	3500	2875	4595	4920	1830	1505		
	VFM400	4000	3175	5095	5420	2130	1805		
	VFM450	4500	3425	5595	5920	2380	2055		
THREE STAGE FULL FREE WIDE VIEW	VFHM400	4000	2500	5075	5400	1455	1130	6-10 (6-6)	5800
	VFHM435	4350	2625	5425	5750	1580	1255		
	VFHM480	4800	2775	5875	6200	1730	1405	6-10	
	VFHM500	5000	2875	6075	6400	1830	1505		
	VFHM550	5500	3130	6575	6900	2085	1760	3-6	
	VFHM600	6000	3300	7075	7400	2255	1930		
	VFHM700	7000	3675	8075	8400	2630	2305		
	VFHM800	8000	4100	9075	9400	3055	2730		
									5700
									5500
							5000		
							4000		
							2500		

<sup>1</sup> 1 inch = 25.4 mm 1 kg = 0.4536 lb <sup>2</sup> Capacity with pneumatic tyres unless indicated

### MAST SPECIFICATIONS & RATED CAPACITIES: FD: 7.0 TONNE

Mast type	Mast name	Maximum fork height	Overall height			Free lift		Tilt angle Forward/backward	Load capacity <sup>2</sup> Load center 600 mm
			Fully lowered	Fully extended		Without backrest	With Std backrest		
				mm <sup>1</sup>	mm <sup>1</sup>				
TWO STAGE WIDE VIEW	VM300	3000	2500	4105	4420	215	215	6-12 (6-10)	7000
	VM330	3300	2650	4405	4720				
	VM350	3500	2750	4605	4920				
	VM400	4000	3050	5105	5420			6-6	
	VM450	4500	3300	5605	5920				
	VM500	5000	3550	6105	6420			3-6	
	VM550	5500	3850	6605	6920				
	VM600	6000	4100	7105	7420				
TWO STAGE FULL FREE	VFM300	3000	2625	4095	4420	1590	1265	6-12 (6-10)	7000
	VFM330	3300	2775	4395	4720	1740	1415		
	VFM350	3500	2875	4595	4920	1840	1515		
	VFM400	4000	3175	5095	5420	2140	1815		
	VFM450	4500	3425	5595	5920	2390	2065		
THREE STAGE FULL FREE WIDE VIEW	VFHM400	4000	2500	5075	5400	1465	1140	6-10 (6-6)	6800
	VFHM435	4350	2625	5425	5750	1590	1265		
	VFHM480	4800	2775	5875	6200	1740	1415	6-10	
	VFHM500	5000	2875	6075	6400	1840	1515		
	VFHM550	5500	3130	6575	6900	2095	1770	3-6	
	VFHM600	6000	3300	7075	7400	2265	1940		
	VFHM700	7000	3675	8075	8400	2640	2315		
	VFHM800	8000	4100	9075	9400	3065	2740		
									6700
									6400
							6000		
							4500		
							2700		

<sup>1</sup> 1 inch = 25.4 mm 1 kg = 0.4536 lb <sup>2</sup> Capacity with pneumatic tyres unless indicated

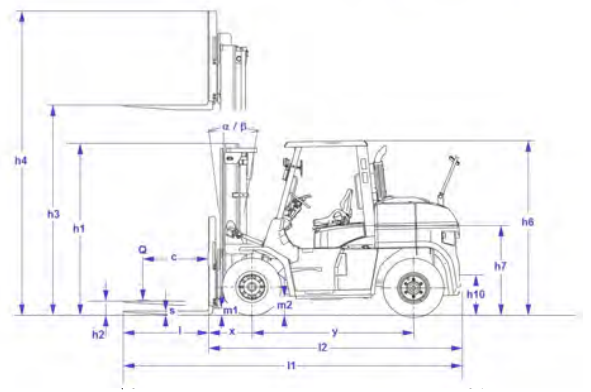
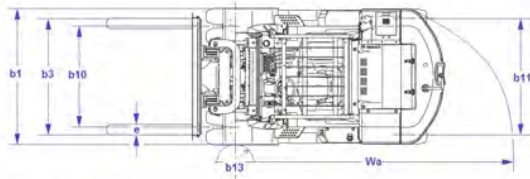
## STANDARD SPECIFICATIONS

		Counterbalance trucks Designation according VDI 3586	Data sheet for materials handling equipment		
		Manufacturers Data and Design Characteristics			
CHARACTERISTICS	1.1	Manufacturer	M. LOGISNEXT		
	1.2	Model	FD80-4	FD100-4	
		Power unit: Electric, Diesel, Gasoline, LPG, others	Diesel		
	1.4	Operation: Sit, Hand, Pedestrian, Standing, Order picking	Sit Down Rider Type		
	1.5	Load capacity	Q (t)	8.0	10.0
	1.6	Load centre	c (mm)	600	600
	1.8	Front overhang	x (mm)	720	715
	1.9	Wheel base	y (mm)	2500	2800
	WEIGHTS	2.1	Service weight	kg	11510
2.2		Axle load with load, front/rear	kg	17360/2150	20660/2250
2.3		Axle load without load, front/rear	kg	5140/6370	5980/6930
WHEELS & TIRES	3.1	Tyres front/rear (C=Cushion, SE=superelastic, P=pneumatic)	P(SE)/P(SE)		
	3.2	Tyre size, front	9.00-20-14PR	9.00-20-14PR	
	3.3	Tyre size, rear	9.00-20-14PR	9.00-20-14PR	
	3.5	Wheels, number front/rear (x=powered)	4x/2	4x/2	
	3.6	Tread, front	b10 (mm)	1600	1600
	3.7	Tread, rear	b11 (mm)	1700	1700
	DIMENSIONS	4.1	Tilt Mast/carriage, forward/backward	$\alpha/\beta$ (°)	6/12
4.2		Height mast fully lowered	$h_1$ (mm)	2800	2850
4.3		Free lift	$h_2$ (mm)	205	205
4.4		Lift height	$h_3$ (mm)	3000	3000
4.5		Height mast fully extended	$h_4$ (mm)	4420	4330
4.7		Overhead guard height	$h_6$ (mm)	2660	2660
4.8		Seat height/Standing height	$h_7$ (mm)	1570	1570
4.12		Towing coupler height	$h_{10}$ (mm)	600	590
4.19		Overall length	$l_1$ (mm)	5245	5485
4.20		Length to fork face	$l_2$ (mm)	4025	4265
4.21		Overall width <sup>1</sup>	$b_1$ (mm)	2175	2245
4.22		Fork dimensions	s,e,l (mm)	75x180x1220	75x180x1220
4.23		Carriage DIN 15173, Class / Form A,B		4A	-
4.24		Carriage width	$b_3$ (mm)	2015	2208
4.31		Mast underclearance loaded	$m_1$ (mm)	240	240
4.32		Underclearance centre wheelbase	$m_2$ (mm)	290	290
4.33		Right angle stacking aisle with pallet 1000x1200 crossways	$A_{st}$ (mm)	5630	5865
4.34		Right angle stacking aisle with pallet 800x1200 lengthways	$A_{st}$ (mm)	5830	6065
4.35	Turning radius	$W_a$ (mm)	3710	3950	
4.36	Turning radius, inner	$b_{13}$ (mm)	200	350	
PERFORMANCE	5.1	Travelling speed with/without load	km/h	24/28	24/27
	5.2	Lifting speed with/without load	mm/s	440/460	350/370
	5.3	Lowering speed with/without load	mm/s	450/450	450/350
	5.6	Drawbar pull, with/without load	kN	59.8/27.5	63.7/31.4
	5.8	Gradeability with/without load	%	25/20	21/20
	5.10	Service brake		Hydraulic	
DRIVE	7.1	Engine manufacturer/type	KUBOTA/V3800		
	7.2	Engine rated power according ISO 1585	kW	81	
	7.3	Rated engine revolutions	min <sup>-1</sup>	2400	
	7.4	Number of cylinders/Displacement	cm <sup>3</sup>	4/3769	
OTHERS	8.1	Type of drive control	Torque converter/1		
	8.2	Working pressure attachments	bar	206	
	8.4	Noise level operator's ear according EN12053*1	dB(A)	86	

\*1) Noise level at operator's ear in ECO-mode



**DIMENSIONS**



**MAST SPECIFICATIONS & RATED CAPACITIES: FD: 8.0 TONNE**

Mast type	Mast name	Maximum fork height	Overall height			Free lift		Tilt angle Forward/backward	Load capacity <sup>2</sup> Load center 600 mm	
			Fully lowered	Fully extended		Without backrest	With Std backrest			
				Without backrest	With Std backrest					Without backrest
mm <sup>1</sup>	mm <sup>1</sup>	mm <sup>1</sup>	mm <sup>1</sup>	mm <sup>1</sup>	mm <sup>1</sup>	degrees	kg <sup>1</sup>			
TWO STAGE WIDE VIEW	VM300	3000	2800	4230	4420	205	205	6-12	8000	
	VM330	3300	2950	4445	4720					
	VM350	3500	3050	4645	4920					
	VM400	4000	3350	5145	5420					
	VM450	4500	3600	5645	5920					
	VM500	5000	3850	6145	6420					
	VM550	5500	4150	6645	6920					
	VM600	6000	4400	7145	7420					
TWO STAGE FULL FREE	VFM300	3000	2700	4210	4420	1580	1345	6-12	8000	
	VFM330	3300	2850	4510	4720	1730	1495			
	VFM350	3500	2950	4710	4920	1830	1595			
	VFM400	4000	3250	5210	5420	2130	1895			
	VFM450	4500	3500	5710	5920	2380	2145			
THREE STAGE FULL FREE WIDE VIEW	VFHM400	4000	2575	5165	5400	1455	1220	6-10	7700	
	VFHM435	4350	2700	5515	5750	1580	1345			
	VFHM480	4800	2850	5965	6200	1730	1495			
	VFHM500	5000	2950	6165	6400	1830	1595			
	VFHM550	5500	3205	6665	6900	2085	1850	3-6	7300	
	VFHM600	6000	3375	7165	7400	2255	2020			
	VFHM700	7000	3750	8165	8400	2630	2395			
	VFHM800	8000	4175	9165	9400	3055	2820			
										6700
										5400
							3500			

<sup>1</sup> 1 inch = 25.4 mm 1 kg = 0.4536 lb <sup>2</sup> Capacity with pneumatic tyres unless indicated

**MAST SPECIFICATIONS & RATED CAPACITIES: FD: 10.0 TONNE**

Mast type	Mast name	Maximum fork height	Overall height		Free lift	Tilt angle Forward/backward	Load capacity <sup>2</sup> Load center 600 mm
			Fully lowered	Fully extended with Std backrest <sup>3</sup>			
					mm <sup>1</sup>		
TWO STAGE WIDE VIEW	VM300	3000	2850	4330	205	6-12	10000
	VM330	3300	3000	4630			
	VM350	3500	3100	4830			
	VM400	4000	3400	5330			
	VM450	4500	3650	5830			
	VM500	5000	3900	6330			
	VM550	5500	4200	6830			
	VM600	6000	4450	7330			
					6-6	9000	
					3-6	8000	

<sup>1</sup> 1 inch = 25.4 mm 1 kg = 0.4536 lb <sup>2</sup> Capacity with pneumatic tyres unless indicated <sup>3</sup> Backrest is not adopted.



**It's all about  
the price.  
But what  
price?**

## **Reduce your Total Cost of Ownership with TCM**

We agree. Price is everything. Or to be more specific: your Total Cost of Ownership (TCO). That's why we're so focused on cutting costs and improving your material handling. The truck and its performance play an important role, but this is even more about how we can support you in optimising your business operations to give you the best value for your money. Which – in the long run – is what creates a winner.

**TCM Material Handling**  
**FD.EN/TCM-2018-06**

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Some equipment shown on photos are optional.