

TECHNICAL SPECIFICATIONS

FD100-160(S)-3(H)

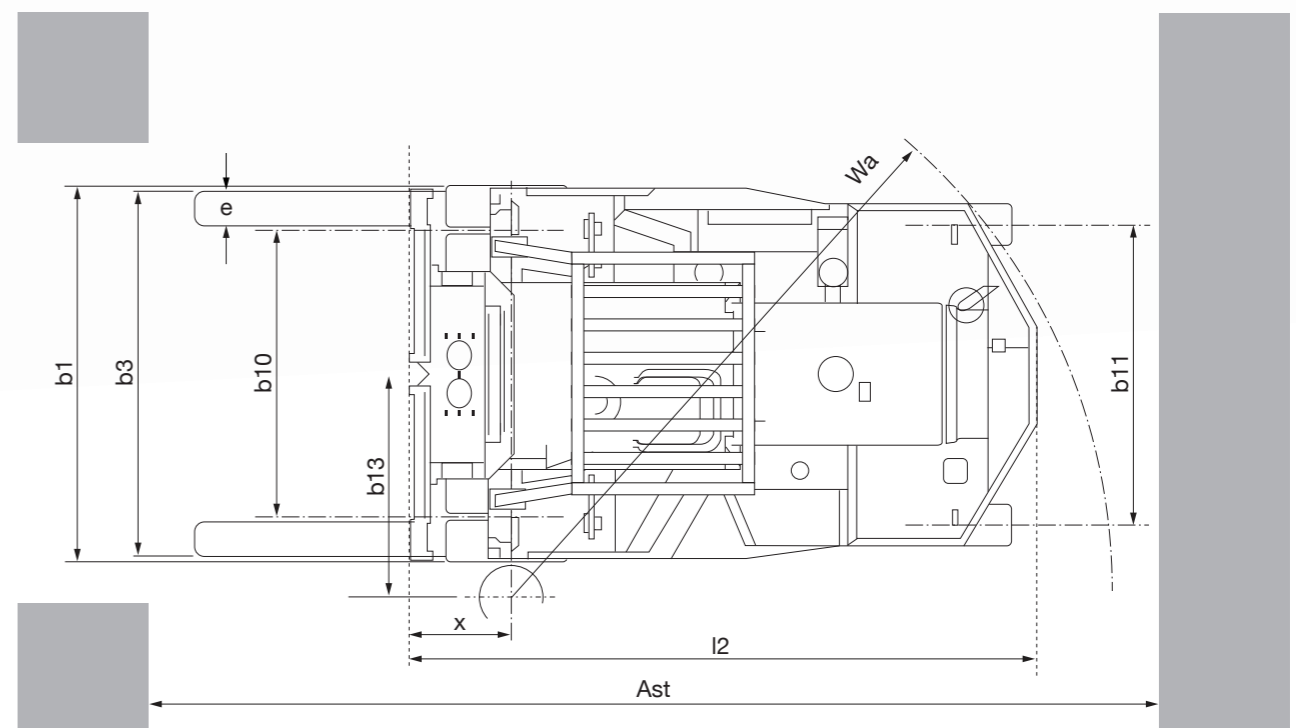
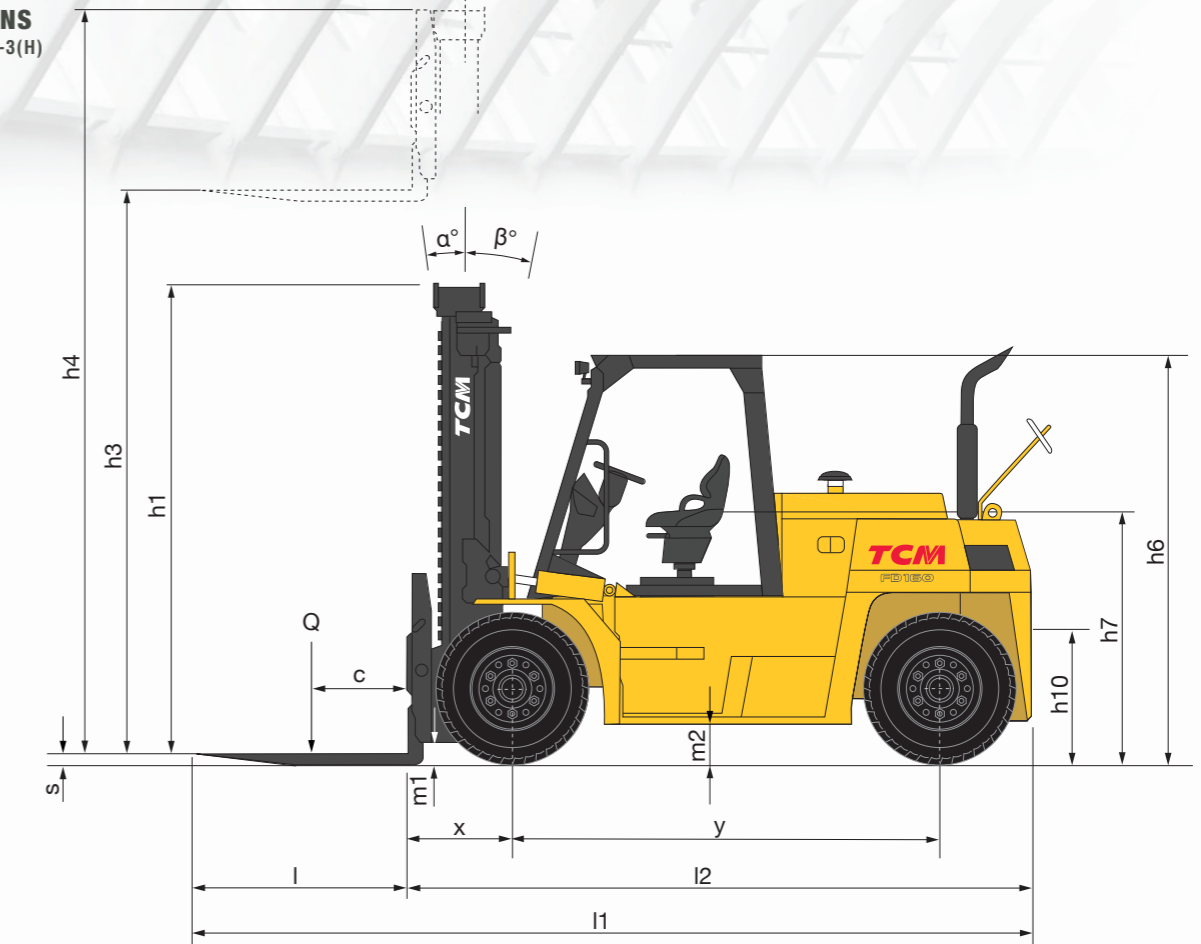


# FD100-160(S)-3(H)

## STANDARD SPECIFICATIONS

CHARACTERISTICS			TCM Forklifts						
1.01	Manufacturer		FD100-3H	FD115-3	FD120-3	FD135-3	FD150S-3	FD160S-3	
1.02	Manufacturer's model designation								
1.03	Power source: (battery, diesel, LPG, petrol)		Diesel	Diesel	Diesel	Diesel	Diesel	Diesel	
1.04	Operator type: pedestrian, standing, seated		Seated	Seated	Seated	Seated	Seated	Seated	
1.05	Load capacity	Q (kg)	10000	11500	12000	13500	15000	16000	
1.06	Load centre distance	c (mm)	600	600	600	600	600	600	
1.08	Load distance, axle to fork face	x (mm)	710	725	725	765	765	770	
1.09	Wheelbase	y (mm)	2800	2800	2800	3100	3100	3100	
WEIGHT									
2.01	Truck weight, without load / including battery (simplex mast, lowest lift height)		kg	13250	14370	14680	15900	16750	17110
2.02	Axle loading with maximum load, front/rear (simplex mast, lowest lift height)		kg	20900/2350	23280/2590	24060/2620	26910/2490	29190/2560	30340/2770
2.03	Axle loading without load, front/rear (simplex mast, lowest lift height)		kg	6200/7050	6320/8050	6360/8320	7450/8450	7590/9160	7270/9840
WHEELS, DRIVE TRAIN									
3.01	Tyres: V=solid, L=pneumatic, SE=solid pneumatic - front/rear			L / L	L / L	L / L	L / L	L / L	L / L
3.02	Tyre dimensions, front			9.00-20-14PR	10.00-20-16PR	10.00-20-16PR	11.00-20-16PR	11.00-20-16PR	11.00-20-18PR
3.03	Tyre dimensions, rear			9.00-20-14PR	10.00-20-16PR	10.00-20-16PR	11.00-20-16PR	11.00-20-16PR	11.00-20-18PR
3.05	Number of wheels, front/rear (x=driven)			4x / 2	4x / 2	4x / 2	4x / 2	4x / 2	4x / 2
3.06	Track width (centre of tyres), front	b10 (mm)		1650	1655	1655	1695	1695	1695
3.07	Track width (centre of tyres), rear	b11 (mm)		1820	1810	1810	1795	1795	1795
DIMENSIONS									
4.01	Mast tilt, forwards/backwards		α/β °	6/12	6/12	6/12	6/12	6/12	6/12
4.02	Height with mast lowered (see tables)		h1 (mm)	2895	2915	2915	3150	3150	3150
4.03	Free lift		h2 (mm)	0	0	0	0	0	0
4.04	Lift height (see tables)		h3 (mm)	3000	3000	3000	3000	3000	3000
4.05	Overall height with mast raised		h4 (mm)	4395	4415	4415	4650	4650	4650
4.07	Height to top of overhead guard		h6 (mm)	2740	2755	2755	2775	2775	2775
4.08	Seat height		h7 (mm)	1660	1680	1680	1690	1690	1690
4.12	Tow coupling height		h10 (mm)	510	530	525	540	540	540
4.19	Overall length		l1 (mm)	5490	5505	5505	5775	5775	5920
4.20	Length to fork face (includes fork thickness)		l2 (mm)	4270	4285	4285	4555	4555	4710
4.21	Overall width		b1 (mm)	2240 / -	2280 / -	2280 / -	2360 / -	2360 / -	2360 / -
4.22	Fork dimensions (thickness, width, length)		s / e / l (mm)	75 x 180 x 1220	90 x 180 x 1220	90 x 180 x 1220	85 x 200 x 1220	85 x 200 x 1220	90 x 200 x 1220
4.23	Fork carriage to DIN 15 173 A/B/no			No	No	No	No	No	No
4.24	Fork carriage width		b3 (mm)	2204	2204	2204	2274	2274	2274
4.31	Ground clearance under mast, with load		m1 (mm)	255	275	270	255	255	255
4.32	Ground clearance at center of wheelbase, with load (forks lowered)		m2 (mm)	345	365	365	375	375	375
4.33	Working aisle width with 1000 x 1200 mm pallets, crosswise		Ast (mm)	5910	5925	5925	6265	6265	6420
4.34	Working aisle width with 800 x 1200 mm pallets, crosswise		Ast (mm)	6110	6125	6125	6465	6465	6620
4.34a	Working aisle width with 800 x 1200 mm pallets, lengthwise		Ast (mm)	5710	5725	5725	6065	6065	6220
4.35	Turning circle radius		Wa (mm)	4000	4000	4000	4300	4300	4450
4.36	Minimum distance between centres of rotation		b13 (mm)	1370	1390	1390	1510	1510	1510
PERFORMANCE									
5.01	Travel speed, with/without load		km/h	34 / 34	34 / 34	34 / 34	34 / 34	34 / 34	34 / 34
5.02	Lifting speed, with/without load		m/s	0.46 / 0.5	0.45 / 0.5	0.45 / 0.5	0.35 / 0.38	0.35 / 0.38	0.35 / 0.38
5.03	Lowering speed, with/without load		m/s	0.5	0.5	0.5	0.5	0.5	0.5
5.06	Maximum drawbar pull, with/without load (5 min short duty)		N	120000 / 35000	114000 / 35000	114000 / 35000	110000 / 41000	110000 / 42000	113000 / 40000
5.07	Gradeability, with/without load		%	47.6 / 23.8	38.5 / 22.2	38.5 / 22.2	33.3 / 23.8	30.3 / 23.2	29.4 / 22.2
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)			Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical	Hydraulic / Mechanical
IC ENGINE									
7.01	Manufacturer / Type			ISUZU BB-6BG1-T	ISUZU BB-6BG1-T	ISUZU BB-6BG1-T	ISUZU BB-6BG1-T	ISUZU BB-6BG1-T	ISUZU BB-6BG1-T
7.02	Rated / Nominal output to ISO 1585**		kW	114	114	114	114	114	114
7.03	Rated speed to DIN 70 020		rpm	2000	2000	2000	2000	2000	2000
7.04	Number of cylinders / cubic capacity		cm³	6 / 6494	6 / 6494	6 / 6494	6 / 6494	6 / 6494	6 / 6494
7.06	Max torque		Nm	537	537	537	537	537	537
7.07	Max torque at engine speed		rpm	1800	1800	1800	1800	1800	1800
MISCELLANEOUS									
8.01	Type of drive control			Powershift 3/3	Powershift 3/3	Powershift 3/3	Powershift 3/3	Powershift 3/3	Powershift 3/3
8.02	Maximum operating pressure for attachments		bar	206	206	206	206	206	206

## DIMENSIONS FD100-160(S)-3(H)



# FD100-160(S)-3(H)

## MAST SPECIFICATIONS & RATED CAPACITIES

MAST TYPE	Mast name	Max fork height (mm)	Overall mast height (mm)		Mast Tilt (Degrees Fwd/Bwd)	FD100-3H	
			Lowered	Extended		Load Capacity (kgs) @ 500mm load centre	
						900	1220
SIMPLEX	2SP300	3000	2895	4395	6-12	10000	7000
	2SP350	3500	3145	4895	6-12	10000	7000
	2SP400	4000	3395	5395	6-12	10000	7000
	2SP450	4500	3645	5895	6-12	10000	7000
	2SP500	5000	3895	6395	6-12	10000	7000
	2SP550	5500	4145	6895	6-12	9000	6300
	2SP600	6000	4395	7395	6-12	8000	5600

MAST TYPE	Mast name	Max fork height (mm)	Overall mast height (mm)		Mast Tilt (Degrees Fwd/Bwd)	FD115-3	
			Lowered	Extended		Load Capacity (kgs) @ 500mm load centre	
						900	1220
SIMPLEX	2SP300	3000	2895	4395	6-12	11500	7750
	2SP350	3500	3145	4895	6-12	11500	7750
	2SP400	4000	3395	5395	6-12	11500	7750
	2SP450	4500	3645	5895	6-12	11500	7750
	2SP500	5000	3895	6395	6-12	11500	7750
	2SP550	5500	4145	6895	6-12	10350	7000
	2SP600	6000	4395	7395	6-12	9200	6200

MAST TYPE	Mast name	Max fork height (mm)	Overall mast height (mm)		Mast Tilt (Degrees Fwd/Bwd)	FD120-3	
			Lowered	Extended		Load Capacity (kgs) @ 500mm load centre	
						900	1220
SIMPLEX	2SP300	3000	2895	4395	6-12	12000	7950
	2SP350	3500	3145	4895	6-12	12000	7950
	2SP400	4000	3395	5395	6-12	12000	7950
	2SP450	4500	3645	5895	6-12	12000	7950
	2SP500	5000	3895	6395	6-12	12000	7950
	2SP550	5500	4145	6895	6-12	10800	7350
	2SP600	6000	4395	7395	6-12	9600	6500

MAST TYPE	Mast name	Max fork height (mm)	Overall mast height (mm)		Mast Tilt (Degrees Fwd/Bwd)	FD135-3	
			Lowered	Extended		Load Capacity (kgs) @ 500mm load centre	
						900	1220
SIMPLEX	2SP300	3000	2895	4395	6-12	13500	9100
	2SP350	3500	3145	4895	6-12	13500	9100
	2SP400	4000	3395	5395	6-12	13500	9100
	2SP450	4500	3645	5895	6-12	13500	9100
	2SP500	5000	3895	6395	6-12	13500	9100
	2SP550	5500	4145	6895	6-12	12150	8200
	2SP600	6000	4395	7395	6-12	10800	7300

MAST TYPE	Mast name	Max fork height (mm)	Overall mast height (mm)		Mast Tilt (Degrees Fwd/Bwd)	FD150S-3	
			Lowered	Extended		Load Capacity (kgs) @ 500mm load centre	
						900	1220
SIMPLEX	2SP300	3000	2895	4395	6-12	15000	10200
	2SP350	3500	3145	4895	6-12	15000	10200
	2SP400	4000	3395	5395	6-12	15000	10200
	2SP450	4500	3645	5895	6-12	15000	10200
	2SP500	5000	3895	6395	6-12	15000	10200
	2SP550	5500	4145	6895	6-12	13500	9180
	2SP600	6000	4395	7395	6-12	12000	8160

MAST TYPE	Mast name	Max fork height (mm)	Overall mast height (mm)		Mast Tilt (Degrees Fwd/Bwd)	FD160S-3	
			Lowered	Extended		Load Capacity (kgs) @ 500mm load centre	
						900	1220
SIMPLEX	2SP300	3000	2895	4395	6-12	16000	11050
	2SP350	3500	3145	4895	6-12	16000	11050
	2SP400	4000	3395	5395	6-12	16000	11050
	2SP450	4500	3645	5895	6-12	16000	11050
	2SP500	5000	3895	6395	6-12	16000	11050
	2SP550	5500	4145	6895	6-12	14400	9940
	2SP600	6000	4395	7395	6-12	12800	8840

# FD100-160(S)-3(H)

## STANDARD AND OPTIONS LIST

	FD100-3H	FD115-3	FD120-3	FD135-3	FD150S-3	FD160S-3
<b>OPERATORS COMPARTMENT</b>						
Steel cabin	●	●	●	●	●	●
Air conditioner	●	●	●	●	●	●
Heater & defroster	●	●	●	●	●	●
Direction change lever at right hand	●	●	●	●	●	●
Windshield with wiper	●	●	●	●	●	●
<b>ACCESSORIES</b>						
High volume reversing buzzer	●	●	●	●	●	●
Rear working lights - 2 lamps on counterweight	●	●	●	●	●	●
Front working light on fenders	●	●	●	●	●	●
Headlight / turn signal lamps / rear combination lamps (LED)	●	●	●	●	●	●
LED rear work light	●	●	●	●	●	●
<b>SAFETY DEVICES</b>						
Central lubrication system	●	●	●	●	●	●
Fire extinguisher	●	●	●	●	●	●
Interlock for travelling, lifting & tilting - with 2 valves	●	●	●	●	●	●
Seat belt interlock	●	●	●	●	●	●
<b>ATTACHMENTS</b>						
Side shifter integral type (shaft-on type)	●	●	●	●	●	●
Fork positioner hydraulic cylinder type	●	●	●	●	●	●
Fork positioner with side shifter hydraulic cylinder type	●	●	●	●	●	●

**KEY** ● Standard ● Option

