



## 584/5/6 D Series Forklift



### **47 (35 kW) SAE NET HORSEPOWER**

Case-built 188 in<sup>3</sup> (3081 cm<sup>3</sup>) diesel.

### **SYNCHRONIZED TRANSMISSION**

4-speed synchromesh with power shuttle and torque converter.

### **UNITIZED MAIN FRAME**

Absorbs shock loads, maintains power train alignment, simplifies servicing.

### **INCHING CONTROL**

Working the brakes against the torque converter permits optimum tractor control for accurate load placement while maintaining hydraulic speed.

### **CLUTCH DISCONNECT**

For maximum hydraulic speed and control.

### **FORKLIFT MEETS ANSI STANDARDS B56.6-1978**

This consists of FOPS, stability and brake testing procedures.

### **COMPONENTIZED POWER TRAIN**

Permits servicing of individual components without disturbing the rest of the drive line.

### **3 MODELS**

584D, 4000-lb capacity; 585D, 5000-lb capacity; 586D, 6000-lb capacity.

Unit shown is equipped with non-standard items.

**J I Case**

A Tenneco Company

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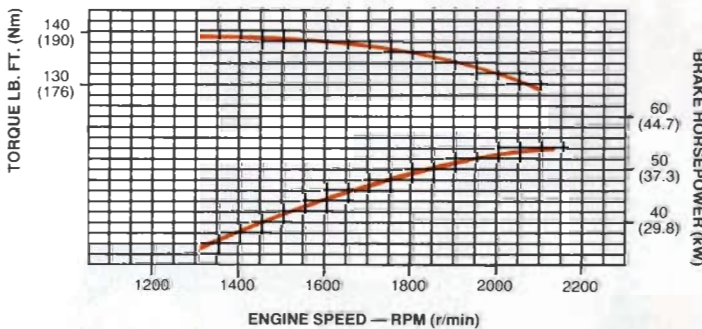
## 584D/585D/586D SPECIFICATIONS

### ENGINE

Make and model	Case G188D diesel
Type of fuel	No. 2 diesel
No. of cylinders	4
Bore and stroke	3.812" x 4.125" (97 mm x 105 mm)
Displacement	188 in <sup>3</sup> (3081 cm <sup>3</sup> )
Compression ratio	17.5 to 1
Fuel induction	Injectors
Fuel supply	Injection pump
Air cleaner	Dry type, replaceable cartridge
Oil filter	Full flow, replaceable spin-on cartridge
Lubrication	Positive pressure
Cooling system	Pressurized—7 psi (48 kPa)
Horsepower	
Gross (1)	52 @ 2100 rpm (39 kW @ 2100 r/min)
SAE Net (2)	47 @ 2100 rpm (35 kW @ 2100 r/min)
Max. torque ft-lb	
Gross (1)	143 @ 1400 rpm (194 Nm @ 1400 r/min)
SAE Net (2)	118 @ 1400 rpm (160 Nm @ 1400 r/min)

- (1) Gross engine horsepower or torque at flywheel per SAE J270 specification.  
 (2) Net engine horsepower or torque at flywheel per SAE J270 specification.

### POWER CURVE



### ELECTRICAL

System voltage	12 volts, negative ground
Battery	575 cold cranking amps at 0°F (-18°C)
Alternator	39 amps

### POWER TRAIN

Transmission: Full power shuttle and torque converter. 4 speed; sliding spur gear in 1st and 2nd. Synchromesh in 3rd and 4th permits on-the-go shifting up from 2nd to 3rd to 4th and back down from 4th to 3rd.

Torque converter: Single stage hydrokinetic type (2.78 to 1 ratio).

Reversing unit: Full power hydraulic clutches.

Brakes: Individual or simultaneous foot actuated, hydraulic self-adjusting, 6.5" (165 mm) bands and disc with over-center type parking brake.

Final drives: Multiple gear reduction.

### STEERING

Power steering	Hydrostatic
Pump capacity	6.4 gpm (24 l/min)
Turning ratio (stop to stop)	2.75
Steering cylinders (2)	1.5" dia x 6.5" stroke (38 mm dia x 165 mm stroke)

### SERVICE CAPACITIES

	U.S.	Litres
Cooling system	14 qt	13.2
Fuel tank	22 gal	83.3
Engine oil		
w/filter	7 qt	6.6
w/o filter	6 qt	5.7
Power shuttle	8 qt	7.6
Transaxle	20 qt	18.9
Hydraulic reservoir		
w/filter	15.3 gal	57.8
w/o filter	13.3 gal	50.2
Steering system total	3 qt	2.8
reservoir fill	1 qt	0.9

### TRAVEL SPEEDS—MPH (km/h)

Engine at full throttle, 14.9 x 24, R4 tires.

	FIRST	SECOND	THIRD	FOURTH
Forward	3.5 (5.6)	6.6 (10.6)	12.3 (19.8)	21.5 (34.6)
Reverse	3.1 (5.0)	5.9 (9.5)	11.0 (17.7)	19.0 (30.6)

### TURNING CLEARANCE CIRCLE

Model 584D with 14.25' (4.3 m), 21.5' (6.6 m) or 28' (8.5 m) masts  
 Model 585D with 12' (3.7 m) or 14.25' (4.3 m) masts

—with brakes . . . . . 21' 11" (6.68 m)  
 —without brakes . . . . . 24' 5.5" (7.46 m)

Model 585D with 21.5' (6.6 m) mast, and Model 586D with 12' (3.7 m), 14.25' (4.3 m) or 21.5' (6.6 m) masts

—with brakes . . . . . 23' 10" (7.26 m)  
 —without brakes . . . . . 25' 9" (7.85 m)

Model 586D with 14' (4.3m) freelif mast

—with brakes . . . . . 22' 10" (6.96 m)  
 —without brakes . . . . . 25' 6" (7.77 m)

### HYDRAULIC SYSTEM

Hydraulic pump: Positive displacement, gear type.

Pump capacity: 22 gpm @ 2100 rpm @ 2000 psi  
 (83 l/min @ 2100 r/min @ 13 790 kPa).

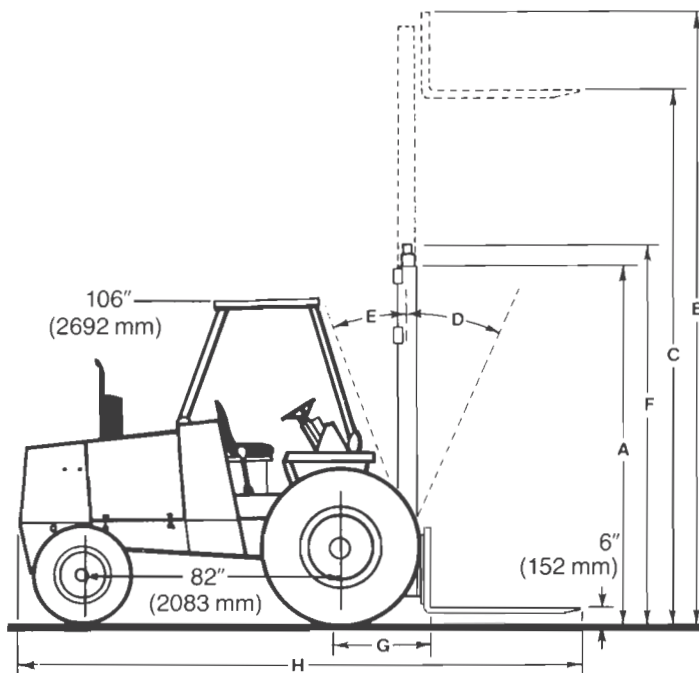
Control valve: Three spool—lift, tilt and sideshift

Control valve main relief pressure: 2150 psi (14 824 kPa).

Filtration: 10 micron, full flow replaceable cartridge on return line.

Condition indicator light for filter.





### DIMENSIONAL DATA—TRACTOR

Tread—drive wheels	62" (1575 mm)
Tread—steering wheels	61" (1549 mm)
Overall width	81" (2057 mm)
Wheel base	82" (2083 mm)
Ground clearance	15" (381 mm)
Height to top of ROPS canopy	106" (2692 mm)

### CYLINDERS

Type	Qty.	Model	Mast	Diameter	Stroke	Rod
Tilt	2	All	All	3" (76 mm)	10" (254 mm)	1.25" (32 mm)
Lift	1	584D	14.25' (4.3 m)	4" (102 mm)	85.5" (2172 mm)	
Lift	1	584D	21.5' (6.6 m)	4" (102 mm)	85.25" (2165 mm)	
Lift	1	584D	28' (8.5 m)	4" (102 mm)	111.75" (2838 mm)	
Lift	1	585D	12' (3.7 m)	4" (102 mm)	72" (1829 mm)	
Lift	1	585D	14.25' (4.3 m)	4" (102 mm)	85.5" (2172 mm)	
Lift	1	585D	21.5' (6.6 m)	4" (102 mm)	85.25" (2165 mm)	
Lift	1	586D	14.25' (4.3 m)	4" (102 mm)	85.25" (2165 mm)	
Lift	1	586D	12' (3.7 m)	4" (102 mm)	71.75" (1822 mm)	
Lift	1	586D	21.5' (6.6 m)	4" (102 mm)	85.25" (2165 mm)	
Lift	3	586D freelift	14' (4.3 m)	1st stage 2 cylinders	1st stage 41" (1041 mm)	
				2.6" (66 mm)	2nd stage	
				2.4" (61 mm)	2nd stage	
Sideshift	1	All	All	2.5" (64 mm)	6" (152 mm)	1.0625" (27 mm)

**Note:** Sideshift available on all models except 28' 4000 lb mast.

### OPERATIONAL DATA

	584D			585D			586D			
	14.25' (4.3 m)	21.5' (6.6 m)	28' (8.5 m)	12' (3.7 m)	14.25' (4.3 m)	21.5' (6.6 m)	12' (3.7 m)	14.25' (4.3 m)	21.5' (6.6 m)	14' freelift
Lift capacity—Maximum at 24" (610 mm) load center	4000 lbs (1814 kg)	4000 lbs (1814 kg)	4000 lbs (1814 kg)	5000 lbs (2268 kg)	5000 lbs (2268 kg)	**5000 lbs (2268 kg)	6000 lbs (2722 kg)	6000 lbs (2722 kg)	***6000 lbs (1134 kg)	6000 lbs (2722 kg)
A Overall height, mast closed—unloaded	116" (2946 mm)	118" (2997 mm)	144.5" (3670 mm)	103" (2635 mm)	117" (2972 mm)	119" (3023 mm)	103.5" (2629 mm)	117" (2972 mm)	119" (3023 mm)	117.5" (2985 mm)
B Overall height, mast raised—unloaded	201" (5105 mm)	289" (7341 mm)	367" (9322 mm)	175" (4445 mm)	202" (5131 mm)	288" (7315 mm)	175" (4445 mm)	202" (5131 mm)	288" (7315 mm)	201.5" (5118 mm)
C Maximum fork height, forks horizontal—unloaded	172" (4369 mm)	257" (6528 mm)	336" (8534 mm)	145" (3683 mm)	173" (4394 mm)	257" (6528 mm)	145" (3683 mm)	173" (4394 mm)	257" (6528 mm)	168" (4267 mm)
Freelift	0"	0"	0"	0"	0"	0"	0"	0"	0"	84" (2134 mm)
D Degrees tilt—forward	20°	20°	20°	20°	20°	20°	20°	20°	20°	18°
E Degrees tilt—rearward	10°	10°	10°	10°	10°	10°	10°	10°	10°	10°
F Overall height at low carry, forks 6" (152 mm) off the ground	119" (3023 mm)	122" (3099 mm)	147" (3734 mm)	105" (2667 mm)	120" (3048 mm)	121" (3073 mm)	105" (2667 mm)	120" (3048 mm)	121" (3073 mm)	117.5" (2985 mm)
Rate of lift—maximum load	70 fpm (21.3 m/m)	105 fpm (32 m/m)	105 fpm (32 m/m)	70 fpm (21.3 m/m)	70 fpm (21.3 m/m)	91 fpm (27.7 m/m)	73 fpm (22.2 m/m)	73 fpm (22.2 m/m)	91 fpm (27.7 m/m)	81.5 fpm (24.8 m/m)
Mast type—number of stages	2	3	3	2	2	3	2	2	3	2
G Reach from centerline of drive wheel	31" (787 mm)	34" (864 mm)	34" (864 mm)	32" (813 mm)	32" (813 mm)	35" (889 mm)	33" (838 mm)	33" (838 mm)	35" (889 mm)	32" (813 mm)
H Overall length	15'5" (4699 mm)	15'7" (4750 mm)	15'9" (4801 mm)	15'9" (4801 mm)	15'9" (4801 mm)	16'2" (4928 mm)	16'1" (4902 mm)	16'1" (4902 mm)	16'2" (4931 mm)	16'3" (4953 mm)
Lateral fork adjustment—inside dimension	40" (1016 mm)	40" (1016 mm)	40" (1016 mm)	52" (1321 mm)	52" (1321 mm)	52" (1321 mm)	50" (1270 mm)	50" (1270 mm)	50" (1270 mm)	48.5" (1232 mm)
—outside dimension	48" (1219 mm)	48" (1219 mm)	48" (1219 mm)	60" (1524 mm)	60" (1524 mm)	60" (1524 mm)	60" (1524 mm)	60" (1524 mm)	60" (1524 mm)	58.5" (1486 mm)
Sideshift—from center	3" (76 mm)	3" (76 mm)	none	3" (76 mm)	3" (76 mm)	3" (76 mm)	3" (76 mm)	3" (76 mm)	3" (76 mm)	3" (76 mm)
Forks (set of two)	1.5" x 4" x 48"—250 lbs (38 mm x 102 mm x 1219 mm—113 kg)			2" x 4" x 48"—350 lbs (51 mm x 102 mm x 1219 mm—159 kg)			2" x 5" x 48"—426 lbs (51 mm x 127 mm x 1219 mm—193 kg)			

\*The 21.5' (6.6 m) mast lifts 4000 lbs (1814 kg) to 15' (4.6 m) and 2500 lbs (1134 kg) to 21.5' (6.6 m). The 28' (8.5 m) mast lifts 4000 lbs (1814 kg) to 15' (4.6 m), 2500 lbs (1134 kg) to 21.5' (6.6 m) and 1000 lbs (455 kg) to 28' (8.5 m).

\*\*The 21.5' (6.6 m) mast lifts 5000 lbs (2268 kg) to 12' (3.7 m), 4000 lbs (1814 kg) to 15' (4.6 m) and 2500 lbs (1134 kg) to 21.5' (6.6 m).

\*\*\*The 21.5' (6.6 m) mast lifts 6000 lbs (2722 kg) to 12' (3.7 m), 4000 lbs (1814 kg) to 15' (4.6 m) and 2500 lbs (1134 kg) to 21.5' (6.6 m).

## STANDARD EQUIPMENT

Case G188D diesel • 4-speed transmission with power shuttle and torque converter • Air cleaner (dry) with replaceable element • Antifreeze, to -20°F (-29°C) • Heavy duty disc-band foot brakes • Dual power steering cylinders • 12V electrical system with alternator • Flat front fenders • Heavy duty grille • Instrument panel and gauges including instrument panel lights, engine oil pressure warning light, engine speed indicator (tachometer), voltmeter, hourmeter, key switch, fuel level gauge, engine water temperature gauge, air cleaner restriction indicator, transmission oil temperature gauge, hydraulic filter pressure warning light, horn button and tell-tale test switch • Two front and one rear work light, tail light • Oval upright muffler with deflector • Spin-off full flow oil filter • Parking brake • Wide walk-through platform • Bucket seat • Hydrostatic power steering • Hand and R.H. and L.H. foot throttles • ROPS/FOPS canopy • Engine side panels, • Tires (drive) 16.9 x 24 6 PR R4 • Tires (steer) 8.00 x 16 10 PR truck tread.

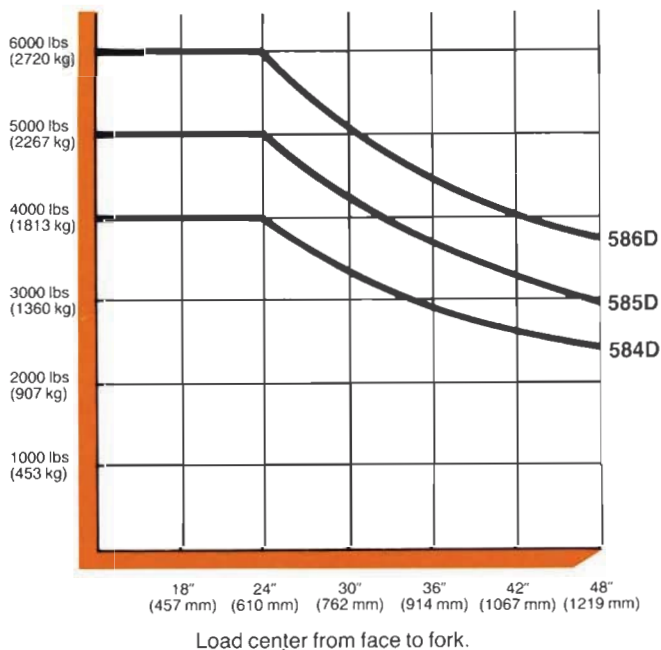
## OPTIONAL EQUIPMENT

Lights: two rear working lights, directional signals, and 4-way flasher • Backup alarm • Slow-moving vehicle emblem (SMV) • Antifreeze, to -40°F (-40°C) • Side-shifter (except with 28' mast) • Pallet forks (set of 2) • Noise suppression kit • Lockup kit • 3" (76.2 mm) seat belt ILO 2" (50.8 mm) • Arm rests • Cold weather starting aid • Deluxe seat • Tires-various sizes.

## MAST OPTIONS

<b>Model</b> .....	<b>Available mast heights</b>
584D .....	14.25', 21.5', 28' (4.3 m), (6.6 m), (8.5 m)
585D .....	12', 14.25', 21.5' (3.7 m), (4.3 m), (6.6 m)
586D .....	12', 14.25', 21.5', 14' freelif (3.7 m), (4.3 m), (6.6 m), (4.3m)

## LOAD CENTER CHART



Lift capacities rated at 24" (610 mm) load center. Chart shows reduction in lift capacity as load center increases. Lift height also affects lift capacity. See Operational Data for details.

## TIRE OPTIONS

	Size	Ply Rating	Tread	Pressure psi	kPa
<b>Used on all machines</b>					
Steering	8.00 x 16	10	(L1)	56	386
Steering	11L x 16	8	(L1)	40	276

### Used on 584D with 14.25' (4.3 m) and 21.5' (6.6 m) masts

Drive	16.9 x 24	6	(R4)	18	124
Drive	16.9 x 24	8	(R4)	24	165
Drive	17.5L x 24	8	(R4)	22	152
Drive	16.9 x 24	10	(R4)	28	193
Drive	19.5L x 24	12	(R4)	24	165

### Used on 584D with 28' (4.3 m) mast and 585D with 12' (3.7 m), 14.25' (4.3 m) masts

Drive	16.9 x 24	8	(R4)	24	165
Drive	16.9 x 24	10	(R4)	28	193
Drive	19.5L x 24	12	(R4)	24	165

### Used on 585D with 21.5' (6.6 m) and 586D with 12' (3.7 m), 14.25' (4.3 m), 21.5' (6.6 m) or 14' (4.3 m) freelif masts

Drive	16.9 x 24	10	(R4)	28	193
Drive	19.5L x 24	12	(R4)	24	165

## SHIPPING WEIGHTS

**Model 584D**—With 16.9 x 24, 6 PR (R4) drive tires, 8.00 x 16, 10 PR (L1) steering tires, 48" (1219 mm) forks, ROPS/FOPS and standard equipment.

with 14.25' (4.3 m) mast .....	10,108 lbs (4585 kg)
with 21.5' (6.6 m) mast .....	10,713 lbs (4859 kg)
with 28' (8.5 m) mast, 8 PR drive tires .....	11,758 lbs (5333 kg)

**Model 585D**—With 16.9 x 24, PR (R4) drive tires, 8.00 x 16, 10 PR (L1) steering tires, 48" (1219 mm) forks, ROPS/FOPS and standard equipment.

with 12' (3.7 m) mast .....	10,873 lbs (4932 kg)
with 14.25' (4.3 m) mast .....	11,003 lbs (4991 kg)
with 21.5' (6.6 m) mast, 10 PR drive tires .....	12,295 lbs (5577 kg)

**Model 586D**—With 16.9 x 24, 10 PR (R4) drive tires, 8.00 x 16, 10 PR (L1) steering tires, 48" (1219 mm) forks, ROPS/FOPS and standard equipment.

with 12' (3.7 m) mast .....	11,583 lbs (5254 kg)
with 14.25' (4.3 m) mast .....	11,713 lbs (5313 kg)
with 21.5' (6.6 m) mast .....	12,465 lbs (5654 kg)
with 14' (4.3 m) freelif mast .....	12,230 lbs (5548 kg)

## IMPORTANT

J I Case Company reserves the right to change these specifications without incurring any obligation relating to such changes.

**Sold and serviced by:**