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7 Series Forklifts

Pneumatic Diesel 13,500lb to 20,000lb Series

Tier-4 Final



Lifting Your Dreams

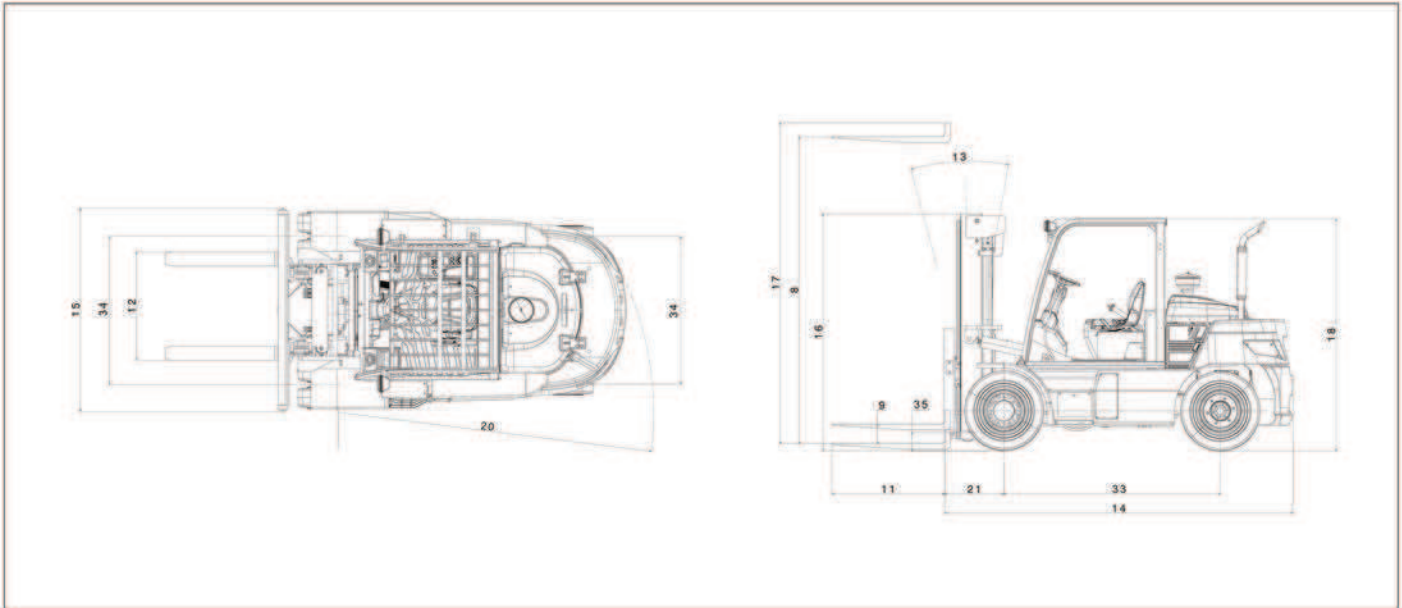
13,500/15,500/17,500/20,000lb Capacity

Engine Powered Forklift Trucks Pneumatic Tire, Diesel

| CHARACTERISTICS | | | | | | | |
|-----------------|--------------------------------|---------------------------------|-----------|--------------|--------------|--------------|--------------|
| 1 | Model | | | D60S-7 | D70S-7 | D80S-7 | D90S-7 |
| 2 | Capacity | at rated load center | lb | 13500 | 15500 | 17500 | 20000 |
| 3 | Load center | Distance | in | 24 | 24 | 24 | 24 |
| 4 | Power type | Electric,Diesel,Gasoline,LP-Gas | | Diesel | Diesel | Diesel | Diesel |
| 5 | Operator type | Stand-on, Rider-seated | | Rider-seated | Rider-seated | Rider-seated | Rider-seated |
| 6 | Tire type | c=cushion, p=pneumatic | | p | p | p | p |
| 7 | Wheels | Number, front/rear | | 4/2 | 4/2 | 4/2 | 4/2 |
| DIMENSIONS | | | | | | | |
| 8 | Maximum fork height | with STD 2-stage mast | in | 118.1 | 118.1 | 122 | 122 |
| 9 | Free lift | | in | 8.1 | 8.1 | 8.5 | 8.5 |
| 10 | Fork carriage | ISO class | | 5 | 5 | 5 | 5 |
| 11 | Forks | Thickness x Width x Length | in | 2.4x7.1x47.2 | 2.4x7.1x47.2 | 2.8x7.1x47.2 | 2.8x7.1x47.2 |
| 12 | | Fork spacing(min X Max) | in | 16.1x80.0 | 16.1x80.0 | 16.1x82.3 | 16.1x82.3 |
| 13 | Tilt of mast | Forward / Backward | deg | 15/10 | 15/10 | 15/10 | 15/10 |
| 14 | Overall Dimensions | Length to forkface | in | 142.4 | 145.6 | 158 | 159 |
| 15 | | Width | in | 83 | 83 | 87.8 | 87.8 |
| 16 | | Mast lowered height | in | 98.4 | 98.4 | 111.6 | 111.6 |
| 17 | | Mast extended height | in | 170.1 | 170.1 | 172.2 | 172.2 |
| 18 | | Overhead guard height(Cabin) | in | 97.2(99.8) | 97.2(99.8) | 105.2(109.0) | 105.2(109.0) |
| 19 | | Seat height | in | 57.2 | 57.2 | 60.1 | 60.1 |
| 20 | Minimum outside Turning Radius | | in | 133.1 | 135 | 143.7 | 144.9 |
| 21 | Load moment constant | | in | 24.9 | 24.9 | 28.5 | 28.5 |
| PERFORMANCE | | | | | | | |
| 22 | Speed | Ttravel, loaded/unloaded | mph | 18.6/20.9 | 18.1/20.7 | 19.2/22.7 | 18.8/22.6 |
| 23 | | Lift, loaded/unloaded | fpm | 94.5/106.3 | 84.6/92.5 | 82.7/92.5 | 80.7/92.5 |
| 24 | | Lowering, loaded/unloaded | fpm | 98.4/88.6 | 98.4/88.6 | 98.4/88.6 | 98.4/88.6 |
| 25 | Drawbar pull | at 1.6 km/h, loaded | lb | 13660 | 13565 | 12,716 | 12,685 |
| 26 | Gradeability | at 1.6 km/h, loaded | % | 45 | 39 | 31 | 28 |
| WEIGHT | | | | | | | |
| 27 | Total weight | Unloaded | lb | 20046 | 21567 | 25629 | 27062 |
| 28 | Axle load | with loaded, front/rear | lb | 29577/3697 | 32597/4402 | 38217/5049 | 41414/5490 |
| 29 | | without loaded, front/rear | lb | 9217/10829 | 8887/12681 | 11233/14396 | 11056/16005 |
| CHASSIS | | | | | | | |
| 30 | Tires | Number of front/rear | | 4/2 | 4/2 | 4/2 | 4/2 |
| 31 | | Size, front | | 8.25x15-14PR | 8.25x15-14PR | 9.00x20-14PR | 9.00x20-14PR |
| 32 | | Size, rear | | 8.25x15-14PR | 8.25x15-14PR | 9.00x20-14PR | 9.00x20-14PR |
| 33 | Wheel base | | in | 90.6 | 90.6 | 98.4 | 98.4 |
| 34 | Tread | Front/Rear | in | 62.3/61.0 | 62.3/61.0 | 65.7/68.9 | 65.7/68.9 |
| 35 | Ground clearance | loaded, at the lowest point | in | 7.7 | 7.7 | 10.2 | 10.2 |
| 36 | | loaded, at center of wheelbase | in | 8.8 | 8.8 | 13 | 13 |
| 37 | Brakes | Service brake | | Disc | Disc | Disc | Disc |
| 38 | | Parking brake | | Rachet | Rachet | Rachet | Rachet |
| DRIVE | | | | | | | |
| 39 | Battery | Voltage/Capacity | V/AH | 24/75 | 24/75 | 24/75 | 24/75 |
| 40 | Engine | Manufacturer/Model | | D1/D34 | D1/D34 | D1/D34 | D1/D34 |
| 41 | | Rated output (at rpm) | HP/rpm | 108.5/2300 | 108.5/2300 | 108.5/2300 | 108.5/2300 |
| 42 | | | kW/rpm | 80.9/2300 | 80.9/2300 | 80.9/2300 | 80.9/2300 |
| 43 | | Max. Torque | lb-ft/rpm | 276.6/1600 | 276.6/1600 | 276.6/1600 | 276.6/1600 |
| 44 | | | Nm/rpm | 375/1600 | 375/1600 | 375/1600 | 375/1600 |
| 45 | | Cycle/Cylinders/Displacement | cc | 4/4/3409 | 4/4/3409 | 4/4/3409 | 4/4/3409 |
| 46 | Transmission | Type | | Full Auto | Full Auto | Full Auto | Full Auto |
| 47 | | No. speeds forward/reverse | | 3/3 | 3/3 | 3/3 | 3/3 |
| 48 | Operating pressure | System/Attachment | psi | 2755/2030 | 3045/2030 | 3190/2030 | 3408/2030 |

Note: Specification values quoted in this specification sheet has been rounded. Performance may vary due to operation conditions.
Products and specifications are subject to improvement and change without prior notices.

DIMENSIONAL DRAWING



MAST SPECIFICATIONS and RATED CAPACITIES

D6oS-7(Shaft)

| Mast type | Maximum Fork Height | | Maximum Lowered Height | | Fully Extended Height | | Free Lift | | Rated Load Capacities | | | |
|-----------|---------------------|------|------------------------|------|-----------------------|-----|--------------------|----|-----------------------|------|-----------------|-------|
| | | | | | With Load Backrest | | With Load Backrest | | D6oS-7(Shaft) | | | |
| | | | | | | | | | Tilt Angle | | Load Capacities | |
| | | | | | Double Pneumatic | | Double Pneumatic | | | | | |
| | mm | in | mm | in | mm | in | mm | in | deg | deg | kg | lb |
| STD | 3000 | 118 | 2495 | 98 | 4275 | 168 | 205 | 8 | 15 | 10 | 6000 | 13200 |
| | 3500 | 138 | 2745 | 108 | 4775 | 188 | 205 | 8 | 15 | 10 | 6000 | 13200 |
| | 3700 | 146 | 2845 | 112 | 4975 | 196 | 205 | 8 | 15 | 10 | 6000 | 13200 |
| | 4000 | 157 | 2995 | 118 | 5275 | 208 | 205 | 8 | 15 | 10 | 6000 | 13200 |
| | 4500 | 177 | 3345 | 132 | 5775 | 227 | 205 | 8 | 15 | 10 | 6000 | 13200 |
| | 5000 | 197 | 3595 | 142 | 6275 | 247 | 205 | 8 | 15 | 10 | 6000 | 13200 |
| | 5500 | 217 | 3845 | 151 | 6775 | 267 | 205 | 8 | 15 | 10 | 5875 | 12900 |
| 6000 | 236 | 4095 | 161 | 7275 | 286 | 205 | 8 | 15 | 10 | 5675 | 12450 | |
| FFT | 4550 | 179 | 2540 | 100 | 5570 | 219 | 1580 | 62 | 15 | 10 | 5900 | 12950 |
| | 5000 | 197 | 2690 | 106 | 6020 | 237 | 1730 | 68 | 15 | 10 | 5725 | 12550 |
| | 5600 | 220 | 2890 | 114 | 6620 | 261 | 1930 | 76 | 15 | 10 | 5500 | 12100 |
| | 6050 | 238 | 3040 | 120 | 7070 | 278 | 2080 | 82 | 15 | 10 | 5300 | 11650 |

D7oS-7(Shaft)

| Mast type | Maximum Fork Height | | Maximum Lowered Height | | Fully Extended Height | | Free Lift | | Rated Load Capacities | | | |
|-----------|---------------------|------|------------------------|------|-----------------------|-----|--------------------|----|-----------------------|------|-----------------|-------|
| | | | | | With Load Backrest | | With Load Backrest | | D7oS-7(Shaft) | | | |
| | | | | | | | | | Tilt Angle | | Load Capacities | |
| | | | | | Double Pneumatic | | Double Pneumatic | | | | | |
| | mm | in | mm | in | mm | in | mm | in | deg | deg | kg | lb |
| STD | 3000 | 118 | 2495 | 98 | 4275 | 168 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 3500 | 138 | 2745 | 108 | 4775 | 188 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 3700 | 146 | 2845 | 112 | 4975 | 196 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 4000 | 157 | 2995 | 118 | 5275 | 208 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 4500 | 177 | 3345 | 132 | 5775 | 227 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 5000 | 197 | 3595 | 142 | 6275 | 247 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 5500 | 217 | 3845 | 151 | 6775 | 267 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 6000 | 236 | 4095 | 161 | 7275 | 286 | 205 | 8 | 15 | 10 | 6900 | 15100 |
| | 3000 | 118 | 2495 | 98 | 4275 | 168 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 3500 | 138 | 2745 | 108 | 4775 | 188 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 3700 | 146 | 2845 | 112 | 4975 | 196 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 4000 | 157 | 2995 | 118 | 5275 | 208 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 4500 | 177 | 3345 | 132 | 5775 | 227 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 5000 | 197 | 3595 | 142 | 6275 | 247 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| | 5500 | 217 | 3845 | 151 | 6775 | 267 | 205 | 8 | 15 | 10 | 7000 | 15400 |
| 6000 | 236 | 4095 | 161 | 7275 | 286 | 205 | 8 | 15 | 10 | 6900 | 15150 | |
| FFT | 4550 | 179 | 2540 | 100 | 5570 | 219 | 1580 | 62 | 15 | 10 | 7000 | 15400 |
| | 5000 | 197 | 2690 | 106 | 6020 | 237 | 1730 | 68 | 15 | 10 | 7000 | 15400 |
| | 5600 | 220 | 2890 | 114 | 6620 | 261 | 1930 | 76 | 15 | 10 | 6725 | 14750 |
| | 6050 | 238 | 3040 | 120 | 7070 | 278 | 2080 | 82 | 15 | 10 | 6500 | 14300 |

D8oS-7(Shaft)

| Mast type | Maximum Fork Height | | Maximum Lowered Height | | Fully Extended Height | | Free Lift | | Rated Load Capacities | | | | | |
|-----------|---------------------|-----|------------------------|-----|-----------------------|-----|--------------------|----|-----------------------|-----|------------|-------|-----------------|---------|
| | | | | | D8oS-7(Shaft) | | With Load Backrest | | With Load Backrest | | Tilt Angle | | Load Capacities | |
| | | | | | Double Pneumatic | | Double Pneumatic | | FWD | | BWD | | LC 600mm | LC 24in |
| | | | | | deg | deg | kg | lb | | | | | | |
| STD | mm | in | mm | in | mm | in | mm | in | deg | deg | kg | lb | | |
| | 3100 | 122 | 2835 | 112 | 4375 | 172 | 215 | 8 | 15 | 10 | 8000 | 17500 | | |
| | 3300 | 130 | 2935 | 116 | 4575 | 180 | 215 | 8 | 15 | 10 | 8000 | 17500 | | |
| | 3600 | 142 | 3085 | 121 | 4875 | 192 | 215 | 8 | 15 | 10 | 8000 | 17500 | | |
| | 4100 | 161 | 3435 | 135 | 5375 | 212 | 215 | 8 | 15 | 10 | 8000 | 17500 | | |
| | 4600 | 181 | 3685 | 145 | 5875 | 231 | 215 | 8 | 15 | 10 | 8000 | 17500 | | |
| | 5100 | 201 | 3935 | 155 | 6375 | 251 | 215 | 8 | 15 | 10 | 8000 | 17500 | | |
| | 5600 | 220 | 4185 | 165 | 6875 | 271 | 215 | 8 | 15 | 10 | 8000 | 17500 | | |
| FFT | 4350 | 171 | 2630 | 104 | 5625 | 221 | 1420 | 56 | 15 | 10 | 8000 | 17500 | | |
| | 4800 | 189 | 2780 | 109 | 6075 | 239 | 1570 | 62 | 15 | 10 | 8000 | 17500 | | |
| | 5400 | 213 | 2980 | 117 | 6675 | 263 | 1770 | 70 | 15 | 10 | 8000 | 17500 | | |
| | 5850 | 230 | 3130 | 123 | 7125 | 281 | 1920 | 76 | 15 | 10 | 7900 | 17300 | | |

D9oS-7(Shaft)

| Mast type | Maximum Fork Height | | Maximum Lowered Height | | Fully Extended Height | | Free Lift | | Rated Load Capacities | | | | | |
|-----------|---------------------|-----|------------------------|-----|-----------------------|-----|--------------------|----|-----------------------|-----|------------|-------|-----------------|---------|
| | | | | | D9oS-7(Shaft) | | With Load Backrest | | With Load Backrest | | Tilt Angle | | Load Capacities | |
| | | | | | Double Pneumatic | | Double Pneumatic | | FWD | | BWD | | LC 600mm | LC 24in |
| | | | | | deg | deg | kg | lb | | | | | | |
| STD | mm | in | mm | in | mm | in | mm | in | deg | deg | kg | lb | | |
| | 3100 | 122 | 2835 | 112 | 4375 | 172 | 215 | 8 | 15 | 10 | 9000 | 20000 | | |
| | 3300 | 130 | 2935 | 116 | 4575 | 180 | 215 | 8 | 15 | 10 | 9000 | 20000 | | |
| | 3600 | 142 | 3085 | 121 | 4875 | 192 | 215 | 8 | 15 | 10 | 9000 | 20000 | | |
| | 4100 | 161 | 3435 | 135 | 5375 | 212 | 215 | 8 | 15 | 10 | 9000 | 20000 | | |
| | 4600 | 181 | 3685 | 145 | 5875 | 231 | 215 | 8 | 15 | 10 | 9000 | 20000 | | |
| | 5100 | 201 | 3935 | 155 | 6375 | 251 | 215 | 8 | 15 | 10 | 9000 | 20000 | | |
| | 5600 | 220 | 4185 | 165 | 6875 | 271 | 215 | 8 | 15 | 10 | 9000 | 20000 | | |
| FFT | 4350 | 171 | 2630 | 104 | 5625 | 221 | 1420 | 56 | 15 | 10 | 9000 | 20000 | | |
| | 4800 | 189 | 2780 | 109 | 6075 | 239 | 1570 | 62 | 15 | 10 | 9000 | 20000 | | |
| | 5400 | 213 | 2980 | 117 | 6675 | 263 | 1770 | 70 | 15 | 10 | 9000 | 20000 | | |
| | 5850 | 230 | 3130 | 123 | 7125 | 281 | 1920 | 76 | 15 | 10 | 8850 | 19400 | | |