

# Machine Specifications - L90S



**Engine**

Make and Model ..... Cummins QSX-15  
 Max Horsepower ..... 400 @ 2100 RPM  
 Max Torque ..... 1800 Ft/Lbs @ 1400 RPM  
 Bore and Stroke ..... 5.4" x 6.6"  
 No. of Cylinders ..... 6  
 Displacement ..... 915 Cu/In (15.0 liters)  
 Optional Engine ..... Caterpillar C-15 @440HP

**Air Cleaner**

Donaldson Two Stage Dry Type

**Electrical System**

Type ..... 24 Volt Negative Ground/24 Volt Start  
 Alternator ..... 100 AMP  
 Circuit Breakers (lights) ..... 30 AMP  
 Circuit Breakers (accessory) ..... 20 AMP  
 Batteries (2) ..... 12 Volt-8D @ 205 AMP Hr. each

**Torque Converter**

Dana 8000 Series Single Stage, 3 Elements

**Transmission**

Dana 6000 Series Power Shift - Spur Gear; 4 Speeds Fwd/Rev

Range	Ratio	Speed (Unladen)
1.....	4.09:1	4.4 mph (7.1 km/h)
2.....	2.27:1	7.6 mph (12.2 km/h)
3.....	1.29:1	12.7 mph (20.4 km/h)
4.....	0.72:1	Blocked

**Axles**

Fabricated Housing ..... Allied Wagner  
 Make ..... Dana  
 Model (Chassis) ..... 25D Series  
 Type ..... Planetary  
 Brakes ..... Hydraulic Wet Disc  
 Brake Size ..... 32" Diameter (813mm)

**Tires**

Size (Front) ..... 33.5 x 33-44PR  
 Size (Rear) ..... 23.5 x 25-20PR

**Hydraulic System**

"Power Beyond" hydraulics with total capacity of all pumps in the system for multiple use simultaneously. Hydraulic pilot implement controls.

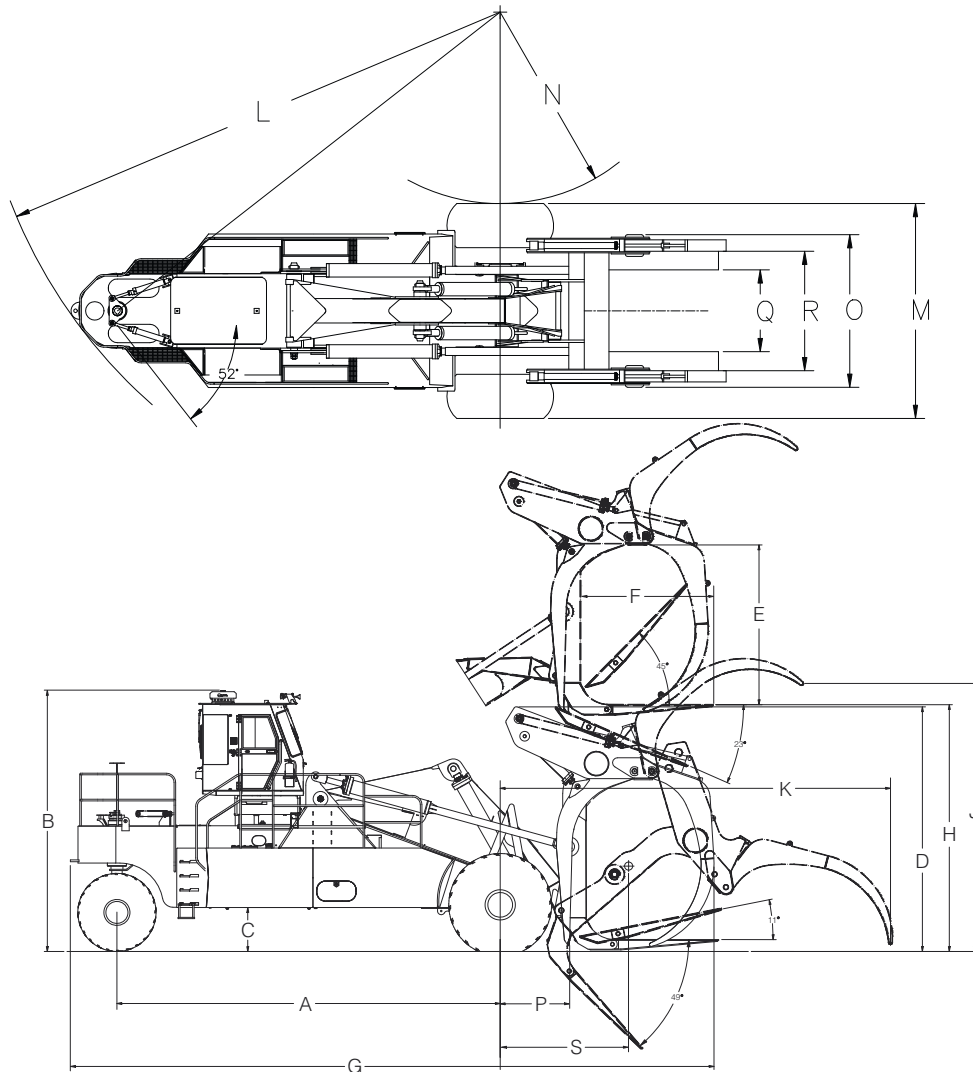
Steering Cylinder (2) ..... 4" x 20" ( 102 mm x 508 mm)  
 Hoist Cylinder (2) ..... 10" x 92" (254 mm x 2,718 mm)  
 Tilt Cylinder (2) ..... 10" x 52" (254 mm x 1,295 mm)  
 Holddown Cylinder (2) ..... 6" x 34" (152 mm x 864 mm)  
 Kickoff Cylinder (2) ..... 6" x 26" (152 mm x 864 mm)

**Service Refill Capacities**

Fuel Tank ..... 450 Gals (1703 liters)  
 Hydraulic Oil ..... 334 Gals (1264 liters)  
 Crankcase w/Filter ..... 11 Gals (42 liters)  
 Cooling System ..... 22.5 Gals (85 liters)

Specifications are subject to change without notice or obligation.

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## Dimensions (approximate)

A. Wheelbase .....	26' 0" (7,925 mm)	K. Distance from Axle to Holddown	
B. Height to Top of Cab .....	18' 0" (5,258 mm)	Tip for Reach .....	26' 6" (7,925 mm)
C. Ground Clearance Chassis .....	2' 6" (762 mm)	L. Turning Radius Tail Swing .....	35' 6" (10,820 mm)
D. Carriage Height .....	15' 0" (4,572 mm)	M. Width Outside Chassis Tires .....	14' 8" (4,470 mm)
E. Mouth Opening .....	11' 0" (3,352 mm)	N. Inside Turning Radius .....	13' 9" (4,191 mm)
F. Tine Length .....	9' 0" (2,743 mm)	O. Carriage Width .....	11' 1" (3,378 mm)
G. Overall Length .....	43' 10" (13,360 mm)	P. Axle to Face of Carriage - Hoist Down .....	7' 4" (2,235 mm)
H. Ground to Fork-Hoist Up .....	16' 6" (5,029 mm)	Q. Width Inside of Tines .....	6' 5" (1,956 mm)
J. Ground to Holddown Tip		R. Width Outside of Tines .....	8' 6" (2,591 mm)
Carriage Down/Holddown Up .....	16' 2" (4,928 mm)	S. Axle Centerline to Load Center .....	11' 0" (3,607 mm)

## Weights and Functions (approximate)

Unit Weight .....	130,000 lbs (59,090 kg)	With 36" Extension .....	70,000 lbs (31,752 kg)
Drive End .....	84,000 lbs (38,180 kg)	Forward Tilt @ Max Height .....	24°
Tail End .....	46,000 lbs (20,910 kg)	Backward Tilt @ Max Height .....	45°
Rated Lift Capacity 54"LC .....	90,000 lbs (40,823 kg)		
Rated Lift Capacity 54"LC			