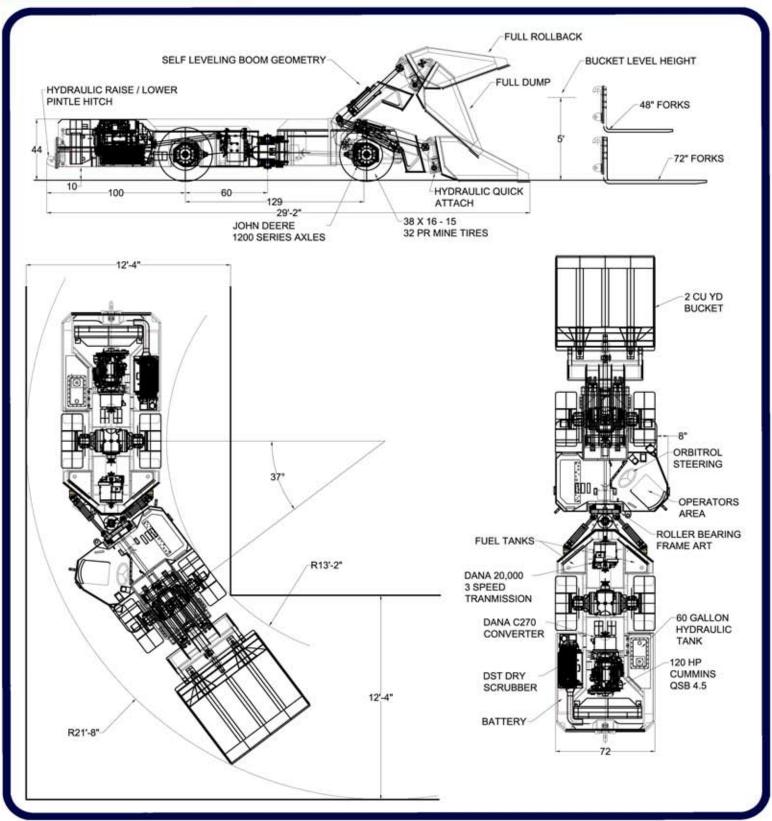


Technical Specifications and Performance Data

7.5 Ton Capacity
Non-permissible Diesel Scoop

DST 7.5-TSV



Basic Specifications:

The DST 7.5-TSV Diesel Scoop, developed and produced by Dry Systems Technologies, is designed to be a low-maintenance, productive machine for all mining operations.

Main Dimensions

Turning Radius

Inner13' 2"Outer21' 8"Turning angle37 degrees

Weights

Total operating weight 31,000 lbs **Total loaded weight** 46,000 lbs

Capacities

Tramming capacity 15,000 lbs
Break out force (lift) 15,000 lbs
Break out force (tilt) 9,600 lbs
Standard bucket 2 cu yds

Bucket Motion Times

Raising time 8.2 sec
Lowering time 6.8 sec
Bucket dump time 3.5 sec
Bucket Rollback 2.6 sec

Driving Speeds Forward and Reverse

(Loaded)

1st gear4.1 mph2nd gear8.9 mph3rd gear13.1 mph

Approvals and Ratings:

MSHA NFLP Engine approval numberENA070006MSHA FLP machine approval numberPendingMSHA ventilation rate6,000 CFM

The DST 7.5-TSV Non-permissible Diesel Scoop meets MSHA standards for non-permissible heavy duty equipment. However, a permissible model of the scoop will soon be available upon request.

Power Train:

Engine

Diesel Engine
Cummins QSB4.5
Output
120 HP @ 2500 rpm
Number of cylinders
In line, 4
Electric system
12 VDC
Exhaust system
DST dry scrubber
Fuel tank capacity
38 gal
Starter
Electric

Converter

Dana C270 Series

Transmission

Dana 20,000 Series3-speeds, modulated forward and reverse with powershift

Axles

Front axle

John Deere TMII with Hyd Diff Lock

Rear axle

John Deere TMII with Hyd Diff lock

John Deere TMII with Hyd Diff lock

Standard Brakes

Fully-enclosed multiple wet disc, pressure-applied spring release service. Spring-applied pressure release wet disc, driveline mounted parking brake.

Main Components

Pressure accumulator Piston type with charging valve

Brake pedal valve Pressure applied

<u>Tires</u>

Tire Size 38 x 16-15 PLY
Type Super Grip

Systems:

Hydraulic System

The center-articulated steering system of the 7.5-TSV is an open center system with a gear pump and two double acting steer cylinders actuated by a pilot operated control lever. The bucket/boom system is also open center with a gear pump, two lift cylinders and one dump cylinder actuated by pilot operated control levers.

Main Components

Main pump
Brake pump
Control valves
Steering cylinders
Lift cylinders
Dump cylinder
Hydraulic oil tank



Main Components

Alternator
Driving and working lights



In the Package:

Additional Standard Equipment

- Height adjustable canopy
- Automatic (Checkfire II) fire suppression system, Ansul
- Hand held, 10-A: 120-B:C fire extinguisher 20 lb.
- Hydraulic controlled height adjustable rear hitch

Optional Add-ons

- Quick attach assembly for standard bucket
- Multiple bucket options available
- Quick change pallet fork assembly
- Spare tire and wheel assembly
- Hydraulic PTO
- Other hitch options available

The DST® Difference:

The DST 7.5-TSV comes outfitted with the state-of-the-art dry scrubber system that gives Dry Systems Technologies its name. This patented technology, the most reliable on the market, provides for unsurpassed diesel pollution reduction, allowing this machine to meet MSHA standards while protecting the health and safety of all your mine employees.

DST® Systems provide:

- » 99% Carbon soot reduction
- » 99% Sulfate reduction
- » 90% CO reduction
- » 85% HC reduction
- » 96+% overall DPM reduction



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technology for a cleaner environment.

Dry Systems Technologies (DST®) is a world leader in the design, manufacture and installation of diesel emissions control systems used for mining and construction equipment. Our products are the result of more than 20 years of progressive and innovative design, testing and improvement, allowing us to offer the most efficient and reliable system on the market for reducing diesel engine emissions.

DST® is a leading supplier of Diesel Power Packages and Emissions Control Solutions for both new (O.E.M.) and rebuilt machinery in the mining and construction Industries. Our products are available for both permissible (flame-proof) and non-permissible applications. Our systems can be used in a wide variety of machinery and are often custom-designed to meet the unique requirements of our valued customers.

Expanding on our extensive history and experience with diesel equipment, we are proud to introduce the DST® 7.5-TSV Non-permissible diesel scoop, another addition to our new line of Mining support and production equipment. We are confident that we have engineered a durable, innovative machine that will serve your mining operation well for years to come.