

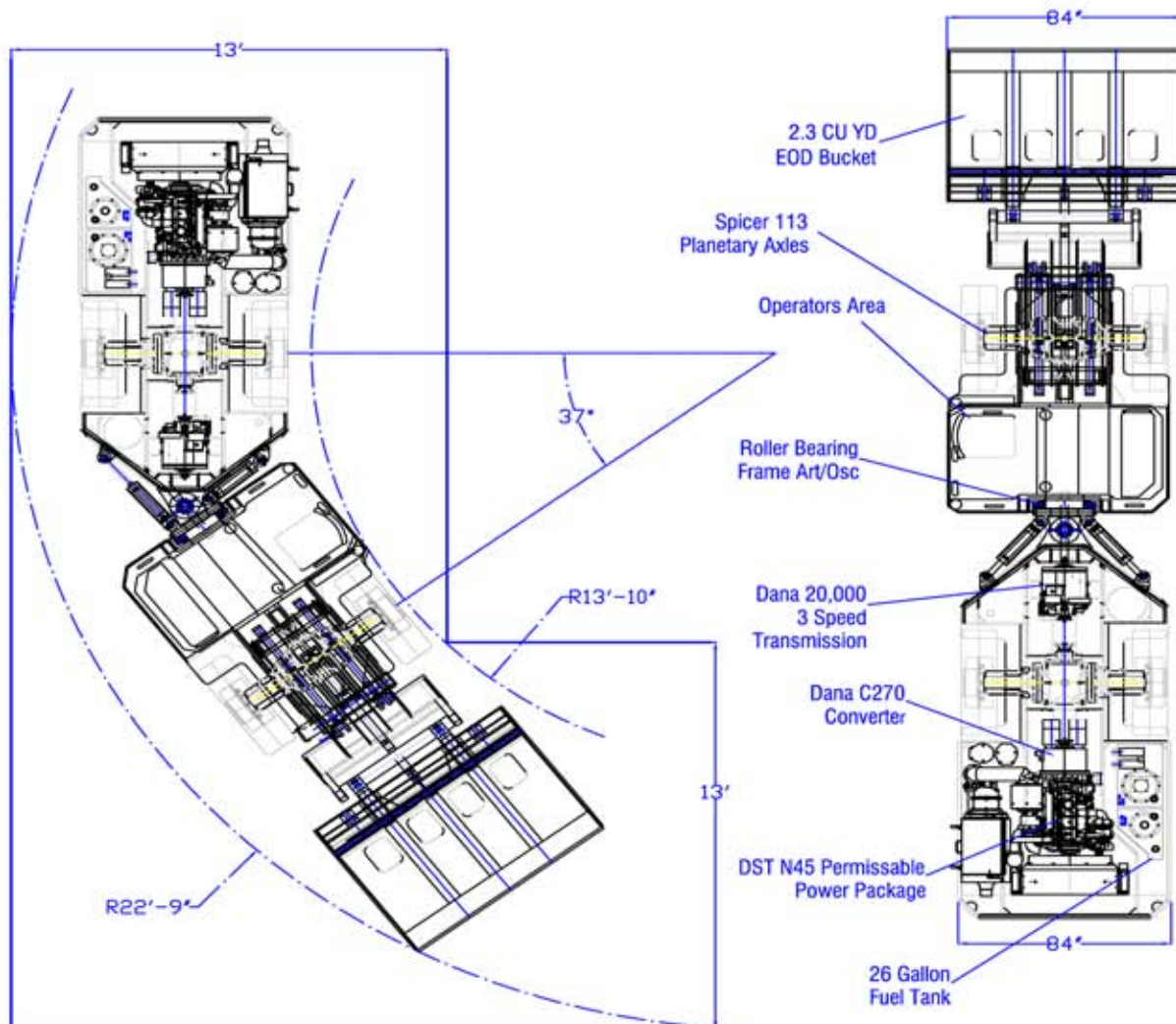
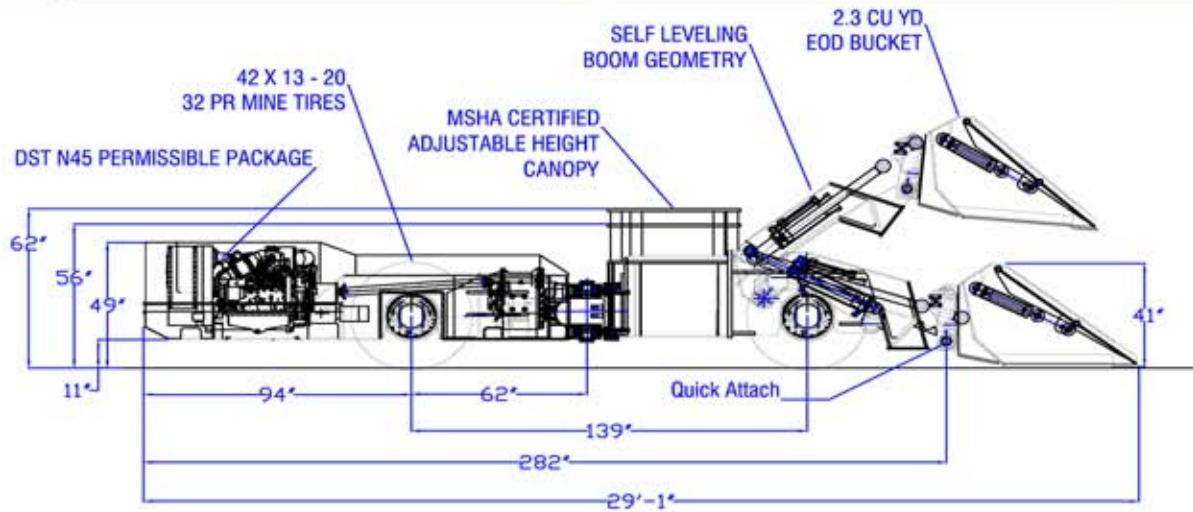


**Dry Systems
Technologies**

Technical Specifications and Performance Data

7.5 Ton Capacity
Permissible Diesel Scoop

DST 7.5-FP



Basic Specifications:

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

Main Dimensions

Height with MSHA Canopy	56" to 62"
Engine cover height	49"
Width:	
Power frame end	84"
Bucket	84"
Total Length:	29'1" w/ EOD bucket
Weight	35,000 lbs w/ EOD bucket

Turning Radius

Inner	12' 10"
Outer	22' 3"
Turning angle	37 degrees

Weights

Total operating weight	35,000 lbs
Total loaded weight	50,000 lbs

Capacities

Tramming capacity	15,000 lbs
Break out force (lift)	15,000 lbs
Break out force (tilt)	9,600 lbs
Standard bucket	2.3 cu yds

Bucket Motion Times

Raising time	9 sec
Lowering time	7.5 sec
Bucket dump time	4 sec
Bucket Rollback	3 sec

Driving Speeds Forward and Reverse (Loaded)

1st gear	2.5 mph
2nd gear	6 mph
3rd gear	11 mph

Approvals and Ratings:

MSHA FLP Powerpack approval number	07-FA150001
MSHA FLP Engine approval number	07-EPA140003
MSHA ventilation rate	5,500 CFM

The DST 7.5-FP Permissible Diesel Scoop meets MSHA standards for permissible heavy duty equipment.

Power Train:

Engine

Diesel Engine	DST FPT N45
Output	124 HP @ 2200 rpm
Number of cylinders	In line, 4
Electric system	12 VDC
Exhaust system	DST® Dry Scrubber
Fuel tank capacity	26 gal
Starter	Air powered

Converter

Dana C270 Series

Transmission

Dana 20,000 Series	3-speeds, modulated forward and reverse with powershift
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Axles

Front axle	Spicer model 113 with limited slip
Rear axle	Spicer model 113

Standard Brakes

**Fully-enclosed multiple wet disc, pressure-applied service.
Spring-applied pressure release wet disc parking.**

Main Components

Pressure accumulator	Bladder type
Brake pedal valve	Pressure applied

Tires

Tire Size	42 x 13-20
Type	32 PLY Deep Lug

Systems:

Hydraulic System

The center-articulated steering system of the 7.5-FP 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 an 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

Gear pump (29 gpm @ 2200 rpm)

Gear pump (10 gpm @ 2200 rpm)

Pilot operated

4" bore x 2" rod

6" bore x 2.5" rod

6" bore x 3" rod

47 gal

Electrical System

Main Components

Alternator

300 watt 15 amp

Driving and working lights 12 watt



In the Package:

Additional Standard Equipment

- Height adjustable canopy
- Automatic (Checkfire II) fire suppression system, Ansul
- Hand held, 10A:60B:C fire extinguisher – 20 lb.

Optional Add-ons

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

The DST® Difference:

The DST 7.5-FP 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 employees.

DST® Systems provide:

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



**Dry Systems®
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10420 Rising Court
Woodridge, IL 60517
(630) - 427 - 2051



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Technologies**

Technology for a cleaner environment

10420 Rising Court
Woodridge, IL 60517

P (630) 427-2051

F (630) 427-1036

www.drysystemstech.com

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-FP 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.