

# DRONE ANCHOR SPREADER

## Model DSPA1



Harsco Rail's new Drone Anchor Spreader (DSPA1) integrates the latest technology into a highly productive machine. The DSPA1 is part of our line of Drone track maintenance machines.

The DSPA1 Drone Anchor Spreader is one of the family of new machines designed to bring automation, high production, commonality and overall cost savings to your track maintenance projects.

# DRONE ANCHOR SPREADER

## Special Features

The Drone Anchor Spreader is designed to work autonomously with very little human input required once the machine is set up to go to work each day.

Anchor recognition, paint recognition, collision avoidance and tie mapping systems all use breakthrough technology to help automate the machines, as well as reduce the number of machines and operators needed in most operations.

Equipped with robust and redundant safety features, Harsco Rail drone machines are field-proven to achieve high production while protecting people and equipment.

## Features

### Tie mapping

With data gathered from the MSPA1 Spike Pullers working in front of the Drone Anchor Spreader, transmitted through an Ethernet connection, a “map” of the ties to be replaced is created.

### Easily adjustable to accommodate various rail sizes

Effective in working on rail sizes from 85 lb. to 155 lb.

### Travel Assist

Equipped with Travel Assist feature which allows the DSPA1 to be coupled with a MSPA1 Multi-Function Spike Puller for travel to and from the worksite. Traction of both machines is synched together.

### Jupiter Control System

Harsco Rail’s rugged and scalable distributed I/O control system provides comprehensive diagnostics, data recording and a simplified electrical system.

### Common parts

Designed with components used on other Harsco track maintenance machines. Reduces the number of different parts required on hand.

### Drone operation

Using the Tie Mapping System or the Tie Finder, Anchor Recognition and Paint Recognition systems the machine is able to identify the next tie to be worked and automatically index to that location and cycle. No operator interface required during normal production operations.

### Redundant Safety Systems

Equipped with radar, emergency stop bars and obstacle detection systems to safely alert the machine if something is fouling the track ahead.

### Hydraulic Brakes

Spring applied – hydraulic released brakes eliminate the need for a pneumatic system.

### John Deere 4045 139 HP diesel engine

Other engine options are available. Machine has been designed to readily accept John Deere Tier IV engine.

### Drive

Two-axle chain drive. Equipped with 3 1/2” axles for rugged dependability.

### Easy access maintenance points

Open design and remote lubrication reduces maintenance time.





## Optional Features

### Powered Jack Stands

Powered jack stands at the four corners of the machine provide a safe method to lift the machine if maintenance is required.

### Compass

Harsco Rail's telematics system monitors the machine's production, location and key data such as engine and hydraulic oil temperature and maintenance reports.

### Hydraulic Filtration

Kidney loop, return filters, etc.

### Remote Drain

Fuel, Hydraulic, Diesel and engine oil remote drains

### Collision Avoidance System

As part of a complete track safety program, Harsco's Collision Avoidance System will alert operators if the machine gets too close to the machines working around it.



### Tool and Storage Box

Open tray or closed tool box mounted at the rear of machine. Also available is the spare parts storage box.

### Fire Extinguisher/Cone Holder

Available per customer specs

### Tie Downs

Keyhole tie downs welded to machine in accordance to AREMA or customer specifications.



# DRONE ANCHOR SPREADER MODEL DSPA1

## Specifications

Length	297.5 in.
Width	102 in.
Height	127 in. (120 in. for shipping)
Wheelbase	173.75 in.
Weight	22,000 lbs. (approximately)
Max Travel Speed	Up to 25 mph
Fuel Capacity	100 gal. (sufficient for up to 16 hours)
Wheels	16 in. diameter
Brakes	Spring applied, hydraulically released, tread style Cobra shoes, on both axles
Electrical System	24 VDC
Pneumatic System	None used
Workheads	Robust workhead design spread anchors by sliding the tie plates forward and back.

Download full specs at [www.harscorail.com](http://www.harscorail.com)  
Watch video at [www.youtube.com/user/harscorail](http://www.youtube.com/user/harscorail)

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