

DRONE ANCHOR SQUEEZER

Model DSQA1



Harsco Rail's new Drone Anchor Squeezer (DSQA1) integrates the latest technology into a highly productive machine. The DSQA1 is part of our line of Drone track maintenance machines.

The 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 SQUEEZER

Special Features

The continuous action Drone Anchor Squeezer 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 and tie mapping systems all use breakthrough technology to help automate the machine, 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

Comfortable Travel Cab

Climate controlled cab with seating for 1 driver and 2 riders provides safe, comfortable accommodation when travelling to/from the work site.

Continuous Action

Allows the machine to perform at a high production rate while squeezing at every tie with rail anchors.

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.

OTM Storage

Storage bin located at the rear of the machine can hold track materials such as spikes and anchors provides easy access for quality control work behind the machine.

Drone operation

Using the Tie Finder and Anchor Recognition systems the machine is able to identify the next tie to be worked and automatically initiate the work cycle at that location. No operator interface required during normal production operations.

Redundant Safety Systems

Equipped with radar, emergency stop bar (option) 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 Tier IV engine.

Drive

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

Easy access maintenance points

Open design and remote lubrication reduces maintenance time.



Optional Features

Quality Control Cart w/Lift System

This self-propelled cart makes quality control work easier. Forward/reverse capabilities with caliper brake. Generator to supply electrical power to the components. It can carry the tools and materials necessary. With the powered lift system fitted to the back of the DSQA1, it is easily transported to/from the work site. The cart can be equipped with features like umbrellas, fans, horn and lights.

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 Drains

Fuel, hydraulic oil, diesel fuel 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.

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.

Tool and Storage Box

Open tray or closed tool box mounted at the front of machine. Also available is the spare parts storage box located under the cab.

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 SQUEEZER MODEL DSQA1



Specifications

| | |
|-------------------|--|
| Length | 364 in. |
| Width | 108 in. (102 in. for shipping) |
| Height | 125 in. (120 in. for shipping) |
| Wheelbase | 198 in. |
| Weight | 24,300 lbs. (approximate) |
| 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 | Independent workheads allow the machine to work on slewed ties. |

Download full specs at www.harscorail.com
Watch video at www.youtube.com/user/harscorail

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