

Technical News Bulletin

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Single line shear spray system

Introduction

This shear spray system is designed as a modern and economical replacement for the 502-301 single line shear spray unit.

The system comprises the control unit which incorporates an emulsion mixing unit. The mixing unit is capable of providing oil/water ratios from 1:100 to 1:1800. The upper part of the control cabinet houses the electronics in a sealed enclosure to ensure maintenance with water and oil can be carried out without risk to the system or personnel.

For convenience of adjustments and to allow local shut-off of emulsion mix and air, a separate distribution box is supplied, to be mounted near the shear mechanism. The distribution box provides an air regulator for spray air and a single flow meter for the spray emulsion. A shut-off valve and connection for the gob spray unit is also provided.



Shear spray mixing station



Distribution station

Features

Shear Spray Mixing Station

- Separate electronics compartment in panel
- Dosing and mixing unit
- 38-liter local oil tank

Distribution Box

Shear spray air pressure regulation

- Visual flow meter for fluid control
- Scoop spray connection

Option

- Second connection with flow meter for shear spray (LH and RH connection)



Drawing references

Description	Part Number
Shear spray system	565-320
Single shear spray control unit	565-302-1
Distribution box (single flow meter for shear fluid + gob spray connection)	565-316-3
Water filter with bypass	565-315-1
Shear spray head (Optional)	565-203

Installation requirements

Main Power Supply

220 VAC

Water Supply

Pressure 3 bar @ 100 liters per hour

Ph 7.5 to 8.5

TDS (Totally dissolved solvents) <100ppm

Temperature 15°C to 50°C

Ambient Temperature

5°C to 40°C

Features/Benefits

Features	Benefits
Local installation for one machine	Simple operation Oil water ratio to suit production Reduces pipe blockages and contamination
Electronically controlled dosing unit	Precise control of emulsion mixture
Electronics and dosing separated in upper cabinet area	Prevent contamination / early failure of electronic components