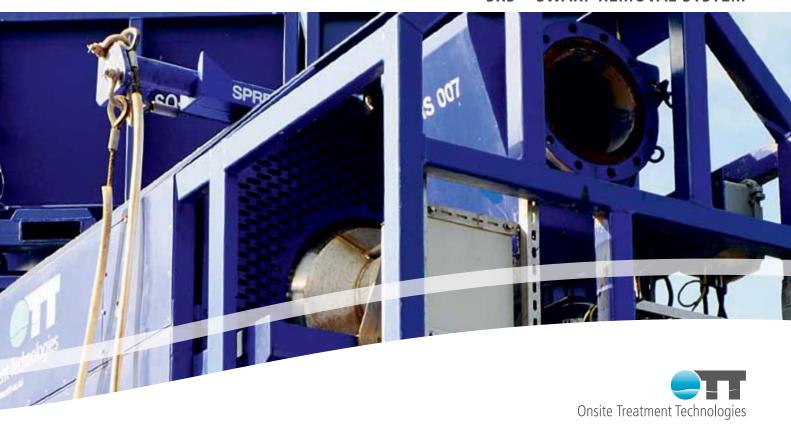
## SRS – SWARF REMOVAL SYSTEM



# THE SWARF REMOVAL SYSTEM (SRS) IS DESIGNED TO REMOVE METAL SWARF, LARGE PIECES OF CEMENT, PIECES OF CASING, AND OTHER DEBRIS FROM THE CIRCULATING FLUID DURING CASING MILLING OPERATIONS

The process is based on two rotating concentric drums whose axis is tilted at a slight angle to the horizontal (up to 10°). The inner drum has large (10 mm) perforations and the outer drum has replaceable fine mesh panels (typically 3 mm square mesh). The circulating fluid and waste pass through a flow control device into the inner drum. The fluid passes through the perforations and meshes into a collecting tank below the drums and via this tank back to the platform mud circuit. The swarf is retained within the drums, and due to the angle of inclination and the rotation of the drum is caused to travel down the length of the drum exiting the open end and by way of a chute into waste skips for disposal. The equipment once set up and tuned to the flow rate of milling fluid, requires no manual operator intervention other than to replace waste skips as and when filled. Drum tilting and rotation are achieved through a simple hydraulic system from an integral 2.2 kW electro/hydraulic power pack.

There are few points of maintenance and these are designed for ease of access. A comprehensive illustrated manual describes safety, operational adjustments and maintenance.



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#### **TECHNICAL SPECIFICATIONS**

#### **HYDRAULIC POWER PACK MOTOR**

• Rating 2.2 kW / 3.0 hp 2 pole

Frame Vertical shaft, flange mounted

• Ex rating and voltage to suit zone of operation

## **HYDRAULIC PUMP**

Model PLP 10-6.300-81 E1 – LLB/BA-N

Displacement 6.2 cc / Rev

## **HYDRAULIC MOTOR**

Model MGLR-125 A25Displacement 125 cc / rev

## **CHAIN DRIVE**

Large sprocket 25 teethSmall sprocket 9 teethDrive ratio 2.78:1

• Drum speed 8 - 12 rpm under load

# **SWARF SEPARATION**

• 1st stage Perforated drum, holes  $\emptyset$ =12 mm

2nd stage Woven wire screens (6)

• 3 mm x 3 mm aperture (4 mm x 4 mm optional)

#### **DRUM MODULE**

Length 4000 mm
Width 1500 mm
Height 1900 mm
Weight 2250 kg

### STANDARD TANK MODULE

Length 4200 mm
 Width 1500 mm
 Height 1700 mm
 Capacity 1700 mm
 Weight 1500 kg

#### **OPERATING CONDITION**

Length 4200 mm

Width including access platform 2410 mm

Height 3800 mm

Weight including 30 bbl mud @ 1.6 sg 12,000 kg

• Footprint 3000 mm x 1450 mm

## NOTE:

These dimensions and weights exclude the discharge pump, supply and discharge pipework, valves etc.

