

## ● SCM-BULK TRANSPORT



In many parts of the world, government regulatory agencies are placing increasingly stringent limitations concerning the containment, handling, treatment and disposal of contaminated drill cuttings to the environment.

To comply with these requirements, specialized technology has been developed to meet these new challenges. Scomi Equipment Inc (SEI) now offers the new Bulk Transport System, an engineered solution for your drill cuttings containment and handling problems.

### CONCEPT

The SEI Bulk Transport System consists of the following components:

- Cuttings Blowing Pump (CBP) 800
- Boat Frames c/w Pipe work, valves and logic control system.
- Bulk Storage Tanks (Non-Pressurized)
- Compressor
- Hydraulic Tipping Mechanism (Located at Process Facility onshore)

The SEI Bulk Transport System works by firstly utilizing the CBP 800 unit to transfer drill cuttings directly from the shaker house to either rig based Bulk Tanks, Buffer Tank or to Drilling Waste Containers (DWC) or to Bulk Tanks located overboard on a supply vessel.

The CBP 800 Unit operation is alternated by a PLC control system which has 3 modes manual, timer and feedback and can be set to suit the application and / or material type being conveyed.

### APPLICATION

The CBP 800 system allows the continuous collection of drilling waste which can be used to transfer drill cuttings from one area to another onboard the rig or overboard to bulk tanks on a vessel without comprising the ongoing drilling operations.

In a standard application as many as 18 Bulk Tanks can be installed onboard a vessel providing over 352 tonnes of containment volume.

The CBP 800 System can be positioned in most conditions with vertical distances of 150 ft (50 m) and total discharge lengths of up to 550 ft (185 m) achievable with this system.

### FEATURES & BENEFITS

- **Boat System Capacity** – 18 Tanks give a capacity of approx. 352 tonnes (349,200 kg)
- **Pneumatic Conveying** – The unit delivers up to 150 psi (10 bar)
- **Maintenance** - No moving parts within the CBP 800 or Bulk Tanks
- **Versatile** – has the ability to handle true solids up to 75 mm in size
- **Safety** –the CBP 800 has an automatic control system and 3 independent pressure relief valves for protection of the personnel operating the unit
- **Safety** – all components designed in accordance with ATEX (Zone 1 rated) and / or DNV 2.71
- **Flexible** – the boat frames can be configured to suit most types of supply vessel
- **Versatile** - vertical distances of up to 150 ft (50 m) and total discharge distances in excess of 550 ft (185 m)
- **Easy to Install** – ISO lock fittings allows for a quick and efficient installation

## CONTAINMENT AND HANDLING

### SPECIFICATIONS

#### Cuttings Blowing Pump (CBP) 800

| General                 |   |
|-------------------------|---|
| Max. Working Pressure   | 150 psi (10 bar)                                    |
| Vessel Size             | 200 L (each)  |
| Inlet                   | 8" (203 mm)   |
| Outlet Pipework         | 4" Victaulic Fitting                                |
| Control System          | PLC (Wireless available)                            |
| Safety                  | ATEX Compliant / Zone 1 rated                       |
| Design                  | DNV 2.71 Approved                                   |
| Capacity                | 25+ tonnes/hr (Per Vessel)                          |
| Dimensions              |   |
| Length x Width x Height | 83" x 58" x 77"<br>(2,100 mm x 1,450 mm x 1,965 mm) |
| Weight                  |   |
| Net                     | 2,395 lbs (1,085 kg)                                |
| Utility Requirements    |   |
| Air                     | 850 cfm @ 8 bar                                     |
| Electrical              | 110 Volts / 3 Phase / 50 or 60 Hz                   |
| Water                   | None Required                                       |

#### Boat Based Frames

| General    |                             |
|------------|-----------------------------|
| Design     | DNV 2.71 Approved           |
| Finish     | Galvanised                  |
| ISO Lock*  | William Cook™ Type WCI 1212 |
| ISO Lock** | William Cook™ Type BLR 1515 |

#### Boat Based Frames

| Dimensions              |  |
|-------------------------|--|
| Length x Width x Height | 192" 120" 9"<br>(4,867 mm x 3,036 mm x 230 mm) |
| Weight                  |  |
| Net                     | 1,356 lbs (615 kg)                             |

#### Walkway Frame

| General                 |  |
|-------------------------|--|
| Pipe work Size (I.D)    | 4" (102 mm)  |
| Max. Working Pressure   | 150 psi (10 bar)                                     |
| Valve Type              | 4" Stainless Steel Full Bore                         |
| Safety                  | ATEX Compliant / Zone 1 rated                        |
| Dimensions              |  |
| Length x Width x Height | 117" x 89" x 91"<br>(2,979 mm x 2,250 mm x 2,312 mm) |
| Weight                  |  |
| Net***                  | 2,866 lbs (1,300 kg)                                 |
| Utility Requirements    |  |
| Air                     | 100 cfm @ 7 bar                                      |
| Electrical              | 110 Volts  |

\* Used to lock base frames together

\*\* Used to lock Bulk Tanks to Base Frames

\*\*\* Includes Pipe work, Valves and Control Panel

#### Walkway Base Frame

| Dimensions              |   |
|-------------------------|---|
| Length x Width x Height | 117" x 98" x 7"<br>(2,979 mm x 2,486 mm x 165 mm) |
| Weight                  |   |
| Net                     | 573 lbs (260 kg)                                  |

#### Bulk Storage Tank

| General                 |  |
|-------------------------|--|
| Design                  | DNV 2.71 Approved                                    |
| Dimensions              |  |
| Length x Width x Height | 192" x 96" x 96"<br>(4,866 mm x 2,438 mm x 2,626 mm) |
| Weight                  |  |
| Tare Weight             | 12,345 lbs (5,600 kg)                                |
| Payload Weight          | 42,770 lbs (19,400 kg)                               |
| Gross weight            | 55,115 lbs (25,000 kg)                               |

#### Bulk Transfer Hose

| Overboard Line      |  |
|---------------------|--|
| Specification       | AlfaGamma™ Type 652AAZ / Dunlop Gaflor™ Type 341 or Equivalent |
| Diameter (I.D)      | 4" (102 mm)  |
| Working Pressure    | 500 psi (35 bar)   |
| Burst Pressure      | 2,000 psi (140 bar)  |
| Floatation Device** | Collar Centres @ 1.85 m intervals                              |

#### Weight\*

|     |                 |
|-----|-----------------|
| Net | 15 lbs (6.8 kg) |
|-----|-----------------|

#### Rig Line

|                  |  |
|------------------|--|
| Specification    | AlfaGamma™ Type 615AAZ / Dunlop Gaflor™ Type 607 or Equivalent |
| Diameter (I.D)   | 4" (102 mm)  |
| Working Pressure | 235 psi (16 bar)   |
| Burst Pressure   | 950 psi (64 bar)   |

#### Weight\*

|     |                 |
|-----|-----------------|
| Net | 10 lbs (4.6 kg) |
|-----|-----------------|

#### Hydraulic Emptying Mechanism\*\*\*

| General               |                                 |
|-----------------------|---------------------------------|
| Finish                | Galvanised                      |
| Silo's Capacity       | 800+ tonnes                     |
| Movement              | 2 Railtracks (27.5 m in Length) |
| Maximum Angle         | 85 Degrees                      |
| Control               | Wireless Handheld Remote        |
| Max. Working Pressure | 5,250 psi (350 bar)             |
| Lifting Capacity      | 57,320 lbs (26,000 kg)          |

#### Dimensions\*\*\*\*

|                         |   |
|-------------------------|---|
| Length x Width x Height | 217" 142" 91"<br>(5,500 mm x 3,600 mm x 2,300 mm) |
|-------------------------|---|

#### Weight

|     |                       |
|-----|-----------------------|
| Net | 14,550 lbs (6,600 kg) |
|-----|-----------------------|

\*Based on a 1 m Length of Hose excluding fittings

\*\*Based on 14 lbs Drilling Fluid

\*\*\*Located at SEI Process Facility

\*\*\*\*When in the Parked position