

### SCM-SCREW CONVEYOR CUTTINGS TRANSFER SYSTEM

The Screw Conveyor systems have been successfully utilized in the transportation of drilling waste for over twenty-one years. It offers a traditional solution together with additional performance options to cater for most drilling and environmental conditions.

#### CONCEPT

The Screw Conveyor is designed to transport drilling waste from one point to another safely and efficiently. This is achieved by the use of a scroll (auger), which is rotated inside trough by an electric motor. Drilling waste is fed into the Screw Conveyor and transported along by the rotating scroll.

The waste is then offloaded by means of a chute when it reaches the end of the Screw Conveyor. The scroll is sealed inside the trough by a hinged metal lid which is bolted down for increased safety.

Where large distances or turns are to be maneuvered, it may be necessary to place sections of the Screw Conveyor together. The drilling waste is then transported along a section of conveyor before being fed into the next section.



#### APPLICATION

Screw Conveyors are utilized to transfer solid waste or slurry from solids control equipment to drilling waste containers, barges or to a point of treatment, e.g. a Slurrification Unit or Drilling Cuttings Injection.

#### FEATURES & BENEFITS

- Safety – all Screw Conveyors feature bolt down metal lids for improved safety. An optional remote emergency shut-down system is available
- Maintenance – metal lids are hinged and can be easily removed for ease of maintenance
- Versatile – a variety of lengths can be supplied that are suitable for most drilling conditions
- Size – Screw Conveyor systems can be sized according to application to minimize cost and down time
- Bearings – various configurations are available subject to application to minimize down time
- Low power requirement – when compared to pneumatic or slurrification containment systems
- Continuous discharge – eliminates the need for holding tanks
- Minimal operator intervention – requires relatively low levels of manpower for operation

## CONTAINMENT AND HANDLING

### SPECIFICATIONS

General				
Model	SCM-Screw Conveyor			
Screw Conveyor Diameter	10" (254 mm)	12" (304.8 mm)	14" (355.6 mm)	16" (406.4 mm)
Conveying Capacity*	25 metric tons/hr	45 metric tons/hr	70 metric tons/hr	110 metric tons/hr

\*Figures based on 16 ppg (1.9 SG) drilled cuttings at 50 rpm and 40% trough loading. Higher rates are possible with increased rpm's

Weights				
Drive section	900 lbs (408 kg)	1,500 lbs (680 kg)	1,700 lbs (770 kg)	2,000 lbs (907 kg)
Mid section (s)	600 lbs (272 kg)	900 lbs (408 kg)	975 lbs (442 kg)	1,100 lbs (499 kg)
End section	700 lbs (318 kg)	1,000 lbs (454 kg)	1,150 lbs (522 kg)	1,300 lbs (590 kg)

Dimensions				
<b>DRIVE SECTION</b>				
Length**	150" (3,810 mm)	174" (4,420 mm )	174" (4,420 mm)	174" (4,420 mm)
Width	16" (406 mm)	18" (460 mm)	20" (508 mm)	22" (559 mm)
Height	36" (910 mm)	36" (910 mm )	36" (910 mm)	42" (1,067 mm)
<b>MID SECTION (S)</b>				
Length**	120" (3,048 mm)	144" (3,660 mm)	144" (3,660 mm)	144" (3,660 mm)
Width	16" (406 mm)	18" (460 mm)	20" (508 mm)	22" (559 mm)
Height	16" (406 mm)	18" (460 mm)	20" (508 mm)	22" (559 mm)
<b>END SECTION</b>				
Length**	126" (3,200 mm)	150" (3,810 mm)	150" (3,810 mm)	150" (3,810 mm)
Width	16" (406 mm)	18" (460 mm)	20" (508 mm)	22" (559 mm)
Height	16" (406 mm)	18" (460 mm)	20" (508 mm)	22" (559 mm)

\*\*Auger section lengths will differ according to the job requirements

Utility Requirements				
<b>ELECTRICAL</b>				
Voltage	380/460 V			
Phase	3 Phase			
Frequency	50/60 Hz			
Power***	5.4 hp (4 kW)	7.4 hp (5.5 kW)	10 hp (7.5 kW)	10 hp (7.5 kW)
Safety	Explosion proof electrics			

\*\*\*Figures quoted are for a 7.3 m (24 ft) long conveyor I.e. a drive section and an end section