

# Inclined Plate Settler

## Drives



### Lifting sequences

Definition: 100% load equal to max torque recommended by supplier.

#### Load Function

< 50% Normal operation with rakes in lower position.  
> 75% Rakes are lifted until 100% load is reached. Rakes stay in upper position until 70% is reached, then lowering towards bottom position.

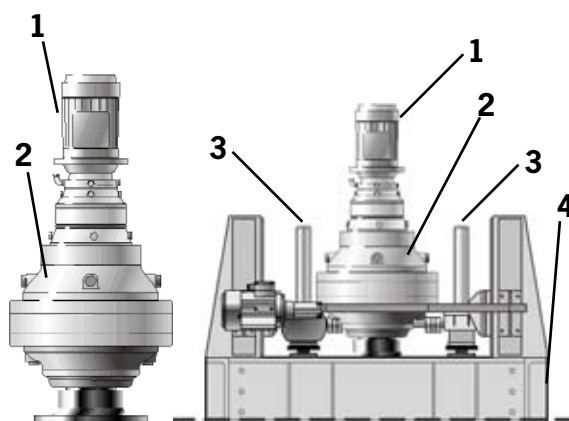
> 100% Cut-out torque stops rotation of rakes. Lifting to the top position and alarm. Starts up normally from drive head control panel.

#### Control panel

- PLC controlled
- Fully automatic incl. functions for:
  - Speed control of flocculator
  - Torque signal
  - Start and stop sequences
  - Alarm indications for levels, flows etc.
  - Control of underflow valve and pump

### Design

1. Gear motor
2. Planetary gear
3. Screw jack
4. Frame



### Sizes

| Drive unit size | Max. operating torque |          | Cut-out torque |          | Power range |           | Lifting capacity |           |
|-----------------|-----------------------|----------|----------------|----------|-------------|-----------|------------------|-----------|
|                 | Nm                    | (ft lbs) | Nm             | (ft lbs) | kW          | (hp)      | kN               | (lbf)     |
| SFL 02          | 2 000                 | (1 475)  | 2 700          | (1 990)  | 0,18-0,75   | (¼ - 1)   | 50               | (112 400) |
| SFL 05          | 5 000                 | (3 690)  | 6 750          | (5 000)  | 0,37-2,2    | (½ - 3)   | 50               | (112 400) |
| SFL 10          | 10 000                | (7 380)  | 13 500         | (9 956)  | 0,37-5,5    | (½ - 7 ½) | 50               | (112 400) |
| SFL 20          | 20 000                | (14 760) | 27 000         | (19 900) | 0,55-4,0    | (¾ - 5)   | 50               | (112 400) |
| SFL 30          | 30 000                | (22 140) | 40 500         | (29 900) | 0,75-5,5    | (1 - 7 ½) | 50               | (112 400) |
| SFL 60          | 60 000                | (44 255) | 80 000         | (59 005) | 0,75-5,5    | (1 - 7 ½) | 100              | (224 800) |