

# CHAIN SCRAPER SYSTEM

A Sludge and Scum Removal System







# CHAIN SCRAPER SYSTEM

Chain Scraper System incorporates travelling scraping mechanism to remove high viscous scum floating on the surface of the liquid and sludge at the bottom of the liquid. The system is suitable for bottom scraping, top scraping and top & bottom scraping. We provide a complete solution, from scraping to transportation of liquid/scum and sludge to their respective pits.



# ABOUT PROBLEM



## Unsmooth Chain Performance

Due to continuous working, wear & tear of the chain & improper tensioning the slacking of chain occurs



## Bulky Flight Scraper

Due to increase in freeboard the height of the scraper increases causing increase in the weight of the system



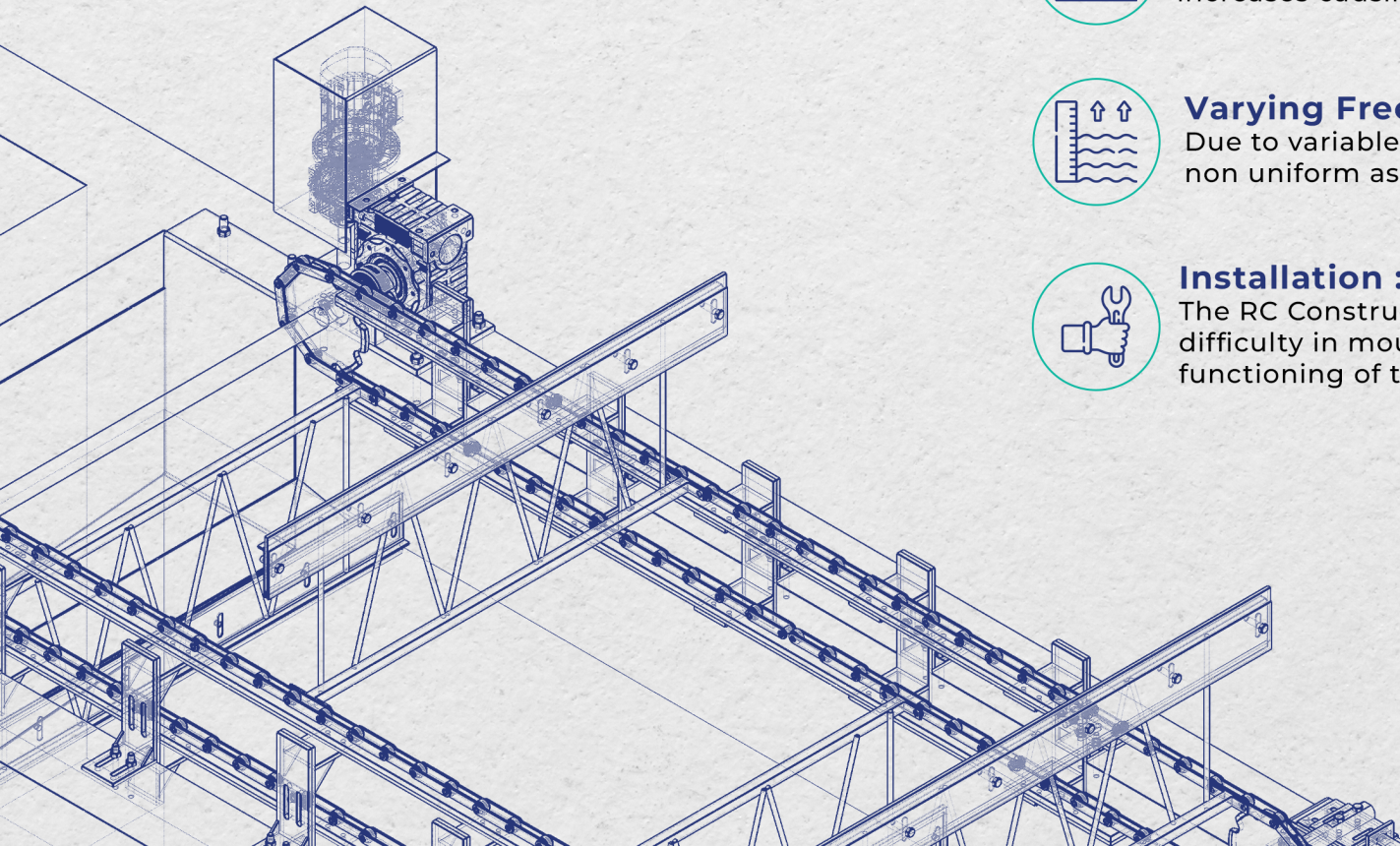
## Varying Freeboard

Due to variable freeboard the recovery rate obtained is non uniform as the height of the scraper is fixed

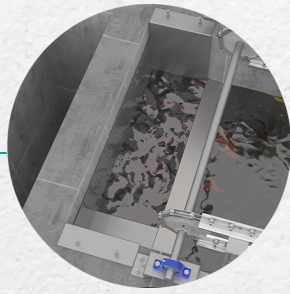


## Installation : Improper Civil

The RC Construction is usually improper causing difficulty in mounting the system & later affects the functioning of the system

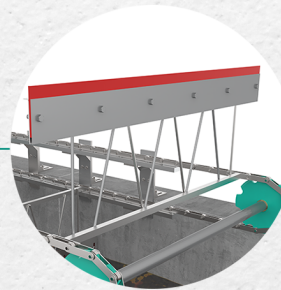






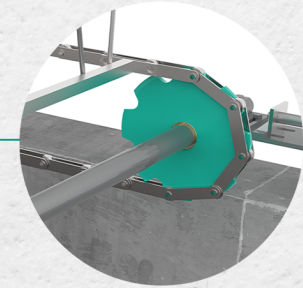
### Oil recovery outlet

**Trough**  
The trough (Outlet System) collects the oil (Scum/Sludge) and can transfer it with the help of transferring unit (pump).



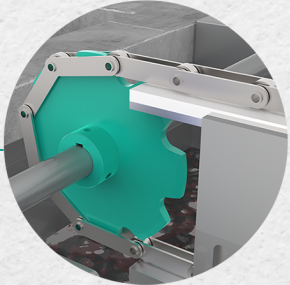
### Smooth and steady flight

**Adjustable Flight Scraper**  
The Flight scraper is adjustable up to 50 mm, which solves the problem of varying freeboard. The truss structure adds structural integrity to the flight scraper and helps in the steady and smooth functioning of the flight scraper.



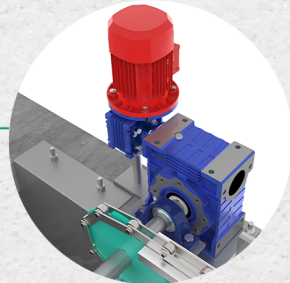
### Easy to install

**Shaft Assembly**  
The Adjustable Mounting system solves the installation error caused due to improper civil construction and thus makes the Shaft assembly simple & easy to install requiring very less time.



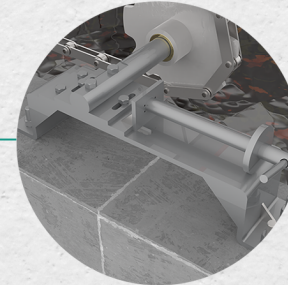
### 20% Less friction

**Roller Chain and Sprocket**  
The roller type chain has a line contact with the rails, which reduces the friction up to 20%, eventually increasing the durability of the chain & resulting in low power consumption.



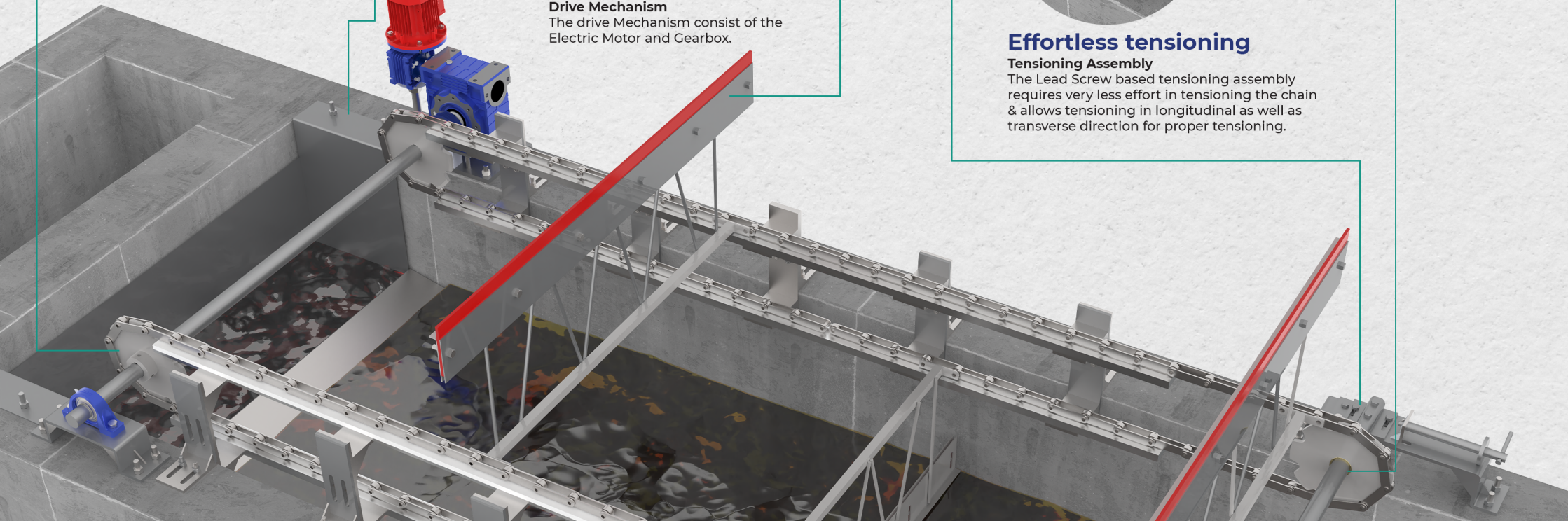
### Potent power

**Drive Mechanism**  
The drive Mechanism consist of the Electric Motor and Gearbox.



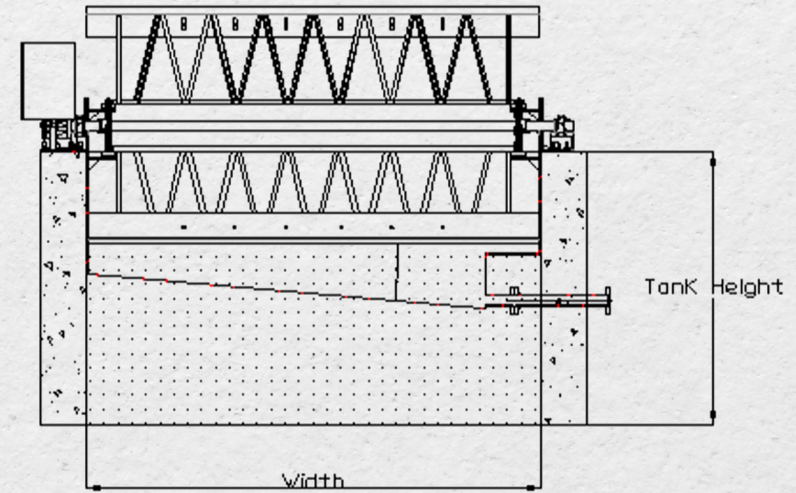
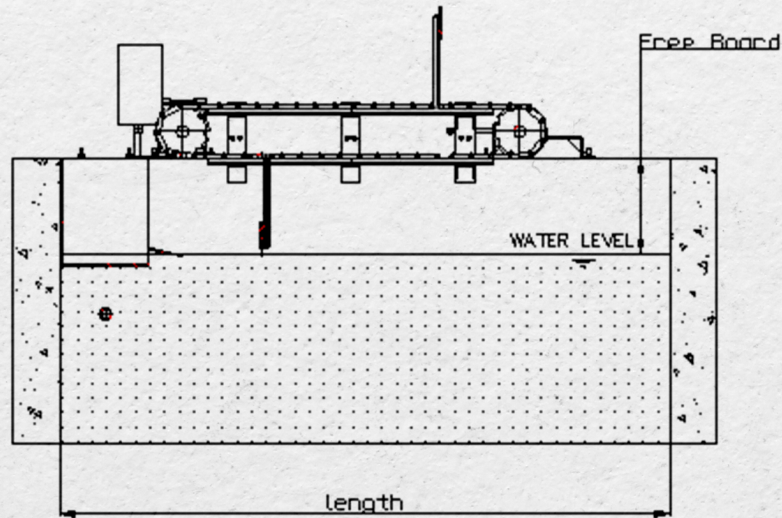
### Effortless tensioning

**Tensioning Assembly**  
The Lead Screw based tensioning assembly requires very less effort in tensioning the chain & allows tensioning in longitudinal as well as transverse direction for proper tensioning.



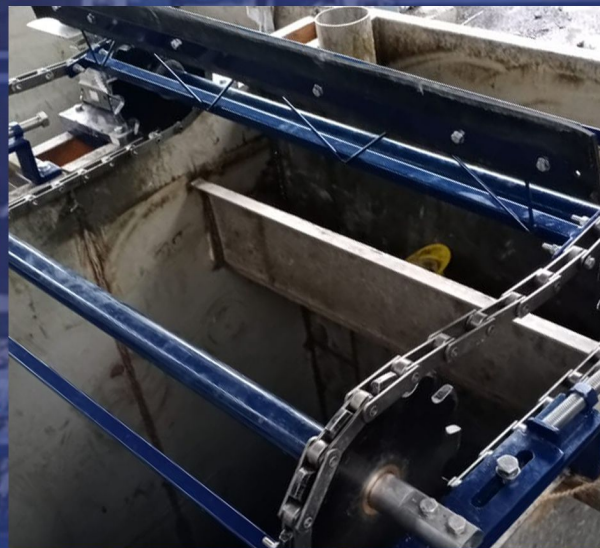
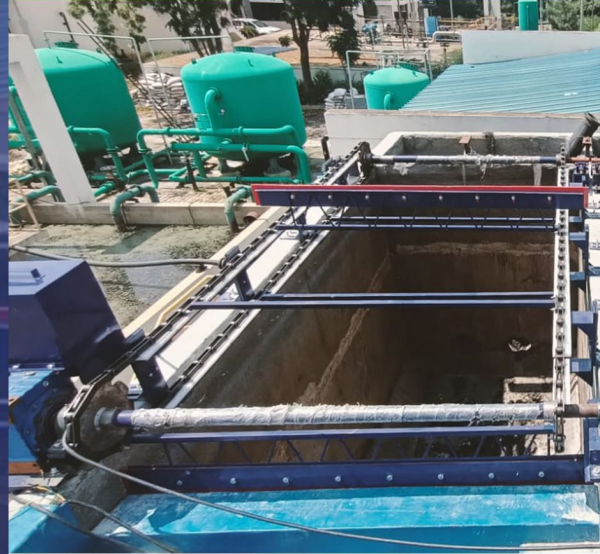


# MODEL SELECTION MATRIX



APPLICATION	MOC	SCRAPING TYPE	SCRAPER MOC	TANK DIMENSIONS	DRIVE MECHANISM	ACCESSORIES
Sewage Treatment	SS316	2 Shaft Top Scraping	Silicon	Length	Motor	Anchor Fasteners
Waste water Treatment	SS304	2 Shaft Bottom Scraping	Neoprene	Width	Gear Box	Pump
Effluent Treatment	DELTRIN	3 Shaft Bottom Scraping	UHMWPE	Height		Trough
Spills, Scum & Sludge	MSEP	4 Shaft Top & Bottom Scraping	Nitrile	Free Board		Pump + Trough
Trash Pollution			Delrin			
Oil Pollution			EPDM			
Chemical Pollution						





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