

SCRAP-VAC

(Sludge Removal Technologies)



The Best Technologies & Service



DongYang Water Technologies

Presentation Agenda

Company Profile

Sludge Removal Technologies



The Best Technologies & Service

DongYang Water Technologies



1 Company Profile

2. Sludge Removal Technologies

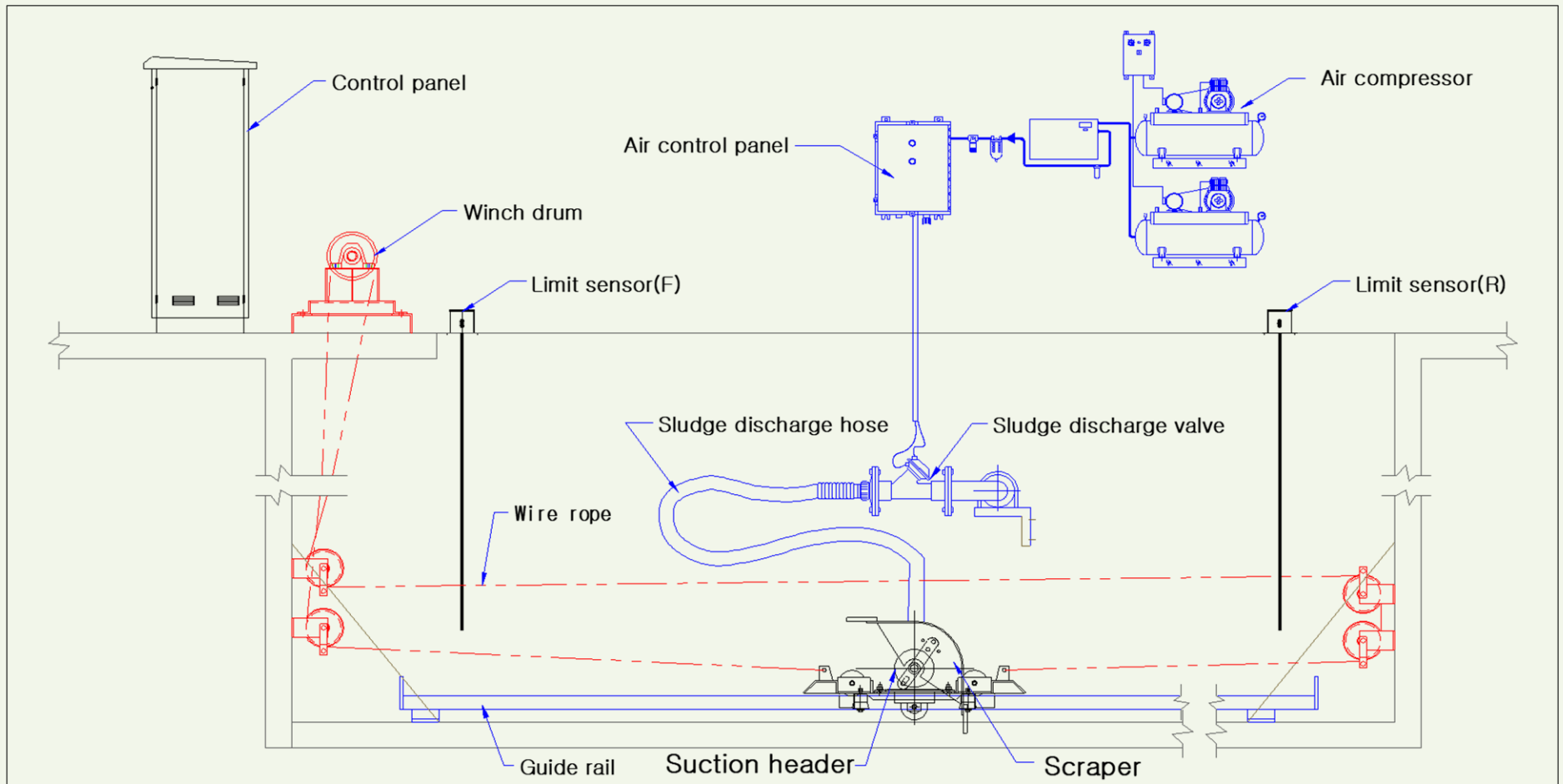
- **Company : Dong Yang Water Technologies Co., Ltd.**
- **Representative : Heung yeon Won**
- **Date of foundation : 1986. 06. 01**
- **Head office, plant : 38, 1315 Beon-gil, Hoguk-ro, Pocheon city, Gyeonggi-do**
- **Technology research institute : 672, Samyang-ro, Gangbuk-gu, Seoul**
- **Product line : Chemical feeding system(dry, wet type), Inclination plate settler
Water treatment system including suction type sludge collection,
removal system, Flocculation, Coagulation system, Etc.**
- **Contact : Tel. 82-2-996-9231 Fax. 82-2-996-9233
e-mail. soho996@chol.com www.dowatech.kr**
- **Corporate authentication : ISO9001, ISO14001, Venture business,
Technology innovation type SMEs(INNO-BIZ) etc.**
- **Product authentication : Performance authentication(SMBA),
Excellent product authentication(PPS)**
- **Major patent : Precipitation complex chemical input system
Upstream inclination plate precipitation system and many others**



Suction Type Sludge Collector(SCRAP-VAC)



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Improvement of Existing sludge collector demerit

- Sludge bridge and rabbit hole phenomenon
- Collector Driven Load phenomenon by sludge jamming
- Aggravation of treated water quality by sludge decomposition and re-suspension phenomenon

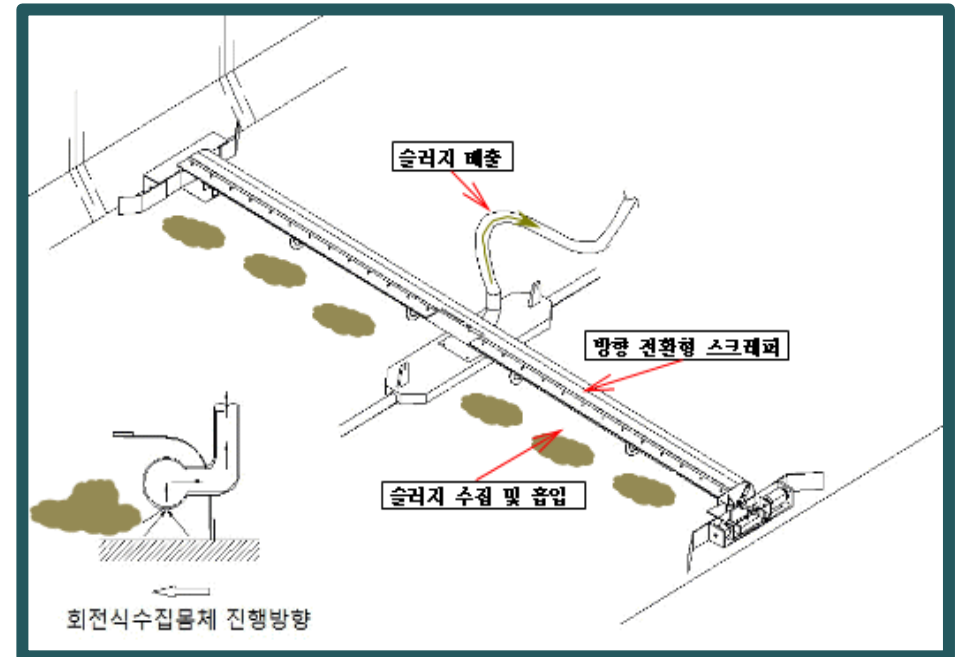
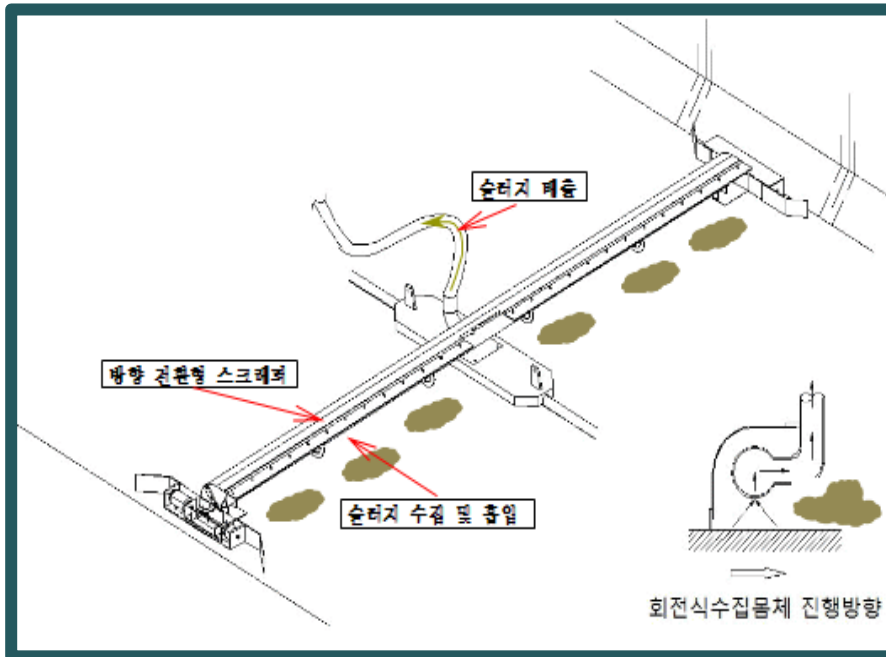


● Existing sludge collector

Suction Type Sludge Collector(SCRAP-VAC)

Scraper for sludge collection

- Scraper application to 90° bending phenomenon
- Change of scraper form depending on movement direction(90° switch)



Suction Type Sludge Collector(SCRAP-VAC)

Sludge discharge facility and method

- Discharge of sludge by using head difference based siphon or self priming pump
- Sludge collector and discharger are built in one system.



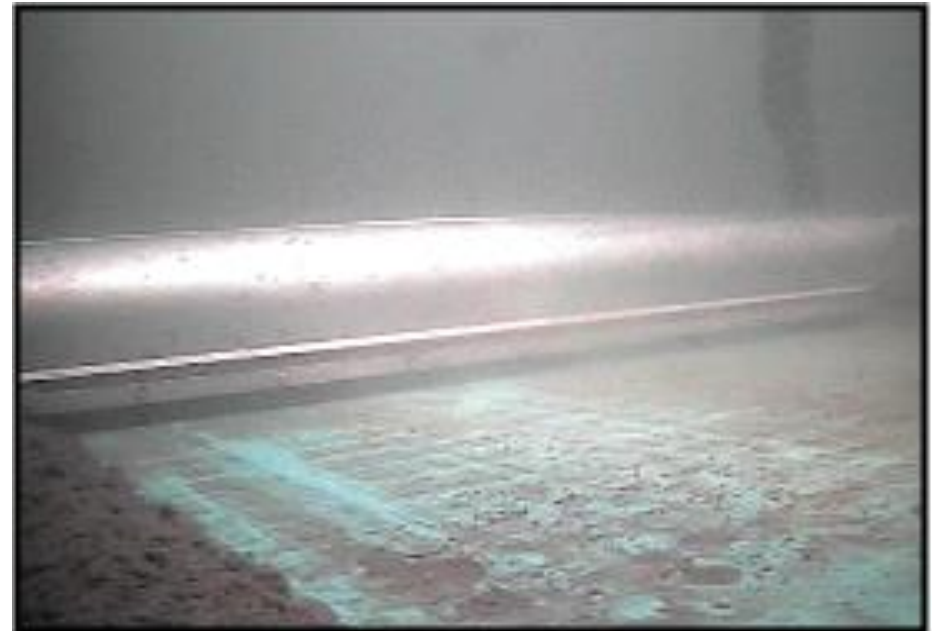
Suction Type Sludge Collector(SCRAP-VAC)

Sludge removal capacity

- Confirmed that sludge collected efficiently based on process operation.
- Confirmed that sludge in front of scraper was discharged efficiently from sludge suction pipe.
- Confirmed that sludge at the back side of scraper was discharged efficiently.



● Before removing sludge



● After removing sludge

MPG

1/2 2 0 1/4 0 1



Suction Type Sludge Collector(SCRAP-VAC)

- **Sludge discharge hopper & drawing v/v not required**
 - **Existing Suction type sludge collector applied by substitute facility**
 - **Realization of facility miniaturization by application of small collection, small discharge method**
 - **Reduction of linked process load by control of effluence quantity**
- ▶ **Reduction of initial project cost**
 - ▶ **Improvement of moisture content and effluence problem**
 - ▶ **Increase of price competitiveness through cost reduction**
 - ▶ **Efficiency increase of concentration process and dehydration process**

**Thank you for
your attention!**

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