

MRI
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A PARKSON BRAND



MRI Ultra-Scraper™ Sludge Collector

Robust Construction and Simple Design

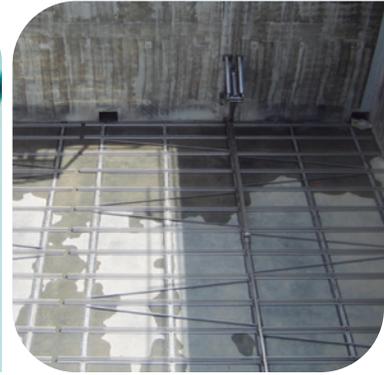
Sludge collection products built on experience.

Meurer Research began developing high-quality equipment in 1978 to provide water and wastewater treatment facilities with effective, reliable and economical methods of removing sludge from sedimentation basins. Over the years, MRI has built upon these standards by incorporating new ideas and technology into the design and manufacture of its products. The result is the MRI Ultra-Scraper™ Sludge Collector.

The MRI Ultra-Scraper has unmatched quality and design.

Equipped with heavy-duty components and reciprocating linear blades, the MRI Ultra-Scraper is more robust than conventional scrapers, with quicker installation times. The high-capacity system has four key components:

- Transport racks with scraper blades are factory pre-assembled without field welding
- Reliable drive unit uses either hydraulic or electric power
- Cross collector optimizes sludge removal
- MRI's signature control system offers easy adaptability



Advantages of the MRI Ultra-Scraper:

- Field assembled with pre-cut and pre-welded components (unlike other brands) that bolt together for ease of installation
- Simple, quick assembly reduces basin downtime and mistakes during installation
- Drive components and controls standard from Rockwell Automation / EuroDrive (other options available)
- Heavy-duty thrust and linkage components
- End-of-stroke sensors inside the cylinder casing permanently set to maintain adjustment

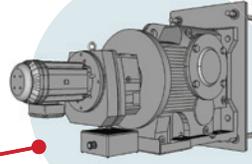
MRI Ultra-Scraper: optional double-acting blades increase effectiveness.

The Ultra-Scraper's unique design houses a series of scraper blades mounted on two racks. Each rack moves in opposition to the other creating a backward and forward action of approximately two feet. The reciprocating design greatly increases solids removal, delivering unsurpassed effectiveness.

High-performance MRI Ultra-Scraper.

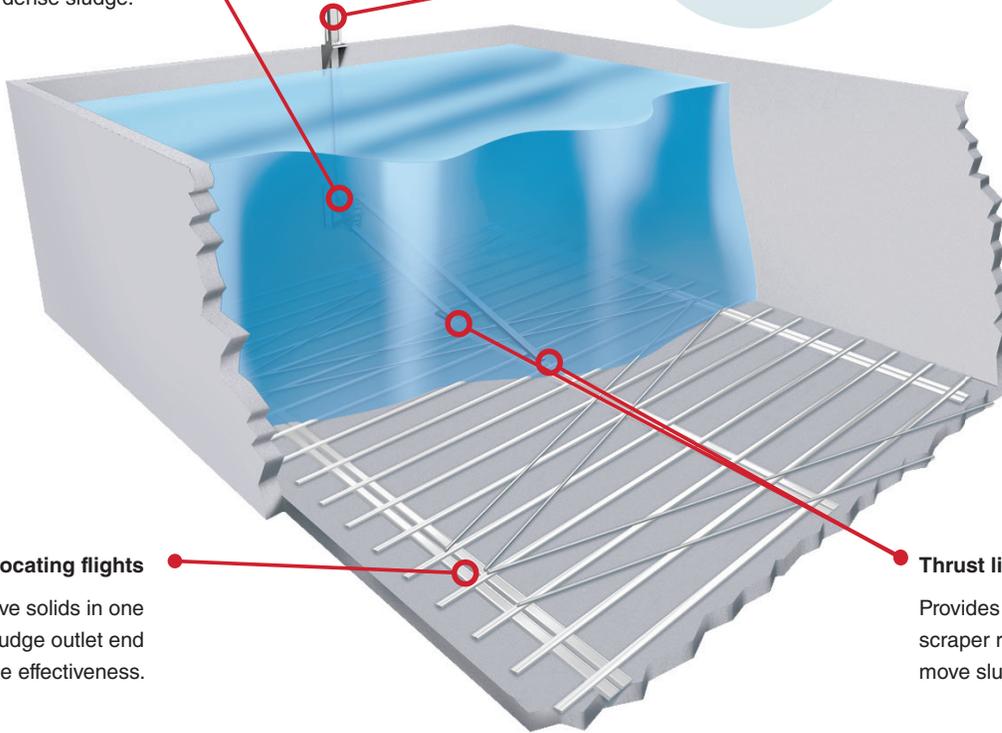
Power pivot

Transmits powerful 20,000 lb. force from drive to scraper racks, enabling removal of dense sludge.*



Electric drive

Ensures reliable power and has automated position sensing technology.*



Reciprocating flights

Scraper blades move solids in one direction toward sludge outlet end and greatly increase effectiveness.

Thrust linkage

Provides force to move scraper rack back and forth to move sludge to the hopper.*

*Patented

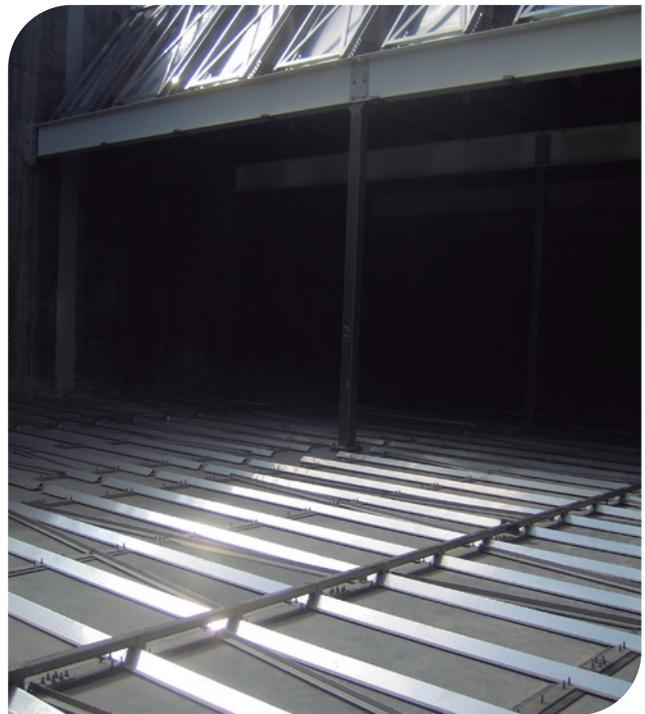
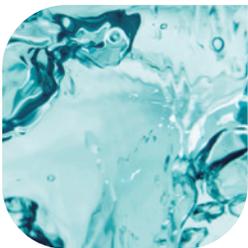


On-site success: no field cutting or welding needed.

Installation of the MRI Ultra-Scraper is quick and simple. Substantially fabricated at the factory, the on-site contractor simply assembles the unit. No measuring, cutting or welding is required.

Efficient and fast action removes the heaviest solids.

Low profile blades scrape only a thin layer of sludge with each cycle, enabling efficient removal of thick, heavy sludge and even grit and anthracite. This also allows a much higher traveling velocity than Chain & Flight and other higher profile devices. Generally, Chain & Flight moves at about 1 fpm, compared to the MRI Ultra-Scraper's 10 fpm or more. The Ultra-Scraper's speed corresponds to a sludge removal rate of 300 gpm in a 25' wide basin. Alternate blade sets hand sludge off to each other as they move back and forth. The sludge moves to a hopper at the end of the basin where it is extracted by sludge blowdown sumps or a cross collector.



Trust MRI for trend-setting innovation.

Experience, reliability, creativity and know-how. These are the qualities that have enabled Meurer Research to lead advancements in water and wastewater treatment solutions since 1978.

Meurer Research is pleased to offer a choice in superior sludge collection products – continuing the innovative and efficient designs in MRI's more than 40-year history of advancements.

MRI has helped utilities, municipalities and engineers find solutions to complex issues through the design, engineering and production, installation, and aftermarket customer service of its technologies. Today, we have over 50 patents and thousands of active installations.



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