



Integrated beneficiation packages geared towards maximizing recovery

Every ore is different. With 100+ years of expertise, we at Metso, know your entire mineral processing needs and are dedicated to making it even more efficient and cost-effective. We are ahead of the curve in offering integrated beneficiation packages tailored to meet demanding needs. With principles built on continuous improvement and holistic customer service, Metso delivers proven solutions to maximize your process recovery.

Delivering a comprehensive value with our beneficiation solutions

Classification

Metso's advanced screening and classification solutions help in achieving optimum size control, improved product quality, enhanced comminution efficiency and increased throughput.

Separation

Metso's reliable beneficiation technology considerably improves the contained value of the ore by removing gangue minerals using flotation, gravity separation, magnetic separation, washing and leaching.

Dewatering

Metso's energy efficient dewatering solutions enable concentrate separation achieving maximum recovery of valuable materials using filtration, thermal drying and slurry handling.

Enabling economic and environmental sustainability

Avoiding wastage of water is the goal we share with you. Metso strongly believes in efficient and sustainable mining practices for plant operations. Our Inclined plate settler minimize the environmental impact on site, while maximizing profitability.



50% smaller plant footprint



Maximized recovery rate



Robust design



Increased uptime



Лахітіzed hroughput



Lower installation costs



environmental impact



20% lower OPEX cost

Saves up to 50% space compared to conventional technology

Inclined plate settlers (IPS)

Compact solutions for improved thickening performance

Metso's inclined plate settler (IPS) is a proven and a compact sedimentation and dewatering solution offering good clarity of the overflow liquid and maximum density of the underflow solids discharge with minimum space requirements. Easy to install, relocate and adapt to process changes, IPS offers maximum return on investment to customers.

Unique IPS Principle to optimize process efficiency

Metso's inclined plate principle uses parallel inclined plates to minimize floor area occupation. The size and cost of the gravity settler can be reduced by matching the thickening & clarifying requirements more closely.

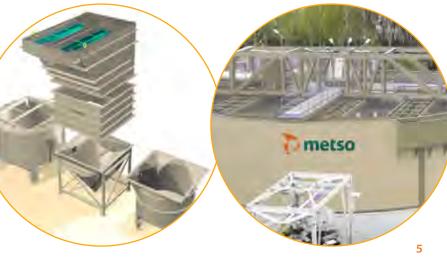
Two basic criteria for gravity settling equipment are good clarity of the overflow liquid and maximum density of the underflow solids discharge. The area needed to clarify a suspension is often greater than that needed for thickening. This means that in a cylindrical thickening tank, the lower section with rakes and drive mechanism can be oversized.

Wide product range for diverse demand

IPS product ranges from LTO, LTK, LTS, LTE, LTC and LTE/C models

Major applications:

- Metallurgical industries
- Metallic minerals
- >> Chemical industry
- >> Coal slurry
- >> Power plants
- >> Contaminated soils
- >>> Potash
- Mine water treatment



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Why choose Metso IPS solution? Building customer confidence Seamless solution to fit your process needs through pilot tests and cost-efficient Metso IPS is what you need when you are looking for flexible, compact, cost-efficient and environment supply chain friendly thickening and clarification solution Simplified in-plant Flexible operations Robust design Lower costs installation • Delivered as one-piece unit or in pre-Simple construction of sheet steel and Easy to relocate Adaptability to process changes sludge hopper and inclined plate pack fabricated sections Smaller foundations Shorter pipework runs Specifically designed feed ports for Small internal volume and surface area High level installation for gravity feed to Square outline for easier planning &

Extensive capabilities, matchless delivery

400+ installations world-wide delivering promising results







Treatment of mine water underground at a large iron-ore mine

Challenge:

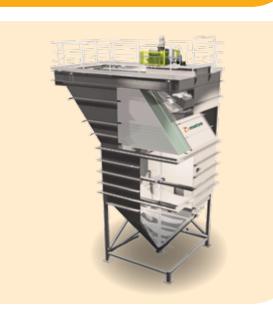
Pumping solid free processed water from underground mine with clean overflow and space issue

Solution:

Installing three units of IPS LTS/E 500 F-8 thickeners at the basement of the mine

Result:

Achieved production of a clean overflow with particles below 20 ppm against the set limit of 100 ppm with Metso's IPS units.



Clean overflow with particles below 20 ppm





Through our knowledge and experience, we work with our customers to create solutions that enable them to attain their objectives. We call this **The Metso Way,** which focuses on creating value to our customers.

The Metso Way

Knowledge -



We have deep knowledge about our custmers' business environment, processes and challenges

People -



Our committed and highly competent people make the difference to our customers

Solutions -



We create the technology and services required to meet our customer needs



