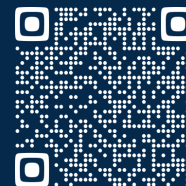


FOR MORE DETAILED INFORMATION,
ASK OUR SALES ENGINEERS
FOR THE TECHNICAL BROCHURE



VACUUM TECHNOLOGY

1 MBAR.L/S LEAKRATE

TIGHT & OPEN HEAD

200 DPH / STATION

MERCO MACHINES^{NV}

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**MERCO
MACHINES^{NV}**
YOUR PARTNER IN DRUM MANUFACTURING

VACUUM LEAK TESTER

VACUUM LEAKTESTER

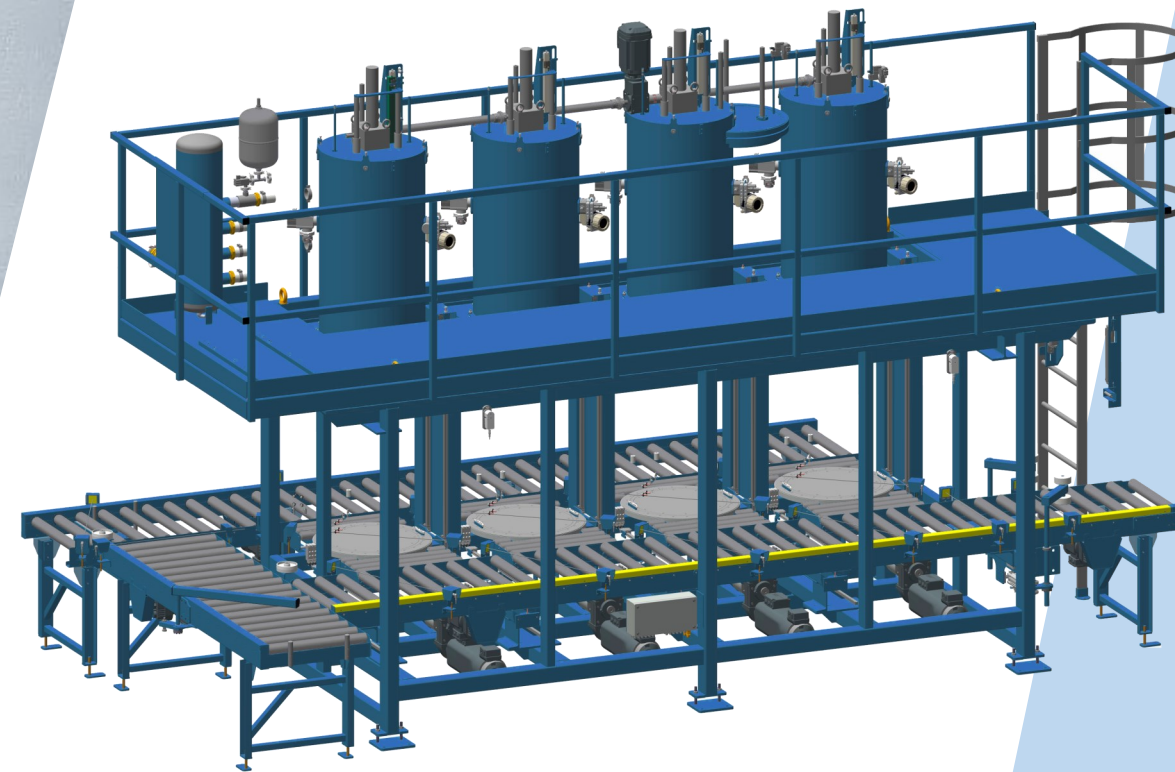
Improve your quality control with our advanced **vacuum leak tester**. This state-of-the-art machine is engineered for precise drum testing of both **tight head as open head steel drums** using vacuum technology.

Our **fully automatic system** seamlessly integrates into your production line, efficiently transporting drums through **single or multiple testing stations**, achieving cycle times of up to **1000 drums per hour**.

Our system operates on **the principle of choked flow**, where at a specific absolute pressure ratio between inlet and outlet pressure, the flow velocity at an orifice reaches sonic velocity, resulting in **a constant mass flow rate**.



BENEFITS OF VACUUM TECHNOLOGY



OPERATIONAL COSTS

Less air displacement and fast, reliable measurements reduce the operational time and capacity of the pump. Combined with the redundancy of inert mediums like Helium, this machine offers **significant cost savings**.

CONTAMINATION

Evacuating the air around the drum in the vacuum chamber, rather than pumping air into the drum, helps prevent contamination inside the drum.

AIR DISPLACEMENT

Minimizing the volume around the drum in the vacuum chamber, results in **less air displacement** and therefore shorter operational time for the pump and faster stabilization before measuring.

TEMPERATURE

The reduced air flow combined with **vacuum instead of positive pressure**, results in less kinetic energy of the particles and makes the system less susceptible to temperature influences.

FAST AND RELIABLE

As a result of the vacuum technology based on the **choked flow principle**, our system achieves rapid and reliable measurements. This enhances repeatability, sensitivity, and processing speed without the need for a reference drum or (re)calibration.

FLEXIBILITY

By **sealing the tight head drum on the bung holes**, this machine can process drums without requiring additional caps or screwed bungs. This gives the customer flexibility to integrate the leak tester on different locations within their factory layout.