idef™
CLEANING SYSTEMS

Would you like to **clean** more **Milk Cans** fully **automatically?**

www.idefcleaningsystems.com

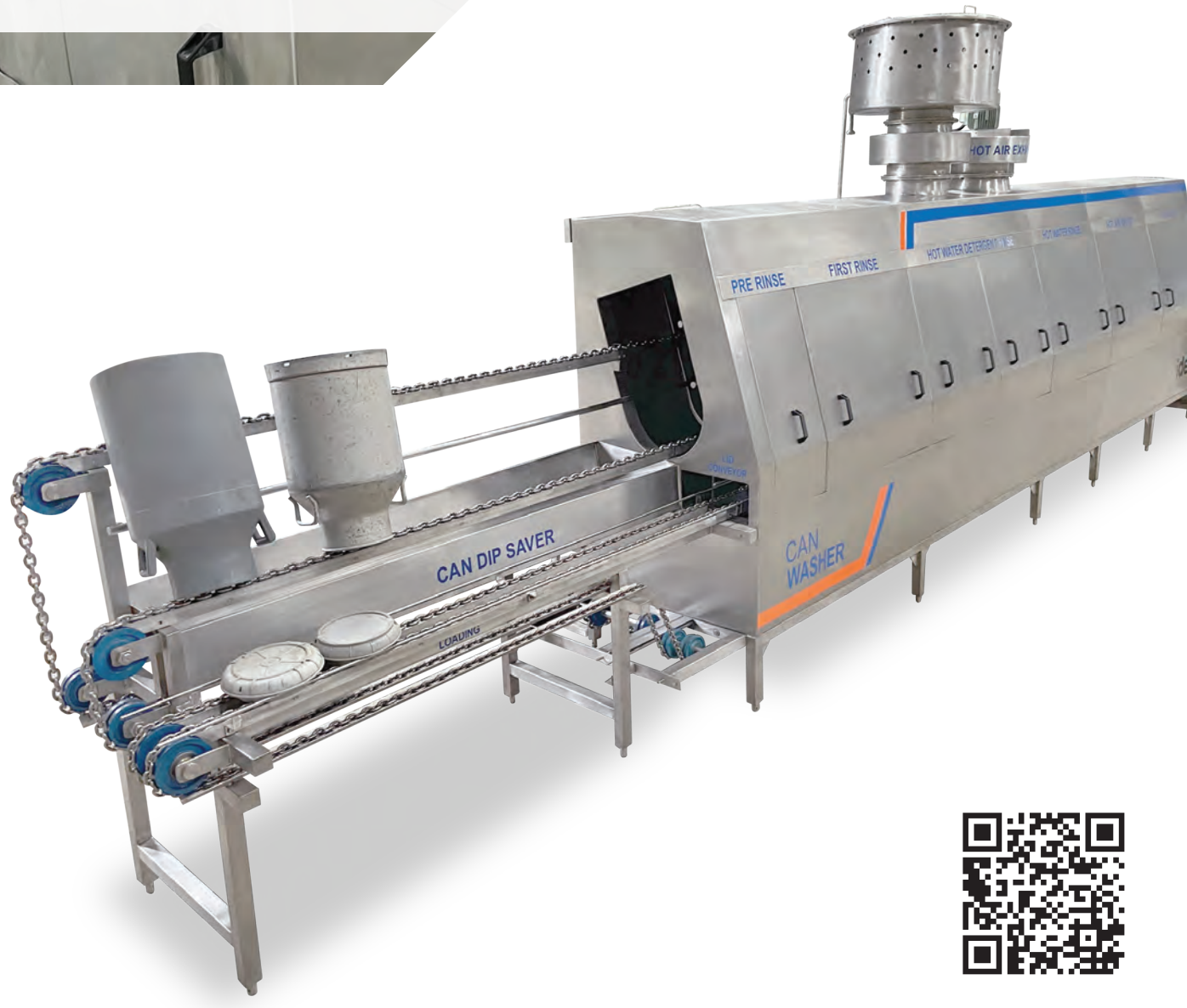
For many companies, the ability to provide a cleaning solution for their specific needs is the main reason for choosing IDEF.

IDEF Milk Can Cleaning Systems is an expert in hygiene and operates in the Dairy sector. These advantages ensure that our Milk Can Washers are sustainable, environmentally friendly, and cost-saving machines.

Milk Cans move forward from the entry door in an inverted position to the rinsing section, where hot water is sprayed from the bottom and other sides removing loose soils and some part of dirt.

The Milk Can need to be cleaned to remove traces of milk, dirt, foreign objects, and other contaminants.

IDEF Can Washing Systems is an efficient and effective way of cleaning Milk Cans returning from Chilling Centers, Fields, Farms & Milk Processing Plants. The cleaning operation can be accomplished in semi-automatically or automatically in the machine.



Washing Sequence

PRE-RINSE Normal water from the sump tank is sprayed on the Trays/Crates and goes down the drain.

FIRST RINSE The First Rinse is a very important step in the Tray/Crate Cleaning process, pre-rinse makes the rest of the wash cycle predictable and repeatable.

DETERGENT RINSE The heated detergent solution from the alkaline or acid sump is pumped through the spray header, over and under the load, then falls back into the alkaline or tank sump to be recirculated.

HOT WATER RINSE Hot water from the supply is fed through an instantaneous heat exchanger, through the final rinse spray header, and falls into the rinse tank.

AIR DRYER Hot air recirculates through the drying section. An air knife blow-off system removes surplus water from the crates.

CAN TILTING After Washing & Drying, a Milk Can Tilting Mechanism inverts the cans to a straight position before reaching the exit door.

Washing Procedure

Raw milk is brought to the chilling center or processing plants in cans. In a milk collection / chilling center of capacity 2KLPD ~ 5KLPD, the number of Milk cans handled. Therefore IDEF Milk Can Washer will be required.

The cans enter the washer in an inverted position and cleaning is done by jet nozzles at the various section of the washer. The washer has provision for washing Can Lids. Water is sprayed through jets into cans to remove traces of milk.

Milk Cans move forward from the entry door in an inverted position to the rinsing section, where hot water is sprayed from the bottom and other sides removing loose soils and some part of dirt.

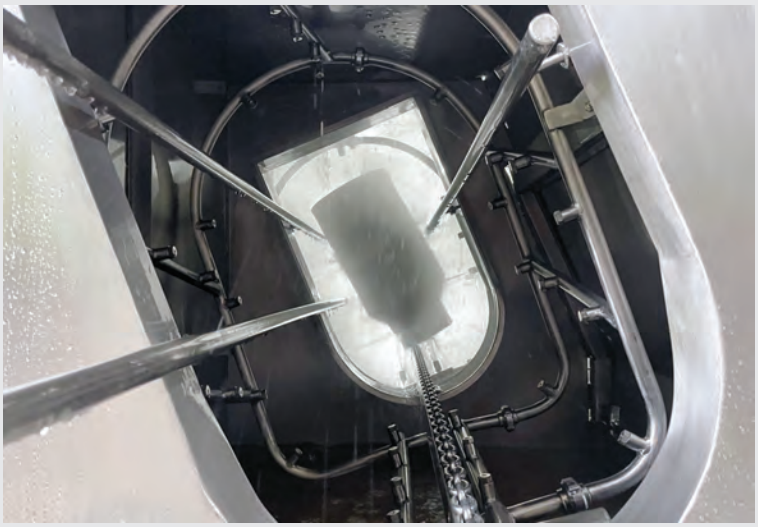
Finally, the Milk Cans are dried in the airdrying section. At the end of the washer, a mechanical tilting system inverts the cans to a straight position. Before reaching the exit door, inverted cans are brought to the normal position with the mouth upside.

High Pressure Water Nozzle System

The 360^0 nozzle system can produce a uniformly distributed spray under a wide range of flow rates and pressures. Designed with built-in strainer to minimize clogging.

If the nozzle is blocked with sand or other debris, you can remove the nozzle and it can be clean.

Nozzle units are configured based on milk can size, residue and level of cleaning required



High Pressure Pumps

The high-pressure pump is used in various applications across multiple domains for cleaning purposes.

High-Pressure Pumps are commonly used for water transfer from sump tanks to the coils inside the tray washer. As they give a continuous water supply.

The pump is easy to install and use, and it is a cost-effective product that can save you money in the long run.

Can Tilting Mechanism

At the end of the washer, a mechanical tilting system inverts the cans to a straight position. Before reaching the exit door, inverted cans are brought to the normal position with the mouth upside.

This machine is an innovative development in Can Washing

Can Lid Conveyor

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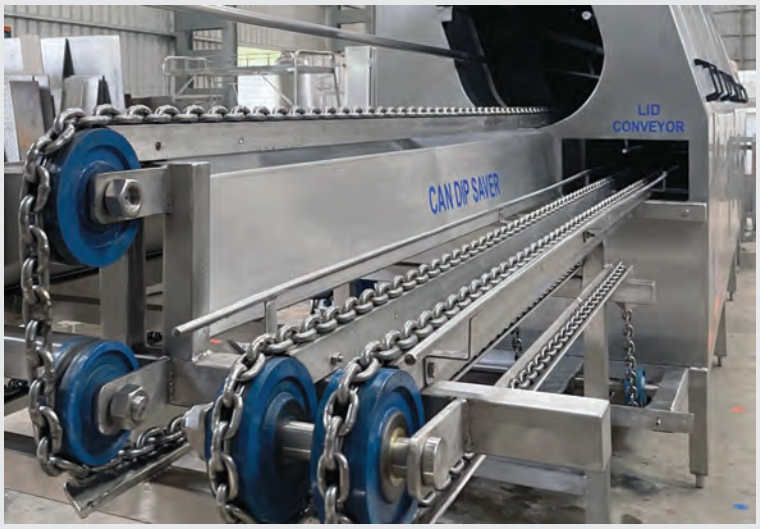

Steam Condensing System

A steam Condenser is equipment that converts the low-pressure exhaust steam from the turbine into water. It is connected to the air exhaust blower.

The steam condenser receives the exhaust steam from one end and comes in contact with the water circulated within it.

This machine is an innovative development in Can Washing

Electrical Control Panel

There is an enclosure with one or two doors, depending on its size, made of stainless steel. Where all the power comes in the control panel, and you can control the tray/crate washing machine from here.

We offer services right from designing, manufacturing, installing, testing, and commissioning Electrical Control Panels.

Would you like to see more of our projects and get additional information?

Contact:

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