

INNOVATION

SPOTLIGHT from the brands of Altra Industrial Motion Corp.



ADVANCED CAPPING HEADSET TECHNOLOGY FROM WARNER ELECTRIC IMPROVES PRODUCTIVITY ON BOTTLING LINES WORLDWIDE

One of the key requirements in the filling and capping process for bottling facilities is ensuring that caps are tight on the bottle, but not so tight that they become difficult to remove.

For decades, Warner Electric has provided leadership in headset smooth torque technology to meet these requirements. But, there's more to it than that. In addition to ensuring a complete, yet accessible seal, headsets must also facilitate sanitation and line changeover efforts, even in high-velocity, high-value bottling processes.

With speeds of up to 10,000 bottles/hour on larger production lines, any downtime can be costly. Many bottling lines are often converted to accommodate different products such as salad dressings and meat sauces or other condiments throughout the course of a week or month. With up to 30 headsets on a typical bottling machine, saving just a few minutes per headset to adjust torque during product changeover can mean thousands of additional units throughput.

TOTAL PRODUCTIVE MAINTENANCE IS THE GOAL

Headsets are not a low value item, so long life durability and reduced maintenance costs can be critical to ensuring strong ROI. The innovative TPM headset (patent pending) from Warner Electric is the most recent step forward in the evolution of capping technology used for carbonated soft drinks, bottled water, milk, juice, ketchup, salad dressing, shampoo, motor oil and more. Developed with the goal of reducing downtime for customers, the new headset design is focused on Total Productive Maintenance (TPM).



I N N O V A T I O N

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DESIGNED TO AVOID BREAKDOWNS AND REDUCE PRODUCTION DELAYS

The TPM headset includes multiple features that enhance performance and life, allowing customers to “set it and forget it”.

A non-metallic sliding joint for top load movement eliminates the need for grease that exists in older headset designs. It also reduces a potential area where bacteria could form. This feature, combined with a more aseptic smooth body design, significantly improves overall system sanitation. Units are built to withstand harsh environments, including caustic washdowns.

Use of a double-row angular contact bearing plus stainless steel construction, viton seals and high-temp food grade grease ensures extended bearing life. Lifetime sealed magnets never need to be replaced, eliminating a cost of rebuild.

TPM headsets are only 3" in diameter. The smaller size reduces weight and inertia.

EXCLUSIVE SMOOTH TORQUE TECHNOLOGY

Warner Electric TPM magnetic headsets feature constant smooth torque technology, differing from most competitor OEM headsets that have two opposing magnets causing pulsating torque. The pounding effect of a pulsating clutch increases cap tightness and torque variability during the capping process.

Warner's constant torque technology eliminates torque pulsations that cause cap over-tightening and provides less shock wear on machine components.

The technology utilizes a torque lock feature that locks out torque to a specific range or value ensuring consistent cap removal torque. In addition, a fixed top load ring is incorporated to lock top load force to a specific value, reducing force variability.



Push button torque change feature allows for quick product changeovers and increased productivity.

To reduce the time for operators to complete torque adjustments during product changeovers, the innovative design allows quick adjustment with push button convenience.

Taken as a whole, the innovative features of Warner Electric TPM headsets provide very high value in capping operations. Important functions remain paramount: consistency of smooth torque application and ease of sanitation are the top priorities in unit design and construction. Ease and speed of adjustment reduces cost of use. Lastly, design for durability and reduced rebuild costs help ensure that customers get the best possible value for their bottling operations.

* Source: MordorIntelligence.com