

# WEDOLiT™ FW 9200 Replaces Lubricants, Coolants & Corrosion Protectants in 18-Step Ammunition Manufacturing Process



The customer has produced ammunition from their site in Germany for over 60 years. Recognised as a leader in the European defence industry, the company currently offers three primary product lines designed to meet the needs of police departments and military personnel.

## THE CHALLENGE

To manufacture ammunition, the customer follows an 18-step process that draws brass cartridges using a variety of Fritz Werner machines. The equipment ranges in age, from brand-new models to others that are approximately 30 years old. Therefore, the number of steps in the production process and the differing needs of the machinery require numerous fluids that are specific for forming, lubrication and cooling operations. Utilising multiple fluids across the production line increases material costs and the amount of time for each phase of production.

Although speciality fluids were used when manufacturing, the brass workpieces often could not withstand the drawing process or caused stains to appear on the metal after tempering.

## THE SOLUTION

The customer switched to WEDOLiT FW 9200, a versatile, ester-based, water-miscible forming lubricant that can be universally applied throughout forming and drawing processes of brass and non-ferrous metals. FW 9200 can be applied at higher or lower concentrations, adapting to the severity of the forming process at hand.

## THE RESULTS

FW 9200 features advanced wetting ability and stable load carrying capacity, allowing the customer to use one fluid across the entire 18-step production process. The superior forming lubricant better protected the brass workpieces during production and also eliminated staining after tempering.

Cutting the number of fluids needed for manufacturing to only one, significantly reduced both material costs and production times, as workers no longer needed to remove and apply multiple products.

The success of FW 9200 inspired the customer to try WEDOLiT CS 8376 on their other operations, with more trials to come.

## THE NUMBERS

- The versatility of WEDOLiT FW 9200 allowed the customer to replace a full-range of specialised fluids from multiple manufacturers with one single solution
- FW 9200 outperformed every specialty fluid previously used and eliminated workpiece staining