

Fact Sheet

SAND SPREADERS FOR OPERATION JOINT ENDEAVOR

PROBLEM

The DCSENGR, Headquarters, V Corps, Europe, requested that CRREL review sand spreading capabilities to determine the most efficient and effective way to spread sand, salt, or a sand/salt combination. DCSENGR also requested that we recommend the most favorable types and brand of spreading equipment to use.

SOLUTION

CRREL reviewed its prior work in the area of sand spreaders, completed a survey of the industry, and completed a survey of users. There were numerous factors to consider, including types such as dump body, tailgate, or small truck. There are hydraulic-operated, self-operated, or auxiliary-engine-operated spreaders. They come in a variety of sizes and can be corrosion-resistant, painted, stainless steel, or Teflon-coated. There are numerous manufacturers, with the top-rated being narrowed to three.

There are many advantages and disadvantages to the truck body versus the trailer type. The truck body requires a dedicated truck or some easy way to remove the spreader and reinstall it every time it is used. The trailer type can be self-contained with auxiliary engine; the drag type has power provided by the turning wheels.

The lower-cost unit is the completely self-contained wheel-powered trailer spreader. However, its load size is quite small unless refill via dump truck is readily available. The self-contained trailer spreader with auxiliary engine offers the greatest versatility, while the truck-mounted spreader offers the greatest capacity.

RESULTS

Thirty-four Henderson Chief, truck-mountable spreaders with auxiliary engines for use on the 5-ton cargo and 5-ton dump truck, manufactured by Henderson Manufacturing Company of Manchester, Iowa, were contracted by V Corps and shipped to Tuzla, Bosnia, for spreader operations. CRREL also provided "Sand Spreader Operational Guidelines," which were coordinated with the USAES, the TWVRMO, TACOM, and the manufacturer. These guidelines were provided to the chain of command and to all using units.

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