

## CASE STUDY

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# Water (and Media) Under the Bridge

*All was not wine and cheese at a bridge blasting site on the Seine River in France until the contractor purchased a modified Munkebo Vacuum and Recycling System. The Munkebo equipment solved space limitations and setup difficulties under the bridge.*

### PROBLEM

In 2018, a Munkebo customer of 15 years needed to recover and recycle spent steel grit while blasting the concrete and steel structures of a 900-foot bridge. The contractor had a niche business in surface treating small-to-medium-sized bridges. However, the work area on the riverbank beneath this bridge was especially difficult to reach. Furthermore, the work area was too small to fit most portable vacuum and recycling systems, in addition to power and air generators. As a final concern, the riverbank was unstable—too much weight concentrated in one area could cause it to collapse.

### SOLUTION

The contractor purchased an MB-2000 Vacuum System, which is a medium-sized vacuum system that comes with an integrated cartridge filter. The contractor also purchased an additional cyclone separator and a 25-ton storage hopper with a custom-engineered air-wash system installed above the hopper. This vacuum and recycling system met the contractor's needs for the following reasons:

- Space under the bridge was insufficient for a stand-alone recycling system, so Munkebo installed the air-wash system above the storage hopper. The air-wash system removed fines and dust from the spent steel grit before the grit entered the storage hopper.

- After the hopper was filled with the recycled steel grit, it could simultaneously refill up to four blast machines.
- Because of Munkebo equipment's modular design, the contractor could configure the system's components into the space restrictions of the work area while also distributing the weight of the equipment so that the riverbank remained stable.
- Even with the space savings and balanced weight distribution achieved by the equipment's configuration, only enough space was safely available for lightweight power and air generators.
- Because Munkebo Vacuum and Recycling Systems are electric-powered, it takes less energy to run them than comparable diesel-powered equipment. This advantage allowed the contractor to use smaller generators that did not create instability on the riverbank.
- Likewise, because Munkebo equipment is electric powered, lighter Munkebo equipment with smaller footprints often can accomplish the same jobs that would require larger and heavier diesel-powered equipment.
- The smaller footprint of the Munkebo equipment also enabled the vacuum and recycling system purchased for the job to easily fit on a standard-sized truck. No special rigging or tie-downs were needed to secure it, and light cranes easily removed and reloaded the equipment from the truck to the work area.

### OUTCOME

The successful results at this job helped the customer grow its niche even further in small-to-medium-sized bridge surface treatment, and it has since purchased more Munkebo equipment.

### ABOUT MUNKEBO

Munkebo is a brand of abrasive vacuum and recovery systems. The company is based in Munkebo, Denmark. It was founded in 1963 and acquired by Clemco in 2008.

Munkebo also manufactures mechanical recovery systems, abrasive cleaning systems, ventilation systems, and other equipment for the abrasive blasting and painting industries. ●



Left to right: Power and air generators, 25-ton storage hopper with a custom-engineered air-wash system installed above it, cyclone separator, MB-2000 Vacuum Unit.