

# METAL STAMPING FACILITY ULTRAVAPOR DEMONSTRATION RESULTS

November 30, 2006

## Equipment demonstrated:

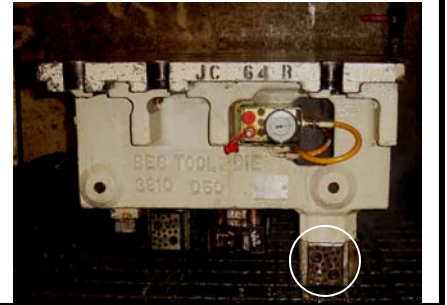
18 KW Special 2 UltraVapor tool, 78 cm long lance, 35 cm squeegee, 40 cm brush holder with nylon and steel brushes.

## CLEANING DIES

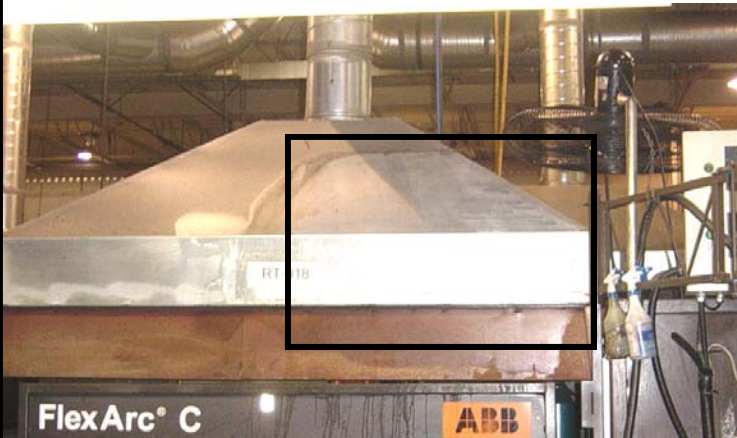


Top pictures show deep cleaning capability using brush tool. Bottom picture shows result of lance only.

Cleaning dies can be done safely with minimal water/chemical use and without the mess associated with pressure washing. Savings generated from reduced water treatment costs. **Estimate 75% reduction in haulage and treatment costs for water.**



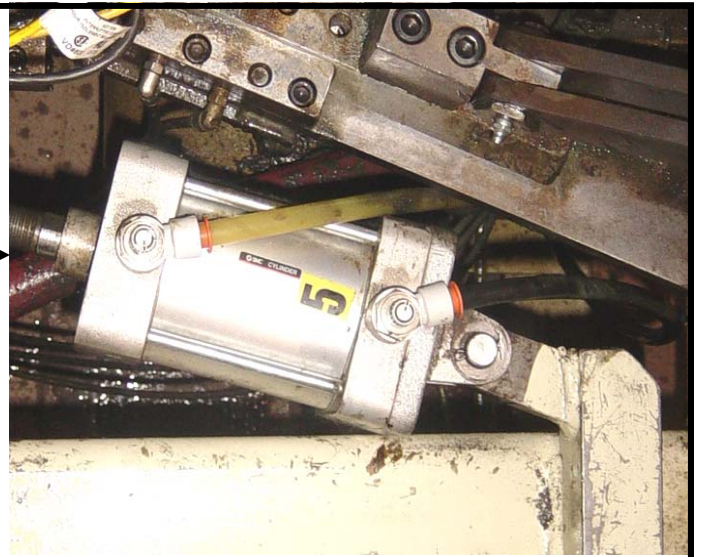
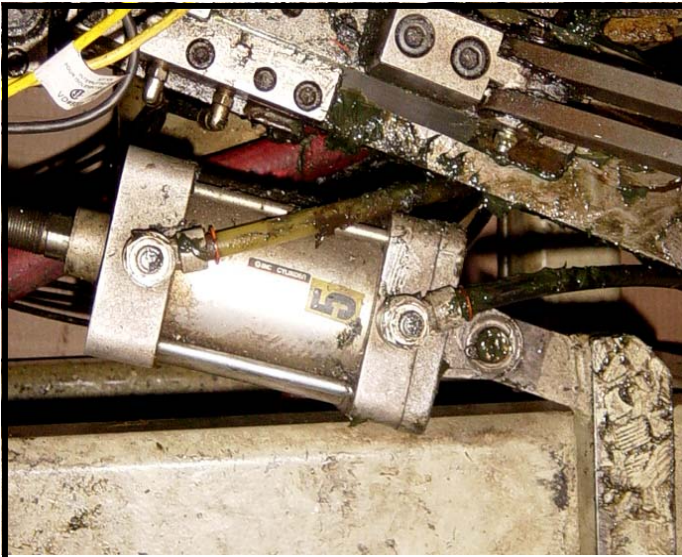
## CLEANING FLAT SURFACES WITH SQUEEGEE TOOL



Oil and dust quickly removed from robot cell hood.



Oil and dirt wiped off side of press leaving surface dry and clean



Bending tool was cleaned using vapor only setting which is safe around electronics and sensitive components. A piece of cardboard (below) was placed under the tool to capture soils. Note the absence of much moisture.



Walls, metalwork, floors and much more easily cleaned with minimal water and chemical usage

