

Gun Barrel and Component Washer

Customer's Industry and Application Details:

A large manufacturer of guns was having difficulty cleaning frames, barrels and revolver drums after a buffing process.

As the components come from the buffing process, they are literally covered in buffing compound and it was a challenge to remove.

The customer was using a multi step manual system and it was very labor intensive.

They had cost justification to move to an automated cleaning process, however they had to be insured that the parts would exit the system perfectly clean and ready for assembly.

Of special difficulty were the internal bores of the gun barrels.

The JRI Solution:

JRI conducted testing to determine the cleaning parameters for the customers needs. In order to remove the buffing compound, it was determined that higher than normal pressure and temperature was needed. In addition, the system would need to use part specific fixturing and nozzle alignment.

JRI designed and built a custom PCS-4255 SS2 for this application. The machine included an upgrade to a 15HP Stainless Steel High temp Pump and upgraded heat to 90KW to maintain 180 degrees during operation. The customer also had a machinery sound specification, so we enclosed the back of the machine for sound level reduction.

In order to dry the parts, we included a 15HP regen blow-off with one air knife above and one below the turntable. To control the system, an upgraded Allen Bradley Micrologix 1500 PLC with panel view was used.

In addition to the custom manifold, a JRI oscillating manifold on one of the wash vertical manifolds was used for the longer gun barrel parts.



Focused Precision Cleaning

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