



## Automatic Aircraft Tube Cleaning System

MODEL # TF-30 x 30 x 180-S-500-3-BO

**PROGECO** Exclusive Features:

- Environmentally friendly - no solvents. Bio-degradable commercial detergents only.
- Re-circulating principle - water-based cleaning solutions conserve energy, detergent and water.
- Power spray principle - produces high-quality and high-speed cleaning.
- Low chemical cost - 3 to 5% detergent in water.
- Low energy cost - spray cabinet and tanks fully insulated, programmable heating systems.
- No health hazard to workers.



**PROGECO**<sup>®</sup>  
Integrated Cleaning Solutions

# Automatic Aircraft Tube Cleaning System

## Scope

Workpiece.....	New stainless-steel, aluminum and titanium aircraft tubes used in pneumatic, hydraulic, fuel and oxygen systems
Application .....	Cleaning after cutting and forming, and prior to inspection
Production .....	Up to ten parts per hour
Cleanliness .....	Visually free of coolants and forming lubricants

## Features

## Benefits

SS 304L construction of wetted parts.....	To allow use of de-ionized water as required by the process specifications
Siemens S7-200 Programmable logic controller with touchscreen .....	Up to ten cleaning sequences can be pre-programmed into the PLC
Three flushing stations. Typical cycle time: 15 minutes .....	More efficient and faster production than immersion systems, with reduced energy costs due to smaller tank volumes
Flushing station plugs hold and flush tubes ranging from ¼ " up to 3" in diameter .....	Machine is part of a JIT environment. Tubes are made to meet spare parts demands, thus optimizing production and significantly reducing inventory
Full-cone spray nozzles, mounted above the tubes.....	Improved OD cleaning results

## Technical Data

Work space width.....	30" / 750mm
Work space height .....	30" / 750mm
Work space length .....	180" / 4,500mm
Load capacity .....	500 lbs / 250 Kg
Wash tank volume .....	350 USgal / 1,300 liters
Rinse tank volume .....	350 USgal / 1,300 liters
Detergent concentration .....	Brulin 1990GD @ 5% in water
Tank change-over .....	Every 2 – 3 months
Connected power.....	460V - 3PH - 60Hz - 15A / 380V - 3PH - 50Hz - 20A (steam heating)
Floor space requirement .....	10' W × 20' L / 3,0 m W × 6,0 m L