



## R&F and RAD Remanufacturing Process

Huestis remanufactured R&F systems go through a thorough four phase process. This ensures like new appearance and functionality at a 40-60% savings off new. Each system comes with 80% new parts including new high frequency CPI generator.

New Digital Acquisition devices are also available, as well as new x-ray tubes and Image Intensifiers. Our goal is to provide Imaging Excellence at a fraction of the cost!

### Process 1:

- Complete disassembly of the major components.
- Table stripped to the basic shell.
- Spot film stripped to the basic shell.
- Overhead Tube Crane stripped down to its component telescopic parts and the bearings and bearing guides removed.
- Radiographic and fluoroscopic collimators disassembled.
- Overhead Bridge for Tube Crane taken apart and bearing tracks replaced.
- Longitudinal Rails cleaned and new bearing tracks installed.
- Chest receptor taken apart and frames sent for painting.
- This overall process includes removal of every motor, bearing, rail, low voltage cable, high voltage cable, wire rope counter weight cable, to every nut and bolt.

### Process 2:

- All metal components (table shell, and other component shells) are sent to the prep and paint area for sanding, painting and any machining or welding.
- A three-part paint process is then performed, which includes OEM-type paint and finish.

### Process 3:

- All painted components are returned to a staging bay where the reassembly process begins.
- Every piece of hardware is replaced.
- Every flex cable is replaced.
- Safety cables are replaced.
- Safety FMI's are installed.

- Every low voltage cable is replaced.
- Non load-bearing bearings are cleaned and inspected, and replaced as needed.
- Load-bearing bearings are tested and replaced as needed.
- Motors are tested for operational criteria and replaced as needed.
- Spot film motors are tested and replaced as necessary.
- Potentiometers are tested and replaced as necessary.
- Spot film is re-strung with new cabling.
- Collimators are completely rebuilt and restrung for OEM specification operability.
- Detents are installed and tested.

### Process 4:

- After the mechanical rebuilding and parts replacement is completed, the system is fully assembled.
- It is at this time that the RF system is set up and run just as it is in the hospital or clinic it will be shipped to.
- Digital Spot Platforms are installed per order.
- During this phase of the remanufacturing process, Huestis will take hundreds of exposures calibrating the many different areas of an RF system and welcome the dealer and end user to visit.
- Fluoroscopic function.
- Digital acquisition devices installed and calibrated.
- Radiographic exposures, kVp and mA stations are tested for compliance to OEM specifications.

- Light to x-ray on the collimators.
- Radiation leakage on the collimators.
- Table top movement.
- Electric locks and detents are tested and replaced as necessary.
- Calibration includes but not limited to:
  - kVp testing to OEM specs
  - mA testing to OEM specs
- Filtration checks in the collimators.
- Image sizing.
- Image focus.
- Linearity.
- Auto brightness tracking.

System pre-staging is so complete that it meets the rigorous pre-patient use acceptance testing of our in-house and hospital medical physicist.

The Huestis process assures all systems have the same high quality results. Dealers and end users always say, "It looks brand new!"

