

CASE STUDY | HRT & HRN

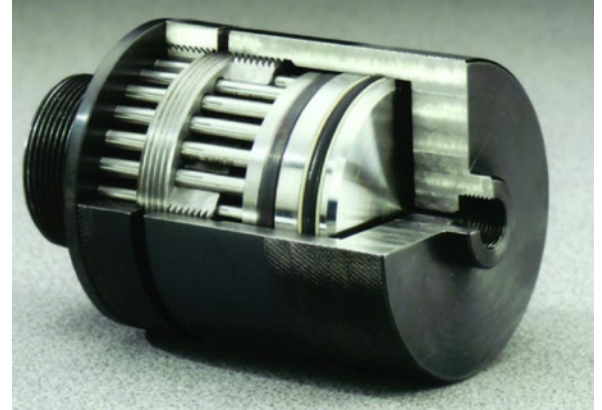
Oil Refinery:
Desulfurizing Catalyst Vessel Cover Assembly

PROVIDING

- Improved turnaround time
- Minimized equipment damage
 - Improved safety
 - Uniform preload

APPLICATIONS

- High temperature service
- Tight radial restrictions
- Corrosive environments



HYDRAULIC ROD TENSIONER (HRT) AND HYDRAULIC ROD NUT (HRN) - EXPLODED AND ASSEMBLED VIEWS

PROBLEM

1. Removal of galled studs using a cutting torch damaged cover
2. Long turnaround time using conventional torquing method
3. Replacement hardware costs
4. Non-uniform preloads

SOLUTION

1. Stud galling eliminated
2. (24) hour turnaround reduced to (6) hours
3. Hardware is re-useable
4. Simultaneous tensioning provides uniform loading

