

**YOUR SINGLE
SOURCE PROVIDER
OF HEAT EXCHANGER
SERVICES,
FIELD MACHINING
AND HYDRAULIC BOLTING.**

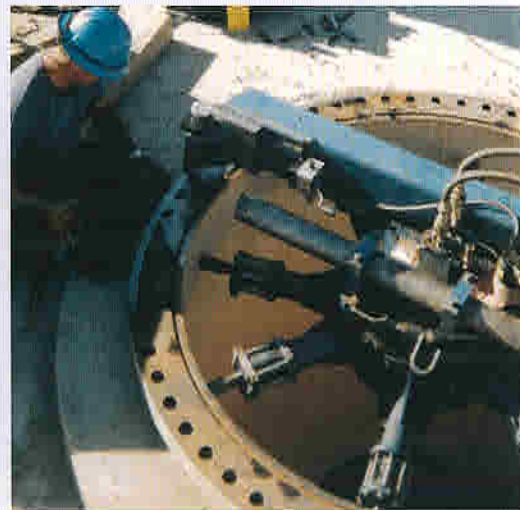


**PRECISION
TECHNICAL
SERVICES**

TENSIONING AND TORQUING



FIELD MACHINING



A SERVICE PROVIDED BY KOCH SPECIALTY PLANT SERVICES, INC.

PTS IS YOUR FULL SERVICE ON-SITE HEAT EXCHANGER SPECIALIST



An intelligent piece of engineering, the Hydraulic Tube-Bundle Extractor was designed to deal with tube heat-exchanger units. This device has proven to be safer, faster and to consume less manpower than conventional rigging methods.

Hydraulic bundle extracting is another technical service that has become an industry standard. This standard is offered by PTS as a stand alone service or it can be combined with our other specialties to provide a complete turnkey solution. By combining hydraulic bolting, field machining and hydraulic extraction into a single source, you eliminate the usual multiple crew service that is common to heat exchanger work today. PTS' commitment to this type of execution provides our customers with a higher quality and safer alternative to their heat exchanger work, not to mention the obvious

environmental and bottom line savings realized by our approach of "more with less". PTS' hydraulic extractor service uses tube bundle extractors with the pulling capabilities of up to twenty-eight feet in length by eighty-four inch diameter and up to ninety thousand pounds in weight. They exert a pulling force of fifty-six tons on a single hydraulic ram that is able to free most bundles in as little as thirty minutes. Transportation of bundles to and from the cleaning area is also made easier by the use of a PTS bundle trailer. PTS' full exchanger service is ready when you are, to help solve all your heat exchanger needs.



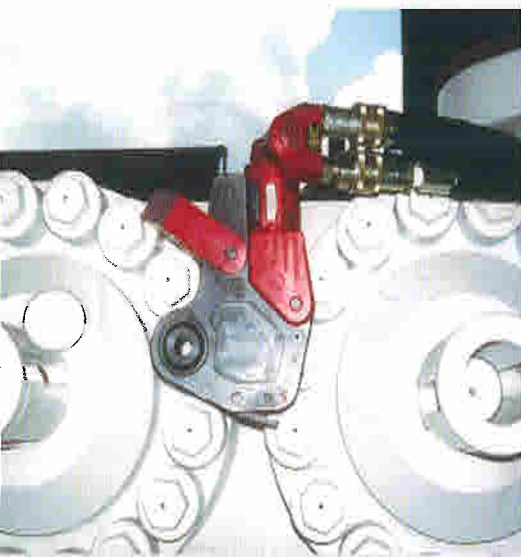
THE INDUSTRY'S MOST COMPLETE RANGE OF TENSIONING AND TORQUING SERVICES



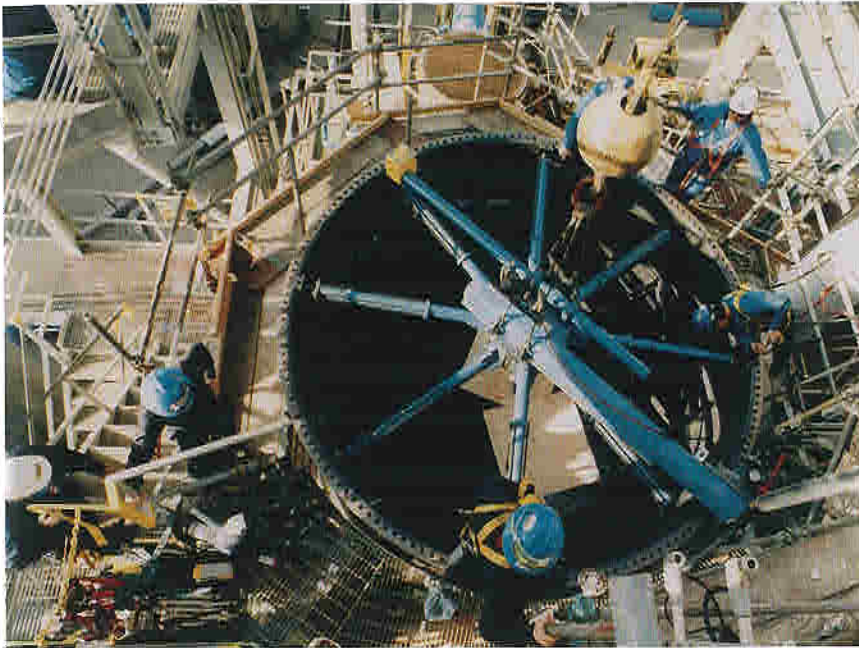
Proper assembly of the bolted flange joint is of ever increasing importance in today's petrochemical environment. With the enforcement of federal regulations concerning ground/water contamination and fugitive emissions, the success or failure of a bolted joint has taken on new significance. PTS recognized this, and since 1993, has become a leader in bolting technology. Our methods of bolt tightening, either by torquing, tensioning, or elongation measurement, are time proven to dramatically reduce flange joint failures and fugitive emissions. At PTS, we have extended our knowledge and expertise to the total assembly and inspection of each joint component thus insuring overall performance.

PTS will have implemented the training and practices to meet and surpass new regulations. PTS is now and will remain committed to being on the forefront of bolting technology. With time proven methods, the best equipment, and experienced personnel, PTS will meet your bolting needs anytime and anywhere.

The PTS tensioning system is fast, accurate and safe for both tightening and loosening fasteners. Both hydraulic tensioning and torquing allow for precise flange joint assembly.



THE EXPERTISE AND EQUIPMENT TO MEET ALL YOUR FIELD MACHINING NEEDS



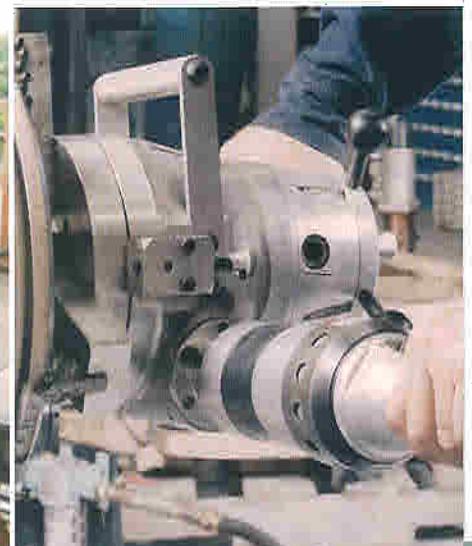
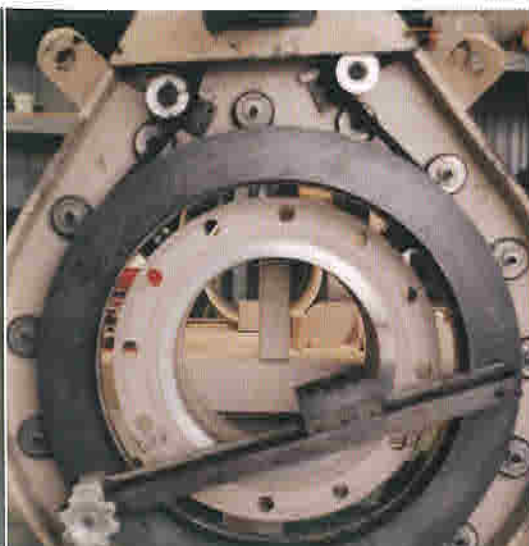
PTS' capabilities are ideal for restricted areas and large repairs where dismantling is not feasible. Our portable flange facers reduce dismantling and downtime costs by refacing flanges on-site. (Pictured above is a 14 foot diameter titanium flange refacing project.)

Our field machining division came on board as a natural progression to bolting because of frequent refacing needed to create a proper flange joint assembly. Many of these flanges were associated with exchanger work as well. This presented PTS with a need to provide a number of "in field" machining services that would enhance the customer's equipment reliability.

One service provided regularly is resurfacing of gasket seating areas from 1 inch to 14 feet including all types of gasket surfaces, (ring joint, nubbin or tongue and groove). Some addition-

al services provided by PTS include portable milling of pump and engine bases, pop-a-plug, tube bundle services, stud removal, drilling, tapping and manufacturing.

These services have been provided to a wide range of clientele, ranging from the petrochemical industry to United States government naval ships. Our field machining goal is to provide Quality, Perfection, and Top Dead Center Tolerance.



WHETHER PLANNED OR EMERGENCY... PTS OFFERS RAPID TURNAROUND



Precision Technical Services is ready when you are. From the minute we arrive at the plant site, you'll be amazed at how short the turnaround time will be. Our self-contained units are ready to hook up to a single crane and lift into position. No cumbersome rigs and gantries which steal your space and inflate your maintenance cost.

From our place to yours in record time — Precision Technical Services offers fast emergency service, eliminating costly downtime.



Precision Technical Services is a unique specialty company that provides the refining, petrochemical and chemical industries with a wide range of on-site services. Our specialty services include hydraulic bolting and tensioning, field machining and bundle extraction. Each of these services will stand alone or can be combined on a job to provide our customers with a turnkey work environment.



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