APPLICATIONS

- Bottom of the Barrels Upgrading
- Hydrocracking
- Hydrotreating (HDS, HDN, HDM, HDO, HDA)
- Wax Upgrading, Dewaxing, Hydroisomerization
- Bio Feedstock Conversion

hte’s X4500 is designed to bring parallel catalyst testing and optimization to a range of hydroprocessing applications. It is optimized for high-pressure applications in trickle-bed and up-flow processes, handling highly viscous feedstocks, e.g. HVGO or vacuum residue.

The system allows a special mode of pretreatment and hydrocracking reaction at different temperatures with in-series operation.

It increases productivity in the evaluation of heterogeneous catalysts while delivering high-quality data by matching the online and offline analysis.

BENEFITS

- Reliable, turnkey ready system following international industrial standards, developed over several years in hte’s contract research programs.
- Complete lab-in-lab solution validated with your chemistry and immediately operational at your site.
- Proven, fully integrated workflow including on- and offline analytics, reactor loading, and data integration.
- Highly flexible system with online GC systems optimized for your application in high throughput experimentation.
- Sustainable investment covering a broad range of catalyst volumes from small amounts of powder to large amounts of shaped materials.