



MAKING YOUR
PLANT WORK...

SMARTER

Cat Tech is at the forefront of new technologies. After years of research we are now unloading and loading catalysts from petroleum processing units faster, safer and more economically than ever before. And we continue to create specialised equipment and processes to help you stay on schedule and increase productivity.

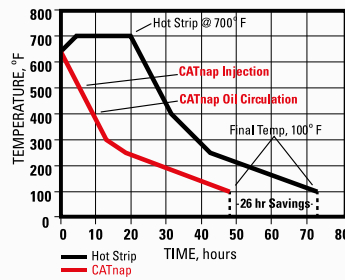
SERVICES

Cat Tech has over thirty years' experience working in the catalyst industry. We remove and replace catalyst from process vessels within the refining, chemical and petrochemical industries.

Our trained professionals, based throughout our network, are focused on safety and customers, and utilise equipment and processes to do the job right, anywhere, any time.

We provide specialised turnkey catalyst handling solutions for every reactor

type and configuration to deliver results for any facility, large or small, and can combine a variety of specific solutions such as catalyst containers, catalyst unloading, catalyst passivation, sock and dense loading, screening, pre-sulphiding, transportation, catalyst disposal, and metals reclamation, into one project managed by professionals who specialise in catalyst handling. Using our international network of resources and experience we will streamline the catalyst handling process providing maximum value to our customers.

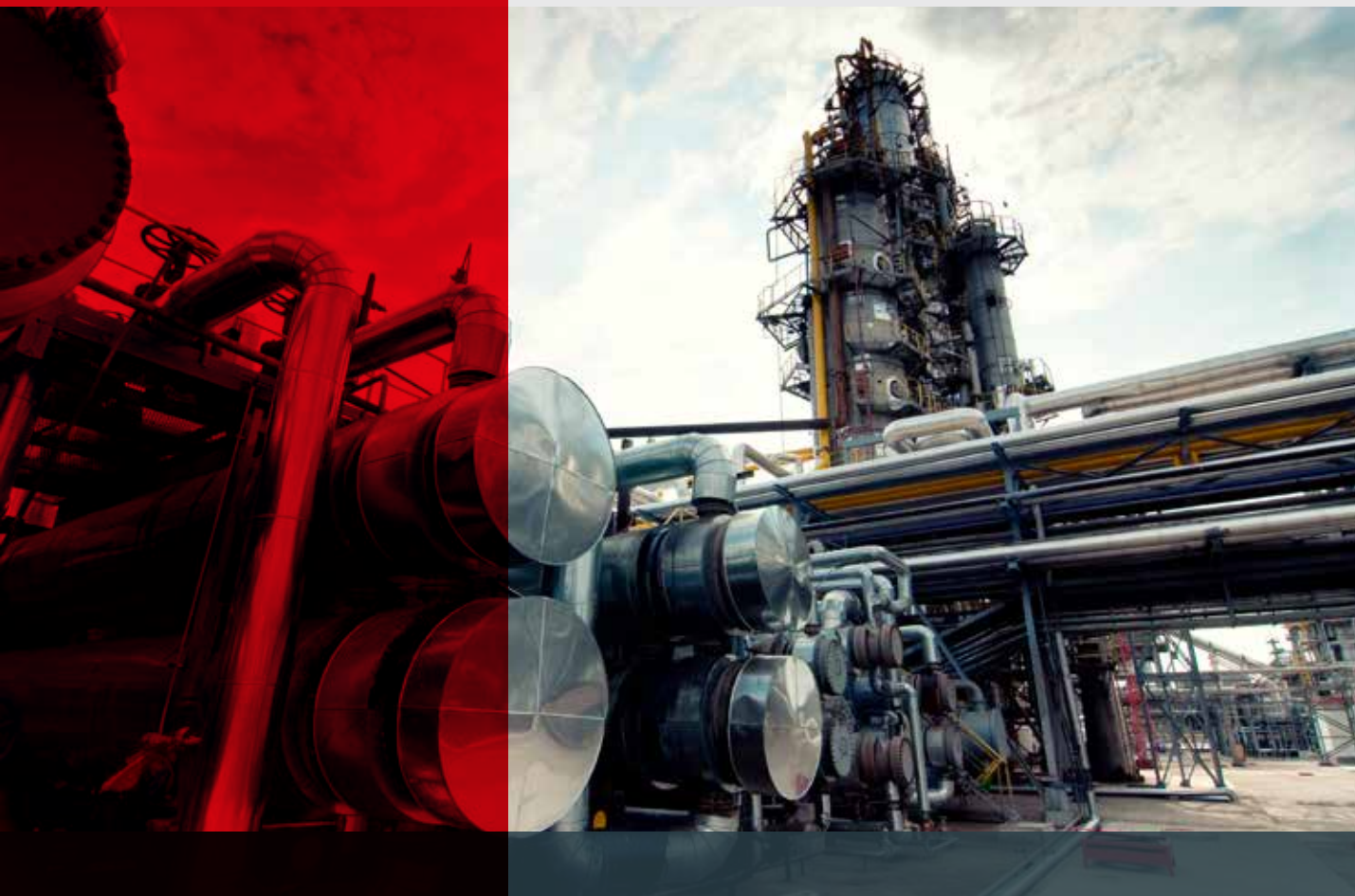


“

We provide specialised turnkey catalyst handling solutions for every reactor type and configuration to deliver results for any facility

”

- > **Catalyst Unloading**
 - Airplane Unloading
 - Fishtape Unloading
 - Vacuum Unloading
 - Attrition Reduction Vacuum Unloading
 - Gravity Unloading
 - Auger Unloading
 - CATnap Catalyst Passivation
- > **Catalyst Loading**
 - Sock Loading
 - Dense Loading
 - Attrition Reduction Vacuum Loading
 - CATcade Reformer Tube Loading
 - CATcap Tubular Loading
 - Multi Tube / Zone Loading
- > **Catalyst Screening and Segregation**
- > **Catalyst Dedusting**
- > **Catalyst Transportation**
- > **Catalyst Storage Containers**
- > **Catalyst Disposal**
- > **Catalyst Regeneration**
- > **Catalyst Management**
- > **Catalyst Pre-sulphiding**
- > **Tank Cleaning**
- > **Reactor and Column Services**
- > **Inert Entry Inspection Repair and Maintenance**
- > **Grit Blasting**
- > **Reactor Cooling**
- > **Closed Loop Nitrogen Cooling and Recirculation Vacuum Systems**
- > **HK-101A Heat Exchanger Cleaning (without the need to open exchangers)**
- > **Vacuum Services**
- > **Confined Space Entry**
- > **Video Inspection**
- > **Multi Man Life Support Systems with Video Surveillance and Direct Communication**



CATNAP DELIVERS FASTER, SAFER CATALYST CHANGEOUT

CATnap is a dust-free catalyst changeout process that should save you over 24 hours in your initial reactor shutdown timeline. It's also a safer process (non-inert entry) that reduces the hazards of handling, transporting and storing passivated catalyst. And CATnap renders the catalyst non-pyrophoric to prevent self-heating, so your reactor is back up and producing much sooner improving the unit's time value.

CATCADE SIMPLIFIES AND IMPROVES REFORMER TUBE LOADING

CATcade loading services uses Cat Tech's innovative technology to improve and simplify dense loading of primary reformers in hydrogen, methanol and ammonia plants. Designed in 3-D and employing non-metallic fatigue – and abrasion-resistant materials CATcade eliminates the need for equipment maintenance during a job, delivering a fault-tolerant procedure that's easy for workers to sustain throughout long shifts.

DENSE BED LOADING

Cat Tech offers a selection of exclusive dense bed loading technologies such as Cat Tech's own TURBOcat Dense Loader and the JE Dense Loader. Both systems offer differing loading technologies to suit varying customers requirements but both will enhance your dense bed loading activities with improved loading rates and bed levelness.

HEALTH & SAFETY IS CAT TECH'S NUMBER ONE PRIORITY

Cat Tech's number one priority is the health, safety and compliance of our operations on your sites and ours. Employees at all levels of the company share this philosophy and are committed to ensuring our safety goals are met. Each project is thoroughly reviewed, and detailed safety and operating

procedures are developed to custom-fit each project to maximise safety and efficiency. Our training protocols and health and safety procedures are unsurpassed and we continue to drive down our Total Recordable Incidence Rate (TRIR); Days Away, Restricted, or Transferred (DART); and Experience Modification Rates (EMR).



We continue to create new ways to make catalyst changeouts safer, faster and more productive. And that can make very good things happen for your business.



Contact us for further information

United Kingdom

1 South Park Road
South Park Industrial Estate, Scunthorpe,
North Lincolnshire, DN17 2BY

Tel: +44 1724 871747
Fax: +44 1724 861928

Bulgaria

6 Professor Asen Zlatarov Str., Office 1,
Ground floor, 9000 Varna, Bulgaria

Phone: +359 52746770
Phone: +359 884624748
Fax: +359 52746770

China

Room 1230, No 1,
58 Nong Huachi Road,
Putuo District, Shanghai, 200061

Tel: +86 2152 917 508
Fax: +86 2152 917 505

Singapore

23 Tuas Basin Link
638783

Tel: +65 626 46261
Fax: +65 626 46401

Thailand

2/1 Soi Banbon Nuenpayom Road,
Maptaphut Sub District, Muang Rayong
District, Rayong Province 21150

Tel: +66 3869 2270-1
Fax: +66 3869 2382