

ENTRY 1

Bridge build

EQUIPMENT USER: Steil Kranarbeiten
LIFTING EQUIPMENT USED: Crawler crane
LOCATION: Germany
 Steil Kranarbeiten, based in Trier, Germany, used a Terex Superlift 3800 lattice boom crawler crane to help build a 440 metre long bridge in Luxembourg. Fourteen steel girders measuring 96 metres long, 7 m high and weighing 295 tonnes were installed. The 650 tonne capacity crane was set up in a SSL1 configuration with a 72 m main boom and 250 tonnes of counterweight on the superstructure. The girders were lifted to a height of 22 m and was crawled 50 m forward. The lifts were made at a working radius of 23.5 m.



Rising to the

This year's entries for the *IC Top Lift 2014* competition is a selection of impressive lifts completed in the last 12 months. Readers are asked to pick their favourite from our selection of 10 outstanding lifting projects.

ENTRY 3

Space constraints

EQUIPMENT USER: Chunjo Construction
LIFTING EQUIPMENT USED: Crawler crane
LOCATION: South Korea
 Chunjo Construction used a Manitowoc 31000 to lift a 670 tonne wash tower at the Korea Petrochemical LTD plant in Ulsan, South Korea. The crawler was positioned between refinery equipment and a river, leaving 15 m for the counterweight. The 31000's variable position counterweight made the lift possible.



ENTRY 2

Landslide rescue

EQUIPMENT USER: Vernazza Autogrù
LIFTING EQUIPMENT USED: All terrain crane
LOCATION: Italy
 Italian lifting company Vernazza Autogrù helped recover an Intercity 660 train following a landslide near the cliffs of Capo Mimosa, Italy. The train derailed on tracks between a vertical rock face and the sea. To recover the train, a Terex AC 700 was secured onto a floating dock, along with an AC 100/4 L and an AC 140. To safely carry out the challenging lift, the AC 100/4 L was lifted from the barge onto the rail tracks, where it was able to lift the train back onto the tracks.



ENTRY 4

Record project

EQUIPMENT USER: ALE
LIFTING EQUIPMENT USED: strand jacks, high capacity modular ballast system
LOCATION: Russia
 International heavy lift and transport specialist ALE completed a load-out of the 47,830 tonne Arkutun Dagi topside. ALE's work included the pulling operation using strand jacks, a high capacity modular ballast system and precision 3D barge monitoring. The weight of the load meant that the working tolerances of the barge were much smaller than during a conventional load out. The Arkutun Dagi field is off the coast of Russia.



ENTRY 5

Refinery project

EQUIPMENT USER: Felbermayr
LIFTING EQUIPMENT USED: Crawler crane
LOCATION: Romania
 Crane service provider, Felbermayr, headquartered in Austria, used a 1,000 tonne capacity Liebherr LR 11000 crawler crane to lift steel cylinders at the Petrom refinery in Plojesti, near the Romanian capital Bucharest. The largest cylinder was 58 metres long with a 4 m diameter and weighed 335 tonnes. The lift had to be carried out in a constricted area while the plant was running. The largest column was lifted at a radius of 27.5 m.



challenge

To register your vote, please complete and return the form over the page. Alternatively, an entry form is available online in the cranes and transport section of the IC website: www.khl.com

ENTRY 6

Refined lift

EQUIPMENT USER: Guay Crane

LIFTING EQUIPMENT USED: Crawler crane, all terrain crane

LOCATION: Canada

Crane service provider Guay Crane lifts a 97 tonne column at Valero's refinery in Levis, Quebec, Canada. The column was lifted at a radius of 41.7 metres using a 600 tonne capacity Terex CC 2800, configured with 35.9 m of main boom, 41.7 m of luffing jib and 250 tonnes of superlift counterweight. The tailing crane was a Grove GMK6300L with full counterweight.



ENTRY 7

Vessel installation

EQUIPMENT USER: Mammoet

LIFTING EQUIPMENT USED: Crawler crane

LOCATION: Netherlands

International heavy lift and transport provider Mammoet used its 3,000 tonne capacity Liebherr LR 13000 to help install four platform legs on Van Oord's new wind turbine installation vessel, the

Aeolus. The platform legs were 87 metres long and weighed 920 tonnes each. Mammoet used specially designed top lifting tools and a tailing frame. Mammoet will also be involved in installing four spud cans, a company spokesperson said.

ENTRY 10



Parbuckling operation

EQUIPMENT USER: Fagioli

LIFTING EQUIPMENT USED: Tower lifts, strand jacks, SPMT

LOCATION: Italy

Fagioli, from Italy, used 12 tower lifts, 168 strand jacks and 48 lines of SPMT to remove the wreck of the *Costa Concordia* cruise ship. Work included detaching the wreck from the rocks, using strand jacks to rotate the vessel 25 degrees and rotating to a final total of 64 degrees by means of jacks and ballasting of sponsons. Stabilisation was carried out by securing four anchor blocks to the sea bed by 300 and 450 tonne strand jacks. Anchor blocks and towers were used to secure the wreck's keel during rotation.



ENTRY 8

Stinger sections

EQUIPMENT USER: Aertssen Kranen

LIFTING EQUIPMENT USED: All terrain crane

LOCATION: Netherlands

Aertssen Kranen helps construct a stinger for construction vessel *Pieter Schelte*.

The parts weighed up to 500 tonnes, and measured 48 metres long, 18 m wide and 24 m high. The parts were lifted using a Terex AC 700, two AC 500s and a 300 tonne Grove GMK6300L. Scheuerle SPMT was used to transport the sections.

