



GR-300EX delivered to Cambodia for Angkor Ruins restoration work

In August Tadano delivered a 30t-capacity GR-300EX rough terrain crane to the Angkor Ruins restoration project in Cambodia.

It is being used on the restoration of the Southern Library of the Bayon Temple.

The crane was delivered to UNESCO Cambodia by Singapore-based Tadano Asia Pte Ltd, which has also provided operator and maintenance training for the project team.

Restoration work is being led by the JSA, the Japanese government team for Safeguarding Angkor. The Japanese government played a leading role in the peace negotiations of Cambodia in the late 1980s, and has continued its commitment to postwar social rehabilitation there. The project to safeguard the Angkor monuments was an initiative of the Japanese and French governments in co-operation.

The Bayon temple is one of the most endangered structures among the Angkor



monuments and is regarded as technically the most difficult one to restore.

Last year Tadano donated two cranes and an aerial work platform to the nearby Angkor Wat restoration project.

Further details of the Angkor Ruins restoration project can be found at www.angkor-jsa.org/index_e.html

The project team received operator and maintenance training on their new GR-300EX from Tadano Asia Pte Ltd

Mammoet takes the first HK 70

Mammoet, one of the world's biggest lifting and transportation companies, has taken delivery of the first Tadano Faun HK 70 truck-mounted crane.

The 70t-capacity crane was delivered to Mammoet's worldwide headquarters in Schiedam in the Netherlands, is mounted on a special Mercedes-Benz Actros five-axle truck.

Mammoet has fully endorsed the Tadano Faun HK truck-mounted crane series, and already runs more than 20 HK series machines in its fleet. Such is Mammoet's satisfaction with both the cranes' operations and their reduced operating costs, further HK 70 and HK 60 units are on order. This will bring its total number of Tadano Faun HK cranes to well beyond 30.

Mammoet also operates Tadano Faun all terrain cranes, including the ATF 40G-2 and the ATF 220G-5. Mammoet's recent rough terrain purchases include a Tadano GR-300EX, with another one on order. In addition, the company runs quite a few Tadano products in its global

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At the handover of the first HK 70 to Mammoet was (left to right): Jan van Seumeren Jr, chief technical officer of Mammoet Holding BV; Satoru Oyashiki, president of Tadano Faun GmbH; Richard Beenen, sales manager of distributor Waterland Trading; and Roland Schneider, director of Mercedes-Benz Nederland



ROBOTOPS

The crane of the future

After two years of design work and a further year in development, Tadano has unveiled **ROBOTOPS**, the crane of the future.

ROBOTOPS is the world's first four-legged dual-armed robot, which integrates the structural, hydraulic and electronic control technologies that Tadano has developed over many years.

ROBOTOPS uses a movement control system developed through a joint research project with Okayama University, to produce the first-ever crane that is able to walk, opening up whole new possibilities for the future development of cranes. Mechanical parts were developed internally in Tadano's Technology Research Centre.

ROBOTOPS has 29 movable joints that enable movements never seen on a crane before, including outriggers that move to make the machine walk. Images from three internal cameras allow the operator to remote-control the crane by watching a monitor. This opens up uses in such applications as disaster recovery.

The project began three year's ago as part of Tadano Ltd's 60th anniversary celebrations.

There are no plans yet to produce ROBOTOPS commercially although technologies developed in this project will be seen on future Tadano cranes.

ROBOTOPS: Key specifications

Height x width x length: 2.1m x 2.1m x 3.84m (when stored)
 Weight: 2.7t
 Lifting capacity: 100kg x 2 (both clamps)



GT-600EX

Tadano's new 60-ton truck crane

Tadano truck cranes have for many years been favourably received by customers around the world. Since Tadano began producing its own chassis for this type of crane in 2007, there have been further continued improvements in product performance and reliability.

The latest example of this is the new GT-600EX, rated at 60t capacity, which replaces the 55t GT-550EX in the product range.

The combination of a new superstructure with a carrier that has been independently developed by Tadano contributes to a significant upgrading in crane travelling performance and lifting capabilities.

The chassis is equipped with the hydraulic suspension system whose outstanding performance has already been proven in a series of Tadano all terrain and rough terrain cranes. The system ensures great stability even when driving at high speeds.

As for lifting performance, the adoption of a newly-developed round shaped boom and



bi-fold fly jib significantly increases both boom and jib lifting capabilities.

In addition, the introduction of a new model Automatic Moment Limiter, the AML-C, offers customers a safer operating environment with improved visibility.

The first unit of the GT-600EX is shipped from Japan to Brazil in October.

SAIE debut for new all terrain

The new Tadano Faun ATF 130G-5, shown in prototype to distributors in the spring, is officially unveiled to the wider public at the SAIE Fair 2009 in Bologna, Italy this month.

With a maximum lifting capacity of 130t, the new model closes the gap between the 110t-capacity ATF 110G-5 and the 160t-capacity ATF 160G-5.

The six-section 60m boom, with single-cylinder telescopic system, provides strong capacity charts throughout. The boom extension is available



from 10.2/18m to a maximum 32 m, in mechanical or hydraulic version. The hydraulic jib option is a new feature for Tadano Faun's five-axle models.

The integrated 3.8 m heavy duty jib has a maximum capacity of 40t.

Another debut at SAIE, held 28-31 October, sees Tadano Faun exhibiting together for the first time with its new Italian distributor ORA srl (Officina Riparazione Autogru). Based near Pordenone, ORA was already in charge of after-sales service but now takes on full responsibility for the sales as well.

One of the highlights of the SAIE fair in Italy is this, the new ATF 130G-5 all terrain from Tadano Faun

Below: The handover of the HK 70 was at Mammoet's HQ, a building known as The Bollard, in Schiedam

Mammoet's HK 70

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operations outside Europe, such as in Canada.

On the new HK 70, crane operations are powered by a 90kW (122hp) Mercedes-Benz engine on the upper, which reduces fuel consumption, emissions and wear and tear on the truck's own 334kW (465hp) V6 engine.

The crane's 44m four-section main boom extends with a powerful single cylinder system. With the Tadano AML system, as the boom extends/retracts it is and locked into the desired position fully automatically. All boom sections can be extended under partial load.

The five-axle Actros truck is based on a four-axle Actros with the addition of a 12t electro-hydraulically steered tag axle, making GVW 54t.



Below: Mammoet runs many Tadano cranes, including this ATF 220G-5



The UK's first HK truck-mounted crane

The first Tadano Faun HK series truck-mounted crane delivered to the UK is an HK 40 (40t capacity), which has been bought by Liverpool-based John Sutch Crane Hire.

The crane was exhibited by distributor Cranes UK at the Vertikal Days trade show, held at Haydock Park Racecourse in June (below).

Cranes UK was among more than 100 exhibitors, but had the distinction of showing the biggest crane, a Tadano Faun ATF 220G-5 all terrain in the colours of customer PP Engineering Crane Hire. Also exhibited in customer colours were an ATF 40G-2 to be delivered to Steve Foster Cranes and an ATF 50G-3 to be delivered to Spence Crane Hire.



John Sutch's HK 40 on show at Vertikal Days

Cargo crane at CTT



ZE304HS crane on a GAZ truck



The team at CTT

Following Russian certification for ZE300 Series cargo cranes earlier in the year,

Tadano has shipped a ZE304HS (four-section boom) unit to Russia. It was the first unit of the ZE300 Series to be exported from Japan.

The crane was mounted on a Russian GAZ 33104 truck by commercial vehicle specialist Chaika Service, Tadano's sales and service partner for cargo cranes in Russia. Chaika Service, which is based in Nizhny Novgorod, Russia's third biggest city, subsequently exhibited the vehicle at the CTT exhibition in Moscow, 2-6 June.

The ZE304HS has a lifting capacity of 3t at 2.5m. Features include a hook stowing system (Hook-In) and Automatic Moment Limiter (AML).

Distributor focus

Our partners around the globe

Rotator: Finland

Rotator Oy was founded in 1954 as a machinery importer and has represented Tadano in Finland since 1971.

Since 1998 its has been owned by Captum Group, a private owned technical trade company. Thomas Åhman became managing director in 2002, having been with the company since 1984, except for a period between 1998 and 2000.



Rotator's M.D.
Thomas Åhman

In 2008 the company had a turnover of 93m euros and it employed roughly 135 staff.

As well as Tadano cranes, Rotator represents numerous other lines of construction equipment, such as Hitachi excavators, Merlo telehandlers and Nissan forklifts.

For optimum customer support, it has premises in Pirkkala, Vantaa, Oulu, Raisio, Seinäjoki, Kokkola, Lahti and Talvivaara. The main customer service point is in Vantaa, while most new machines are equipped in Tampere. There are also 30 service vans to reach customers anywhere in Finland in next to no time.

"The company has had a steady growth during the last years. The investment in improving and expanding the after sales services has continued and new premises have been opened," Mr Åhman says.



"We have had a lot of success with the Tadano rough terrain cranes, in particular. They have proven to be extremely reliable in our tough climate, he explains.

"Generally speaking,

An ATF 90G-4 at a Rotator open day for customers last year

Fairs & Events

Where to meet Tadano around the world

- ◆ **ICUEE**
6-8 October Louisville, Kentucky, USA
www.icuee.com
- ◆ **World Crane & Transport Summit**
22-23 October Amsterdam, Netherlands
www.khl.com/wcts
- ◆ **SAIE**
28-31 October Bologna, Italy
www.saie.bolognafiere.it
- ◆ **BICES**
3-6 November Beijing, China
www.e-bices.org
- ◆ **SC&RA Annual Conference**
6-10 April 2010 Orlando, FL., USA
www.scranet.org
- ◆ **BAUMA**
19-25 April Munich, Germany
www.bauma.de

in Scandinavia strong emphasis is put on operator comfort and safety issues. Much of this has to do with the climate and the long darkness in the winter. That means good cabin heating, ventilation and working lights are very important as well as the operator's seat and ergonomics. The machine itself must be easy to start up in cold weather, and the use and controllability must not be affected by the ambient temperature and environment."

Mr Åhman says that Finland's economy has seen the same problems as the rest of the world in recent months, since its economy is highly dependent on exports.

In normal years Finland might import between 20 and 40 mobile cranes a year. In the recent boom years this rose to above 50 cranes. In 2009 the total looks like being about 30 units, he says. However, the economy seems to have reached the bottom, he says, and there are now some more positive signs.

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