

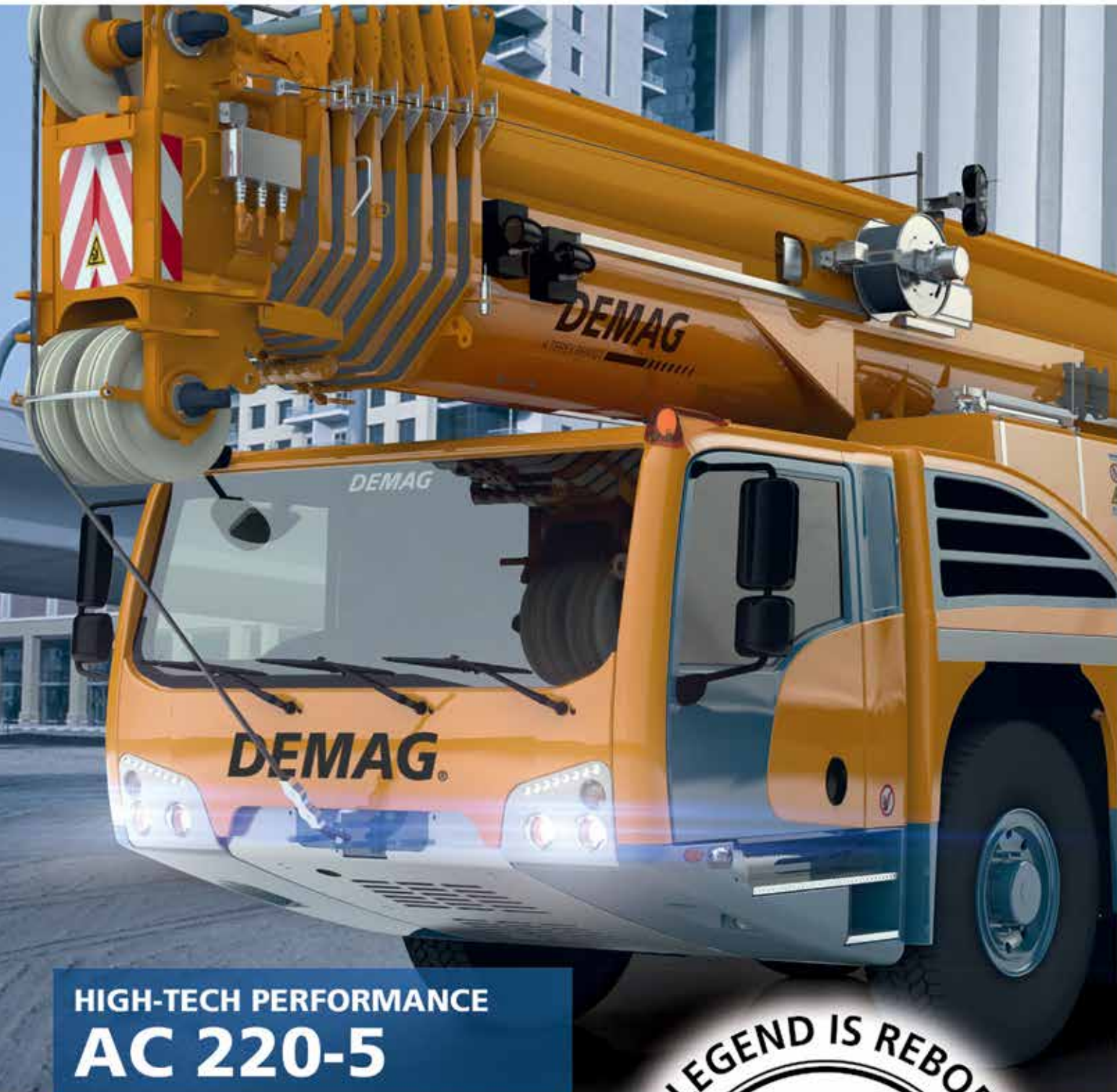
# cranes & access

July/August 2016 Vol.18 issue 5

www.vertical.net

Dealer guide  
City AT cranes  
Engines  
Lifting & Access  
for industry  
Vertikal Days  
review

....Raimondi launches new crane.....Skyking/King Highway bought.....TVH on the acquisition trail ....



## HIGH-TECH PERFORMANCE AC 220-5

### ■ Outstanding Reach

With a main boom length of 78 m the AC 220-5 reaches heights or radii where other cranes need to rig a jib.

### ■ Jobsite Accessibility

The AC 220-5 is the most compact crane in its capacity class.

### ■ Increased Versatility

The IC-1 Plus control system enables you to perform jobs of larger cranes.

Ask about our 5-axle all terrain cranes family:



AC 130-5



AC 160-5



AC 220-5



AC 250-5

A LEGEND IS REBORN

# DEMAG®

A TEREX BRAND

Contact us to learn more:  
[www.terex.com/cranes](http://www.terex.com/cranes)

## On the cover:

The new 5.66 metre working height Genie GRC-12 is a newly designed version of the Genie Runabout Contractor and features saloon doors with extension deck to provide easier access to operators carrying tools and materials.



# C&A contents

17

City cranes and small ATs



25

Industrial access



59

Engines



**SUBSCRIPTIONS:** Cranes & Access is published nine times a year and is available on payment of an annual subscription of £40.00. If you wish to subscribe, please send a crossed cheque made payable to The Vertikal Press Ltd to: Subscriptions, The Vertikal Press, PO Box 6998, Brackley, Northants NN13 5VW. Address changes should also be sent to this address. Please include the address label from a recent issue with all correspondence and allow 3 months for changes to be effective.

### SUBSCRIBE ONLINE AT:

[www.vertikal.net/en/journal\\_subscription.php](http://www.vertikal.net/en/journal_subscription.php)

**BULK DISCOUNTS:** These are available to companies wishing to take out multiple subscriptions. Please contact the subscriptions manager for more details.

Tel: +44 (0)8448 155900 Fax: +44 (0)1295 768223

E-mail: [info@vertikal.net](mailto:info@vertikal.net)

Kran & Bühne: The Vertikal Press also publishes a German magazine which deals with the same issues as Cranes & Access, but is written for German users and buyers. Details available on request.

While every effort is made to ensure the accuracy of information published in Cranes & Access, the Editor and Publisher can accept no responsibility for inaccuracies or omissions. Views expressed in articles are those of the authors and do not necessarily reflect those of the Editor or Publisher. Material published in Cranes & Access is protected under international copyright law and may not be reproduced without prior permission from the publishers.

King Highway acquired, Nationwide adds spiders, Raimondi unveils MRT159, Custom appoints Collé, TVH acquires Industrial Access, Latest



Comment 5

News 6

Böckers for Berry Cranes, KBW and Ascorel team up, Liebherr consolidates in USA, Teupen opens UK facility, Werner invests in UK, Three Katos for City Lifting, New forestry crane from Hiab, Chinese plant for Wacker Neuson, Interlift adds Hewden depots, Klubb moves into Benelux, Financials round-up.

## City cranes and small ATs 17

Kato has re-entered the European market with a range of three City cranes from 13 to 35 tonnes capacity. We chart the development of the City crane as well as profiling UK-based Reeds Bray Cranes which specialises in small capacity ATs.

## Industrial access 25

July and August have traditionally been the time for plant shut-down maintenance and repair programmes. Access equipment plays a major part in any work above ground. We take a look at the various equipment options as well as examining a real-world example and ask which type of equipment is the best for the job.



## Dealer guide 37

Our annual UK/Ireland dealer guide and source guide lists all the crane, access, telehandler and ancillary equipment currently manufactured along with the contact details of the distributors for the UK and Ireland.



## In the next C&A

The next issue of Cranes & Access scheduled for early September will feature: Spider/mini cranes, Large Rough Terrain scissor lifts, the annual Top 30 Rental company survey, Safety equipment and remote controls. If you have any contributions or suggestions or are interested in advertising in this issue, please contact our editorial or sales teams.

## Pick & carry cranes 47



Although there have been few major developments in the industrial pick & carry crane market, there has been significant growth in other types of equipment capable of lifting and carrying a load. We review some of the equipment available.

## Vertikal Days review 50

The biggest and best Vertikal Days also happened to be the 10th at Haydock Park. We take a look at some of the highlights.



## Engines 59

The subject of engine emissions has dominated construction equipment development - both on and off road - for the past decade or more. With Stage V looming, we take a look at the detail and hopefully clarify the situation.

## regulars

ALLMI Focus 63

IPAF Focus 65

PASMA Focus 67

Training 69

Books and Models 70

CPA 71

Letters 72

What's on 74

Online directory 80

**There is only one boss - the customer - and he can fire everybody in the company from the chairman on down simply by spending his money somewhere else**

Sam Walton

If you use one of these,



you need one of these.



IPAF Approved Training Centres train more than 100,000 operators every year in the safe and effective use of powered access platforms.

The IPAF PAL Card is recognised worldwide across industries as proof that your operators have been trained to the highest safety standards and meet all legal requirements.

Find an IPAF approved training centre at [www.ipaf.org](http://www.ipaf.org)

The IPAF operator training programme is certified by TÜV as conforming to ISO 18878.



## Editorial team

Mark Darwin - Editor  
editor@vertikal.net

## Associate editors

Rüdiger Kopf (Freiburg)  
Alexander Ochs (Freiburg)  
Leigh Sparrow

## Reporters

Ed Huntley  
Sam Pickering

## Sales & customer support

Pam Penny  
Clare Engelke  
Karlheinz Kopp

## Production/Administration

Nicole Engesser

## Subscriptions

Lee Sparrow

## Publisher

Leigh Sparrow

## Advertising sales

### UK-based

Pam Penny pp@vertikal.net  
Tel: +44 (0)7917 155657  
Clare Engelke ce@vertikal.net  
Tel: +44 (0)7989 970862

### Germany-based

Karlheinz Kopp khk@vertikal.net  
Tel: +49 (0)761 89786615

### Italy

Fabio Potestà,  
Mediapoint,  
Corte Lambruschini,  
Corso Buenos Aires 8, V Piano-Interno 7,  
I-16129 Genova, Italy  
Tel: 010 570 4948 Fax: 010 553 0088  
email: mediapointsrl.it

### The Vertikal Press

PO box 6998 Brackley NN13 5WY, UK  
Tel: +44(0)8448 155900  
Fax: +44(0)1295 768223  
email: info@vertikal.net  
web: www.vertikal.net

### Vertikal Verlag

Sundgauallee 15, D-79114,  
Freiburg, Germany  
Tel: 0761 8978660 Fax: 0761 8866814  
email: info@vertikal.net  
web: www.vertikal.net



## Restraint or arrest - a point to consider

As this issue was going to press, reports came in of another fatality after a truck hit a platform, ejecting both men from the basket. It would appear that although both were wearing harnesses one survived, but badly injured, while the other did not. It seems that both were using long lanyards.

Let me say from the outset that it is good news that the use of harnesses in booms has grown enormously in recent years and is now generally accepted as good work practice at least throughout Europe, Australasia and North America. Whether or not operators are wearing the correct harness and lanyard and whether they are correctly attached is another matter.

This incident highlights some worrying aspects regarding lanyards - their length and the anchor points. Like any equipment, the lanyard has to be used in accordance with manufacturers' guidelines and be correct for the application. It may be for fall restraint or fall arrest - there is a big difference.

As IPAF's Clunk Klick campaign promotes - you should always wear a full body harness with a SHORT lanyard when using a boom type platform. This is a fall restraint system that physically prevents the wearer from being thrown from the basket by a sudden movement/catapult effect. Fall restraint systems prevent the wearer getting into trouble in the first place - ie physically stopping a roofer getting close to the edge and risking a fall etc... These lanyards are available in a variety of lengths or are adjustable for use in different situations. In a boom lift the short lanyard is not intended to allow the operator much movement, in order to keep him in the basket. However this is a reason why longer lanyards are often used - but if too long they no longer restrain.

As we all too often see, if there is a sudden 'catapult' movement - from the platform being hit by a truck, driving over a curb etc - those with too long a lanyard can be thrown out. If they are lucky, they are left dangling from the platform without serious injury. I say lucky because the lanyard anchor points in many platforms are not designed to cope with the full forces of a 100+kg operator dropping say 1.8 metres before stopping dead, and in many cases will fail.

The anchor point for a fall arrest lanyard has to meet high static and dynamic test loads for 1.8 or even two metre drops. Fall arrest systems are not generally recommended for use in aerial work platforms due to the loading they can impose on the platform, not to mention the fact that if the platform is too close to the ground they will not work at all.

So even if you are wearing a harness in a boom check the lanyard length and anchor point to ensure you are properly protected.

Mark Darwin

Comment and feedback is most welcome via post, email, fax or phone stating if we may publish them or not: editor@vertikal.net

## Vertikal Press

MEMBERS OF:



ISSN: 1467-0852

© Copyright The Vertikal Press Limited 2016



Vertikal  
.net