Doka Xpress

The Formwork Magazine

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Perfect fitting formwork for challenging shapes

doka
The Formwork Experts

Editorial

A warm welcome to this new edition of Doka Xpress, the international formwork magazine. To help you make even more efficient use of your valuable time, we have redesigned our customer magazine to mark Doka's 50th anniversary. Articles on interesting formwork solutions clearly point out all the main advantages and benefits, so that these can be seen at a glance.
Half a century's jobsite experience in many countries of the world has left its mark on Doka. On countless projects, on all continents, we have assisted construction firms with our "Safe. Fast. Efficient." formwork solutions.
A considerable part of this success can be put down to the partnership-oriented way in which we work with our customers and share experience with them. Their jobsite experience and ideas are constantly finding their way into our innovation process. The result is new products and services that offer even greater practical benefit in day-to-day working on the site. Like the new Eurex top floor prop, for example. It is just about indestructible, lightweight, easy to handle and sets a new benchmark against which all other floor props will be measured. I do hope you will find this new edition of Doka Xpress an enjoyable read! Mail us your feedback to editors@doka.com.

Yours,
Josef Kurzmann
Executive Director,
Doka Group

Doka News

◀ SCC record in Canada

Canada – On a railway tunnel under construction in Edmonton, Alberta, 48 m long and 5 m high sections of wall are being formed with Framax Xlife large-area elements and cast in a single pour using self-compacting concrete. With a concrete cubage of 700 m³, this is one of the biggest casting sections ever poured using SCC anywhere in North America.

◀ SKE assignment for twin towers

Qatar – In Doha 180 Doka SKE 50 automatic climbers are in action on the construction of the 246 m tall Twin Palm Towers. Following problems with a local supplier, the site management opted for a formwork solution from Doka. Thanks to Doka's support it has been possible to make up for valuable lost construction time.

◀ Intra-urban major project

Slovakia – The huge "Eurovea" development covering 38,000 m² in the heart of Bratislava will give the Slovak capital a new mixed-use riverfront district. To accomplish this project, main contractors Bilfinger Berger are relying on formwork technology from Doka and benefiting from fast, safe and cost-efficient forming operations.

Index

The Facts

JOBSITE
Windpark Thornton Bank

LOCATION Belgium

REQUIREMENTS
Conical-cylindrical gravity base foundations

HEIGHT 44 m

CONTRACTORS M.B.G.

◀ The gravity base foundations for the wind turbines are being pre-cast onshore using Doka climbing formwork MF 240.

Plunged into the sea

One of the biggest windfarm projects in the EU is taking shape off the Belgian coast. Its 60 turbines will generate approx. 1000 GW/h of electricity a year, saving 496,000 tons of CO_2.

More than 50% of Belgium's greenhouse gases are caused by power generation. To meet the 7.5% cut in CO_2 emissions by 2010 to which Belgium committed in the Kyoto Protocol, the country is betting heavily on wind power for generating electricity. The formwork solution for casting the 44 m tall gravity base foundations (GBF) of the wind power plants is being supplied by Doka Belgium.

Gravity base foundations: a formwork engineering challenge
After completion, the hollow in-place concrete structures are hauled to a offshore site, filled with approx. 2,000 m^3 of sand and are able to compensate for the forces and moments from the 184 m tall wind turbines. Owing to their special shape, the GBF present some very tough formwork technology requirements. For example, the cone rising from this base-slab tapers from 17 m to 5.50 m in diameter. For this, the Belgian contractors M.B.G are using climbing formwork MF 240 fitted with custom elements of large-area formwork Top 50. As every single casting section of the conical zone has a different diameter, there are five separate sets of formwork in service here. Each of these formwork sets can be re-used for the same casting section on every GBF tower.

Supporting construction frames used in the horizontal for safe load transfer
At a height of 17 m, M.B.G is forming the cylinder with three sets of climbing formwork MF 240. The 6 m long horizontal cantilever slab at a height of more than 40 m requires platforms with high load-bearing capacity. Doka therefore mounted 8 m high supporting construction frames in the horizontal. Staxo load-bearing towers and Top 50 large-area formwork is then set up on these platforms. The triangular shape of the supporting construction frames transfers the vertical loads from the fresh concrete into the previously hardened section.

The Solution!

Cone: five separate sets of climbing formwork MF 240. Each set is being re-used for the same casting section on every GBF tower.

Cylinder: three sets of climbing formwork MF 240.

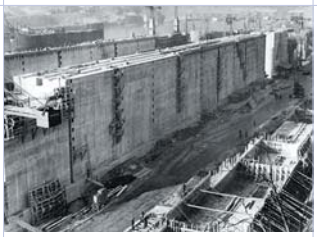
Horizontal cantilever slab: high load-bearing platforms of supporting construction frames, Staxo load-bearing towers and Top 50 large-area formwork.

▼ The hollow concrete structures are hauled to the offshore site by floating cranes and lowered onto the seabed at a depth of 27 m.

Aerial view of Doka's central plant in Amstetten. ▶

A history of success – Doka turns 50

50 years ago, on 6th May 1958, Doka was first registered in the Austrian Register of Companies.



1955

Première for Doka formwork sheets at Ybbs-Persenbeug.

1961

Impressive growth: the plant in Austria.

50 years later, Doka is a brand that enjoys worldwide recognition and is a by-word for quality, innovation and capability in all areas of formwork technology. With its outstanding products, high-calibre advisory service, competitive production operations and comprehensive package of service offerings, Doka makes a major contribution towards sharpening its customers' competitive edge.

The roots of the parent Umdasch company go all the way back to 1868. Construction of the Ybbs-Persenbeug hydroelectric power station on the River Danube in 1955 ushered in a new era for the company. For it was on this project that the novel, glue-bonded formwork sheets from the Umdasch carpentry firm in Amstetten made their debut, being used by the client "DOKW". The advantages of these sheets were so convincing that soon the firm was selling them as fast as it could make them. In a shortened version of the name of the client for whom they were first produced, they were referred to simply as "Doka" sheets, a term which ultimately also gave the company its name. Building on this success, Doka successively moved in the direction of system formwork.

By constantly innovating, Doka always keeps a step ahead. When developing new forming systems, workload reduction, ease of handling, safety, durability and system compatibility are always its top priorities. By as early as 1965 Doka had already developed large-area formwork. This was followed in 1971 by the first climbing formwork, which was used for the building of a ship lift at Lüneburg, Germany. In 1977 Doka enlarged its range of climbing formwork with the SKE 175 hydraulic automatic climbers. These enabled the 180 m tall piers of what was then Europe's tallest bridge, the Kochertal Viaduct, to be formed without a crane. In 1981, the cooling tower of the Voitsberg thermal power plant in

◀ **The Seidewitztal Bridge in Germany was built with the Doka forming traveller.**

1971

Première for Doka climbing formwork.

1985

First building site with Framax framed formwork.

Austria was built using the newly developed Doka cooling tower formwork. The hand-set formwork system Dokaflex 20 and repositionable tableforms were also premiered in the same year. The Framax framed formwork, now in service in its millions, and the wall formwork FF 20 both started speeding up work on the site in 1986. Over the past few years, Doka has initiated a new chapter in the history of formwork technology with its use of high-tech wood/plastic composites, as exemplified by the H20 top beam and the Framax Xlife sheet, to name but two. New products such as the Doka cantilever forming traveller, the load-bearing tower Staxo, the table lifting system TLS, the climbing formwork Xclimb 60 and the platform system Xsafe show that continual innovation is at the heart of the Doka corporate philosophy.

To ensure its continued ability to meet ever-rising demand, Doka has been investing heavily in expanding and upgrading its production facilities. A new beam-flange production line, and four moulding stations for the end-reinforcements on the H20 top beam, will take annual output to 12 m linear metres of formwork beams. The new container terminal, with a gantry crane and a computer-controlled high rack warehouse, will ensure that the huge volumes of goods being shipped out of the Amstetten main plant will continue to arrive in the right place, at the right time. Four million m² of three-ply sheets a year are produced at the branch plant in Slovakia.
Doka is currently represented in more than 65 countries, with over 140 branches and logistics facilities. The Doka Group is determined to increase its market shares still further in the coming years as well, and to open up new markets. This successful internationalisation drive not only strengthens Doka's position as a global player on the international formwork market, but also lays solid foundations for future growth.

1996

Doka platform SCP enters market.

2007

Forming the future with Doka in Dubai.

▲ The contracting consortium of SMP and Metrostav is erecting the motorway bridge over the River Elbe in the Czech Republic using the newly developed Doka cantilever forming traveller.

New Doka cantilever forming traveller

Prosmyky Bridge, Czech Republic. Contractors SMP und Metrostav benefit from the advantages of the Doka cantilever forming traveller.

The Prosmyky Bridge spans the Elbe with a length of 585 m. The box-girder superstructure rests on six piers, which are also being constructed using Doka Formwork Technology. The three spans of the superstructure are being cast by means of two Doka cantilever forming travellers in a total of 26 casting steps.

Optimum solution for cantilevering works

The result of Doka's long-standing experience in the field of cantilevered construction, the newly developed Doka cantilever forming traveller sets a new benchmark in terms of workplace ergonomics, safety and cost effectiveness. The Doka cantilever forming traveller's modular, flexible structure allows it to be used for forming both straight, inclined and multi-cell box girder cross-sections without any time-wasting, cost-intensive modifications. The Doka Cantilevering Expertise Centre made an in-depth analysis of the potential for improvement on existing cantilever forming travellers, and translated these insights into reality by developing the new Doka cantilever forming traveller to meet the needs of on-site practice.

The most striking improvement over the cantilever forming travellers previously available on the market relates to the geometry of the longitudinal trusses. These take the form of parallelograms and are deliberately designed to be much greater in height. This means that the workspaces around the cantilever-arm and slab formwork are much roomier. Another crucial improvement is the tie-rod girder which ensures a maximum of flexibility: the tie-rods can be freely positioned in a tightly spaced grid anywhere along the entire length of the tie-rod girder, enabling them to be perfectly tailored to the bending moment. The tie-rods are operated from a generously sized, safeguarded working platform. To facilitate casting of the upward-tapering sidewalls, Doka further optimised its new cantilever forming traveller with a telescopic timber-beam formwork.

Guaranteed certainty regarding planning and costs

The newly developed cantilever forming traveller makes Doka the only manufacturer anywhere in the world that can offer an all-in-one solution for cantilevering. The perfectly matched combination of Doka's cantilever forming traveller and its Top 50 large-area formwork does away with the often fault-prone interface between traveller and formwork. Construction firms benefit from the certainty this provides regarding planning and costs, and can handle their cantilevering projects more quickly, safely and economically than ever before. The Doka cantilever forming traveller is a rentable all-in-one solution that ensures the very maximum in cost efficiency and cost transparency.

▲ Generously-sized working platforms on all levels, and a built-in ladder system with integrated ladder cages ensure maximum safety in every phase of the formwork operations.

The Doka cantilever forming traveller sets new standards for cost efficiency, workplace ergonomics and on-the-job safety.

Safe. Fast. Efficient.

Safety first

A main focus of the development effort was to enhance workplace safety. For example, unlike on competing products, safe access to the tie-rod girder is ensured by a built-in ladder system with integrated ladder cages and fully enclosed working platforms. The two other work-deck levels for the cantilever and slab formwork and the bottom formwork are also equipped with vertical access systems and working platforms. This extensive package of safety features is rounded off by self-locking manhole lids.

52 automatic climbers raise 1600 m² of wall formwork, plus the concrete placing boom, up to the next casting section – all at the push of a button. ▶

When completed, the 300 m "Gran Torre Costanera" will be the tallest building in South America. ▼

South America´s tallest building

Contractors Salfacorp opted for a Doka self-climbing formwork solution to construct the „Gran Torre Costanera" in Santiago, Chile.

The Facts

JOBSITE
Gran Torre Costanera

LOCATION Santiago, Chile

CUSTOMER Salfacorp

REQUIREMENTS
270 m tall in-situ concrete core with varying wall cross-section to be built on a tight construction schedule

PRODUCT USED
Automatic climbing formwork SKE 100 and large-area formwork Top 50

The Solution!

52 automatic climbers Doka SKE 100 raise around 1600 m² of wall formwork, plus the concrete placing boom, up to the next casting section. With this Doka formwork solution, the site crew are achieving a weekly cycle for the 4.1 m high typical storeys. With the adaptable automatic climbing formwork, the varying wall cross-sections are being cast swiftly and with no need for any time-consuming modifications.

What clinched the deal for Doka was the technical lead it has built up in the field of self-climbing formwork technology, its unrivalled experience on some of the world's tallest buildings, such as the Burj Dubai, and its systems' compliance with the very highest safety standards.

Forming-operations at the push of a button

The 270 m tall in-situ concrete core of the "Gran Torre Costanera" is characterised by a honeycombed twin-shaft geometry and by a continuous upward taper. The forming operations on the structure core are being carried out using an SKE 100 self-climbing formwork solution incorporating large-area formwork Top 50. This system stands out for its high operational safety, speed and efficiency. 52 automatic climbers raise around 1600 m² of wall formwork, plus the concrete placing boom, up to the next casting section – all at the push of a button. With this Doka formwork solution, the site crew are achieving a weekly cycle for the 4.1 m high typical storeys. A total of 60 casting steps are to be executed. With the adaptable automatic climbing formwork SKE 100, the varying wall cross-sections are being cast swiftly and with no need for any time-consuming modifications.

Professional on-site consulting

The platforms of the SKE 100 automatic climbers and the large-area formwork Top 50 were pre-assembled under the supervision of two Doka field service technicians and delivered to the site ready for immediate use. What is more, the experienced Doka field service technicians also instructed the site crew on how to operate the formwork equipment properly, and were on hand to provide assistance during the first casting steps. This has helped to ensure a smooth construction workflow, with small commissioning quantities, efficient materials-scheduling and full compliance with all safety standards.

For the in-situ concrete core, 94 Doka automatic climbers SKE 50 have been deployed. The CDC site crew is forming, reinforcing and pouring the 64 casting sections in a 3 to 4-day cycle.

▲ With 243 m, the Al Fardan Residence Tower will be the tallest building in Doha. Contractors CDC (Construction Development Company) are relying on formwork technology from Doka.

New landmark on the Arabian Gulf

At a height of 243 m, the Al Fardan Residence Tower marks a new record for Doha.

The over 240 m in-situ concrete core is being climbed in 64 casting steps, each 4.1 m high, using 94 SKE 50 automatic climbers, in a 3 to 4-day cycle by the contractors Construction Development Company (CDC). Fitted with Top 50 large-area formwork, these self-climbing scaffolds are easy to operate and very ruggedly built. The all-round fall-protection on the working platforms, and the fact that the automatic climbing formwork is anchored in the concrete at all times, together ensure safe working conditions in every phase of the formwork operations, and smooth construction progress. "The Al Fardan Residence Tower is already the second project that we've built using Doka SKE 50 automatic climbing formwork. The quick and easy repositioning operation, powered by hydraulic cylinders, the high safety standard and the outstanding product quality convinced us right from the outset", notes CDC project manager Maher Al Saudi, underlining the benefits of this self-climbing formwork from Doka.

Cost-effective floor-slab formwork

The 1900 m² area of slab in each of the typical storeys is being formed by the CDC site crew using cost-effective, economical Dokaflex tables, which were delivered to the site ready for immediate use. This took a lot of pressure off the site logistics, ensuring that work could move ahead rapidly.

The floor slab above the basement level was constructed using an economical combination of the versatile hand-set formwork system Dokaflex and the easy-to-erect d2 load-bearing towers. The columns in the typical storeys are being formed using the high-strength column formwork Top 50. Thanks to the efficient formwork planning and the smooth progress of the forming operations, this project is right on time and right on budget.

The Facts

JOBSITE
Al Fardan Residence Tower

LOCATION Doha, Qatar

CUSTOMER Construction Development Company (CDC)

REQUIREMENTS
240 m in-situ concrete core to be built safely and in a tight construction schedule. The cramped site conditions in the densely built-up city centre location presented some tough demands regarding operations scheduling and efficient site logistics

PRODUCT USED
Automatic climbing formwork SKE 50 and large-area formwork for the concrete core and Dokaflex tables for the slabs

The Solution!

The site crew achieves a 3 to 4-day cycle for the 4.1 m high casting steps with the SKE 50 automatic climbers. With its detailed formwork planning, just-in-time deliveries to minimise the on-site formwork quantities, and streamlined materials-scheduling for maximum economy throughout the formwork operations, Doka is helping the CDC site crew carry out this major project in a typically "Safe. Fast. Efficient." manner.


AERIAL JLG ULTRA BOOM
JLG

Exciting self-climbing première with Doka

River Suir Bridge, Ireland. With its 108 m tall pylon and an overall length of 465 m, it is the longest cable-stayed bridge in Ireland.

The legs of the A-shaped bridge pylon are inclined by 15 degrees and characterised by their parabola-like cross-section. To erect the 108 m pylon, the contracting JV of Dragados, NTR and Royal BAM is relying on the high-performing automatic climbing formwork Doka SKE 50. A total of twenty SKE 50 automatic climbers and 300 m² of large-area formwork Top 50 are in service here. “This is the first time we’ve ever worked with automatic climbing technology. The Doka formwork solution convinced us right from the word ‚go‘. In particular, being able to jump the formwork units so quickly and safely using hydraulic cylinders, and set up and strike the formwork in such a straightforward way, really helps work to move ahead rapidly”, comments contractors’ supervisor Raphael Torres, summing up their positive experience with the Doka automatic climbing formwork SKE 50. The profiled timber formers, made with complete dimensional accuracy by the Doka “Ready-to-Use” Service, enable the form-ply to be exactly adapted to the complex cross-section. The inside shaft is being climbed using the profile-guided climbing formwork GCS. The site crew forms, pours and reinforces the pylon legs in a weekly cycle.

At a height of 60 m, the pylon legs merge into a 48 m pylon head. In the last three casting sections before the point where the legs merge, the platforms have to be continuously adapted to the changing space conditions. For the work on the upward-tapering pylon head, the platforms are adapted to the automatic climbing formwork as required by the new cross-section. All the components of the self-climbing units used for the work on the pylon legs can be re-used here, keeping the commissioning quantities to a minimum. The Top 50 large-area formwork also stays in use, following minor modifications.

Wide-ranging service offerings ensure cost-efficient construction progress

As the contracting JV had not had any previous experience with automatic climbing formwork, the site crew are being given intensive support and assistance by experienced Doka Formwork Experts and field service technicians. Alongside detailed formwork planning, the Doka service package includes stalwart assistance for the site crew with first-time assembly of the formwork equipment, and ongoing support of the site by Doka engineers. The platforms for the SKE 50 automatic climbing formwork, and the extra-large Top 50 elements, are assembled on-site under the professional guidance of an experienced Doka field service technician. Besides this, the field service technician instructs the site crew on correct handling of the formwork equipment, and passes on the basic principles needed to ensure the very greatest operational safety. This helps to ensure troublefree forming operations and get the most use out of the efficient formwork solution, right from the very first casting section.

Raphael Torres, site supervisor

The Professional

”The support we’ve had from the Doka formwork experts has been a crucial factor helping us to meet the ambitious timetable. Specifically, the thorough introductory training given to the crew by the field service technicians in how to use the new equipment made a big contribution towards the safe, smooth forming operations we’ve been having here.”

The Facts

JOBSITE
River Suir Bridge

LOCATION Waterford, Ireland

CUSTOMER Consortium of Dragados, NTR and Royal BAM

REQUIREMENTS
108 m tall pylon with 15 degrees inclined legs, which merge into a 48 m pylon head at a height of 60 m

PRODUCT USED
Automatic climbing formwork Doka SKE 50, large-area formwork Top 50, profile-guided climbing formwork GCS for the inside shaft

The Solution!

The pylon legs are formed, reinforced and poured with SKE 50 automatic climbing formwork and large-area formwork Top 50 in a weekly cycle. Profiled timber forms, made by the Doka “Ready-to-Use” Service, enable the form-ply to be exactly adapted to the complex cross section.

◀ With a length of 465 m, the River Suir Bridge is by far the biggest cable-stayed bridge in Ireland. Doka is supplying the entire formwork solution for the works on its 106 m tall pylon.


ZÜBLIN
ZÜBLIN
Palaisquartier
ZÜBLIN

Safe forming at the highest level

In Frankfurt am Main, a high-rise complex is taking shape to a design by Zimmermann with Massimiliano Fuksas.

This “Mainhattan” megaproject will be a networked unit of four buildings. Two of these will be towers that are visible from afar; one 135 m tall (Building B), the other (Building C) 95 m tall.

Staxo 100 “rises” to the challenge

Building B – an office high-rise – consists of a 33-storey tower made up of four vertical segments, each of a different height, on a broad, four-storey base. Between Level 0 and +52.42 m, contractors BAM Deutschland AG are shoring the approx. 150 m², widely cantilevering flat-slab floors using more than 2200 Staxo 100 frames. In the following storeys, for reasons of weight, only every other floor-slab is being cast as a pre-stressed main slab. The intervening floor-slabs are supported and suspended. Only when the top floor-slab has been cast, and all the slabs below it have been pre-stressed, does the statical system become fully load-bearing. When erecting the Staxo towers, allowance had to be made for varying footing situations, necessitating suitable retaining constructions for securing the tower legs. An approx. 1750 m² Doka protection screen encircles Building B, all the way up to its final height of 135 m, making it just as safe to work there as down on the ground.

Table lifting system TLS beats all expectations

Building C, a 25-storey hotel high-rise, is being built by Ed. Züblin AG. Here too, the protection screen Xclimb 60 ensures the very highest safety and productivity. Being raised by portable hydraulic cylinders, it also saves greatly on crane time. The site team is particularly impressed by the Dokamatic tables. Commissioning a large enough quantity for two complete levels required 1400 m² of tables. These are jumped cranelessly to the next-but-one storey by the table lifting system TLS, which itself climbs up the structure as needed. Together with the Doka shifting trolley plus attachable drive unit, this gets 12.50 m² of table to the next usage location in just a few minutes, outdoing all expectations with respect to safety and speed.

The Facts

THE PROJECT
Palaisquartier, Frankfurt

ARCHITECTS Zimmermann, Massimiliano Fuksas

BUILDINGS
A: Basement car-park; FrankfurtHochVier JV - Lot 1: Bilfinger Berger AG Special Civ.Eng. Branch, Hochtief Construction AG, Bauer GmbH
B: Office high-rise; BAM Deutschland AG
C & D: Hotel high-rise and shopping centre; Ed. Züblin AG

MAX. HEIGHT
135 m (Building B)
95 m (Building C)

FORMWORK ELEMENTS
1750 m² of protection screen
2200 Staxo frames
1400 m² of Dokaflex tables
2 table lifting systems TLS

The Solution!

The hydraulically climbed Doka protection screen ensures safe workplaces, high above the roofs of Frankfurt. The Staxo 100 tower frames are quick and safe to erect - even when, as here, they are over 52 m tall. Already very fast, the Dokamatic tables are given another big speed boost by the table lifting system TLS.

Staxo 100 with intermediate platforms: Safe, reliable shoring even of somewhat greater heights.

◀ The Dokamatic tables are quickly jumped two storeys at a time with the climbing table lifting system TLS.

Claus Spessart and Dirk Leonhardt, Doka advisers

Your contact

”The bottom line of a good formwork solution is that it saves a lot more than it costs.”


NISSAN

Table lifting without a crane

Doka supplied 1400 m² of Dokamatic tables, the table lifting system and shifting trolleys for quick slab forming operations on this site.

For the builders of the Rhythm complex, one of the primary goals was to build the structure as quickly as possible. To help meet this goal, the contractor, Harcon Inc., chose Doka USA as the formwork supplier. Doka's ability to provide formwork on a tight schedule, with fast set time and fast cycle time, was a plus for the project.

Since the footprint of the building was so close to the actual size of the parcel of land, the contractor was very constricted as to the type of construction methods that could be used to build the structure. Originally, Harcon had decided to use conventional wood shoring as a method for construction. Although this method would fit the tight job constraints, it was very time- and labour-intensive. With conventional wood shoring, all work is hand-set – all formwork is set up by hand and after the concrete is poured, the formwork is wrecked out by hand and moved to the next floor for hand set-up again.

What Harcon needed was a way to meet its schedule and keep its workforce as low as possible. Dokamatic tables were delivered to the construction jobsite completely assembled, including plywood, eliminating build-up cost, reducing rental costs and allowing for smaller crew sizes.

The TLS lifts the Dokamatic tables from one level to the next without using a crane. This makes the crane free for other jobs, so the overall work at the construction site progresses faster.
"Doka's table lifting system is basically an elevator that mounts to the side of the building," Paul Campbell, Account Manager, Doka USA, explained. "When you are finished pouring a floor, the tables are dropped down, rolled onto the elevator and taken to the next level where the tables are rolled off and re-set." Doka's comprehensive safety package ensures fast, safe work procedures, both for operating the lift table and for repositioning.

Additionally, Doka's expertise helped the contractor to achieve the desired look that the architect required. "The architect specified exposed concrete floors and ceilings," said Campbell. "We use very high-grade plywood on our Dokamatic tables and that gives an excellent finish on the concrete."

Bobby Kay, project manager, Harcon, Inc.

The Professional

"The table lifting system reduces crane time which ultimately leads to better productivity on the jobsite. Innovation like this is the future of construction."

The Facts

JOBSITE Rhythm at Music Row Condominium Complex

LOCATION Nashville, TN

CUSTOMER Harcon Inc.

REQUIREMENTS 15-storey building with 23000 m² floor space to be built on a tight construction schedule

PRODUCT USED Dokamatic Table, Dokaflex S, table lifting system (TLS) & shifting trolleys

TOTAL FORMWORK USED 1400 m² Docamatic tables

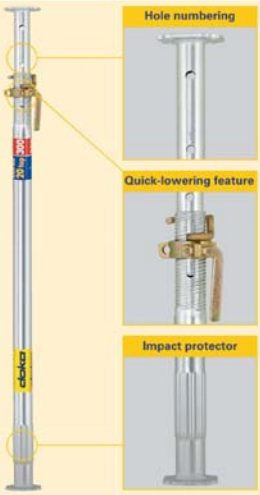
The Solution!

The TLS table lifting system lifts the preassembled Dokamatic tables from one level to the next without using a crane. This makes the crane free for other jobs, so the overall work at the construction site progresses faster.

◀ The TLS table lifting system lifts the Dokamatic tables from one level to the next without using a crane.

In brief

News, dates, media, awards



HIGH ACCOLADE FOR DOKA

Doka has been awarded the Solid-Bautech Prize 2008 for the formwork operations on the building of the Burj Dubai, which was rated the best project in the "concrete construction" category. In particular, the university professors and internationally renowned construction experts on the high-calibre jury singled out the ingenious materials-scheduling, the self-climbing formwork solution and the record-breaking three-day cycle for the over 180 casting steps as an extraordinary and indeed exemplary accomplishment.
Adolf Bösch, Marketing Manager Doka, received the Solid-Bautech Prize 2008 for the Burj Dubai.

EUREX TOP – THE NEW TOP FLOOR PROP FROM DOKA

With its new Eurex top floor prop, Doka has set a new benchmark for the durability, ergonomic design and safety of formwork equipment in the rough-and-tumble of everyday work on the site. The most obvious new feature of the Eurex top is its integral impact protector. It gives the prop tube excellent protection against being damaged, e.g. when the prop is knocked into position by hammer. This means that deformed and jammed floor props are well-and-truly a thing of the past.
Another crucial goal for the product developers was to make work a lot easier for the site crew by substantially reducing the weight of the prop. Being one of the lightest EN 1065 tested floor props there is, the Eurex top greatly cuts down on the amount of physical effort needed to reposition the equipment.
This ensures a fast, ergonomically optimised workflow. And of course, consistently high load capacity is guaranteed at any telescoping length.
With its special thread geometry, the built-in quick-lowering feature makes it easy and safe to back off the prop, even when under full load. Indelibly stamped on opposite sides of the prop, the hole-numbering is an easy-to-understand reference tool for adjusting the height, while the ergonomically shaped fastening clamp reduces the risk of injury and ensures smooth movement on the thread.

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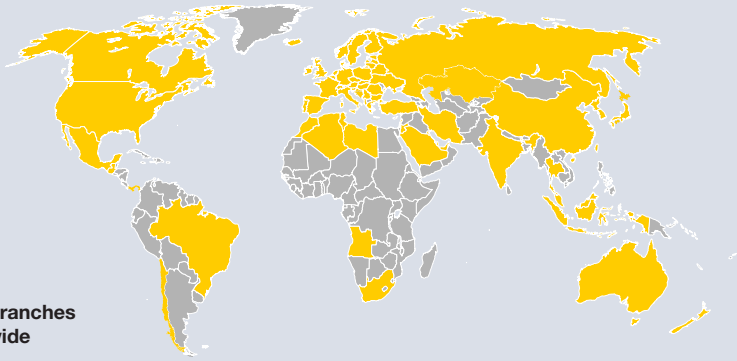

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In some cases the site photos show the situation during formwork assembly and are therefore not always complete from the point of view of safety.

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The Formwork Experts