SCHOLPP

Worldwide Industrial Installation

INSIGHTS

Reference Magazine 2021

A bringing-in project of superlatives

- **Two drums for one of the largest paper mills in Germany**

100,000 parts in five days

- **Structured logistics for a factory relocation**

New skilled worker initiative

- **Strategic employee development at the SCHOLPP Academy**

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SCHOLPP team

Installation professionals: For today and tomorrow

"Shortage of three million skilled workers by 2030" – we've been reading headlines like this in the media for some time now. And not without reason, because the growing shortage of skilled workers is going to become an increasingly pressing issue. To respond to it, we have realigned our HR strategy.

In order to maintain and expand upon the knowledge and skills of our team in the long term, we have been implementing a new HR and training plan since summer 2021. It is based on the idea of training career changers from the skilled trades and industry as professional fitters in a relatively short time. Being a SCHOLPP professional is not a job that can be taught – becoming a specialist in transporting heavy loads and installing machines takes a large helping of practical experience.

To make it easy for motivated career changers to get started at SCHOLPP, we also include the skills that we teach at our SCHOLPP Training Center. Here the basic knowledge and essential skills are imparted in a very condensed way, but always with a hands-on approach.

INSIGHTS 2021 will show you the wide spectrum of our operations. Read about our huge project in one of the largest paper mills in Germany on pages 4/5. Or take a trip to France, where we installed a 90-metric-ton low-bed machining center, on page 11. Both orders were milestones for us: because of the demanding engineering planning and the high level of technical precision.

But the SCHOLPP team can tackle not only projects that are large and wide-ranging, but also those that are sensitive and near-by. See page 21 for how we transported a fragile elephant sculpture. Whether they are live animals or works of art, dealing with elephants calls for a cautious touch. Whether it's a large-scale project or a one-day installation, our great strength lies precisely in transporting every single part to its destination professionally and punctually.

On pages 22/23, you can read about how the training content of our skilled worker initiative and the SCHOLPP Academy directly benefit our customers. With each training session, our team of qualified experts grows, and we are able to renew our quality promise in terms of expertise, occupational safety, and safety in general.

Steffen Kühn & Lars Gerlach,
Managing Directors

Steffen Kühn

Lars Gerlach

Voith Group, Heidenheim: Bringing in for the paper industry

A heavy installation project of superlatives

More exciting insights can be seen in the video "A heavy installation project of superlatives"

https://youtu.be/0TIMH9KLf4Q

Quelle: YouTube

The scene: one of Germany's largest paper mills. On arrival, there was an extra-special challenge lined up for SCHOLPP. Two huge drum components from technology group Voith needed to be brought into the Progroup AG site in Sandersdorf-Brehna: a drum screen measuring 23 meters in length and weighing 85 metric tons and a drum pulper measuring 50 meters in length and weighing 235 metric tons. This was a task that demanded the utmost respect, even from the specialists in red.

After all, the installation was not going to be a textbook job. Complex analyses and technical plans were drawn up together with Voith over the course of several months, and special technical solutions and special technology were planned.

The smaller drum screen was brought into the hall first, where an overhead crane took it over. A specially configured heavy-duty crossbeam, shackles and round slings were attached with low tolerances, and the crane then lifted the 85 metric tons to a height of 10 meters.

Slowly and precisely moving the drums over 60 meters and placing them down onto the bearings required utmost concentration. The team's many years of experience in moving extremely heavy loads was crucial to the success of the maneuver – everyone knew what they needed to do.

Tandem operation by overhead crane and lifting gantry

But that was just the warm-up; the biggest challenge was yet to come. Even bigger, even heavier: It was time to move the 50-meter-long drum pulper. The length of the component and its huge weight of 235 metric tons called for a combination of various lifting techniques.
The drum needed to be kept balanced at all times, with the individual pieces of lifting equipment working in perfect sync.

For this job, the SCHOLPP fitters needed equipment in the XXL range: vast 100-metric-ton heavy-duty round slings and enormous shackles capable of carrying loads of up to 120 metric tons.

A tense silence, a final check: The mobile crane and the overhead crane lifted the drum as high as the heavy-duty truck could extend. It was then lifted to the ride height, with the team continually checking the position and inclination. The crane operator safely and sensitively maneuvered the drum until it had almost passed the right-hand edge of the hall opening. Then a hydraulic lifting gantry took over – a real powerhouse despite its compact size and capable of lifting up to 620 metric tons. This time, the load was not suspended underneath the beams, as is usually the case, but was instead suspended from the end carriages in special saddles due to the high installation height.

The tandem operation by the overhead crane and lifting gantry over 20 meters needed to be performed with the specified angle of inclination. The travel speeds were kept in perfect sync at all times. The final positioning onto the roller bearings was performed with an inclination angle of 1 degree. The horizontal alignment didn't pose any problems, since the lifting gantry was flexible enough to mirror even the most minor movements, and the drum was positioned with a high level of control.

Customer:
Voith Group,
Heidenheim/Baden-Württemberg

Task:
Bringing a drum screen (23 meters long, 85 metric tons in weight) and a drum pulper (50 meters long, 235 metric tons in weight) into a paper mill

Location:
Sandersdorf-Brehna/Saxony-Anhalt

Special equipment:
TG 620 hydraulic lifting gantry consisting of 4 hydraulic posts and 2 x 30 meter tracks as well as side and cross beams for lifting the load into the foundation at a height of 15 meters

Information:
schwerlast@scholpp.de

BF Systemtechnik GmbH & Co. KG, Berlin: Installation of floodlight systems

Safe at a great height

A lofty elevation above Potsdam: It promised to be a project with a view. But the team of professionals from the Berlin SCHOLPP team didn't have time to admire it. The floodlight systems at the Babelsberg football stadium were due a technical overhaul. System specialist and engineering expert BF Systemtechnik GmbH & Co. KG (BFS) from Berlin ordered installation and logistics support from SCHOLPP along with personnel and lifting equipment. Good planning and smooth work ensured punctual completion.

Customer:
BF Systemtechnik GmbH & Co. KG, Berlin

Task:
Installation support and electrical installation in the technical overhaul of floodlight systems at a football stadium

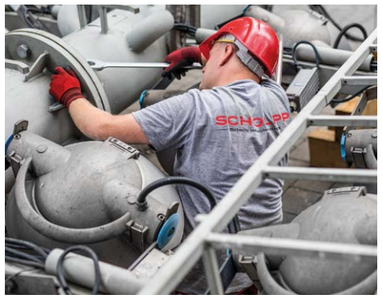
Location:
Potsdam/Brandenburg

Special equipment:
Hydraulic ram for pushing bolts out of joint bearing shells

Information:
industrie@scholpp.de

A focus on occupational safety

This project involved the dismantling of the mastheads and floodlight stages on all four lighting masts and then reinstalling them following the technical overhaul. One noteworthy aspect of this project was the fact that the Berlin SCHOLPP fitters were working on a scaffold and with a crane cage at a great height of between 20 and 40 meters. Alongside the professional installation work, it was particularly important for the team to have a head for heights and remain focused while adhering to occupational safety and height safety regulations.



The main problem area with regard to the lighting systems were the folding joints on the masts. Replacing these joints required a lot of metalworking. SCHOLPP worked with the BFS team during the dismantling phase. This included the removal of the cabling, the disassembly of the floodlight stages (4.40 x 4.30 meters) and the mastheads (13.0 meters long), and taking them down with the mobile crane. SCHOLPP was able to bring important technical equipment from its technology fleet in Berlin to the construction site, such as powerful hydraulic rams to push the heavy bolts out of the joint bearing shells.

On-schedule completion

SCHOLPP also took care of the transport logistics between the site and the steel construction company, the use of the mobile crane and the crane cage as well as the positioning of consoles for the floodlight stages. And the Berlin SCHOLPP team also provided the necessary technical support and personnel for the reinstallation: Lifting, attaching and precisely aligning the mastheads and the floodlight stages.

Navigating the precise timings for deployment on the construction site and coordinating delivery times for the overhauled floodlight stages posed a real challenge on this project, but thanks to good early planning, the team was able to ensure that the job went smoothly and was completed on schedule.

Institute for Machine Tools (IfW), University of Stuttgart: Bringing in machinery

Heavy loads handled with ease

Moving a large load on a sensitive floor: With this project, the nominal weight of the transported goods didn't seem too high at first glance. The SCHOLPP team was asked to bring a 25-metric-ton machine tool into the Institute for Machine Tools (IfW) at the University of Stuttgart. However, the relatively low load capacity of the building meant that a clever solution was required for the internal lateral transportation in order to ensure the even distribution of the load.

The engineers at IfW research the design of machine tools and the optimization of machining techniques. The institute had been provided with a new research machine by machine tool manufacturer GROB in Mindelheim. The machine had a weight of 25 metric tons and measured 7.0 x 3.5 meters. The scope of delivery included all of the accessories, such as the chip conveyor and other attachment parts.

The task was to unload the metalworking center using a large mobile crane (250 metric tons) and to bring it into the second floor of the institute building through a wall opening using a five-meter-high platform. But this was just the first and easiest part of bringing it in.

Transport solution with low floor load

The transport inside the building then posed a challenge for the team, as the hall floor had a maximum load capacity of just one metric ton per square meter. In order to transport the machine to its intended installation position, the fitters reinforced the hall floor with twelve-meter-long steel beams and heavy-duty slabs. This allowed the load to be distributed over the main beams and joists of the workshop.

The machine was then manually moved into the building using chains and grip hoists. This called for precise advance planning of the load distribution and the individual processes on-site in order to keep to the schedule. Every move needed to be perfect. The SCHOLPP fitters moved the machine tool into its installation position step-by-step and with millimeter precision. As specified in the contract, it was handed over to the researchers at IfW on time.

Customer:
Institute for Machine Tools (IfW), University of Stuttgart

Task:
Bringing in a machine tool (machining center)

Location:
Stuttgart, Baden-Württemberg

Special equipment:
12-meter-long steel beam for distributing the load in the building

Information:
industrie@scholpp.de

Schindler Deutschland AG & Co. KG, Berlin: Installation of moving walkways

Forging new paths for ALDI

SCHOLPP installed two new inclined moving walkways in the recently opened ALDI supermarket in the Prenzlauer Berg area of Berlin on behalf of Schindler Deutschland AG. Schindler is a world-leading manufacturer of moving walkways and has entrusted their installation to SCHOLPP for over 20 years. This time, the spatial conditions in the open building shell were convenient for bringing in the components, but the extremely tight time frame of just two days was a real challenge even for the experienced escalator team.

This project called for experience in order to meet the ambitious time frame: a timely construction site inspection, detailed dimensioning, precise technical planning and on-time logistics. This was complemented by the excellent product knowledge of the SCHOLPP team, who specialize in escalators and moving walkways. The two moving walkways were delivered in two parts each. The components weighed up to 6 metric tons and measured up to 12 meters long.

First, the bottom part was brought into the building shell and positioned using a 60-metric-ton mobile crane. The top part was then maneuvered into position in the air before being connected to the bottom part on the intermediate support with millimeter precision while still suspended. The connection process demanded total concentration from the team. The second moving walkway was installed in a similar way to the first.

Tight time frame, on-time handover

The spatial conditions in the building shell were optimal for this installation job. Nevertheless, the SCHOLPP fitters were under considerable time pressure: The moving walkways had to be installed on Friday afternoon, as the roof was going to be closed on Monday. The weather, the equipment and the entire team were in perfect harmony, resulting in a smooth project for ALDI and Schindler, completed by the requested deadline.

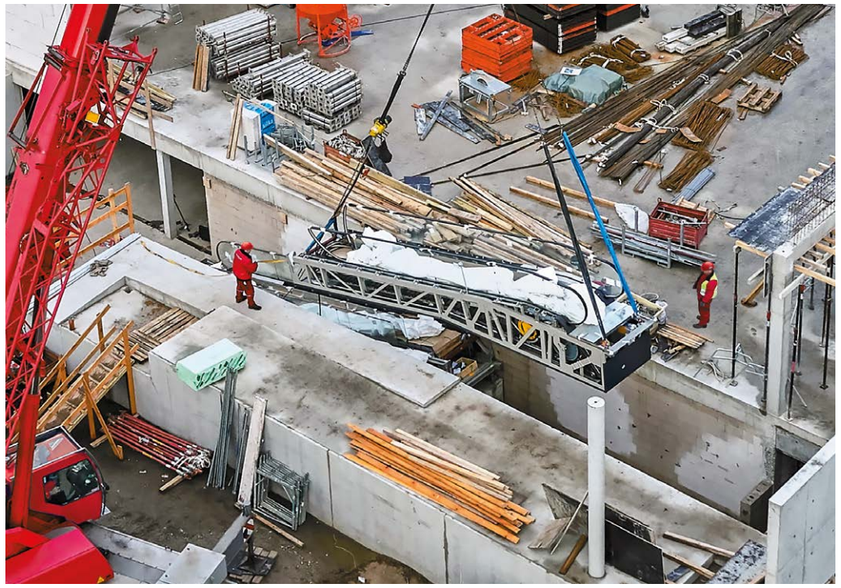
Customer:
Schindler Deutschland AG & Co. KG, Berlin

Task:
Bringing in and basic installation of two new moving walkways in an ALDI supermarket in Berlin

Location:
Berlin, Prenzlauer Berg

Special equipment:
Mobile crane for precise positioning and coupling of the suspended escalator parts

Information:
fahrtreppe@scholpp.de



TK Fahrtreppen GmbH, Hamburg: Dismantling and reinstallation of escalators

Rush hour in the shopping center

A home fixture for the Chemnitz installation team: Two escalators were being replaced on this project in the Chemnitz Center, the city's largest shopping center. The customer was TK Fahrtreppen GmbH from Hamburg. The popular shopping center, densely populated with retail outlets, had a number of logistical challenges in store for the fitters in the run-up to Christmas.

This particular project was a short commute for the escalator team: The construction site was just eight kilometers by highway from SCHOLPP's Chemnitz site. This was an advantage, as just two days had been set aside for dismantling the old escalators, with two days to install the new ones. Where possible, the work needed to take place outside the center's opening hours so as not to interfere with business operations and public transport. So every move needed to be perfect.

Despite their huge weight of seven metric tons, the old escalators were removed in one piece, which saved a considerable amount of time. However, the room for maneuvering the 13-meter length was extremely limited, as was demonstrated at the removal location and the store entrance and when contending with the low height of the shopping center entrance. Thanks to special transport technology, including the Manghi (a compact industrial crane) combined with a 6-metric-ton forklift, the team was able to pass through these narrow spaces quickly.

The new escalators were unloaded and transported using the same technology. The shopping center's Christmas market was also being set up during this time, causing further scheduling and spatial restrictions. The escalators were positioned and aligned using aluminum gantries with a high load capacity and synchronized electric chain hoists.

An experienced team, on-time logistics

Having delivery traffic, bus traffic and a flow of shoppers to contend, not forgetting the setup of the Christmas market and the tight spatial conditions, placed high demands on the installation and the implementation of safety precautions. The team completed the task professionally in the specified time," the project management team concluded.

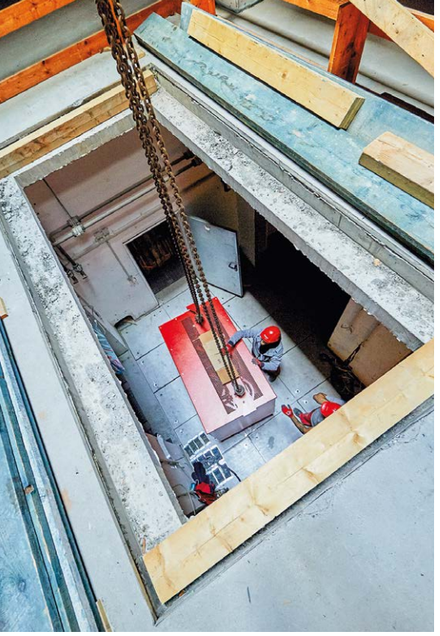
Customer:
TK Fahrtreppen GmbH, Hamburg

Task:
Removing two old escalators, bringing in and basic installation of two new escalators in a shopping center

Location:
Chemnitz Center, Chemnitz

Special equipment:
Manghi compact industrial crane for millimeter-precise maneuvering under load

Information:
fahrtreppe@scholpp.de



Kraft- und Lichtanlagen GmbH, Rüdersdorf: Bringing in transformers

Electrical engineering for parliament buildings

Installation in Berlin's government district: The components for an electrotechnical system needed to be brought into a functional building of the German Bundestag. SCHOLPP was commissioned to carry out this project by the system manufacturer Kraft- und Lichtanlagen GmbH from Rüdersdorf near Berlin. The space available for maneuvering the components in the basement was tight, so the fitters had to come up with a couple of clever transport tricks.

The company Kraft- und Lichtanlagen GmbH produces transformer stations and energy technology solutions, and connects them to the grid. Another of its key areas of expertise is the technical, economical and environmental optimization and modernization of lighting systems. The SCHOLPP team in Berlin has already carried out a number of projects for the Rüdersdorf-based electrical specialist.

On this project, an extension building of the Marie-Elisabeth-Lüders-Haus (MELH) was to be given new electrotechnical equipment. The MELH is the German parliament's information and service center and houses, among other things, the parliamentary library and archive as well as specialist scientific services.

A total of 75 switchgears and four transformers (each weighing roughly 4.3 metric tons) were to be transported into the building by the SCHOLPP team and then positioned. A ground-level opening in front of the building was used to lift the plant directly into the second basement floor using the mobile crane.

The transport in the basement was a rather tricky matter. The low ceiling height meant that the plant had to be turned on its side for maneuvering before it could then be set upright again at the installation position. This is where the tried-and-tested SCHOLPP equipment came in: compact aluminum gantries, flexible lift trucks and a high-platform truck. With excellent timing, all of the plant was brought into position in several one-day installations.

Customer:
Kraft- und Lichtanlagen GmbH, Rüdersdorf near Berlin

Task:
Bringing in electrotechnical equipment (switchgears for low-voltage and medium-voltage plant as well as transformers)

Location:
Berlin

Special equipment:
Aluminum gantries with high load capacity and low dead weight

Information:
industrie@scholpp.de

ELHA-MASCHINENBAU Liemke KG, Hövelhof: Bringing in a low-bed milling machine

42-point precision landing with a lifting gantry

Handled with experience: A steady hand was needed for this project for ELHA-MASCHINENBAU Liemke KG. A new low-bed machining center with a total weight of 90 metric tons needed to be brought into the TRUMPF factory building at its site in Haguenau, France. As well as having the heavy weight to contend with, successful positioning was dependent on precisely approaching 42 ground anchors in the foundation pit. The challenge was taken on by an experienced SCHOLPP lifting gantry operator.

ELHA produces drilling centers, milling centers and transfer centers for the high-production machining of metal parts. The SCHOLPP team was tasked with bringing in a new low-bed milling machine at TRUMPF's factory within 14 days. ELHA delivered the machine in three components: table (35 metric tons), cross table (30 metric tons) and stands (25 metric tons).

Positioning with the lifting gantry

The first step involved transporting the table within the factory dispatch hall using overhead cranes. At the junction to the production hall, the component was set down onto a Robot 40 self-driving heavy-duty transport trolley and transferred to the TG 320 lifting gantry. This was the key piece of equipment for this installation project and was responsible for lowering the table into the pit.

The utmost care was now required: 35 metric tons needed to be positioned on 42 fixing anchors – the equivalent of threading 42 pieces of yarn through 42 sewing needles at the same time. This was a task reserved for one of SCHOLPP's most experienced lifting gantry operators. In an atmosphere of tense calm, the milling table was lowered: a 42-point precision landing. This was followed by the cross table and stands.

Customer:
ELHA-MASCHINENBAU Liemke KG, Hövelhof/North Rhine-Westphalia

Task:
Bringing in a low-bed machining center with a total weight of approx. 90 metric tons

Location:
Haguenau/France

Special equipment:
TG 320 hydraulic lifting gantry with 4 posts and 60-meter transport rails for precise placement of the plant in its final position

Information:
maschinenbau@scholpp.de

Great praise from the customer

Only a few fitters have mastered using a lifting gantry for such precise adjustment with this level of assurance – brilliant work, as customers ELHA and TRUMPF acknowledged.

Koenig & Bauer Digital & Webfed AG & Co. KG: Installation in the printing industry

Web-offset press installed in nine weeks

Expertise is the most important factor here: Web-offset presses are complex systems comprising a wide range of components extending over multiple levels. Installing these machines correctly and in an economically efficient manner requires excellent technical expertise. Koenig & Bauer has been working with SCHOLPP for over 20 years. This time, the team at the Erfurt site were commissioned to bring in and install a new Commander CL at MZ Druckereigesellschaft in Halle (Saale).

Customer:
Koenig & Bauer Digital & Webfed AG & Co. KG, Würzburg

Task:
Bringing in and assembling a Commander CL web-offset rotary printing press from Koenig & Bauer

Location:
Halle (Saale)/Saxony-Anhalt

Special equipment:
Modular-design cable gantry for project-specific installation solutions that can be perfectly adapted to the goods being installed and the spatial conditions

Information:
print@scholpp.de

Koenig & Bauer from Würzburg is the world's oldest printing press manufacturer (founded in 1817). MZ Druckereigesellschaft Halle (Saale), which has been part of the Bauer Media Group since 2020 and produces the daily newspaper Mitteldeutsche Zeitung, had ordered a new Commander CL web-offset rotary printing press.

The transport list of all the components and attachment parts of the press, which weighs roughly 200 metric tons in total, was no fewer than four pages long. It took 18 transport loads of up to 27 metric tons to deliver the printing press. The heaviest parts were the two printing units, weighing 25.8 metric tons each, and the folder, weighing 15.7 metric tons.

Installation right through to operational
The SCHOLPP team attended to the unloading of all the components with the mobile crane, as well as the bringing in, positioning and alignment. There were no spatial restrictions. The challenge lay instead in the building's structural engineering. The basement level and the reel splicer level needed to be braced in order to reduce the load on the floors during internal transport.

SCHOLPP also provided mechanical and electrical support for the installation. The SCHOLPP electricians then inspected the electrical installation in preparation for initial start-up by Koenig & Bauer. The complex project was completed on schedule in just nine weeks.

Koenig & Bauer Digital & Webfed AG & Co. KG: Relocation of a printing press

Making space where there is none

Tight, tighter, not going to fit? But it is: This project involved relocating a Colora printing press from Koenig & Bauer. The offset rotary printing press for newspaper printing was to be dismantled at Schenkelberg Stiftung & Co. KGaA in Meckenheim and then reinstalled at Druckzentrum Schleswig-Holstein in Büdelsdorf. Due to the tight spatial conditions at both sites, the fitters were fighting for every last millimeter when maneuvering the press.

Relocating requires rhythm
The dismantling work in Meckenheim was put in the experienced hands of SCHOLPP's Erfurt team. Building services, air-conditioning systems and stairs needed to be skilfully avoided using appropriate installation solutions. All of the parts were carefully packaged, put into intermediate storage and transported to Büdelsdorf for installation in line with the "just in time" system. 26 truck loads set off on the 550-kilometer-long journey. The heaviest parts were the two printing units (27.5 metric tons each), the two folders (12.0 metric tons each) and the four reel splicers (8.0 metric tons each).

The reinstallation was performed under the watchful eye of the Koenig & Bauer supervisor, a form of collaboration that has proven its merits over many years.

Watch out: things are getting tight!
For cost reasons, the parts couldn't be brought in via the roof, and there was only one small door left in the hall, which proved to be a real "eye of the needle" situation: It measured 2.38 meters high. The team was fighting for every last millimeter.

The folders therefore had to be dismantled into smaller parts than usual. A tandem lift was then performed with two overhead cranes to position the parts. A safety expert from the crane manufacturer was also on site to oversee the challenging maneuver. A flexible cable gantry was modified to reduce its height. The right equipment and the expertise came together to make what had seemed impossible possible.

When completely assembled, the printing press measured over 31.0 meters in length, 6.0 meters in width and 13.0 meters in height. In 12 weeks, the fitters had brought in components with a total weight of over 100 metric tons. SCHOLPP carried out all of the work right through to the electrical installation testing and handed the plant over well prepared for the subsequent initial start-up.

Customer:
Koenig & Bauer Digital & Webfed AG & Co. KG, Würzburg

Task:
Relocating a web-offset printing press

From:
Meckenheim/North Rhine-Westphalia

To:
Büdelsdorf/Schleswig-Holstein

Special equipment:
Machine transport cart with a small turning radius for internal transport into the final machine position

Information:
print@scholpp.de

R+W Antriebselemente GmbH, Wörth am Main: Factory relocation

100,000 parts in five days

It seemed impossible at first glance, but SCHOLPP made it happen: During the relocation of R+W Antriebselemente GmbH, a large number of components needed to be dismantled, transported and reinstalled within an extremely short time. The target was met thanks to detailed planning, methodical staffing and close cooperation with the customer.

The largest components, seven machining centers, weighed up to 10 metric tons and measured up to 4.5 x 2.5 meters. The SCHOLPP team was responsible for the dismantling, loading, transportation and reinstallation of the machinery.

Years of experience, good organization and methodical logistics

The relocation list also included multiple smaller machines, manual workstations, production equipment and computer workstations. There were around 100,000 items on the packing list in total. Keeping an overview of the tasks in hand was an organizational challenge, because R+W was conducting a stocktake at the same time as well as switching to a new warehousing system.

The large number of small parts called for particular skill on the part of the fitters and required a lot of manual work. It was very important to keep an overall overview and to handle all of the parts in a logistically sensible manner. "Completing a job like that in such a short space of time requires a lot of experience," was how the SCHOLPP project management team summed up the challenges.

Customer impressed by the team's dedication

A team of 24 people worked on the project in a two-shift system and completed the relocation in just five days. SCHOLPP ensured that all machines could be commissioned simultaneously at the new factory, and the customer was impressed that the team managed to stick to the schedule so precisely – a sensational team performance.

Customer:
R+W Antriebselemente GmbH,
Wörth am Main

Task:
Factory relocation

From:
Klingenberg/Bavaria

To:
Wörth am Main/Bavaria

Special equipment:
Heavy-duty trolleys for transporting loads inside the production hall

Information:
Industrie@scholpp.de

Schneeberger GmbH, Höfen an der Enz: Internal relocation

In sync with production

Never stop a running system: When it comes to installation projects in industrial facilities, it's not always possible to simply stop production at a factory, which is why it's important for the industrial service provider to have good planning expertise. This was the challenge posed by the job that SCHOLPP was commissioned to perform by Schneeberger GmbH in Höfen an der Enz, near Pforzheim. A number of machines needed to be relocated within the factory.

Schneeberger is one of SCHOLPP's long-standing customers. The company's product portfolio includes linear guideways and profile-rail guideways as well as measuring systems, gear racks, slides and positioning systems. The equipment is delivered to customers in the machine tool industry, the semiconductor, electronics and solar industries, the testing and measuring industry and the medical technology industry.

Transport solution for tight spatial conditions

The transport list included six long-bed grinding machines (each weighing 22 metric tons and measuring 14 meters in length) and three machining centers (each weighing 24 metric tons and measuring 6 meters in length). The machines needed to be removed from an old factory building and brought into a new facility. However, the machine dimensions meant that it was not possible to take the shortest route across the company premises. The only solution was to transport the machines 400 meters down a public road.

The project involved typical steps for machine relocations: dismantling and removal, loading and transportation, unloading and internal transport, positioning and providing support for the reinstallation. During the installation phase, the SCHOLPP team was responsible for ensuring that the exact machine geometry was restored. The length of the machine meant that a lot of skill and sensitive handling were required.

Tightly scheduled relocation during ongoing production

The entire process needed to be carried out in parallel with ongoing production. Schneeberger specified both the sequence of work for the machine relocations and the time frame. All of the work was adapted to the production rhythm, and all the deadlines were met thanks to close cooperation, precise scheduling and good organization.

Customer:
Schneeberger GmbH, Höfen an der Enz

Task:
Internally relocating
long-bed grinding machines and
machining centers

Location:
Höfen an der Enz, Baden-Württemberg

Special equipment:
VALLA electric in-plant crane for moving loads of up to 25 metric tons in closed production areas

Information:
maschinenbau@scholpp.de

WAREMA Renkhoff SE, Marktheidenfeld: Relocation of a workshop

Expertise in air-conditioning technology

The more individual parts, the more crucial organization is: Every customer wants the relocation of a works or part of a factory to go as quickly as possible. There should be only a short downtime period; the technical equipment should reach its destination intact and be put back into operation quickly. On a project for WAREMA Renkhoff SE, SCHOLPP relied on all of its experience to relocate a development workshop, along with all of its sensitive air-conditioning technology, to a new site.

WAREMA in Marktheidenfeld, located between Aschaffenburg and Würzburg in Bavaria, produces solar shading products and associated control systems for buildings. Over recent years, SCHOLPP has successfully completed several projects for WAREMA involving the bringing in of machinery. This project called for the relocation of the entire development workshop and the associated materials warehouse from Marktheidenfeld to the Dillberg area four kilometers away. The job was performed by the installation team from the nearby SCHOLPP headquarters in Dietzenbach, near Frankfurt am Main.

Quick, coordinated, smooth

The transportation of the extensively equipped workshop was completed in just five days: from removing the equipment and loading it onto trucks at the old site right through to bringing it in and positioning it at the new site. The team transported 16 machines, technical equipment and plant as well as all of the accessories and attachment parts. The machinery included machine tools such as aluminum and steel saws, lathes, milling machines, hydraulic presses and drilling presses. A welding machine, a wind load test bench, a climatic chamber and a cold chamber figured among the equipment and plant transported. The heaviest component weighed three metric tons, and the largest part measured 2.0 x 4.0 meters.

Air-conditioning technology securely fixed in position

Particular care was required when handling the sensitive climatic and cold chambers during transportation. To this end, the SCHOLPP fitters opted for a fixing solution that had proven its merits during other projects and that involved using various tension belts and additional special measures to secure the load. SCHOLPP has a lot of expertise when it comes to the transportation and bringing in of air-conditioning technology. The relocation was completed in line with the customer's specifications and on schedule in just five days.

Customer:
WAREMA Renkhoff SE, Marktheidenfeld

Task:
Relocating a complete development workshop within a district

Location:
Marktheidenfeld/Bavaria

Special equipment:
Forklift for easy transport of loads on flat surfaces

Information:
industrie@scholpp.de

Dresdner Kühlanlagenbau GmbH: Installation of chillers

Cranes in tandem lift

A stone-cold success: The transportation and installation of cooling systems is part of routine operations for SCHOLPP. For many years, the company has been deployed all over Germany by several leading manufacturers of cooling systems. Nevertheless, this job for Dresdner Kühlanlagenbau GmbH went far beyond the routine for the SCHOLPP fitters. It involved heavy-duty system components, a complicated building opening on the upper floor as well as frosty temperatures.

The new Globus store in south Chemnitz had ordered a cooling system from the refrigeration specialist based in Dresden. The system is intended to keep food fresh at the store in the future. SCHOLPP completed the project to bring in the cooling system in winter. Temperatures were icy on all three days of the installation.

Complicated maneuvering

The first and most difficult task on the agenda involved bringing in a multi-compressor refrigeration system. Measuring approximately 5 x 2.5 meters and weighing 4 metric tons, the unit was to be transported into the upper floor via an installation opening. The height of the unit and the tight dimensions weren't the only things making this job such a challenge; it was made even more complicated when these two factors were combined with the location of the opening and the space available for setting up the crane.

The SCHOLPP team therefore decided on a tandem lift. The 50-metric-ton mobile crane first lifted the system up to the building opening. This process was coordinated by a specialist fitter on a lifting platform, with an additional fitter positioned inside the building. The unit had to be maneuvered up close to the narrow opening with no pendulum movement and then set down on heavy-duty moving skates.

Tandem lift with truck-mounted crane and loading crane

This procedure pushed the range of the mobile crane to its limits. Now a special loading crane with a crane arm capable of operating in restricted spaces took over. The specialist fitter on the lifting platform strapped the system to the loading crane and released it from the hook on the mobile crane. The variable loading crane lifted the unit and slid it safely into the building on the heavy-duty moving skates.

The SCHOLPP team subsequently unloaded other components onto the building roof using the mobile crane and then spent two additional days transporting control cabinets into the upper floor using a telehandler. All the components reached their final installation position by the required deadline and have been reliably performing their ice-cold daily work ever since.

Customer:
Dresdner Kühlanlagenbau GmbH, Dresden

Task:
Bringing in and installing chillers and cooling systems at the Globus store in Chemnitz

Location:
Chemnitz/Saxony

Special equipment:
Loading crane for handling loads in confined spaces

Information:
industrie@scholpp.de

TFT Thüringer Fiber-Trommel GmbH, Rositz: Internal machine relocation

Pinpoint calibration during reinstallation

A precisely executed job: The SCHOLPP team from the nearby Leipzig site was commissioned by TFT Thüringer Fiber-Trommel GmbH in Rositz to relocate a 25-metric-ton parallel winder within the company premises. This machine is part of a production line for special paper products, which the medium-sized, family-owned company delivers all over the world. The project placed high demands on the installation team's mechanical and electrical expertise.

Customer:
TFT Thüringer Fiber-Trommel GmbH, Rositz

Task:
Internally relocating a parallel winder for the production of special paper products

Location:
Rositz/Thuringia

Special equipment:
Machine transport cart with a load capacity of up to 60 metric tons for moving heavy loads on different surfaces

Information:
industrie@scholpp.de

This was the second project that TFT had placed in the capable hands of the SCHOLPP fitters, who have an extensive knowledge of the paper industry. The parallel winder, weighing 25 metric tons and measuring 25 x 5 meters, couldn't be transported intact due to space reasons and instead had to be dismantled into six separate components: unwinders, material accumulator, rewinders, stacker, protective guards and accessories. Measuring 4 x 3 meters and weighing 8 metric tons, the largest component was the unwinder.

Before dismantling, the fitters documented the condition of the machine. It was then dismantled mechanically, electrically and hydraulically. Transporting the components out of the hall through the roller door required millimeter precision. The fitters used the mobile crane (60 metric tons) to lift the parts to the factory yard via a 3.50-meter-high ramp. A forklift (13.5 metric tons) and a machine transport cart (60 metric tons) then transported the parts around 100 meters along the factory site to the second hall.

High-quality measurement technology for reinstallation

The components were brought into the building via a ramp. The protruding cat-slide roof meant that an unloading platform was needed in front of the ramp. Thanks to high-quality measurement technology, the SCHOLPP fitters were able to carry out the electrical, mechanical and hydraulic reinstallation to exactly the X-Y main axis coordinates specified by the customer. As a result, the machine was handed over to the customer in operation-ready condition.

Murrelektronik GmbH, Stollberg/Saxony: In-factory machine relocation

One day of downtime per machine

Complex project successfully completed thanks to good communication: The company Murrelektronik GmbH in Stollberg had a challenging job for the SCHOLPP team from Chemnitz, just 15 kilometers away. A total of 292 machines, production plants and workstations needed to be relocated to a new factory building. The challenge lay in the fact that this all needed to be done during ongoing production. The customer also specified that the downtime should be limited to just one day per machine.

Murrelektronik is a medium-sized family company with sites all over the world. It supplies solutions for automation technology as well as for electrical and electronic machine and plant installation. The Stollberg site was having an extension built as part of measures to optimize production.

There was a lot of variety within the 292 machines, plant and workstations: cut-to-length lines for cables, automatic placement machines, automatic crimping and assembly machines, cable unreeling racks, laser and printing systems for labels, logistics and installation workstations, injection molding machines and packaging systems. The individual components weighed up to 5 metric tons, with maximum dimensions of 3.5 meters in length and 3.0 meters in height.

Timing and communication: the keys to success

For this project, it was important to discuss the exact procedures followed during production operation in advance. These talks resulted in a decision that there should be five project phases of one week each, with each phase carried out in parallel with ongoing production. Before starting work, the teams defined which machines needed to be relocated and within what time frame.

The team needed to stick exactly to the timings and remain on top of the large number of machines to be moved each day. Murrelektronik had specified that the downtime should not exceed one day per machine. Thanks to its many years of experience, the team from SCHOLPP's Chemnitz site was able to ensure that this ambitious project was completed as planned.

Customer:
Murrelektronik GmbH, Stollberg

Task:
Internally relocating 292 machines, plants and workstations

Location:
Stollberg/Saxony

Special equipment:
Various heavy-duty trolleys for the in-factory transportation of machinery with a wide range of loads and dimensions

Information:
industrie@scholpp.de

Heckert Solar GmbH, Chemnitz: Transport in the solar industry

Good timing with two teams

Neighborly assistance right around the corner: This operation took place just 400 meters from the SCHOLPP site in Chemnitz. Photovoltaic module manufacturer Heckert Solar GmbH had production technology it needed to bring in and remove. SCHOLPP works as an installation partner for this customer on a regular basis, and this particular job involved three vacuum laminators plus accessories. Two teams worked in parallel to save time.

Customer:
Heckert Solar GmbH, Chemnitz/Saxony

Task:
Removing and bringing in vacuum laminators

From:
Bitburg/Rhineland-Palatinate

To:
Chemnitz/Saxony

Special equipment:
Crane crossbeam for flexible lifting of loads with mobile cranes

Information:
info@scholpp.de

Five days were scheduled for removing the plants at Bitburg/Rhineland-Palatinate, transporting them to Chemnitz and bringing them into Heckert Solar. The SCHOLPP team had the following general cargo on the packing list: three vacuum laminators (12 metric tons and 5.5 x 3.7 meters each), control cabinets and two pump stands (up to 1.6 metric tons each) as well as infeed and outfeed tables (1.0 metric ton each).

The process was planned as follows: The first step involved removing two laminators and accessories in Bitburg and transporting them to Chemnitz, with the removal of a laminator in Chemnitz taking place in parallel. This old device was brought to an interim storage site so that spare parts could be salvaged. In the next step, the fitters brought one of the laminators from Bitburg into the Heckert premises in Chemnitz. The second laminator from Bitburg was also put into intermediate storage.

Teams working in parallel

The work in Chemnitz required an opening in a hall wall, since the laminator's position was a large distance away from the hall doors. Too many machines would have had to be moved for lateral transportation. The small step between the level in front of the hall and the floor of the hall was easily overcome using a mobile crane, a special crossbeam and heavy-duty moving skates. Two SCHOLPP teams worked in parallel in order to meet the schedule, much to the delight of the customer.

Bringing in two large wooden artworks in Schwerin

Transporting works of art

Big but sensitive

Art comes from skill – and not only according to the proverb. It's also true that a lot of expertise is required to transport works of art. As large as works of art may be, they are usually very sensitive due to their high-quality materials and fragile constructions. For this reason, art transportation requires real precision when it comes to moving the artworks and securing the load.

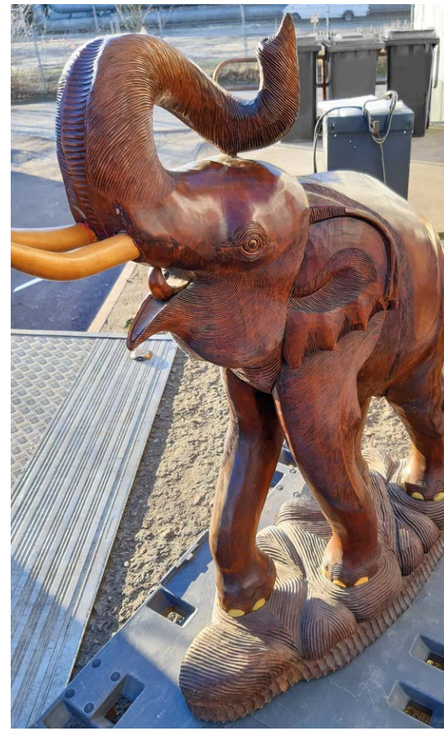
One special feature of valuable objects of art is often the extremely precious materials. If the transportation is taking place in the cold of winter or on a hot summer's day, the transport climate plays a crucial role. Consistently mild temperatures need to be guaranteed for the load in the truck, for instance by using air-conditioning units and special packaging produced specifically for this purpose.

Load secured with padding

When securing the load, there are often several prerequisites that need to be considered. With smooth surfaces, there is the risk of tension belts slipping off. It is essential to avoid this when attaching the belts, especially since some parts of the objects would then be exposed to the risk of breaking off. The SCHOLPP fitters avoid rubbing and scuffing fine surfaces by having tried-and-tested, non-slip padding material at the ready. Once well stored and secured, the artworks then set off on their journey. Any vibrations during the journey can be documented with measuring instruments.

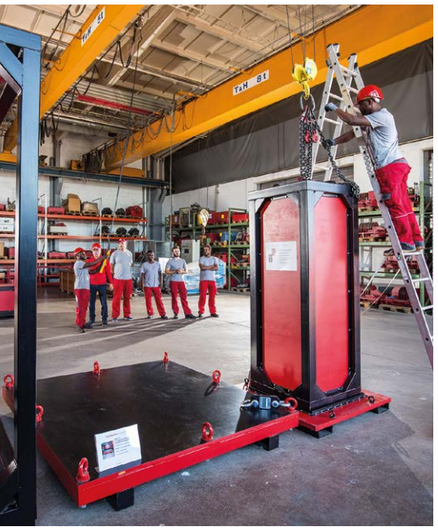
Appreciation and expertise

Special transport goods call for special appreciation. This is something that all SCHOLPP employees are conscious of, day in, day out. All fitters receive regular training in the professional handling of sensitive goods such as works of art, added to which they have many years of experience with these special requirements.



SCHOLPP's Bremen team relocates sensitive mahogany elephants

Excellent Employees for the Industry



The SCHOLPP Academy opened in June 2019. Since then, staff from all functional areas have been trained in lifting technology and transportation on special employee development courses. The goal of using training to strengthen SCHOLPP's competitiveness in the long term has been pushed forward since summer 2021 with a new initiative to recruit skilled workers. The aim here is to train career changers from the skilled trades and industry as installation specialists.

With SCHOLPP's new training initiative, career starters and career changers are able to become globally sought-after installation professionals. This takes around 12 to 15 months of individual and practical training, with much of the learning taking place on the job. With a large helping of practical experience, we are forging a new generation of specialists in the transportation of heavy loads and the installation of machines.

Rapid integration into the team.
To make it easy for motivated career changers to get started at SCHOLPP, not only do we ensure a welcoming culture at all our sites, but we also have the SCHOLPP Academy. Here the basic knowledge and essential skills are imparted in a very condensed way. In close coordination with the Chamber of Commerce and Industry, many educational modules have been developed and offered under the slogan "Topics. Technology. Teamwork."

Be a master hand. Become a specialist.
The new employees – just like our existing workforce – are trained in mechanics, electrical engineering and occupational safety: forklift driving, rigging loads, operating cranes and lifting gantries, transport systems and securing loads, as well as air-conditioning and refrigeration technology. We have designed and built special training stations to provide a practical education in the wide range of installation and transport situations that we deal with. Here future fitters can safely learn how to correctly rig loads with unequal centers of gravity and when the goods will tip over when transporting control cabinets on practice relocations.

Fleur Pahl
Authorized signatory

Angela Kermer
Authorized signatory

Securing knowledge over the long term

With our skilled worker initiative and the SCHOLPP Academy, we are ensuring the long-term expansion and transfer of knowledge over generations. When employees retire, we do not lose any specialist skills, as our well-trained young professionals move up the ladder in their place.

With this model, each trainee can experience various projects and industries, such as the installation of escalators, printing presses or presses. This is our way of developing clear occupational profiles: Do you want to work as a service technician, fitter or rigger? Everyone is able to find out where their strengths lie.

Our Excellent Employees for the Industry strategy for recruitment, training and retention directly benefits not only us as a company, but also all of our customers: The teams maintain a high level of specialist expertise and installation quality, and occupational and general safety is guaranteed on projects at all times.

Fleur Pahl, authorized signatory, responsible for industrial human resources

New at SCHOLPP:

Hartmut Kleinfeldt is the new Safety Engineer for the SCHOLPP Group. He brings to the role many years of professional experience in logistics, load securing and heavy installation. His role includes planning and optimizing all safety-related project processes. He monitors the legal requirements for occupational safety on construction sites, prepares risk assessments and conducts safety training.

Hartmut Kleinfeldt
SCHOLPP Safety Engineer

Our strength comes from our values

Diversity: Equipment for every task.
Those who promise their customers that they are ready to go into action anywhere, anytime, need to be prepared – with the right equipment. For the majority of projects, we have what we need in our fleet of technology, or we will organize it at short notice. Drawing on over 60 years of experience and our expertise in finding technical solutions, we make efficient and economic use of cutting-edge technology on every task. This is how we create value for our customers.

Openness: Employees for every kind of expertise.
Industry is dynamic. It is being transformed by digitalization at breathtaking speed. Well-trained staff approach new tasks with confidence and an open mind. That is why we foster a culture of openness in our team so that we as a company can keep on adapting to new technologies, new production contexts and new industrial environments. This is the source of our expertise.

Continuity: Quality for all time.
We always provide a high level of quality and safety to our customers. The best technology and capable staff guarantee this. It is the hallmark of our strength and market-leading position in the regional, national and international installation business. This high standard is our guiding principle. We work every day with diligence and enthusiasm to make it a reality. Knowing you can count on this is what makes us reliable.

SCHOLPP – We keep industry moving.

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