

Method

HIAB

Method No. 27

A magazine featuring the HIAB Method and its applications



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HIAB METHOD No. 27

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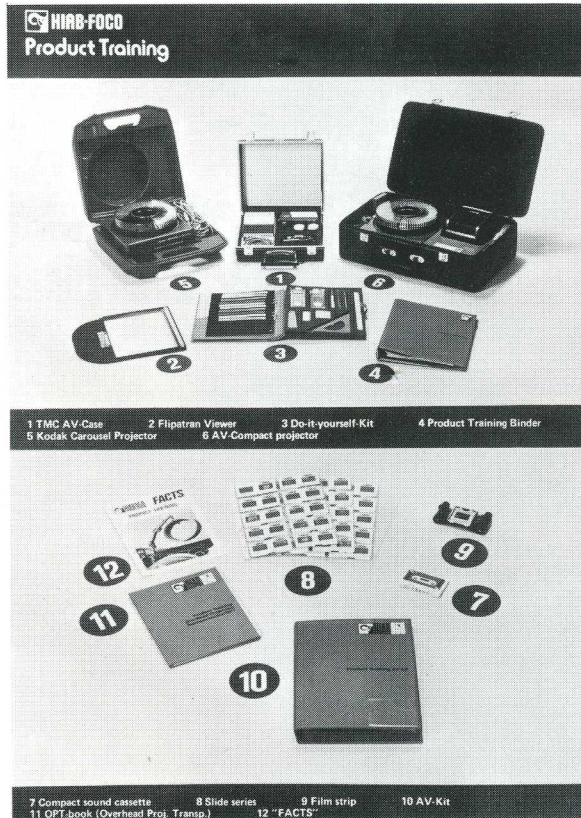
Cover

Roofing tiles are efficiently handled by a HIAB 550 with a rotator and a special grab, seen here shifting three 180-kg shrink-foil packs. The outfit belongs to Dachdecker-Einkauf, of Alhem, West Germany.

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Information on Tap

During the thirty years, very nearly, that HIAB-FOCO has been busy solving handling problems and simplifying and rationalising transport jobs of various kinds, a considerable fund of experience and expertise has accumulated within the firm. One of the most important tasks of HIAB-FOCO is to spread this knowledge around so that the customers will get the benefit of it. "Method" is one of the means to this end. Brochures, advertisements and other printed information serve the same purpose. But most important of all is the personal contact between the customers and the "HIAB Men" - salesmen, servicemen, instructors and experts on the HIAB Method in its many forms.

But before a HIAB Man can pass any information on to his customers he has to be informed himself - whether he's new to the business or a veteran of the HIAB Method's breakthrough. Things change fast in the HIAB Man's world. New problems, demanding new solutions, crop up almost daily, while at the same time HIAB-FOCO's designers are turning out a steady stream of new loaders and new accessories to go with them. The sheer volume of facts and figures that has to be got out to every

HIAB Man in the field has grown so great that the firm's internal information people are constantly having to resort to new devices.

The latest addition to the arsenal of aids that HIAB-FOCO employs for this purpose is an extensive range of product-training material. Suitable both for sales conferences and courses and for private study, this material forms a veritable concentrate of HIAB-FOCO's accumulated know-how and is now being distributed to all sales outlets of the firm. Using slides, printed information, overhead-projection material, audio tapes, films, etc., every type of loader in the HIAB-FOCO range is dealt with. The material does not confine itself to the facts of design, function and performance - it also ties them in with all the tasks the loader is likely to have to tackle. Mounting alternatives, ancillary equipment and attachments, stability matters . . . all the facts the customer might conceivably need are at the HIAB Man's fingertips in his product-training material. At the time of writing, complete sets are available for the 345, 550, 765 and 950 loader models, and work is in progress on the rest of the range.

As soon as an oil spill is discovered, the Vikoma Seapack is launched in the nearest port and towed to the scene, where the boom is paid out.



BP Brings in the HIAB Method to Fight OIL ON TROUBLED WATERS

The Torrey Canyon disaster in 1967 put the whole world on notice about the risks involved in oil movements by sea. At that time, no one had any experience of tackling big oil spills on the high seas — still less any tried and tested equipment for the purpose.

The Seaskimmer, which weighs about a ton, is handled with ease and safety by the HIAB 950. This picture shows the equipment installed on a special vessel, but the loader and its power pack are supplied as a unit which can be put aboard any suitable vessel.

British Petroleum set about the problem of developing a system that would be capable both of preventing further spread of oil slicks and of recovering the oil from the water. In order to permit rapid deployment such equipment must not be dependent on specially designed ships, but must be



capable of working off whatever vessels are close to hand. At an expenditure of about £400,000 in development costs, BP has now evolved a system, named Vikoma, that has been tested out under a variety of conditions at different points around the globe.

The system is based on two specially designed units, the Vikoma Seapack, which is a boom used to encircle the oil, and a recovery unit, the Vikoma Seaskimmer, and one standard component, the HIAB 950. The whole equipment can be handled by a tug or other suitable vessel, and can be transported overland by road trailer.

Rapid Deployment

The Vikoma Seapack consists of a 23-ft. plastic hull containing nearly 500 metres of folded oil boom together with equipment for filling it with air and water. When an oil slick is discovered, the Seapack is launched in the nearest harbour and towed out to the slick. Once on the scene, the towing vessel launches a drogue which opens a hatch at the back of the Seapack hull and then pulls the boom out as towing continues. At the same time, compressed air from a cylinder inflates the "cuff", a small tube along the top of the boom. This prevents the still uninflated boom from getting twisted during deployment.

When the whole boom has been paid out - which takes less than fifteen minutes - a diesel-powered pump rig is automatically started and delivers air to fill the large central chamber of the boom - 70 cm in diameter - and

water to fill the lower chamber, which has a diameter of about 45 cm. The boom now rides erect in the water and stands about 75 cm above the surface.

A boom of this type can encircle about a thousand tons of oil. Thanks to its design, featuring a water-filled ballast tube and a large inflated flotation tube, the boom is capable of containing the oil even when waves more than two metres high are running.

100 Tons an Hour

The Vikoma Seaskimmer collects the oil using 80 vertical discs, arranged in the Seaskimmer rather like a thinly sliced ring-shaped loaf of bread, allowing oil to enter the pick-up area from all directions. The hydraulically powered discs rotate in the oil, which adheres to their surface and is carried up into the Skimmer. The oil is wiped off in the Skimmer and collected in a sump, from which it is pumped into a tanker or other transport container. The Skimmer has a capacity of about 100 tons an hour in the case of crude oil. It can deal with lighter fractions too, though at a lower rate.

The recovery equipment includes a HIAB 950 with a winch for handling the Seaskimmer together with the motor and hydraulic pump that provide pressurised oil for the Skimmer and the loader. The motor and loader are mounted on a single bedplate so that they can easily be moved and put aboard the first available vessel of suitable size.

When the Skimmer has been lowered by the loader into the oil it is possible, thanks to the winch, to let it drift away from the vessel a bit. This avoids the risk, when there is a sea running, that the boom might be borne down or damaged by the Skimmer or the side of the ship.

The Swedish Coastguard Service, which tested the Vikoma system as early as 1972, considers it to be a very effective and easily handled set of equipment permitting very fast counter-measures to be taken against oil hazards. At the time of writing there are already three Seaskimmers on station in Stockholm, Gothenburg and Malmö, together with a number of Seapacks. And more equipment is on order. A number of other undertakings in the oil business, such as the Scanraff refinery and the oil prospecting company Opab, are also planning to buy Vikoma equipment. ■ 1

A Mobile Crane at a Bargain

Mr. Denis McAdam had a problem. He's the South of Scotland Electricity Board's Area Transport Superintendent, and he needed a lifting machine for handling heavy electrical matériel at the Board's depot in Galashiels, 50 miles south-east of Edinburgh. The problem was that the storage yard has very little space and has a covered stream beneath it which imposes a weight restriction.

But Mr. McAdam is not unfamiliar with the HIAB Method. The Board already has more than twenty HIABs on its lorries. It also had a JCB tractor which it was about to sell.

"What's to stop us putting a HIAB on the tractor?" Mr. McAdam asked himself. And he took the idea to the HIAB agents, Hydraulic Cranes (Scotland) Ltd. They had no great trouble putting it into practice. After taking the back acter off the JCB and fitting a heavier chassis they mounted a HIAB 950

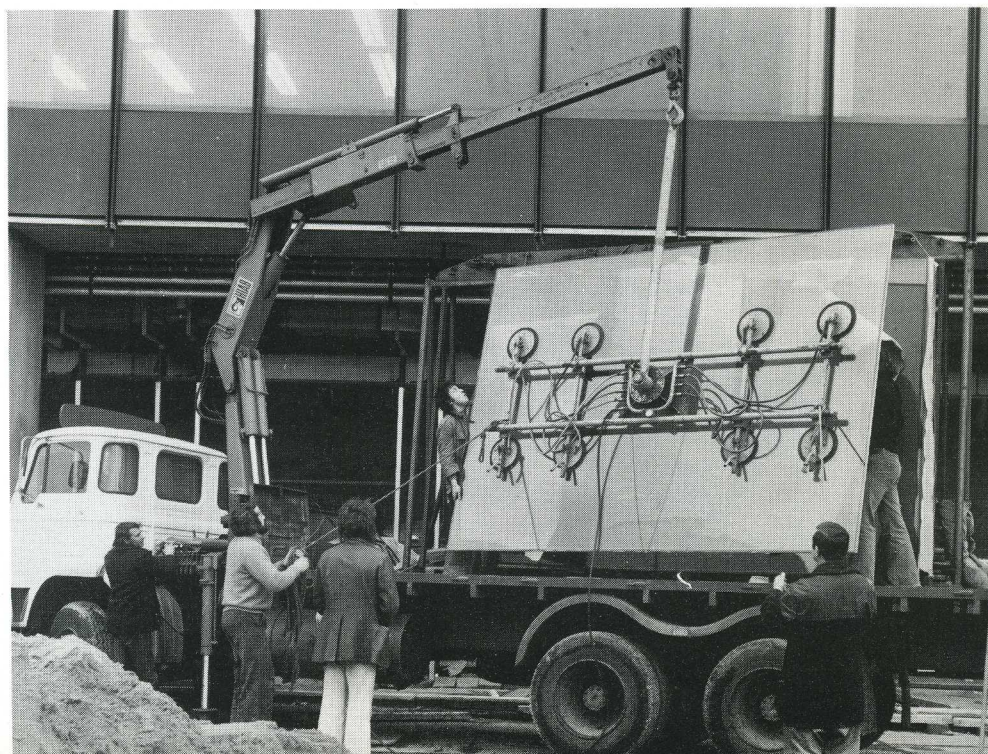
complete with outriggers. The controls were installed in the tractor cab, which was fitted with a transparent roof to give the operator all-round visibility. They also put in a spirit level, so that the operator can check whether the machine is horizontal on its outrigger legs, along with a drawbar and trailer so that the tractor can travel with a load.

The somewhat unusual combination proved a great success.

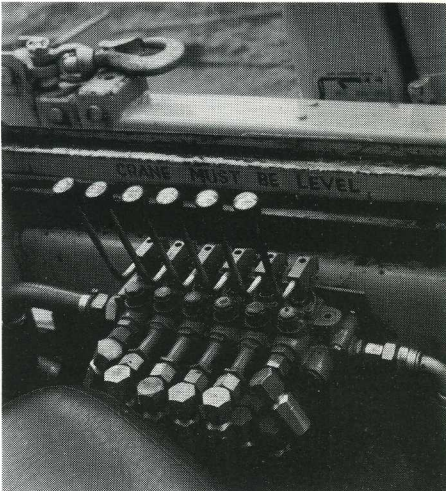
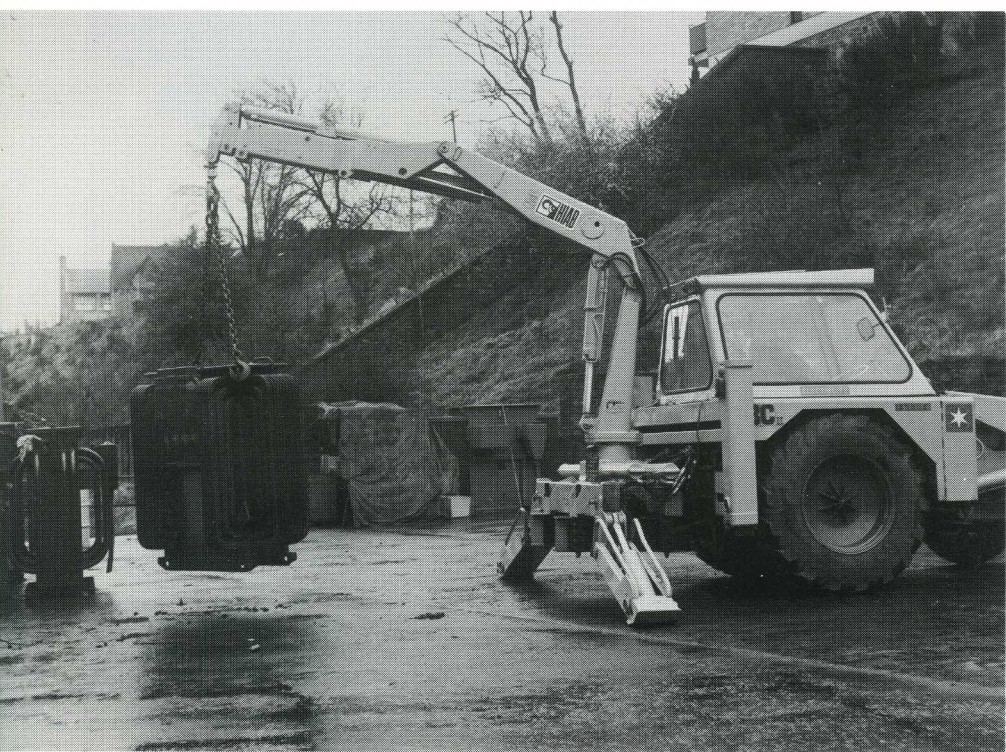
"We're delighted with the new rig," says Mr. McAdam. "It's given us an excellent yard crane for far less than a regular mobile crane would have cost. I'm sure many others will follow our lead - this combination has great potential." ■ 2

Acceleration in Fenestration

Once the suction cups have taken hold of the glass pane it is gently lifted by the HIAB loader. The left-hand picture on the next page shows how the loader, thanks to its great reach, can hold the pane well clear of the truck while it is being turned into position for installation. In the picture at the far right the loader is putting the big pane into place in the window frame.



Price



The control set-up inside the operator's cab.

Combining a HIAB 950 with a tractor produced a low-cost mobile crane able to cope both with the heavy matériel and with the cramped spaces in the SSEB's yard at Galashiels.

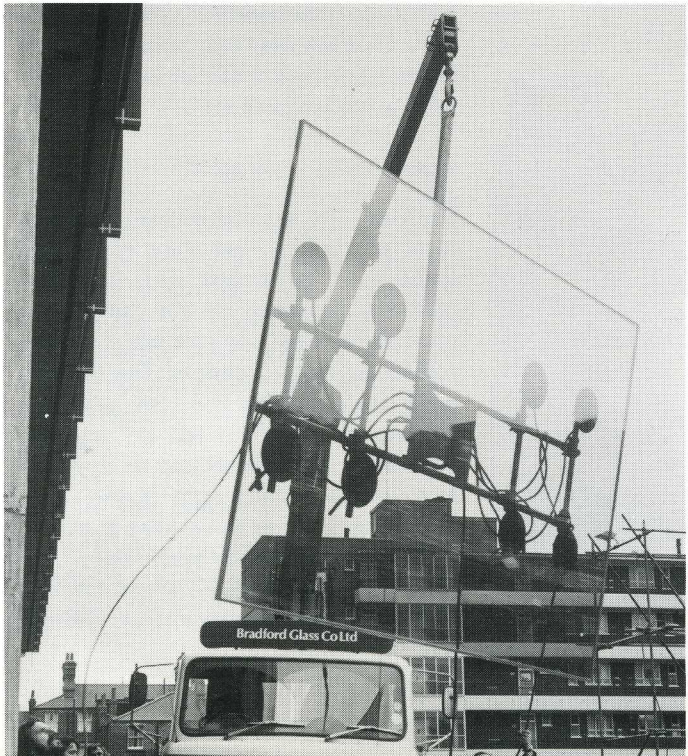
Bradford Glass is a firm of glaziers in England which, thanks to the HIAB Method, has been able to halve the time required for the unloading and installation of large window panes. The firm's lorry, a 24-ton Leyland, is equipped with a HIAB 950 mounted behind the cab. The glass panes are handled with a special attachment consisting of a steel frame measuring 1.20 x 2.40 metres and carrying eight rubber suction cups 25 cm in diameter. An electric

vacuum pump driven by the lorry battery creates a vacuum in the suction cups, which fasten onto the glass pane so that it can be lifted. The frame is attached via a link to the hook of the HIAB loader, with a swivel joint between the link and the frame, so that the glass pane can be rotated to the correct plane for positioning in the window frame.

Thanks to its great reach and lifting capacity, 675 kg at 8.8 metres' radius,

the loader can often put the panes straight into place not only on the ground floor but also in the first storey and sometimes even in the second.

These pictures were taken at the National Westminster Bank's new building in Pentonville Road, London, to which Bradford Glass delivered three lorry-loads of large-size double glass panes. ■ 3



The road-haulage outfits of Redlands, the big roofing-tile group, have a centrally mounted HIAB 950 with a grab for unpacked tiles.



Faster, Cheaper, Safer Building by the HIAB Method

With the single exception of forestry, building is the trade in which the HIAB Method and HIAB loaders scored their earliest breakthrough and promptly gave rise to new and more efficient handling methods. But whereas forestry transportation is almost wholly concerned with a single type of freight, i.e. roundwood, the building trade has to deal with a long list of goods that come in different shapes and sizes, vary widely in bulk density, and run the gamut as regards susceptibility to handling damage. Faced with such diversity, it's impossible even using the versatile HIAB Method to come up with an all-round solution for building hauls that would correspond to grapple loading in forestry. But for certain categories of building material the engineers have evolved techniques entailing gains in time, labour, safety and cost that are quite on a par with the advances brought about by the HIAB Method on logging sites and landings. One such category comprises bricks, tiles and similar materials, and on this and the next few pages we show some examples of how these materials are handled by the HIAB Method.

"Behind the Cab - HIAB!" is a slogan that British manufacturers of tiles, bricks and blocks are taking to heart in a big and profitable way. The HIAB Method is filling an important gap in an otherwise highly mechanised industry. Off-loading by HIAB on the building site rounds off the service which the supplier gives his customers. At many of the leading firms in the business the switch to mechanised off-loading by the HIAB Method has been hastened by the shortage of labour and by ever-increasing wage rates.

Haste Without Waste

Redland, the world's largest manufacturer of roofing tiles, has HIAB 550 loaders on its lorries. The loader is centrally mounted on the long deck and has top-seat controls and a special rotator-equipped grapple. The grapple is so designed that the tiles need not be packed in shrink-foil or anything else. They are loaded just as they are in rows along the length of the deck. The grapple seizes three rows at a time, with about 45 tiles in each row.

So equipped, the driver can off-load 17 tons of tiles in 40 minutes. Without

Selcon handles insulating blocks using a HIAB 550 with a special grab - and saves 90 minutes of unloading time per load.



a HIAB, the job would call for a team of four men - and it would still take 90 minutes. Moreover, the loader is able to place the tiles exactly where they are needed. And with gentle HIAB handling, breakages have been practically eliminated. Turn-round time has been reduced to the point at which each vehicle now averages two deliveries a day.

90 Minutes Saved

Celcon Limited, which delivers light-weight aerated-concrete insulating blocks all over Britain, uses the services of regional transport contractors with HIAB-equipped vehicles. On the average these vehicles take a 14-ton payload, and in the past it took a team of four men two hours to unload a Celcon lorry. With a centrally mounted HIAB and a special rotator-equipped block clamp, the driver can do the job single-handed in half an hour. That's a saving of 90 minutes on every delivery. The truck spends less time at the off-loading point and can clock up a bigger daily mileage - which is what trucks are for.

Another Two Loads

Frank Tucker, haulage contractors to Westbrick Limited of Exeter, operate a number of HIAB Rol-Loaders mounted

on 11-metre trailers. With his HIAB and a grab designed to take packs of bricks, the driver can off-load and stack 7,200 facing bricks at a building site in 20 minutes. The same job used to take a gang of site labourers from two to four hours. This saving in time

enables the Rol-Loader rigs to deliver three loads a day - within a 40-50-km radius - instead of only one as formerly.

The grab on the Westbrick outfits is fabricated to a standard George Cohen Machinery design, taking packs of 400 bricks and stacking them threehigh. ■4



With a Rol-Loader-mounted HIAB 550, Frank Tucker can off-load 7,200 of Westbrick's facing bricks in 20 minutes. Using the time saved, he can get in another two delivery runs a day.



The mast-top control seat of this arrangement gives the operator a good view of the deck and the unloading point. The tiles can be lifted straight onto the roof.

A Grab with

A fully mechanised technique for the handling of roofing tiles by the HIAB Method has come into wide use in Western Germany. It is based on a HIAB loader, e.g. a "550" or "765", and a special rotator-equipped grab. The grab is designed to handle both tiles that are stacked unwrapped and tiles that are packed, e.g. in shrink-foil.



The largest version of the grab takes three rows of tiles, each two metres long. This utilises the full lifting capacity of the HIAB 765 loader.



The grab can take both packed and unpacked tiles. This load is being delivered in 1-metre-long shrink-foil packs.

Capacity to Match the Loader

The grab comes in different patterns to handle two or three rows of tiles and with jaws having a span of 1 or 2 metres. This enables the size of the lifts to be adjusted for maximum utilisation of the loader capacity.

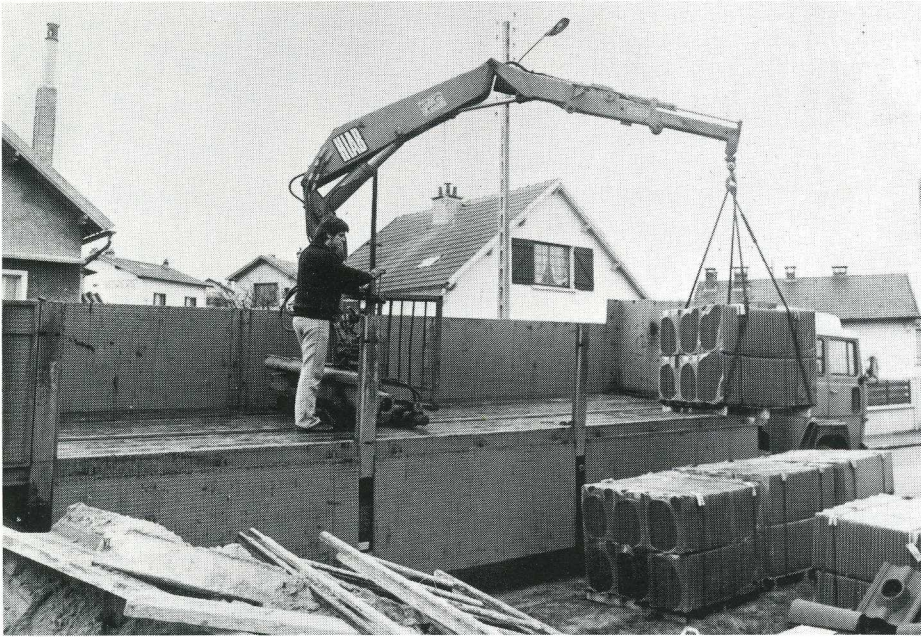
Thanks to the short loading time made possible by the HIAB Method - generally 15-30 minutes - outfits fitted with this equipment can get through two deliveries a day over distances of up to 100 km. Most of them pull a trailer

and take an aggregate load of 19-25 tons of tiles.

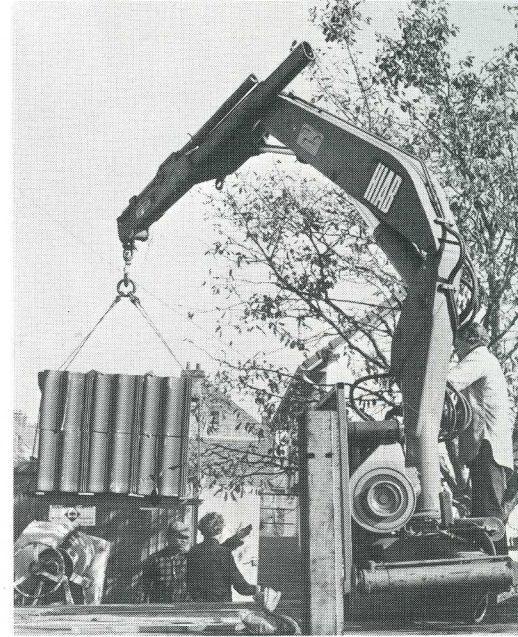
Bricks and roofing tiles packed with shrink-foil, steel strapping, etc, can also be handled on pallets using an ordinary pallet fork both for loading and for unloading. This equipment has the advantage that it can also be used for other building materials, which to an increasing extent are being palletted.

In Australia, too, there are a large number of HIAB-equipped brick-

transporting outfits on the roads. Among the users is Zacuba Brick Industry, of Sydney. This company's loaders are equipped with special hydraulic grabs that keep the bricks in place during the lift. In most cases the loader is centrally mounted, enabling the most effective use to be made of the vehicle's freight space and the loader's reach. ■ 5



After the firm bought its HIAB Rol-Loader the customers showed their appreciation by buying rapidly increasing quantities of building material. Since all the goods are palletised the only tackle needed is a pair of lifting straps.



Transports Langlois, of Mousseaux, France, has gone in for the same solution as François in the next picture - a HIAB 550 Rol-Loader, shown here off-loading Eternit tiles.

Expansion by the HIAB Method Two HIAB 550 Rol-Loaders Grow to 21

Some years ago, the firm of François in the Paris suburb of Drancy bought itself two HIAB Rol-Loaders. They turned out to be a profitable investment. The improved service they enabled the firm to offer went over in a big way among its customers. Additional

HIABs were acquired at the rate of five a year, and the business grew apace. In five years the firm's fleet of vehicles trebled, and today it has 21 HIAB 550 Rol-Loaders. The scale of its deliveries has likewise trebled. This rapid development springs from the solid

advantages of the HIAB Method. Much of the firm's haulage is concerned with deliveries to housebuilding sites, and in many cases all the material for a house can be delivered in one run and unloaded on pallets at the site. ■ 6



HIAB Method Gives Landis Supply A Competitive Edge



Landis Supply, of Wilmington, Delaware, U.S.A., has secured an advantage over its competitors with the HIAB Method. The firm sells tiles and other roofing materials, siding of various kinds, insulating materials and so on. Its deliveries are palletised and are off-loaded on the building site by a HIAB 550 with a hydraulic pallet fork.

With this equipment the driver can unload the average job-order by himself in just five minutes. Previously, when unloading was done by hand, the operation took at least 25 minutes and often required two men. And damage to material is much less now that it is gently deposited by the loader. Frequently, too, roofing material can be lifted directly to the roof - a valuable saving in time and money for the contractor.

"This advantage has definitely paid off in repeat business," says Landis Supply. "And the quicker turnround means that one truck with a HIAB can do the work of two without." ■ 7

HIAB 765 Takes Nine Packs

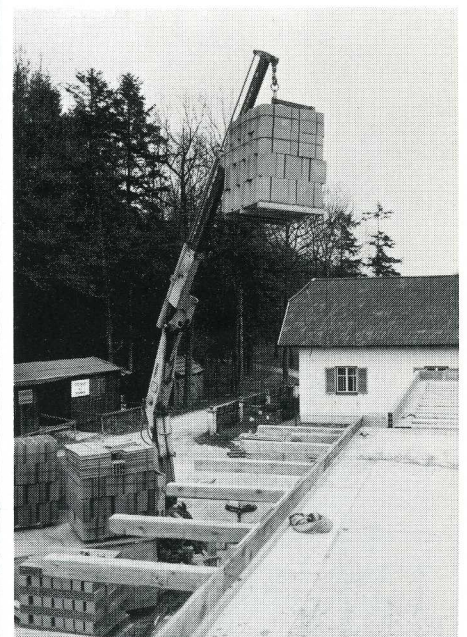
Zanda roofing tiles are made by a firm belonging to the big Redland tile group mentioned earlier. From its factory in Halmstad Zanda supplies tiles throughout southern Sweden. Transportation is handled by four vehicles on permanent contract, which are joined in the peak season by anything up to six or seven more. They are unloaded by a HIAB 765 and a special grab, which in each lift take nine packs of the shrink-foil-wrapped tiles.

"That's rather more than a ton in every lift," says Lennart Nilsson, who was driving one of the full-time trucks when "Method" went along on a delivery run in the outskirts of Kristianstad. "The grab weighs a bit, too, so you need a good strong loader and sturdy support legs. Underwheel con-

dition on building sites aren't always of the best - take it from me!

"I used to have a smaller loader, but it couldn't really cope with these heavy lifts - especially when you remember that you need a long reach, too, so that you can work all over the deck and so that you can spot the tiles in the best position on the site - which means right on the roof if that's where the builders want them. The load I've got now is 12 tons - that's 11 lifts, so I'll soon have it off."

And he did! Scarcely more than twenty minutes later the outfit was on its way back to Halmstad for another load. And that included time to talk over where the tiles were to be deposited and to position the truck so that off-loading could begin. ■ 8



One of the major brickmakers in Austria has for several years been using a rear-mounted HIAB 950 with a double hydraulic extension and a mechanical pallet fork for handling palletised bricks.

HIAB 670 - An Indispensable Component

One of the youngest and most dynamic companies in the Spanish wood industry is Carpinteria del Guadaira S.A. near Seville. It's located in the heart of the great forestlands in southern Spain and close to its main markets in Spain and in North Africa. The company produces panelling, mainly from pine-wood, and much of it laminated with a decorative surface material. Part of its output is sold for use as wall covering, while part is used in the manufacture of kitchen furniture. It is equipped with ultra-modern production machinery yielding products of high quality. And naturally, the HIAB Method is a vital element in its handling technology.

At the input to the process the factory maintains a 24-hour buffer stock of raw material, which is steadily fed in by a HIAB 670 equipped with a round-wood grapple.

"A HIAB is indispensable for timber-handling in a plant of this kind," says Mr. Miguel Pérez Agusti, the Technical Manager. "That was established by the very thorough studies we carried out before we installed this stationary loader. Its only task is to serve as an

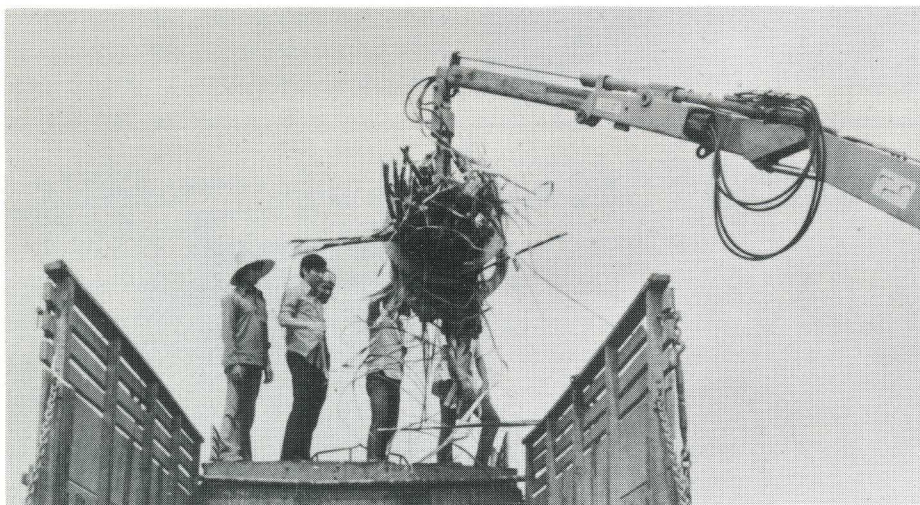


arm, with the same versatility as a human arm, at the start of our panel-making line. We've put a cab on the loader so as to give the operator a safe and comfortable workplace with a good view of the working area."

After six months of production ex-

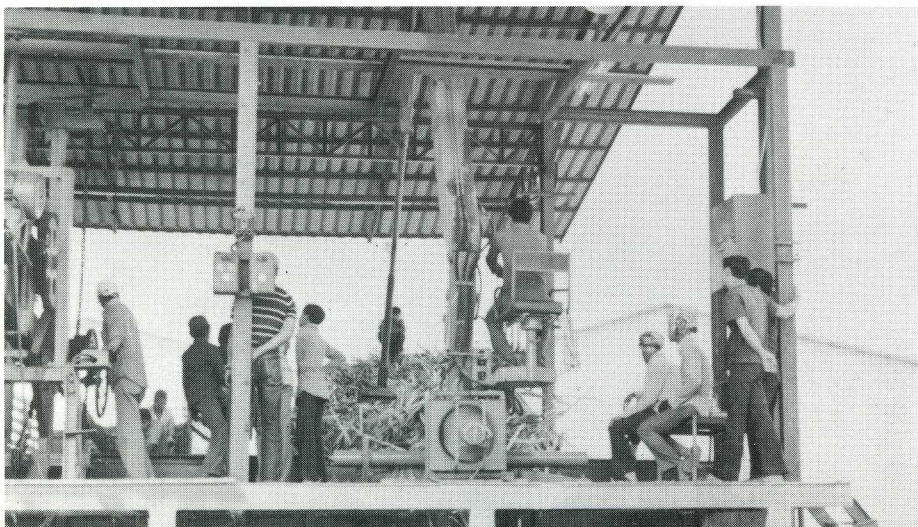
perience the people at Carpinteria del Guadaira have nothing but good to say of their HIAB equipment.

"A strong loader that makes light work," is the way the operator sums it up, and if anyone should know, he should. ■ 9



Mechanised Sugar Harvesting

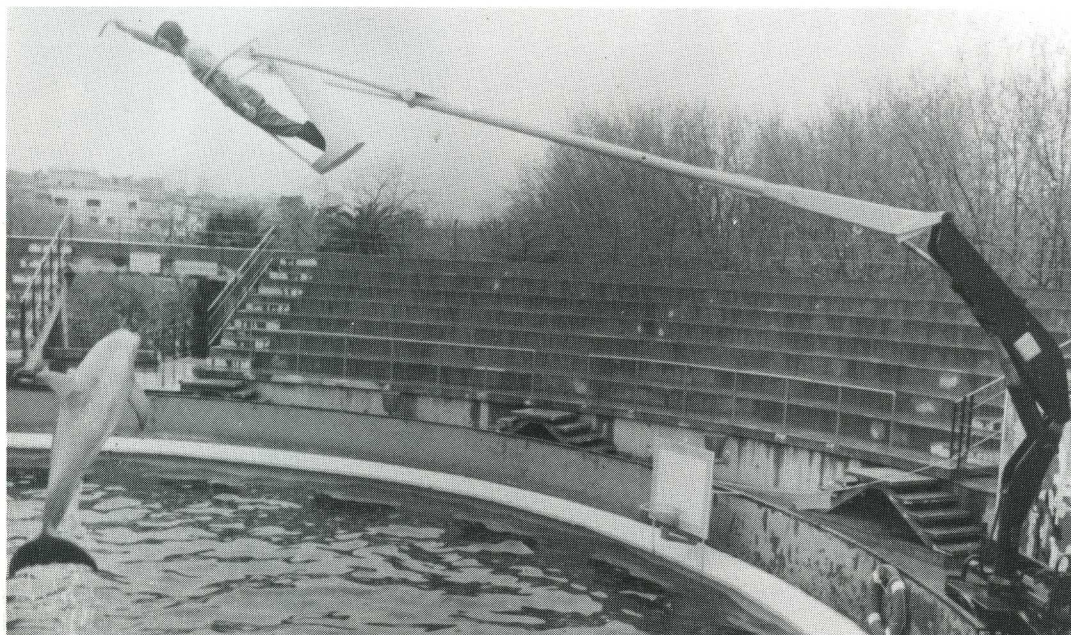
The growing of cane sugar is one of the major staple occupations in Thailand, and just as in many other cane-sugar-producing countries the Thais are on the lookout for new ways to mechanise the handling of the bulky harvest. They've found a simple and effective solution in the HIAB Method. In the fields, the sugar canes are loaded by a HIAB 550 with a hydraulic grapple and rotator mounted on an ordinary farm tractor. Wagons with high flaps take them to the sugar-mill, where they are unloaded - also by the HIAB Method. A HIAB 570 on a stationary mounting, equipped with an implement that works like a giant rake, sweeps the load off the wagon and down into an intake hopper from which the canes are fed into the presses. HIAB has thus taken a lot of the heavy labour out of sugar-cane growing. ■ 10



Method Hoists

Putting Out More Flags

When the United Nations arranges a conference attended by all member-nations a lot of bunting goes aloft, calling for many more flagpoles than are usually available even outside large and much-used conference halls. This was the case when the U.N. deliberated on technical aid to the developing countries at the Hotel Lima Sheraton in Peru. The numerous extra flagpoles needed were quickly set up with the aid of the HIAB Method.

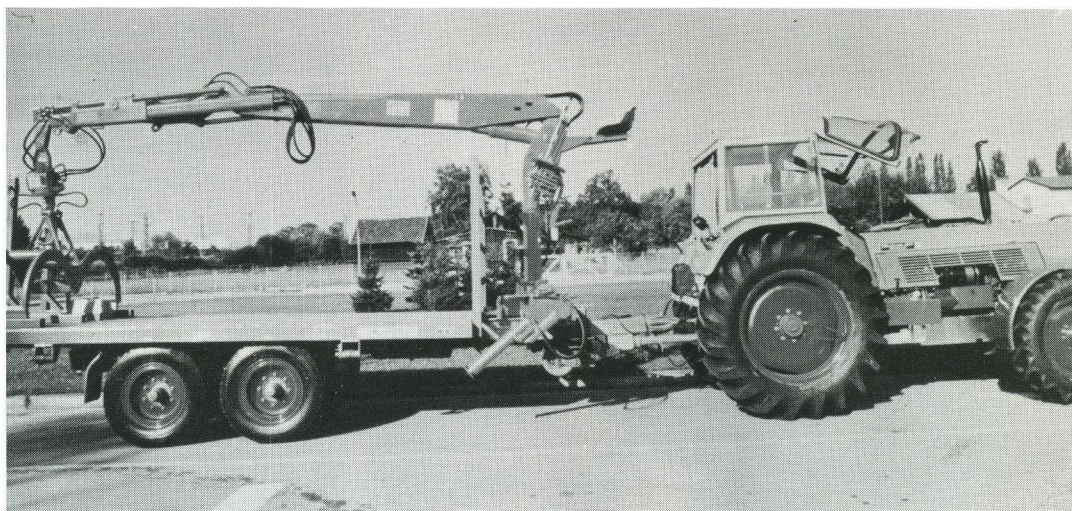


Spain is Different

The HIAB Method continues to score successes in ever wider circles. The dolphin - a very intelligent animal - is the latest to realise its advantages. An aquarium in Barcelona now uses a HIAB with a personnel basket as an aid in feeding and training its dolphins. Zoo visitors, no less than the dolphins themselves, agree that with this arrangement they get still more fun out of feeding time and training sessions. And the Zoo staff are delighted with their HIAB for its easy handling and great security. ■ 11

Along the valley of the River Inn, right down in the south-eastern corner of West Germany, much of the terrain is of an outright Alpine character. No trucks could get at the timber growing on its steep slopes. The prospects are rather better for tractors and trailers, and that's the solution that Firma Eberwein of Oberaudorf has gone in for. Coupled, of course, with grapple-loading by the HIAB Method. A HIAB with a round-wood grapple, a rotator, top-seat controls and retractable support legs is mounted on a tractor-drawn trailer with tandem axles. The bolsters on the trailer can be arranged in different ways - either, as shown in this picture, for moving wood in 1-2-metre lengths, which are laid cross-wise on the deck, or on the side for 4-metre lengths which are laid along the length of the outfit. The trailer takes a maximum load of 25 cubic metres. ■ 12

HIAB Collects Alpine Timber in Bavaria



Method Hoists



Ecuador's First HIAB

The first HIAB loader was recently delivered to Ecuador, and scarcely was it in place before it began to earn big money for its owner. His business includes dealing in agricultural machinery, and the firm had just received a delivery consisting of numerous heavy cases and tractor tyres. If it hadn't been for its new HIAB 950 the

firm would have had to hire a mobile crane, and unloading that delivery would then have cost some 4,000 sucres, equivalent to about US\$ 160. Since lifts of this kind are frequent in its business the firm calculates that the HIAB will pay for itself in less than a year.



Light Duties for an Oldtimer

At the Kåraryd Sawmill in Backaryd, Sweden, there's a long-service HIAB that's gone over to lighter duties in its old age. In its prime this "177" - the forerunner of the present HIAB 560 - used to ride a roundwood outfit, but it is now on stationary mountings at the plant's

1.5-cu.metre bucket it loads sawdust and chips onto the trucks that serve the mills in Nymölla and Oskarsström. Hydraulic pressure is provided by a 7.5-h.p. electric motor, says Sven-Erik Olofsson, who sent in the picture.

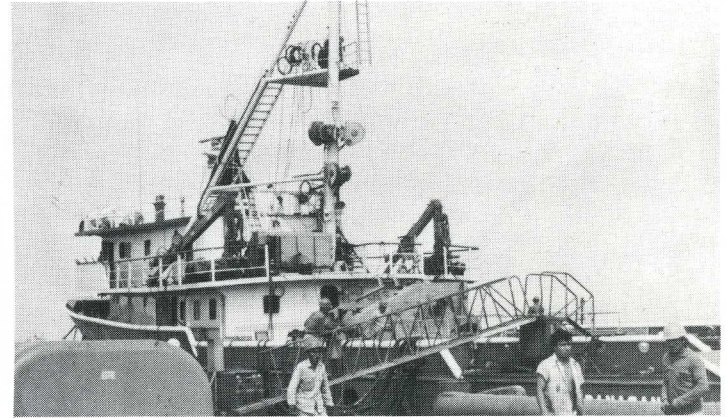


HIAB Method Introduced Into North Korea

The HIAB Method is just on the point of scoring its breakthrough in North Korea as well. Four HIAB loaders, a "950", a "765" and a "670", along with a "550" mounted on a Scania truck that is not included in this picture, were recently put on show at an exhibition in Pyongyang and aroused great interest - all four being sold!

A Square Deal for Spare Wheels

When Kockums recently sent its KL-420 dump truck on a demonstration tour in Peru, the giant spare wheels posed a handling problem which was naturally solved by the HIAB Method. A Dodge D-500 equipped with a HIAB 550 lifted the weighty wheels into the truck body in next to no time - and the show went on.



HIAB To Land Cuban Fish

The Cuban fisheries have gone in wholeheartedly for handling by the HIAB Method. Two HIAB 670s, the first of 32 loaders now on order, are mounted on the fishing-boat "Cubanacan", which was recently delivered by the yard.

HIAB 970 for Long Wooden Beams

The HIAB 970 is the right loader for all heavy lifts at large radius, such as these outside prefabricated glued-wood building units. The outfit is at work in Austria.



Section S



Conference in Manila

HIAB-FOCO's entire sales organisation in the Far East recently gathered for a conference in Manila, in the Philippines. Some thirty HIAB-FOCO men from Australia, Hongkong, Japan, Malaysia, Indonesia, New Zealand, Singapore, Thailand and the Philippines studied new products and discussed new applications of the HIAB Method. The conference, under the leadership of Marketing Manager Bertil Bredinger, was opened by the Minister for Agriculture and Natural Resources of the Philippines, Arturo Tanko (right).



Course in Britain for 100 Servicemen

Among the reasons for HIAB-FOCO's success on world markets are that it has a well-developed service network and that the firm's service department is constantly at work enlarging and consolidating it, among other things by the large-scale training of service personnel. Courses are ceaselessly being arranged all over the world. The one recently held in Britain was remarkable in that it was the largest HIAB-FOCO service course ever organised so far. It lasted a week, and was attended by no less than 100 servicemen.



Safety Experts Come Calling

A party of German experts on industrial safety recently paid a visit to HIAB-FOCO's main factory in Hudiksvall. They are seen here during a tour of the plant.



New Premises in Belgium . . .

HIAB-FOCO's new Belgian facility is located in Wauthier-Braine, 22 km south of Brussels and right next to the Paris motorway. The premises comprise a workshop covering 870 sq.metres and an office building with two floors, each of 375 sq.metres. 26 people are employed there.



. . . and in France

HIAB-FOCO's French subsidiary recently moved into new premises in Trappes, 30 km west of Paris. Here are some of its service vehicles, drawn up outside the gates of the workshop.

At this year's Hanover Fair, in which HIAB-FOCO participated as usual with a representative show, the HIAB 765 was awarded a prestigious prize for good industrial styling. Below is the winner, and on the right is the prize.



HIAB-Ladekran 765 AW

Nähere Informationen auf dem
HIAB-FOCO-Stand im Freigelände
Stand 910/912- Bonner Straße