

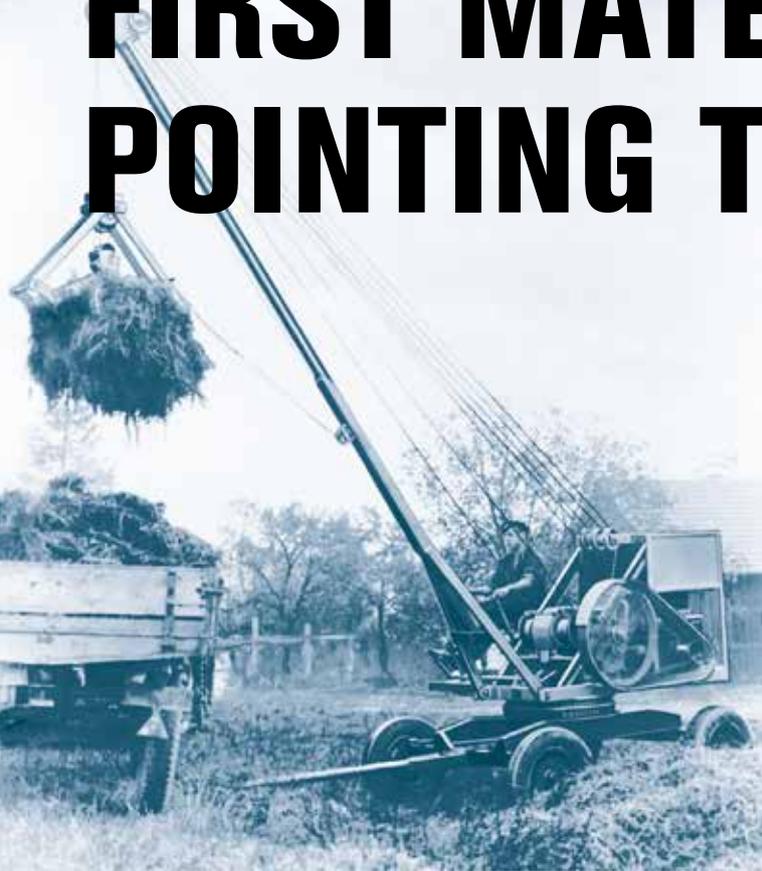
 **TEREX**® | **FUCHS**

APPLICATION CENTER



WORKS FOR YOU.

FOUNDED IN 1888. FIRST MATERIAL HANDLING POINTING THE WAY TO THE



With what solution the customer can get the best benefit? This question was moving Johannes Fuchs when he started his business in agricultural machinery back in 1888.

Even two generations later this question was the main driver for a new strategy which was realigning production to material handling machines for budding construction industry.

As result of this strategy in 1950 the innovative D1 mini excavator was designed and seven years

later the legendary FUCHS 301 was built and became the world's most popular excavator with a total of 15,000 units built. Besides standardized production Fuchs already developed several purpose-built machines for customers with special applications.

Today, Terex® Fuchs is specialised in material handling production and one of the world's leading suppliers of material handling machines for segments such as recycling, scrap proceeding, port applications and timber handling.



MHL320	MHL331	MHL335	MHL340	MHL340 FQC	MHL350	MHL350 FQC	MHL360	MHL380	MHL454	MHL474
85 kW	114 kW	114 kW	128 kW	128 kW	160 kW	160 kW	190 kW	273 kW	176 kW	213 kW
8.2-10.4 m	10.7-12.0 m	10.7-12.0 m	12.2-13.7 m	11.0-11.2 m	14.0-16.0 m	12.5-13.0 m	16.5-18.0 m	18.5-22.0 m	9.8-10.85 m	11.15 m
17.8-19.0 t	22.0-23.5 t	23.5-25.0 t	27.5-29.0 t	28.5-31.3 t	33.0-35.5 t	33.0-37.8 t	43.5-48.8 t	62.5-68.5 t	31.0-32.5 t	41.5-44.0 t
0.4-0.6 m³	0.4-0.6 m³	0.4-0.8 m³	0.4-0.8 m³	Attachments upon request	0.6-0.8 m³	Attachments upon request	0.6-1.0 m³	1.0-1.4 m³	1.7-2.5 m³	2.0-4.0 m³

IG MACHINE IN 1950. E FUTURE FOR 125 YEARS



Besides outstanding quality, extreme sturdiness and reliability of our material handling equipment we focus on design and development of technique that meets the customer's needs and expectations. In other words: Our engineering and design are aligned to serve our customers best.

Implementing the Terex® Fuchs Application Center we consequently moved on to focus on our customers through development of customized special machines.

In addition to our standard models we are offering our customers opportunities to optimize and adopt our standard machines in a way that it will be tailored to their specific needs. For that reason customer, distributor and APC engineer are interacting closely.



CUSTOM SOLUTIONS. THE TEREX[®] FUCHS APPL



Your personal Center of Excellence

Since the very beginning we defined the needs of our users as priority with regard to development of innovative loading equipment. Our serial models also provide a concept tailored to customer's needs and applications. All standard machines can be perfectly equipped through adding a variety of useful options. We face several applications in special niches which can not be covered with our standard models. This spurred design engineers and engineering specialists at Terex[®] Fuchs to work on special solutions and the idea of Application Center was born.

An entire team consisting of engineers and technicians are working for one common goal: modify a machine for best fit to a very extraordinary application of each single customer.

To enable the Application Center to focus on those special customer requirements it was set up as a separate business field and as independently acting from standardized production inside Terex[®] Fuchs company.

Customization with a (Modular) system

The team of APC works on individual solutions while having in focus the cost -efficiency of loading machines. The usage of standardized components builds the base of the modular system and its combination with each other enables the engineers to design a vast variety of machines. For example: a standard (wheeled) mobile machine can be equipped with a crawler undercarriage; the diesel engine can be replaced by an electric engine – and if needed a pylon can be added. All those features can be combined e.g. so that we get as result an elec-



PLICATION CENTER



To achieve a perfect service level with regard to APC machines we developed a special consulting concept. The first contact for each customer is the regional dealer who goes in touch with a member of APC if a special modification of a loading machine is required. That way our customers benefit directly from the experience of APC staff. The optimum interplay between customer, dealer and APC allows to provide a suitable machinery concept on short term.

tric crawler machine on pylon. With ingenuity and engineering know-how we solve complex tasks in a manner that we meet customer's needs and comply with high level standards for Terex® Fuchs machines at the same time. The brand Terex® Fuchs stands for reliability, ease of usage and maintenance and high quality standards with reference to standard and APC machines in the same style.

Perfect teamwork between customer, dealer, and manufacturer

At Terex® Fuchs the quality of our customer service is just as important as the quality of our material handling machines.

"The technical advice and production strategy we have developed for our customization process has provided us with the perfect framework for optimizing our machines in line with our customers' needs in the most effective manner possible. The APC team relies on every bit of its creativity, ingenuity, and engineering know-how in order to design and develop the perfect solution even when faced with the most extraordinary challenges."

Thomas Berners, Head of Application Center (APC)



STEP BY STEP TO A PERFECTLY CUSTOM

For achievement of sophisticated solutions a clearly defined decision – making path is required. Thus we have developed a transparent and traceable step-by-step path to a customized material handling machine at Terex® Fuchs. From the early stage of a project until commissioning of machine at customer side our customer will be accompanied by a well-rehearsed team of experts

The suitable modification and customization of loading machine will be made after discussion and definition of all requirements between customer, dealer and APC members.

In the following part we invite you to participate in designing of an APC machine and to learn more about our step-by-step path.

In this real case our customer had to deal with a purchase of new equipment for crushing chunks of rock stone at the feeding area of a crusher. Here we had the matter with several customer-specific requirements which could not be integrated in standard machines.

Step 1: Starting point

The initial appointment with the dealer revealed that the special application requires a customized machine which allows to break large chunks of rock near the feeding area of the crusher and which can be steered by operator efficiently. Thus the machine has to be equipped with a hydraulic breaker and also has to be operated via distance control.



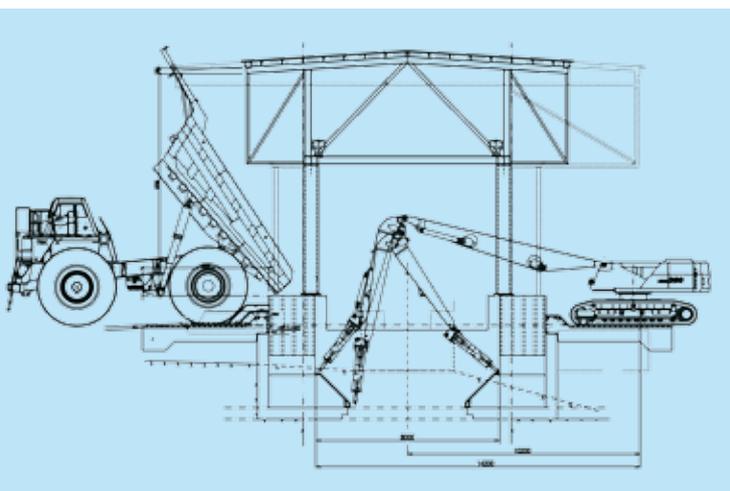
Step 2: Defining parameters

Together with the customer and dealer the Application Center prepared a drawing of the destined location of operation as well as a list containing all of the customer's specific requirements. Amongst others working output and operating radius of the machine were included as well as any special needs regarding the attachments and control.

Step 3: Sounding the right system components

Once the above step was completed all the facts such as the pictures, drawings and performance specification were used to narrow down the list of customized measures to be taken into consideration.

At this point in time the Application Center took the lead for finding the perfect technical solution. In close interaction with customer and dealer APC engineers systematically went through the various individual features, i.e. whether to choose an electric drive or a diesel engine, select between crawler or wheeled as mobile versions or a stationary model, not to mention analyzing the available remote control options.



USTOMIZED MACHINE



The birthplace of very special machines: Quality and creativity are key factors in the customization of innovative special-purpose models, accompanied – from development to the final inspection – by a project crew responsible for every single detail.

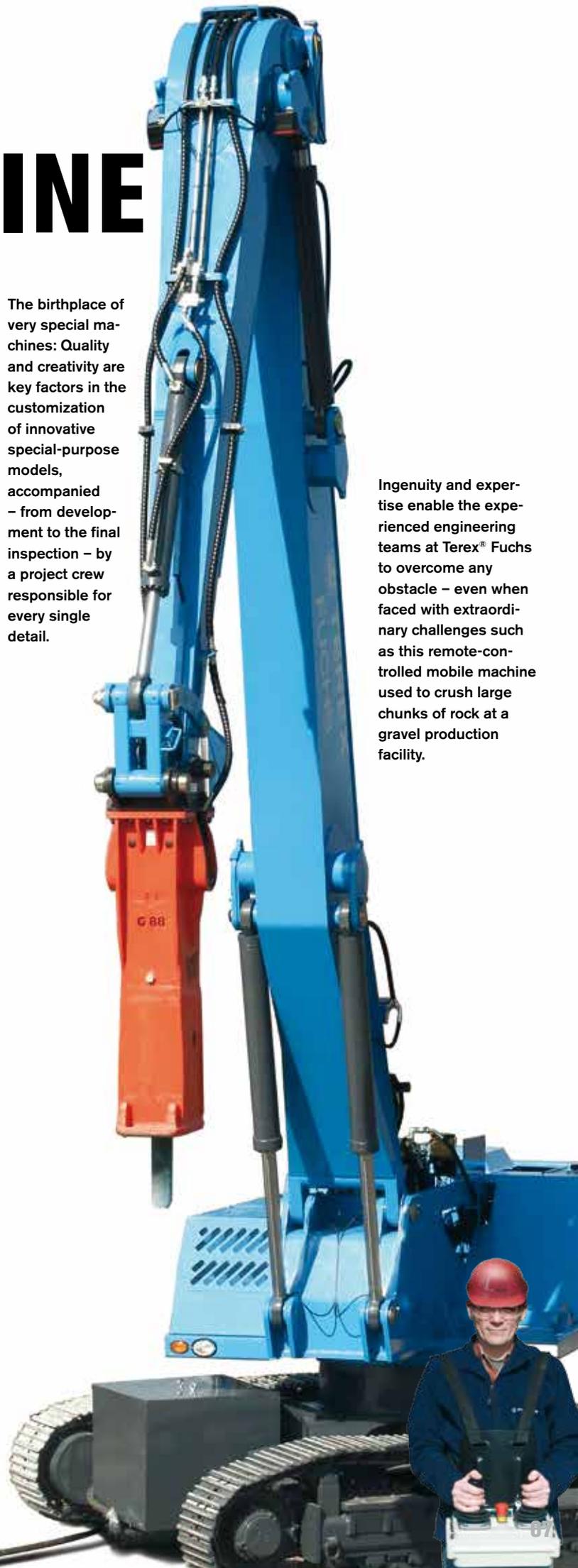
Ingenuity and expertise enable the experienced engineering teams at Terex® Fuchs to overcome any obstacle – even when faced with extraordinary challenges such as this remote-controlled mobile machine used to crush large chunks of rock at a gravel production facility.

Step 4: The perfect solution

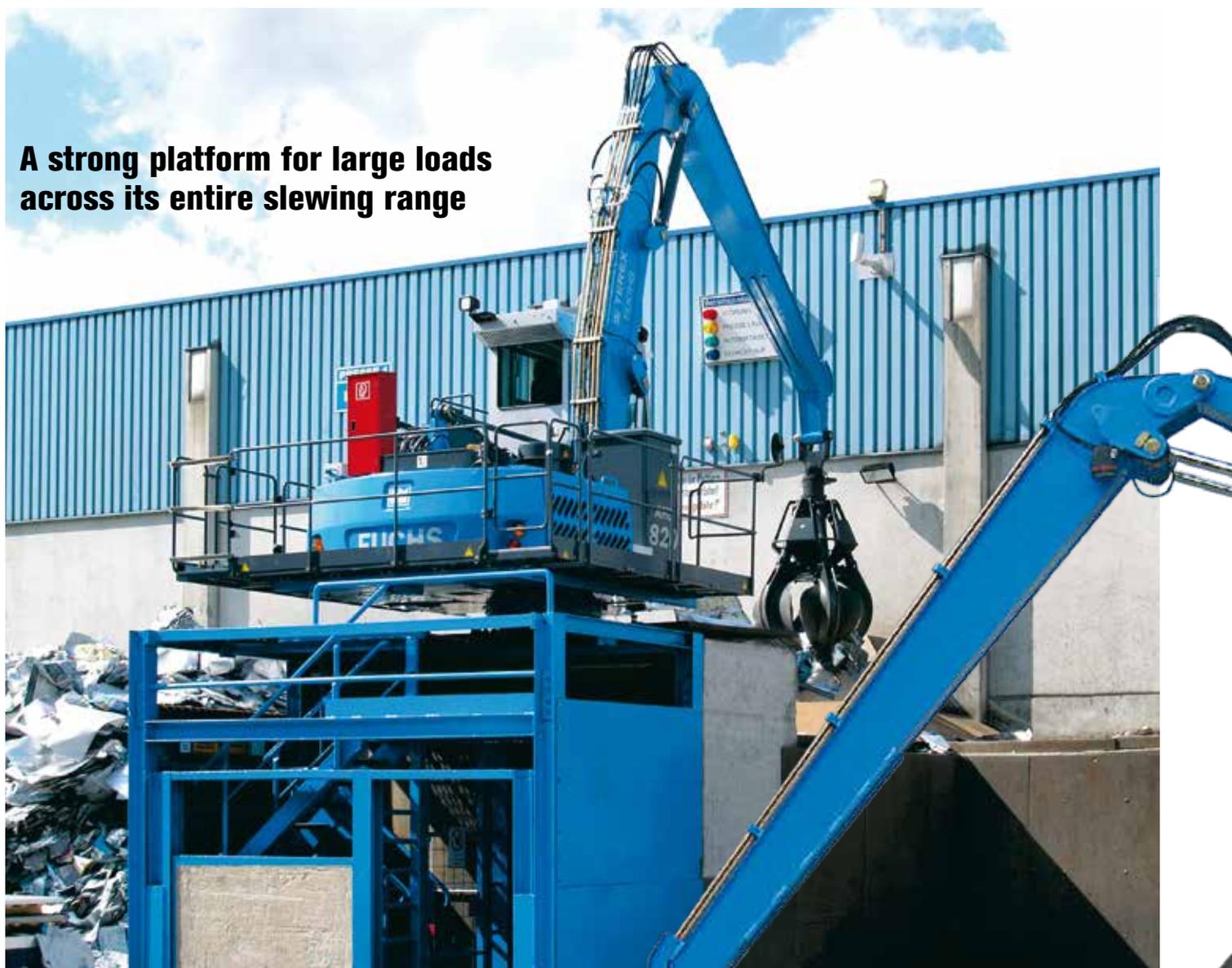
In result of step three was quickly determined that an electric machine would be the best option for the application at hand. In addition, the unpaved working area at the customer's facilities made them decide on a crawler undercarriage. The design engineers at Terex® Fuchs also proved to be particularly ingenious when designing the controls for the machine: They forwent a cabin by installation of the control unit and the operator's seat in a separate workstation. Additionally was decided to equip the machine with a wired remote control. This way the operator can handle the dump truck at the site and the loading machine by switching fast between both units.

Step 5: Delivery and initial setup

After assembly and inspection the final approval by customer was carried out at the factory. Supported by the dealer and by a Terex® Fuchs service technician the customer had to arrange the final setup and adjustment at the yard. With the customized solution provided by Terex® Fuchs APC the customer has set up the best conditions for high productivity and efficient performance at his facility.



A strong platform for large loads across its entire slewing range



AHL820

- ▶ **Sturdy foundation for metal recycling:** 16.0 t operating weight with 0.4 m³ cactus grab.
- ▶ **Efficient and environmentally friendly:** Low-wear electric motor drive.
- ▶ **Quiet, smooth and powerful:** 75 kW emission-free electric motor power for the hydraulics; 15 kW for steering and operation; 75 kW for climate control.
- ▶ **Enormous range:** 10.4 m reach – 11.5 m with grab.
- ▶ **Uncomplicated service support:** For the MHL320 standard machine for static deployment.
- ▶ **Kind to man and machine:** Resilient cushioned suspension on a concrete pylon increases comfort and absorbs high impact shocks.
- ▶ **First-class ergonomics:** Joystick control facilitates safe work with ideal visibility and no steering wheel.
- ▶ **Fault-free:** Overload cut-off prevents abnormal stresses.
- ▶ **Safety is paramount:** the dual switch and sensor. De-energising circuits provide additional specific safety options.
- ▶ **Easier access:** Access system and service catwalks on the left and right side of the superstructure.
- ▶ **Optimum protection:** Comfortable and safe cab with tempered safety glass and sliding door.
- ▶ **For low light conditions:** Powerful xenon spotlights on the boom, stick and roof of the cab.



STATIONARY MACHINES

One position. Many uses

If you are planning to use your material handling machine at a fixed location, we recommend opting for a stationary design on a steel or concrete foundation. The bolting that anchors these machines enables them to handle much larger loads than their mobile counterparts. In addition, choosing a stationary machine eliminates the costs involved in having an undercarriage. It is also worth mentioning that one of the many options that the Application Center offers when modifying stationary machines is equipping them with a zero-emission electric motor.



Fully charged handling center

AHL850

- ▶ **A clean powerhouse:** 35.0 t operating weight, powerful electric motor with 132 kW for the hydraulic main drive.
- ▶ **Handles large quantities with ease:** 15 m box-type boom (optionally also with straight or cranked boom) with capacious 2,200-litre double-clamshell grab.
- ▶ **Speedy operation:** 2 to 2.5 loading cycles per minute – fast enough to unload one 1,000 t inland waterway vessel every day.
- ▶ **Quiet power:** Very little vibration and ultra-quiet operation thanks to perfectly attuned electric motor and hydraulics.
- ▶ **Stable and yet flexible:** 4-point mounting to the base with additional concrete weights, can easily be moved by crane.
- ▶ **Well protected:** Each stabilizer plate is fitted with a damper to prevent both damage to the steel structure from knocks and transmission of vibration.
- ▶ **Well-thought-out design:** Ready availability of spare parts because the AHL850 has many components in common with the mobile diesel series model MHL350.
- ▶ **Cost efficient:** Low operating costs since the main motor is used only for the hydraulics with separate activation of additional functions.
- ▶ **Excellent ergonomics:** Joystick operation for enhanced visibility and safety.



Oceangoing

AHL380

- ▶ **Maritime power:** The machine features an operating weight of 44 tonnes, a 273 kW diesel engine, and a cranked 22-m loading system.
- ▶ **Ship and rail:** Both are possible, since the material handling machine can move, rail-mounted, over an entire cargo hold on a gantry.
- ▶ **Easy to use:** All functions, including those pertaining to the undercarriage, are controlled centrally from the cab.
- ▶ **Adaptable:** Depending on the material being handled, a clamshell grab with a capacity of 6.0 m³ or a cactus grab can be used.
- ▶ **Seaworthy:** In order to ensure a maximum level of resistance to corrosion, the machine comes with stainless steel hydraulic lines and is painted throughout with a coating resistant to marine environments.
- ▶ **Out of danger:** The fact that the cab is rigidly mounted reduces the number of component surfaces that are susceptible to damage caused by sea water.
- ▶ **Ideal visibility:** The cab is raised by 1.5 meters and offset forward, ensuring that operators always have a perfect view of the ship and a direct line of sight into cargo holds.
- ▶ **Safe and accessible:** Practical ladder access systems and catwalks make operation, as well as servicing and maintenance, easier regardless of the machine's position.



Hardened for heavy-duty stationary work

AHL831

- ▶ **Compact and powerful:** A 16-tonne operating weight, a radius of up to 12 metres, and total power of 130 kW guarantee a level of reserve capacity seldom seen in the tough world of metal recycling.
- ▶ **Rapid sorting:** Electromagnet option available for fast, reliable separation of mineral and metal slag.
- ▶ **High efficiency plus low emissions:** And the state-of-the-art electric drive keeps energy costs down as well.
- ▶ **Smooth operation:** Effective damping and optimised design ensure vibration and noise are kept within strict limits.
- ▶ **Solid steel construction:** The machine is designed to withstand heavy loading in a tough environment, and has additional damping elements to protect the structure.
- ▶ **Sensitive control:** Heavy loads can be maneuvered with swift, smooth precision.
- ▶ **In-cab comfort:** The cab has been designed around the operator, and features an ergonomic driver's seat, air conditioning, auxiliary heating, and dust protection equipment.
- ▶ **Excellent parts service:** Standard components are used as widely as possible - ensuring that replacement parts are rapidly available when needed, even for customized machines.



CRAWLER MACHINES

CRAWLER MACHINES



X-trac undercarriage



XL-trac undercarriage



Hydraulic track adjustment system



Mechanical track adjustment system

The X-trac undercarriage, which can be equipped with pylons as tall as 0.8 m, comes as standard. For especially tall pylons with a height of up to 7 m, machines can be equipped with an XL-trac undercarriage upon request.

Crawler undercarriages can be equipped with a mechanical or hydraulic track adjustment system if necessary. Hydraulic adjustment systems get crawler undercarriages ready for transportation and operation the fastest, while mechanical adjustment systems are an enormously sturdy and easy-to-maintain alternative that is only somewhat more time-consuming.

Tractive power par excellence on almost any surface

While mobile material handling machines equipped with tires are limited to working on asphalt and paved surfaces, machines with crawler undercarriages are able to showcase their advantages on inadequately paved and yielding surfaces. This is the case at many wharfage facilities, where port operators are quick to show their preference for the sturdy and powerful crawler machines built by Terex® Fuchs. In addition, a multitude of options is available for these machines depending on the ground and application involved: Mechanical and hydraulic track adjustment systems, XL-trac undercarriages for particularly tall pylons, and shoes optimized for each type of surface, among many other features, ensure that virtually no request or requirement will go unsatisfied with these mobile material handling machines.



Rock-solid stability on any ground

RHL380 X-trac

- ▶ **Powerful versatility:** With an operating weight of 70 tonnes, a powerful 273 kW turbodiesel engine, and a working radius of up to 22 m, the RHL380 X-trac is a versatile powerhouse that can be used for recycling operations, mining projects, and other demanding assignments involving bulk materials.
- ▶ **Way up on top:** The machine can pile up material to a maximum height of 13 m at a reach of 22 m. This eliminates the cumbersome approach of using several small excavators at different levels.
- ▶ **Wide track shoes:** Flat shoes with a width of 800 mm are optionally available, and enable the machine to gently move on soft and sensitive surfaces.
- ▶ **Custom attachments:** The machine can be equipped with custom grabs adapted to the specific loads being handled in order to maximize handling efficiency.
- ▶ **Intelligent limiter:** Special sensors can limit the grab's reach according to the load chart. This makes it possible to prevent load-related errors when working with large handling volumes.
- ▶ **Fuel efficient:** Despite its sheer power, the machine has extremely low fuel consumption levels, which lengthens the time between refueling stops and lowers operating costs.
- ▶ **Everything in plain sight:** The height-adjustable cab with large windows gives operators an outstanding view of their area even in difficult work environments.
- ▶ **Excellent service:** The Terex® Fuchs global service network ensures that customers will always be able to count on reliable service and fast spare parts procurement on any continent.



Triple-grouser shoes

Flat shoes

Terex® Fuchs offers two different types of shoes, with the choice depending on the surfaces on which the machine will be traveling. Sturdy and affordable triple-grouser shoes are the standard choice for many unpaved surfaces, while flat shoes (with a width of up to 800 mm) are used for particularly unstable ground conditions in order to exert a minimum amount of ground pressure even while handling large loads.



Track adjustments and attachment changes in record time

RHL350 FQC

- ▶ **Highly flexible:** With an operating weight of 38 tonnes, a reach of up to 16 m without the Fuchs Quick Connect system (13 m with the FQC system), and a powerful 148 kW turbodiesel engine, this crawler machine is perfect for a wide variety of scrap handling and recycling tasks.
- ▶ **Excellent stability:** The stabilization geometry of the specially designed crawler undercarriage, together with the crawler's triple-grouser shoes, ensures rock-solid stability and safe travel with attached shears.
- ▶ **Optionally available:** Mechanical track adjustment for assignments with very large loads and for adjusting the unit's transportation position.
- ▶ **Fast attachment times:** The Fuchs Quick Connect system makes it possible to change grabs and shears in no time, and the operator does not need to leave the cab in order to do so.
- ▶ **Always fits:** The Fuchs Quick Connect system is compatible with attachments from all shear manufacturers.
- ▶ **Clear perspective:** The high-resolution colour display shows all relevant operating statuses in real time and enables operators to react quickly and correctly.
- ▶ **Frugality as the key to profit:** Excellent fuel efficiency and long maintenance intervals keep operating costs surprisingly low for such a powerful machine.

Outstanding stability

RHL860

- ▶ **Unwavering stability:** The rock-solid undercarriage, featuring 800-mm flat shoes, forms a quadrangular base, enabling the unit to handle large loads in all turning directions.
- ▶ **Good outlook:** A pylon with a total height of 3.3 m makes it possible to reach an eye level of up to 10 m – an ideal characteristic for port operations, where being able to see over the sides of vessels and into cargo holds is necessary.
- ▶ **Large dimensions:** A reach of 18 m and an operating weight of 67 tonnes provide large working radii, the ability to handle large loads, and an excellent daily volume capacity when handling materials.
- ▶ **Low costs:** The machine's efficient electric drive keeps energy costs down to a minimum. In addition, the unit is much easier and cheaper to maintain than its diesel engine counterparts.
- ▶ **Versatile and flexible:** Whether a cactus grab, a load hook, or a different attachment – attachments can be quickly changed to deal with the material being loaded, making the unit ideally suited to the flexibility involved in port operations.
- ▶ **Fueling is a thing of the past:** Not having to stop for refueling increases productivity. Moreover, a 60-m cable reel and a plug-and-socket connection enable the machine to travel to different locations of use.



A stable view of your surroundings



RHL340

- ▶ **Ideal configuration:** An operating weight of 32 tonnes, a reach of up to 13.7 m, and a powerful 128 kW turbodiesel engine make the RHL340 a versatile powerhouse for countless applications.
- ▶ **Perfect match:** The unit's undercarriage is not simply a modified excavator undercarriage, but was specifically designed to meet the machine's unique requirements. This has resulted in an especially large base and a large working radius even under heavy loads.
- ▶ **Simple and sturdy:** The mechanical track adjustment system, which comes as standard, makes it possible to easily switch between the unit's transportation and working positions. The system is practically maintenance-free and extremely sturdy.
- ▶ **Adaptable:** Customers can choose between grouser and flat shoes depending on the characteristics of the ground on which the unit will be operated.
- ▶ **Raised position:** The fact that the crawler machine has been equipped with a pylon gives operators a clear line of sight into containers, shredders, and shears and provides an ideal all-around view in challenging working environments.
- ▶ **Ergonomic:** An air-conditioned cab, a back-friendly seat, and perfectly laid out controls ensure fatigue-free work.





HEAVY-DUTY MOBILE MACHINES

Larger undercarriages increase stability and performance

Our heavy-duty mobile machines demonstrate just how perfectly the components that make up the Terex® Fuchs modular system match each other. These machines are equipped with the undercarriage from the next larger model range, which is assembled with the use of an adapter ring. This makes it possible to optimize the machines' grab handling characteristics and significantly increase their stability. The advantage of using this combination of components from two different model series? Additional costs for the modification remain low, and the fast procurement of spare parts is guaranteed at all times.



When making goods move quickly is of utmost importance

MHL365

- ▶ **Flexibility and performance combined:** 18 m reach and 186 kW power output, to shift even the heaviest loads – fast.
- ▶ **Covering the ground and taking the load:** An extra large under-carriage (footprint of 6.6 x 5.7 m approx.) to ensure stability.
- ▶ **Getting a grip:** An extensive selection of gripping attachments, such as a 4 m³ clamshell grab and a 20-tonne lifting hook, enable the material handler to be adapted to deal with a wide range of goods.
- ▶ **The harbormaster:** With its optional offset loading configuration, the MHL365 manages quayside conditions – such as varying water levels and differing hull profiles – with the ease of a master.
- ▶ **Useful options:** The machine can be configured with additional features such as a glass floor, all-round Xenon work lights and a variety of loading systems.
- ▶ **Comfort, not complexity:** A high-quality cockpit with joystick control and a clearly arranged multifunctional display, for a more productive day's work.
- ▶ **Efficient under any conditions:** Sophisticated engineering has achieved the perfect balance between power, mechanics and hydraulics. Together with minimal fuel consumption (through intelligent engine management), this maximises goods volumes handled per liter of fuel consumed.

Perfectly equipped for an enormous variety of tasks



MHL380 XL

- ▶ **Enormous range:** A cranked boom enables the machine to cover a working radius of 22 m.
- ▶ **Box seat:** The cab, which is infinitely adjustable both horizontally and vertically, allows for an eye level of up to 8.5 m, providing an ideal view of the entire working area.
- ▶ **The best outlook possible:** Additional cameras on the dipperstick and on the rear end provide an optimum all-around view.
- ▶ **Plenty of power:** With an output of 273 kW and an enormous torque, the 6-cylinder diesel engine provides an abundant power reserve for the 76-tonne material handling machine.
- ▶ **Extra large pads:** The larger stabilizer pads guarantee a high level of stability even under large loads.
- ▶ **Speed and feeling:** Thanks to a high-precision joystick steering system and a sensitive and very responsive high-performance hydraulic system, operating maneuvers can be performed quickly and with perfect precision.
- ▶ **Comfort and safety:** A ladder access system certified by the German Employer's Liability Insurance Association, an ergonomic sliding door on the cab, and a raised handle for opening the maintenance hatch on the cab floor ensure convenient, comfortable, and safe access for operation and maintenance.

100% reliable – whether moving or on stabilizers

MHL365

- ▶ **Getting to grips:** With a 52-tonne operating weight, the loading set-up comprises a 2.5 m³ Arden timber grab on a straight boom with a 16.5 metre working radius.
- ▶ **Gripping power:** A high-torque 6-cylinder-diesel (186 kW), quick-acting, high-efficiency hydraulics and precision hydraulic controls guarantee up to 4 loading cycles per minute.
- ▶ **Exceptional stability and load capacity:** A robust structure and oversize undercarriage make for safe and speedy work, even with the heaviest loads.
- ▶ **Reliability:** Work attachment oil filters fitted to the superstructure prevent dirt particles from entering the hydraulics and damaging the pump, even with frequent work attachment changes.
- ▶ **Staying comfortable and alert:** An ergonomic driver's seat, user-friendly controls arrangement and a clear plain-text display allow fatigue-free work, even on long days in the cab.
- ▶ **With a view to safety:** The cab can be raised and moved forward, providing the operator with a perfect overview of his working area, whether loading, unloading or towing.
- ▶ **Down with down-time:** Each component is designed for the longest possible service interval, reducing maintenance down-time to a minimum.



Dynamic and stable

MHL355

- ▶ **A perfect mix:** The superstructure, powerful 148-kW turbodiesel engine, and equipment are those of the MHL350, providing the machine with a working radius of up to 16 m – all supported by the undercarriage of the next larger model, the MHL360, with a larger stabilization footprint.
- ▶ **Stable while stationary – quickly on the go again:** The machine is perfectly stable even at the limits of its max. load capacity. This makes the unit much more dynamic when used in mobile operations.
- ▶ **Elevated operation:** Upon request, the cab can be raised by 1.0 m with a rigid mechanism. This improves the operator's view when space is tight and when feeding material into high-wall containers.
- ▶ **Sophisticated load management:** In line with the machine's structural characteristics, the intelligent load management system, featuring sensors and an overload shutdown mechanism, increases the load limit within close range considerably.
- ▶ **Making work fun:** The comfort cab, which comes with air condi-



tioning and a back-friendly operator seat as standard, ensures fatigue-free and comfortable operation together with the ergonomic layout of all controls and a high-resolution text display.

- ▶ **Customized standard:** The combination of two standard models for the superstructure and undercarriage means that the use of special-purpose parts is kept to a minimum. This helps ensure efficient maintenance and quick spare parts procurement.



MHL350 HD

- ▶ **Solid base:** The use of a larger undercarriage gives the material handling machine outstanding stability and a remarkable loading capacity.
- ▶ **Optimized for the industry:** The MHL350 HD is equipped with a trailer hitch for timber handling applications. This means it can also be used as a tractor and is able to tow heavy trailers over long distances.
- ▶ **Additional operator comfort:** Travel drive feeding valves and pneumatic instead of solid rubber tires maximize operator comfort.
- ▶ **Variety of attachments:** A variety of attachments for specific uses are available, such as a log grab with a capacity of 2 m².
- ▶ **XXL dimensions:** A reach of up to 16 m, increased load capacities due to the larger undercarriage, and a powerful 148 kW diesel engine establish ideal conditions for a wide variety of applications.
- ▶ **Fast and quiet:** Large loads can be positioned with utmost accuracy and precision without jerking and uncontrolled swinging movements.

The material handling machine that also serves as a towing unit

PYLON-MOUNTED MACHINES



Elevated and conducive to impressive views

Pylons can be combined with standard undercarriages, heavy-duty machines, and crawler undercarriages as per our customers' requests. They provide a better line of sight into shredders and shears, minimize the risk of collisions in awkward spaces by giving operators a better view of their surroundings, make it possible to pile up higher stockpiles, and improve a machine's ability to load and unload ships with tall sides.



High above wharf walls

MHL380 XL

- ▶ **XL size and XL performance:** An operating weight of 78 tonnes, a maximum working radius of 22 meters, and a 12-litre, 273 kW diesel engine.
- ▶ **Fast and precise:** High-performance hydraulics combined with sensitive controls enable rapid, smooth maneuvers and precise positioning, even when handling heavy loads.
- ▶ **Rock-steady:** Outsize outrigger pads and solid engineering provide a guarantee of stability, even under extreme loading.
- ▶ **A higher perspective:** Because of the raised undercarriage, the eye-level can be up to 8.5 m high; and a glass floor in the cab provides the best possible view into railway wagons.
- ▶ **Climb on board:** Easy access via walkways and platforms – cab can be fitted with optional sliding door.
- ▶ **Safe and secure:** All walkways, steps and associated equipment are certified by the [Bau-Berufsgenossenschaft](#) (construction industry insurance association).
- ▶ **Comfort in the cab:** The ergonomic layout of the air-conditioned cab, with its useful storage compartments, clear plain-text display and intuitive joystick control, guarantees safe, fatigue-free working.



Elevated operation: Hard work on soft ground

PYLON-MOUNTED MACHINES



RHL340

Accessing new heights

MHL350

- ▶ **Elevated:** A pylon is installed between the undercarriage and superstructure, making it possible to work at an eye level of 6.5 m. This provides operators with a better line of sight when feeding scrap shears or loading high-wall containers with material.
- ▶ **High-flyer:** Materials being handled can be lifted further upwards and swung over and beyond obstacles. In addition, piling height limits are increased as well.
- ▶ **Clever linkage:** The superstructure's raised position enables the boom to be lowered further away than with the standard machine, benefitting the machine's linkage.
- ▶ **Proven features:** The machine's specifications – operating weight of 34 tonnes, reach of 16 m, and engine output of 148 kW – are the same as those of the standard MHL350 model. It also goes without saying that the standard unit's legendary robustness and durability characterize the special-purpose model as well.
- ▶ **Not just for one single customer:** Equipping the standard model with a pylon makes the MHL350 the ideal machine for a number of special requirements, which is why this special-purpose model is used by numerous scrap and recycling businesses throughout the world.

Towering workstation

MHL365

- ▶ **Top position:** In addition to the 1.4 m-high pylon, the cab is raised by an additional 0.5 m, providing an ideal view of the general area and an optimal line of sight into machines when feeding scrap shears (for example).
- ▶ **Ready to perform:** With a powerful 186 kW engine, an operating weight of 56 tonnes, and a working radius of up to 18 m, the MHL365 is ideally suited to deal with large handling volumes at scrap yards and recycling centers.
- ▶ **Wide support:** The larger undercarriage provides for a high degree of stability even under large loads. Moreover, the fact that the undercarriage is the standard component belonging to the next larger model range means that spare parts can be quickly procured if necessary.
- ▶ **Practical assembly aids:** The clevises on the superstructure enable it to be quickly placed back on the undercarriage with the help of a crane after the 1.4-m pylon is transported as a separate module.
- ▶ **Flexible access:** The safe catwalk system (certified by the German Employer's Liability Insurance Association), which can be provided as a folding system upon request, does not make the machine any wider. This makes it easy to maneuver even when space is highly constrained.
- ▶ **Feels natural:** The intuitive joystick steering system makes it easy to carry out handling maneuvers quickly and with laser precision.



Electrifying efficiency

Electric drives are today's forward-looking trend – not only in cars, but also in mobile material handling machines. This is especially the case with indoor applications, stationary machines, and rail undercarriage machines, in which powerful zero-emission electric drives that are extremely easy to maintain have very tangible advantages. Some of these include low operating and servicing costs, low noise emissions and heat build-up, and the extensive use of standard components from our range of diesel engine models, which ensures that spare parts will be widely available.



The right connection, every single time: The cable lengths and cable reel designs in Terex® Fuchs electric machines are adapted to each customer's specific needs in line with the required reach and the available connection options on site.

ELECTRIC MACHINES



Clean indoor performance



MHL820

- ▶ **Compact and agile:** With a 20-tonne service weight, a reach of 10.4 meters and 4-point stabilization, the MHL820 is ideally suited for a wide range of recycling/ scrap handling duties.
- ▶ **Power to spare:** With its high torque and a total power output of 97.5 kW, there is ample power in reserve for rapid maneuvering, even with heavy loads.
- ▶ **Staying mobile:** Using the power cable as its supply source (other options available, such as cable reel), the MHL820 can move around quickly within the cable's generous range; this direct power connection means no need for refueling journeys or for battery charging downtime.
- ▶ **Quiet and clean:** No exhaust gases, little noise and very little heat output – these are the features which make the MHL820 the natural choice when operating indoors or close to residential areas.
- ▶ **Low operating costs:** The electric drive means not only low running costs; exceptional ease of maintenance also means good savings on service costs.
- ▶ **Familiar operation:** Machine controls, including the familiar CAN BUS system, are almost identical with those of the diesel variant, so the operator doesn't need to learn to operate the machine afresh.
- ▶ **Numerous options:** The Terex® Fuchs MHL820 can be equipped with a good range of options. Examples include LED lights, dust protection, armoured glass, and special grab attachments, such as a radiation detector incorporated into the grab for use when handling medical waste.



Plug and play

RHL860 XL-trac

- ▶ **Load manager:** The pylon's pyramidal shape optimally transmits forces into the machine's base. In addition, the extra-wide undercarriage with optional 800-mm flat shoes makes it possible to handle extremely large loads at a range of up to 18 m.
- ▶ **Perfect view:** A second pylon can be mounted on the pylon that is integrated into the undercarriage. This makes it possible to reach eye levels of up to 10 m – providing a perfect line of sight into stationary shears.
- ▶ **Easy climb:** The machine's ergonomic ladder access systems are designed according to the latest state of the art, certified by the German BG-BAU construction employers' liability insurance association, and ensure quick, safe, and convenient access to the unit.
- ▶ **Electrifying power:** With its total output of 184 kW, the 67-tonne machine's electric drive gets the unit's high-performance hydraulic system moving quickly whenever necessary.
- ▶ **Mobile task force:** A 50-m cable reel extends the machine's working range. Having plug connections at various points is an easy way to multiply the machine's locations of use.
- ▶ **Tough as nails:** The machine's structural characteristics, all the way from the undercarriage to the dipperstick, are perfectly adapted to the tough day-to-day work that characterizes recycling and scrap handling operations. Needless to say, so are all of the unit's other components. This results in maximum sturdiness, ease of maintenance, and durability.



Exciting possibilities, both indoors and in public spaces

MHL831

- ▶ **Compact and supercharged:** A 12-m boom, an operating weight of 24 tonnes, and a powerful motor with a total output of 132 kW make the machine a versatile solution for countless applications.
- ▶ **Variable output:** In addition to the main motor for the hydraulic system, the MHL831 features separate motors for additional functions. The material handling machine has a remarkable level of energy efficiency due to its ability to adjust its total motor output in line with its actual load demand.
- ▶ **Quiet and refined:** Despite its sheer power, the machine only produces minimal noise and barely perceptible vibrations.
- ▶ **For indoor and outdoor use:** A zero-emission and low-noise electric drive makes the MHL831 an ideal choice not only for outdoor, but also indoor assignments.
- ▶ **Confident handling:** The use of the CAN bus system found in the machine's diesel engine version pampers operators of the electric model with the series' usual controls.
- ▶ **Familiar standards:** The cover panels, main pump, control valve manifold, and many other parts are identical to those in the standard machines. This ensures straightforward servicing and the usual quick procurement of spare parts.



MHL850

- ▶ **Hardened for scrap yard operations:** With an operating weight of 34 tonnes, a working radius of 16 m, and versatile grab and attachment options, the MHL850 is perfect for scrap handling environments.
- ▶ **Breathtaking torque:** The hydraulic system's main drive provides a solid 132 kW with the enormous torque typical of electric motors. Additional motors with a total output of 22 kW are flexibly switched on and off for additional operating functions.
- ▶ **Heat-free:** The machine can barely be heard when working indoors and shines due not only to its zero-emission design, but also to its extremely low heat buildup levels. This help keeps temperatures comfortable even on hot days.
- ▶ **Cost-effective workhorse:** No refueling stops. Low operating and maintenance costs, plus all the advantages of the nearly identical diesel engine model.
- ▶ **Fast and precise:** Thanks to a high-performance hydraulic system and a cleverly engineered control system, fast, precise, and smooth maneuvers can be carried out even under large loads.
- ▶ **Fully equipped:** Useful extras available upon request include air-conditioned and heated seats, a bulletproof glass window, and ball valves on the dipperstick.



Tough as nails. Efficient. Electric.

PURPOSE-BUILT



MHL335 with harvester head



AHL831 substructure

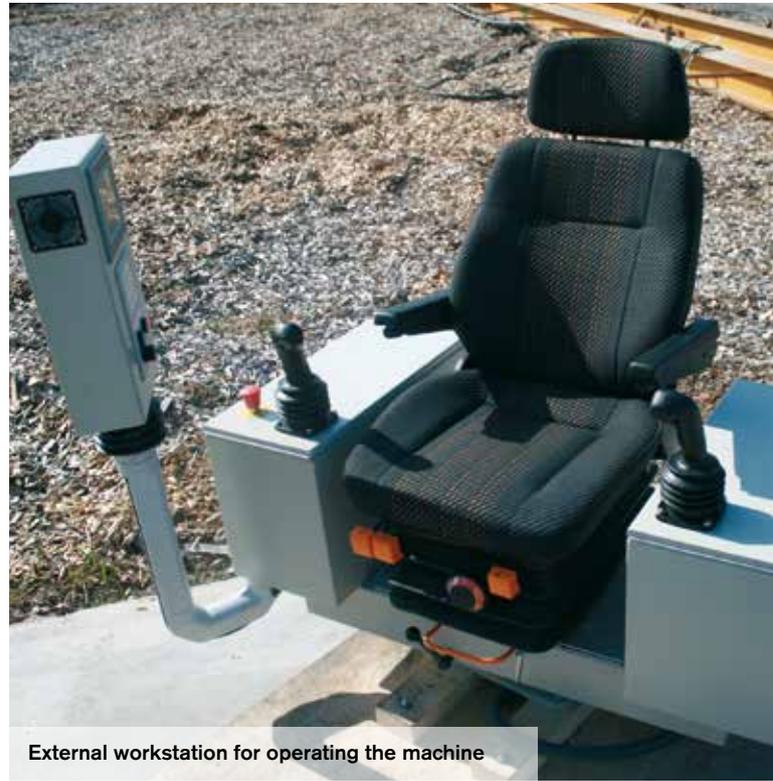


Undercarriage with third axle for reducing ground pressure





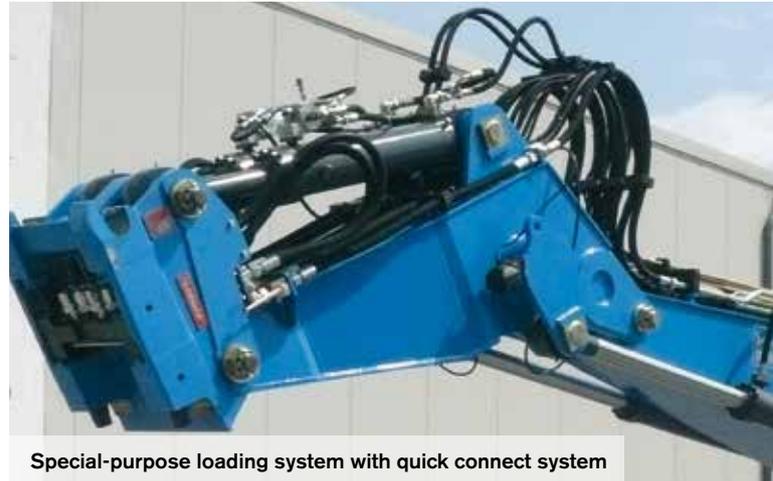
High-performance rotary cutter: low-vibration and extremely precise



External workstation for operating the machine



Larger stabilizer pads for a lower ground pressure



Special-purpose loading system with quick connect system



FQC (Fuchs Quick Connect) material handling machine with shears. Nearly all shear makes can be used



Machine undercarriage with elastic dampening elements



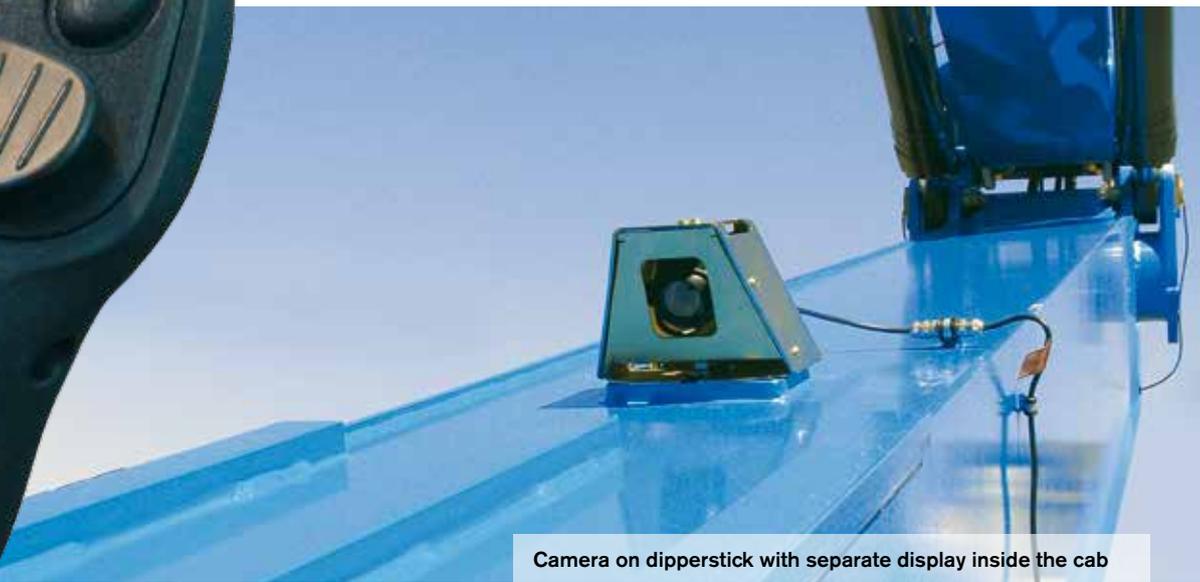
MHL380 superstructure with offset cab mounting



LED floodlights with various intensities



Camera on dipperstick with separate display inside the cab



Proportional joystick control for various functions, such as steering and grab functions









WORLD-CLASS SERVICE & SUPPORT



Anyone who acquires first-class products also expects first-class service – both before and after their purchase. This is why our services are tailored to the specific needs of each individual Terex® Fuchs customer, much like our material handling machines. In other words, you can rest assured that every Terex® Fuchs material handling machine is accompanied by the certainty that you will be able to use it reliably.



Comprehensive documentation and useful servicing support, not to mention our mobile service unit, help dealers perform maintenance and repairs quickly and professionally on site. For emergencies and other urgent cases, service partners have access to a hotline outside normal business hours.



Training and workshops

The global Terex® Fuchs service network serves as an interface between user and manufacturer. Highly-qualified technical advice experts and technicians are available to answer any questions that users might have with regard to Terex® Fuchs material handling machines. Moreover, in order to ensure that their skills and know-how are always up to date, these experts participate in a fine-honed training and workshop program at the Terex® Fuchs training center that sees around 450 participants every year. Our specially trained service technicians maintain our relationships with our service partners and provide them with support in order to help them solve any especially challenging tasks.

Quick parts service

In the rare case that it is needed, it needs to be done quickly. This is why the Terex® Group has set up a state-of-the-art spare parts warehouse in Rothenburg ob der Tauber that handles around 47,000 spare part shipments a year. 95 percent of deliveries are shipped within 24 hours.





FUCHS

www.terex-fuchs.com

Effective starting: September 2012. Product specifications and prices are subject to change without notice or obligation. The photographs and/or drawings in this document are for illustrative purposes only. Please refer to the appropriate Operator's Manual for instructions on the proper use of this equipment. Failure to follow the appropriate Operator's Manual when using our equipment or to otherwise act irresponsibly may result in serious injury or death. The only warranty applicable to our equipment is the standard written warranty applicable to the particular product and sale and Terex makes no other warranty, express or implied. Products and services listed may be trademarks, service marks or trading names of Terex Corporation and/or its subsidiaries in the USA and other countries. All rights are reserved. Terex is a registered trademark of Terex Corporation in the USA and many other countries. © 2012 Terex Corporation.



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