

Transforming your excavator. And your business

> Rototilt[®] makes it possible.

SMARTER • SAFER • MORE PROFITABLE

Rototilt's recipe for success is all about being one step ahead. We have followed this approach right from the start, when we presented the first tiltrotator to the world in 1986. We continue to do so today by being responsive and by striving to understand our customers' situation. By finding smart solutions that help operators to complete their assignments in a smarter, safer and more efficient way. But also by satisfying new market requirements and helping our customers to achieve sustainable profitability.

This focus on development that creates opportunities has made Rototilt a world leader when it comes to technical solutions that maximize the excavator's efficiency and safety. We assume responsibility for ensuring that the entire chain of solutions – from machine coupler to tiltrotator and tool – creates a functioning whole, where every part of the Rototilt chain is optimized to work perfectly together.

This development is continuing. Our new, state-of-the-art factory is opening the door to further progress, collaborations and development projects. Our journey has only just begun ... Rototilt makes it possible.

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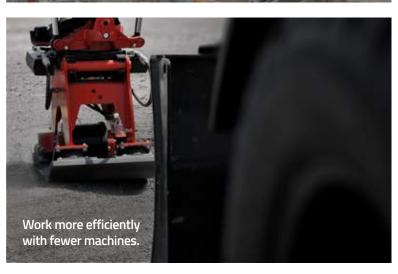


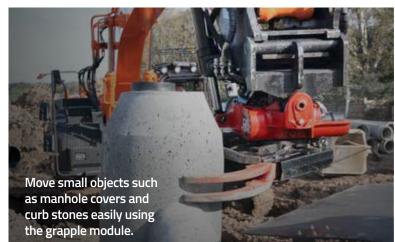




Simplify your work regardless of the position of the machine or confined locations. Ideal in the case of railway work or in urban environments.











> The Rototilt system.

Having the right tiltrotator for the right excavator is naturally an important precondition for an efficient machine. But there's more to it than that. When you choose Rototilt for the entire chain, you get a complete system from one and the same supplier, which has been designed to fit together and which optimizes safety, flexibility, service life and productivity. We take responsibility for installation and support, and provide clear interfaces with the excavator and excavation system. A complete tiltrotator system from Rototilt also provides opportunities for more types of work. So choose a tiltrotator, a machine coupler, a control system and tools that will help you increase your profitability.

ITTALLE DESIGN

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CONTROL SYSTEM

The control system is one of the most important elements when investing in an excavator with a tiltrotator. The control system is essential for safety, ergonomics, flexibility, operability, reliability and technical quality. Innovative Control System, ICS, is our name for the smartest control system on the market.

> Rototilt all the way!

ROTOTILT QUICKCHANGE™

With the latest generation Rototilt QuickChange[™] for machine couplers, tiltrotators and tools, you can change hydraulic tools without even leaving the cab. Safer and simpler than any other solution on the market.

SECURELOCK™

SecureLock™ gives you safe, continuous monitoring and eliminates the risk of swinging or dropped tools. This safety lock is intended for both machine coupler and tiltrotator, and exceeds all applicable safety requirements.

TOOLS

With Rototilt's tools, you can take on more types of assignments and work even more efficiently. The tools are optimized for our tiltrotators, guaranteeing that the tools are sufficiently robust for your work, but not too heavy for your machine. Rototilt's attachment frames ensure that both hydraulic and mechanical tools will work as intended on your machine.

MACHINE COUPLER

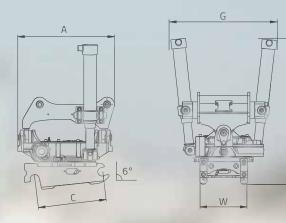
No other attachment available on the market offers the same combination of durability, optimized excavation geometry and safety. The heavy-duty locking construction gives you a machine coupler completely free of play, with a small number of wellprotected components. With SecureLock™, you also eliminate the risk of swinging or dropped tools.

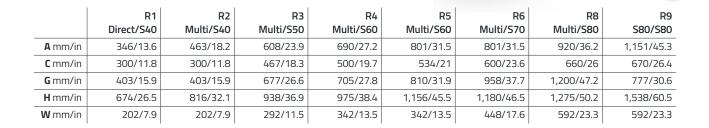
TILTROTATOR

Rototilt's tiltrotator is packed with technological innovations that transform your excavator into a smart tool carrier and improve your potential to take on new types of work, while maximizing safety through SecureLock™.

> Our tiltrotators.

More and more are discovering the benefits of a tiltrotator solution that maximizes both safety and productivity, and that can be adapted to each operator's needs. From the R1, which combines smart technology with strength normally only found in significantly higher weight classes, to the world's largest tiltrotator – the R9 – which runs circles around the competition both in terms of raw power and intelligence.





ROTOTIL



PIN GRABBER

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Pin Grabber is available on the larger R4, R5, R6, R8 Rototilt tiltrotators to use standard OEM buckets and tools. Although heavier than the standard Rototilt S Couplers, the Pin Grabber option is popular with larger customers that have a fleet of existing OEM buckets that they want to share between machines. The Pin Grabber range covers all OEM buckets with pin sizes from 60 mm to 90 mm.

> Perfect for your machine. 1 For details see: rototilt.com/en-us/tiltrotators **R1 R**2 R3 R4 R5 R6 **R8 R9** 1,500 – 3,000 – 6,000 -10,000 – 14,000 – 15,000 – 23,000 -30,000 -40,000 kg 3,500 kg 6,500 kg 12,000 kg 16,000 kg 19,000 kg 24,000 kg 32,000 kg Machine weight, min/max 3,307 – 6,614-13,230-22,045 -30,865 -33,070 -50,705 -66,139 -14,330 lb 70,550 lb 88,185 lb 7,716 lb 26,455 lb 35,275 lb 41,888 lb 52,910 lb Bucket width 1.0 m 1.7 m 1.5 m 7 N r 1.6 m

| max | 39 in | 48 in | 59 in | 64 in | 67 in | 72 in | 79 in | 94 in |
|--|---------------------------------|-----------------------------------|---|---|---|---|---|-----------------------------------|
| Breakout force, | 35 kN | 50 kN | 81 kN | 125 kN | 140 kN | 170 kN | 200 kN | 280 kN |
| max | 7,868 lbf | 11,240 lbf | 18,210 lbf | 28,100 lbf | 31,473 lbf | 38,220 lbf | 44,960 lbf | 62,946 lbf |
| Breakout | 25 kNm | 43 kNm | 85 kNm | 163 kNm | 200 kNm | 255 kNm | 330 kNm | 500 kNm |
| torque, max | 18,440 ft.lb | 31,715 ft.lb | 62,695 ft.lb | 120,225 ft.lb | 147,512 ft.lb | 188,080 ft.lb | 243,395 ft.lb | 368,781 ft.lb |
| Weight, from* | 75 kg, 165 lb | 170 kg, 375 lb | 290 kg, 639 lb | 315 kg, 694 lb | 410 kg, 904 lb | 460 kg, 1,014 lb | 730 kg, 1,609 lb | 1,400 kg, 3,086 lb |
| Tilt angle | 2 x 40° | 2 x 40° | 2 x 40° | 2 x 40° | 2 x 40° | 2 x 40° | 2 x 40° | 2 x 40° |
| Rotation speed | 7 s at 15 l per | 7 s at 30 l per | 7 s at 50 l per | 7 sec at 60 l per | 7 sec at 65 l/ | 7 sec at 65 l per | 8 sec at 70 l per | 7 sec at 125 l per |
| (1 rotation per) | min/4.0 gpm | min/7.9 gpm | min/13 gpm | min/16 gpm | min/17 gpm | min/17 gpm | min/18 gpm | min/33 gpm |
| | 21 MPa | 25 MPa | 25 MPa | 25 MPa | 25 MPa | 25 MPa | 25 MPa | 25 MPa |
| | 3,046 psi | 3,626 psi | 3,626 psi | 3,626 psi | 3,626 psi | 3,626 psi | 3,626 psi | 3,626 psi |
| | 1,700 Nm | 3,900 Nm | 6,600 Nm | 8,200 Nm | 8,600 Nm | 8,600 Nm | 10,700 Nm | 16,000 Nm |
| | at 21 MPa | at 25 MPa | at 25 MPa | at 25 MPa | at 25 MPa | at 25 MPa | at 25 MPa | at 25 MPa |
| | 1,254 ft.lb | 2,876 ft.lb | 4,868 ft.lb | 6,048 ft.lb | 6,343 ft.lb | 6,343 ft.lb | 7,892 ft.lb | 11,801 ft.lb |
| | at 3,046 psi | at 3,626 psi | at 3,626 psi | at 3,626 psi | at 3,626 psi | at 3,626 psi | at 3,626 psi | at 3,626 psi |
| Tilting torque (single/ dual-action) | – / 5,800 Nm – / 4,278 ft.lb | – / 14,400 Nm – / 10,620 ft.lb | 21,500 / 26,500 Nm 15,858 / 19,545 ft.lb | 26,500 / 40,500 Nm 19,545 / 29,870 ft.lb | 30,900 / 45,100 Nm 22,791 / 33,264 ft.lb | 44,500 / 56,600 Nm 32,821 / 41,746 ft.lb | 50,900 / 64,700 Nm 37,541 / 47,720 ft.lb | – / 90,000 Nm – / 66,381 ft.lb |
| ICS recommended | d hydraulic flow, n | nin/max | | | | | | |
| | 20 l/min | 45-80 l/min | 45-75 l/min | 80-95 l/min | 90-105 l/min | 95-115 l/min | 105-125 l/min | 200 l/min |
| | 5.3 gpm | 12-21 gpm | 12-19 gpm | 21-25 gpm | 24-28 gpm | 25-30 gpm | 28-33 gpm | 53 gpm |

TE/TLE recommended hydraulic flow

| Rotation | 15 l/min 3.9 gpm | 30 l/min 7.9 gpm | 50 l/min 13.2 gpm | 60 l/min 15.8 gpm | 65 l/min 17.2 gpm | 65 l/min 17.2 gpm | 70 l/min 18.5 gpm | - |
|-------------------------------|----------------------------|-----------------------------|------------------------------|------------------------------|----------------------|----------------------|---------------------------------|---|
| Tilt (single/ dual-action) | - / 6 l/min - / 1.6 gpm | - / 12 l/min - / 3.2 gpm | 15 / 23 l/min 4 / 6.1 gpm | 19 / 33 l/min 5 / 8.7 gpm | | | 37 / 55 l/min 9.7 / 14.5 gpm | - |

* The weight depends on the type of attachment frame, bucket width, quick coupler and choice of control system.

Rototilt's unique advantage, our attention to detail.

Fit the tiltrotator directly on the stick for lower weight and more digging power, or with a machine coupler for the potential to put the tiltrotator aside when you need maximum digging power.

Strong bolted joints hold the rotor housing and quick coupler together.

Outlets for extra functions. Easy connection of hydraulic tools such as grapples or sweeper rollers.



New, more powerful worm gear delivers smoother operation, lower friction and an increased service life. Large bearing surfaces effectively absorb and distribute excavation forces.



Increased performance and improved reliability with a new, built-in rotor sensor, which further improves the RPS function.



Improved stability with new lower radial bearing.



New high-pressure seal at the hydraulic motor prevents leakage, along with improved grease nipple that eliminates the risk of the rotor housing taking in air via lubrication of the rotor seal.

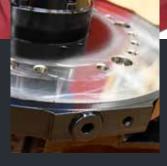
Save time with Rototilt QuickChange[™] – our fully automatic quick coupler system.

360° endless rotation and 40° tilt angle.

Rotor housing cast in one piece. Lighter and stronger than welded alternatives.

Low weight. Smart construction with weight in the right place.

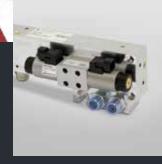
Safe locking with SecureLock™.



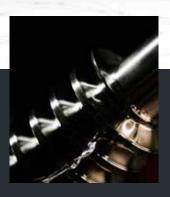
Integrated channels mean fewer hoses and increased reliability.



Reduced friction in the rotor thanks to new worm wheel with specially designed lubrication grooves.



High system pressure and smart design with, for example, low construction height provides higher torque. It also delivers higher performance for other accessories that are used beneath the tiltrotator.



Oil-filled rotor housing. Unlike grease, oil extracts friction heat and lubricates the entire worm gear. In addition, metal particles in the oil are removed during oil changes.

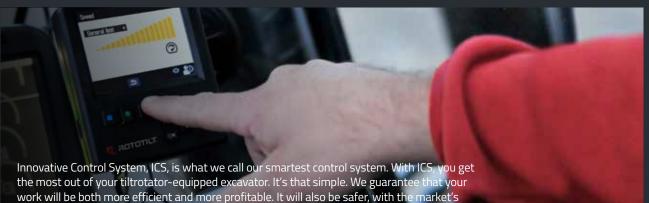
Time-saving functions improve the efficiency of your excavator.

The control system is one of the most important elements when investing in an excavator with a tiltrotator. Rototilt gives you the right control system from the start, adapted for your excavator and the work you do. The control system is essential for safety^{*}, ergonomics, versatility, operability, reliability and technical quality. Regardless of which of our control systems you choose, you can feel secure in the knowledge that it's in compliance with ISO standard 13031 and EN474.

* We guarantee safety through risk analyses and CE-labelling of the entire tiltrotator system

ICS – our smart control system.





leading safety lock – SecureLock™.

ICS is your control system for Rototilt tiltrotators and gives you a wide range of smart features:



PULSE FUNCTION

Materials are distributed correctly and smoothly with a single press of a button. You decide how quickly and widely the materials are spread.



ADJUSTABLE SPEED

Customize and save the correct speed in the system. For example, one speed for a compactor and another for a sweeper roller. Quick, safe and efficient.



OPERATOR SETTINGS

Quickly switch between different operator settings. The display is well-arranged, simple and has sturdy buttons. Clear error indication makes it quick and easy to solve problems.



TOOLS THAT REQUIRE A HIGH FLOW

ICS also lets you run and control tools that require a high flow with the same handle and display. A smart function that automatically manages the flow simplifies the operation of hydraulic tools.



WHEEL OR TRACK CONTROL

A smart function that lets you move the machine with your hands on the levers. You can work more efficiently and save time with everything you do.



INTEGRATION WITH EXCAVATION SYSTEMS

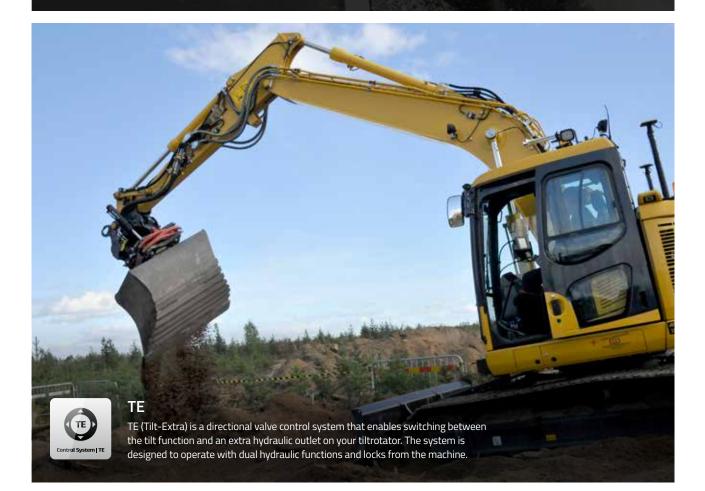
Integrate the excavation system and your tiltrotator with RPS (Rototilt Positioning Solution). This means that you are always in the right position.





TLE

TLE (Tilt-Lock-Extra) has directional valves that enable switching between the tilt function and an additional hydraulic outlet on your tiltrotator. The quick coupler on the tiltrotator is also controlled by this system. The system is designed to operate with dual hydraulic functions from the machine. The tilt and rotation functions can be used at the same time if permitted by the machine.



Which control system best suits your machine and your needs?

This table provides a quick overview of the functions that are available for the various control systems so that you can quickly choose the system that's right for you. Below the table, we have also listed requirements for the base machine for each control system.

| | ICS with SecureLock™ | ICS with sensor | TLE/TE |
|--|----------------------|-----------------|--------------------------|
| SecureLock™ | • | o | o |
| Rototilt Positioning Solution (RPS) | o | o | o |
| Auto-calibration | • | • | - |
| Position indication | • | • | - |
| Home position function | • | • | - |
| Individual operator settings | • | • | - |
| Individual speed setting | • | • | - |
| Display in cab | • | • | - |
| Trouble shooting on display | • | • | - |
| Proportional control | • | • | • (depending on machine) |
| Changing roller position | • | • | - |
| Pulse function | • | • | - |
| Tilt, rotation and extra in same excavation movement | • | • | _ |

• : Standard • : Optional

BASE MACHINE REQUIREMENTS

ICS

- 1 proportionally regulated one-way
- hydraulic circuit, e.g. hammer hydraulics
- Available pressure should be 25-28 MPa - Available flow dependent on tiltrotator
- model

TLE

- 2 bi-directional hydraulic circuits
- Available pressure should be 25-28 MPa
- Available flow dependent on tiltrotator model

ΤE

- 2 bi-directional hydraulic circuits
- 1 hydraulic circuit for locking function
- Available pressure should be 25-28 MPa
- Available flow dependent on tiltrotator model

Technological development that provides you with safer working conditions.



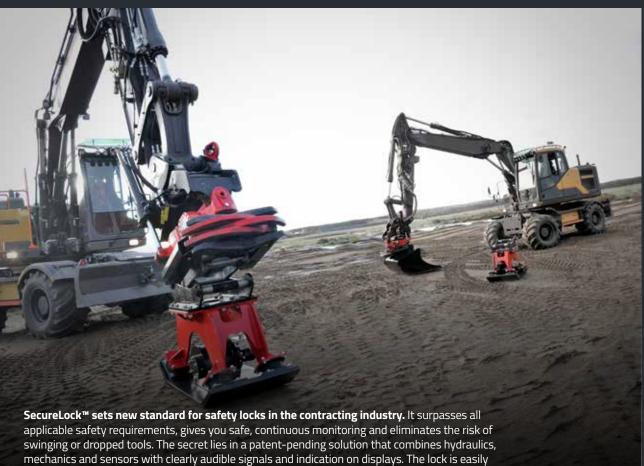


Watch the video at: rototilt.com/en-us/securelock

Safety characterises everything we do at Rototilt. All development work, all products and functions begin and end with the safety aspect. The much-used expression "no chain is stronger than its weakest link" is very applicable in this work. Each link should instead add safety to the chain. That's why we offer our prize-winning safety locks – SecureLock™ – for both quick couplers and tiltrotators. That's why we have a special LED lamp to facilitate tool changes at night. And that's why we are so careful with engineering and quality assurance of all constituent components. You can rely on Rototilt.

SecureLock[™] – for both tiltrotators and machine couplers.





controlled from a single display for the tiltrotator and machine coupler.

SECURELOCK[™] AT A GLANCE:

- Operators are immediately alerted both visually and with an acoustic signal – if tools are not properly coupled.
- Continuous monitoring to ensure that tools are always securely locked.
- Warns the operator when tools need to be repaired or replaced.
- LED light that turns on automatically to improve visibility when changing tools.
- Available for Rototilt machine couplers and tiltrotators, and is compatible with most attachment types.
- Standard in Rototilt QuickChange™.

*Standard for most coupler types.



>RPS – Precise positioning.

RPS (Rototilt Positioning Solution) is connected to the machine's excavation system and gives the operator full control for exact tool positioning. This function improves the efficiency of tasks such as grading, digging in confined areas or moving large volumes of soil. In addition, RPS provides significant fuel and time savings.

RPS is designed for the Leica, Trimble, Topcon, MOBA/Novatron and L5 excavation systems, and Rototilt provides an ingenious interface with sensors that send the right information to the excavator system.

AGC – TIME-SAVING AUTOMATION

Automatic Grade Control, AGC, which is included as standard, automatically adjusts the tool's tilt angle according to the model in the excavation system. For operators this means significant time savings, since you only need to keep track of height, enabling you to concentrate on what is happening on the ground instead of having to set the tool with your joysticks.

AGC is designed for the excavation systems from Leica and Trimble.



Watch the video at: rototilt.com/en-us/rps



chakt

ROTOTILT

H: 11,96 m

Avsluta

MENU

NUMB

× Referens: 48.6%

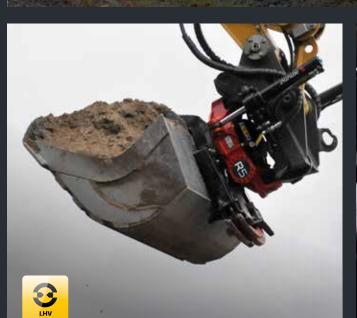
Visa 🗆 Verktyg

HFS – FOR TOOLS WITH HIGH FLOW REQUIREMENTS

A high flow swivel is used on tools with high flow requirements, such as sweeper rollers or brush clearing tools. Up to 200 litres/min at 300 bar (4,351 psi) with minimal pressure drop.

HFC - FOR FLOW-INTENSIVE TOOLS

The High Flow Controller is a unique option that allows you to control a tiltrotator at the same time as a flowintensive compactor, sweeper roller or any other tool that requires a high flow in one direction, even if you have only one circuit for hammer hydraulics. The oil is intelligently distributed between tools and the tiltrotator, and tiltrotator functions are retained but with reduced speed.



LHV – SAFER LOAD HANDLING

Tilt cylinders with Rototilt's load-holding valve safely secure loads even if the hydraulic system loses pressure, as would be the case in the event of a hose rupture. This provides both safe working conditions around the machine and eliminates damage to loads.





ILS – GIVES YOU SMARTER LUBRICATION

ILS (Innovative Lubrication System) enables lubrication of the tiltrotator from a single lubrication point. ILS can easily be connected to your excavator's central lubrication system and distributes grease in the right amount, quickly and smoothly.

ROTOTILT QUICKCHANGE™

Profitable benefits with our fully automatic quick coupler system.

With Rototilt QuickChange[™] for machine couplers, tiltrotators and tools, you can change hydraulic and electronic tools without even leaving the cab. Safer and simpler than any other solution on the market.

With Rototilt QuickChange[™] you get the best of both worlds: Your excavator becomes a full-fledged tool carrier that lets you do jobs faster, smarter and with more precision. At the same time, you can quickly disconnect your tiltrotator in tough environments or when the job doesn't require tiltrotator functionality. Everything is done completely automatically.





HIGH PERFORMANCE

An entirely new construction of hydraulic couplings. Provides you with the performance to power really demanding tools.



UNBEATABLE SERVICE LIFE

Rototilt QuickChange[™] has several unique innovations that combine to give the system a long service life. The secret lies in purposeful product development of each function and component of the system.



MARKET-LEADING SAFETY

A series of safety-enhancing design solutions, the integration with SecureLock™ and the potential to change tools without leaving the cab gives you maximum safety – even if you lose hydraulic pressure.



NEW ATTACHMENT FRAMES FOR TOOLS

Hydraulic tools place high demands on the attachment frame. Rototilt's newly developed tool attachment frames are optimized to suit various types of tools. For really tough conditions and the demands that are placed on hammers and demolition tools, we have developed a cast heavy duty construction. This attachment frame also has a flexible design to suit a wide variety of tools and manufacturers.

For service tools such as grapples and compactors, we have developed a low-weight, welded tool attachment frame and a bolted coupling unit, optimized for Rototilt's tiltrotator and tools. Supplied with an S-type bolt pattern and can also be welded.



_earn more about the benefits of Rototilt QuickChange™: rototilt.com/en-us/quickchange

Innovative technology* provides new user benefits.



- 1 A specially developed, durable nose seal in the hydraulic coupling dramatically increases service life and minimizes the risk of leakage. Nose seals are easily replaced without special tools.
- 2 Smart design for covers and seals protects the couplings against dirt and contaminants.
- **3** Robust integration of hydraulic couplings.
- 4 Extremely stable attachment frame ensures perfect connection of hydraulic couplings to tiltrotators and machine couplers.
- 5 With Rototilt's new attachment frames, you can connect both our own and other manufacturers' tools to your tiltrotator.
- 6 Encapsulated springs in the hydraulic coupling reduce the risk of contamination of the machine's hydraulic system in the event of spring fractures.
- 7 Safety features on machine couplers and quick couplers secure tools even if pressure is lost:
 - Spring-loaded locking cylinder
 - Flat contact surface on locking pistons
 - Constant locking pressure in the locking cylinder is ensured by a check valve
- 8 An entirely new design of the hydraulic couplers provides a high hydraulic flow through the machine coupler. Perfect for tools with requirements for high flow and low pressure drop.
- 9 The security of always having the correct tool connected with the SecureLock™ safety lock as standard.



* Rototilt is continuing to push the limits of what is technically possible through a series of new, patent-pending solutions and countless refinements to existing technology.

> Machine couplers with unique excavation geometry.

Our machine couplers are yet another testament to Rototilt's intensive product development, in which we strive to meet today's and tomorrow's needs by thinking both new and bigger. As each excavator has its own excavation geometry, an adapted machine coupler is mandatory to retain this. No other attachment available on the market offers the same optimized excavation geometry, durability and safety as Rototilt.

grip for a long service life. A heavy-duty locking wedge construction gives you a machine coupler couplers are optimized for the ICS control system in combination with SecureLock™, but can also

change hydraulic and electronic tools without leaving the cab. These attachments utilize the same basic design as our other machine couplers (including SecureLock™).



SAFETY

SecureLock™ is built into our machine couplers. No other manufacturer gives you the same comprehensive and integrated safety solution. The attachment locks the tool, even in the event of lost hydraulic pressure.



EXCAVATION GEOMETRY

Our machine couplers are specially developed to enhance the benefits of your tiltrotator and your tools from Rototilt. No other attachment on the market offers the same optimized excavation geometry.



LONG SERVICE LIFE

Built for large breakout forces and optimized strength. Large contact surfaces counteract wear. This is the machine coupler that can handle those truly heavy jobs.

> Optimized for your excavator.



Learn more about the benefits of Rototilt QuickChange™ for your machine coupler: rototilt.com/en-us/quickchange

| Model | S40 | S45 | S50 | S60 | S70 | S80 | |
|---|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|
| Opening pressure, bar/psi | 300/4,351 | 350/5,076 | 350/5,076 | 350/5,076 | 350/5,076 | 350/5,076 | |
| Permitted locking pressure, min/max, bar/psi | 30/120 / 435/5,076 | |
| Permitted positive torque, kNm/ft.lb | 35/25,815 | 65/47,940 | 65/47,940 | 150/110,635 | 300/221,270 | 600/442,535 | |
| Permitted negative torque, kNm/ft.lb | 23/16,965 | 42/30,980 | 42/30,980 | 75/55,315 | 195/143,825 | 390/287,650 | |
| Max machine weight, kg/lb | 6,000/13,228 | 11,000/24,251 | 11,000/24,251 | 19,000/41,888 | 30,000/66,139 | 40,000/88,185 | |
| Permitted max load, lifting hook, kg/lb | 2,000/4,409 | 3,000/6,614 | 3,000/6,614 | 5,000/11,023 | 8,000/17,637 | 10,000/22,046 | |

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ROTOTILT

Buckets that optimize power and versatility.

Our new and improved buckets take these tools to a new level. Robust and sturdy buckets that combine weight, design and durability in the best possible manner. The buckets have curved floor plates, smooth and progressive digging movement and optimal box construction. In addition, the design delivers unbeatable excavation geometry for Rototilt's tiltrotators and machine couplers. Our three bucket families cover the needs of all excavators between 1.5 and 32 tonnes.

TRENCHING BUCKET

Our trenching buckets have a smooth and stable design for adaptive and safe excavation geometry. This is especially important when accessibility is restricted, margins are small and precision excavation beyond the norm is required. With its narrow shape and effective blade, the bucket reaches deep into trenches.

UNIVERSAL BUCKET

Our universal buckets have bevelled corners, optimized roof angles, long and flat floor plates and a conical design. The conical design makes it easier to fill the bucket and release materials. The optimized roof angle can withstand tough use and allows you to easily rotate the bucket without losing materials.

EXCAVATION BUCKETS

Our powerful excavation buckets have a shape that enables them to penetrate materials quickly and efficiently and to fill the buckets easily. Bucket weight is optimized for Rototilt's tiltrotators so that all power can be used for digging. When you're excavating under difficult conditions, this bucket will prove to be a reliable tool with high capacity. Can be equipped with J-tooth system or inserts.

SORTING BUCKET

Rototilt sorting buckets are designed for easy and efficient material sorting, and are available for machine weights from 12 to 25 tonnes. The buckets are optimized for Rototilt's tiltrotator system and adapted for the unique pulse function Rototilt offers.

Built for really tough jobs.

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Read more at: rototilt.com/en-us/buckets



TOOTH SYSTEM

Our tooth system is a well-proven J-system that can withstand truly heavy duty use. The system has been designed for all applications where high penetration, strong impact resistance and long service life are essential. The teeth are cast in high quality wear steel, are self-sharpening and have a design that gives the bucket especially good digging properties. The teeth are locked from the side with locking pins and rings, and are easy to attach and replace.

MATERIALS

Smart materials choices and innovative design have maximised reinforcements where they are really needed. This increases wear resistance and reduces weight by up to 200 kg. This in turn means more power and reduced fuel consumption.

Grapples ready for tough duty ...

All our grapples are optimized for Rototilt tiltrotators, which means that you can always take advantage of your excavator's full potential. With the focus on safety, strength and versatility, the grapples have a very robust and durable design, ready for those truly tough jobs. Clamping forces up to 10.9 PSI, blade in high strength steel and a broad grapple width that guarantees efficiency.

MULTI-GRAPPLES

The versatile multi-grapples are enclosing and have a multitude of applications, including stone wall construction, sorting and picking. Simply the perfect utility tool for those who want to take on more jobs and supplementary work.

STONE GRAPPLES

Our powerful tip-to-tip stone grapples are great for heavier jobs such as lifting stone, demolition and scrap metal sorting. They are designed for those really tough jobs. All stone grapples provide long service life and maximum safety.

SORTING GRAPPLES

Sorting grapples operate tip-to-tip and are designed for those really heavy duty jobs. With an amply dimensioned chassis, one of the market's broadest grapple widths and claws with excellent durability and optimized weight, you can always rely on the sorting grapple.



earn more about the benefits of Rototilt QuickChange™ for your grapple ototilt.com/en-us/quickchange

... and maximum load safety.



LOAD-HOLDING VALVE

With accumulator and load-holding valve as standard, you can rest assured that the load will be held in place, even if the machine should lose hydraulic pressure. The robust design with dual parallel braces provides maximum strength and durability. Safe efficiency from Rototilt.



INTERCHANGEABLE BLADES

The grapples have bolted blades that are easy to change or turn.

Optimized grapples for your assignments.

Built-in flexibility due to bolt-on attachment frame. Maximum safety with both End-limit dampening for Easy to adapt for different accumulator and loadsmoother operation and attachment systems. holding valve as standard. minimized wear. Available with QuickChange[™] for fast tool replacement without manual connection of hoses. Sturdy and amply dimensioned chassis, optimized for best strength. Dual parallel braces for maximum strength and durability. ROTOTILT Expander pins make it easy to tighten the claws and extend service life. Broad grapple claws (extra wide for SOG) for optimal stability when lifting. Large grapple area makes it possible to lift objects even with small diameters while maintaining precision and Replaceable blades in gripping capability.

High clamping forces. SOG80 is rated up to 75 kN – one of the strongest grapples on the market.

Replaceable blades in high strength steel for maximum resistance to wear.

MULTI-GRAPPLES

| Model | MG20 | MG30 | MG40 | MG60 | MG80 |
|--|------------------------------|--------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Suitable tiltrotator | R2 | R3 | R4, R5 | R5, R6 | R8 |
| Suitable machine weight, metric kg/lb | 3,000-6,000/ 6,615-13,230 | 6,000-11,000/ 13,230-24,250 | 10,000-16,000/ 22,050-35,280 | 15,000-24,000/ 33,075-52,920 | 23,000-30,000/ 50,700-66,140 |
| Max working pressure, MPa/psi | 25/3,626 | 25/3,626 | 25/3,626 | 25/3,626 | 25/3,626 |
| Min working pressure, MPa/psi | 17.5/2,538 | 19/2,756 | 19/2,756 | 19/2,756 | 19/2,756 |
| Recommended flow, I/gal per min | 30/7.9 | 40/10.5 | 60/15.8 | 80/21.1 | 80/21.1 |
| Max flow, grapple close (+), l/gal per min | - | - | 41/10.8 | 55/14.5 | 64/16.9 |
| Max flow, grapple open (-), I/gal per min | - | - | 25/6.6 | 33/8.7 | 38/10.9 |
| Grapple area, m²/ft² | 0.19/2.04 | 0.26/2.08 | 0.33/3.55 | 0.40/4.3 | 0.62/6.67 |
| Max grapple width, mm/in | 1,290/50.8 | 1,500/59.1 | 1,800/73.2 | 1,980/78 | 2,600/102 |
| Min diameter, mm/in | 80/3.23 | 90/3.54 | 130/4.92 | 140/5.32 | 180/6.97 |
| Width, mm/in | 340/13.4 | 460/18 | 580/22.7 | 580/22.7 | 580/22.7 |
| Performance, max grapple width, kN/lbf | 9.5/2,135 | 12.5/2,790 | 16.5/3,710 | 20/4,730 | 16.5/3,690 |
| Performance, tip-to-tip, kN/lbf | 12/2,700 | 14.5/3,240 | 18/4,070 | 22/4,950 | 20,5/4,600 |
| Max permitted load, kg/lb | 3,000/6,614 | 4,800/10,580 | 7,000/15,430 | 8,400/18,520 | 12,000/26,460 |
| Weight, kg/lb | 150/276 | 230/478 | 390/866 | 435/959 | 495/1,091 |

STONE AND SORTING GRAPPLES

| Model | SG40 | SG60 | S0G80 |
|---|---------------------------------|---------------------------------|---------------------------------|
| Suitable tiltrotator | R4, R5 | R5, R6 | R8, R9 |
| Suitable machine weight, kg/lb | 10,000-16,000/ 22,050-35,280 | 15,000-24,000/ 33,075-52,920 | 23,000-30,000/ 50,700-66,150 |
| Max working pressure, MPa/psi | 25/3,626 | 25/3,626 | 25/3,626 |
| Min working pressure, MPa/psi | 19/2,756 | 19/2,756 | 19/2,756 |
| Recommended flow, I/gal per min | 60/15.9 | 80/21.1 | 80/21.1 |
| Max flow, grapple, close (+), I/gal per min | 41/10.8 | 55/14.5 | 64/16.9 |
| Max flow, grapple, open (-), I/gal per min | 25/6.6 | 33/8.7 | 38/10 |
| Grapple area, m²/ft² | 0.2/2.15 | 0.24/2.58 | 0.42/4.52 |
| Max grapple width, mm/in | 1,820/71,7 | 2,100/82.6 | 2,600/102.3 |
| Min diameter, mm/in | 410/16.2 | 480/18.8 | 620/24.6 |
| Width, mm/in | 540/21.3 | 540/21.3 | 900/35.4 |
| Gripping force, max grip width, kN/lbf | 36/8,160 | 50/11,170 | 75/16,700 |
| Gripping force, tip-to-tip, kN/lbf | 20/4,470 | 20.5/4,600 | 21.5/4,800 |
| Max permitted load, kg/lb | 7,000/15,430 | 8,400/18,520 | 12,000/26,460 |
| Weight, kg/lb | 465/1,025 | 535/1,179 | 795/1,753 |

Efficient and secure compacting.

Rototilt's compactors minimize the risk of personal injury and make compacting more efficient. With the combination of tiltrotator and compactor, you can work with your excavator in confined areas or near roads without needing people on the ground. Rototilt compactors are also an effective solution for "sticky" soil or uneven surfaces.



INCREASES SAFETY

The combination of tiltrotator and compactor makes work safer. When working near roads, no one is needed on the ground and the need for personnel in the immediate vicinity of work is minimized.



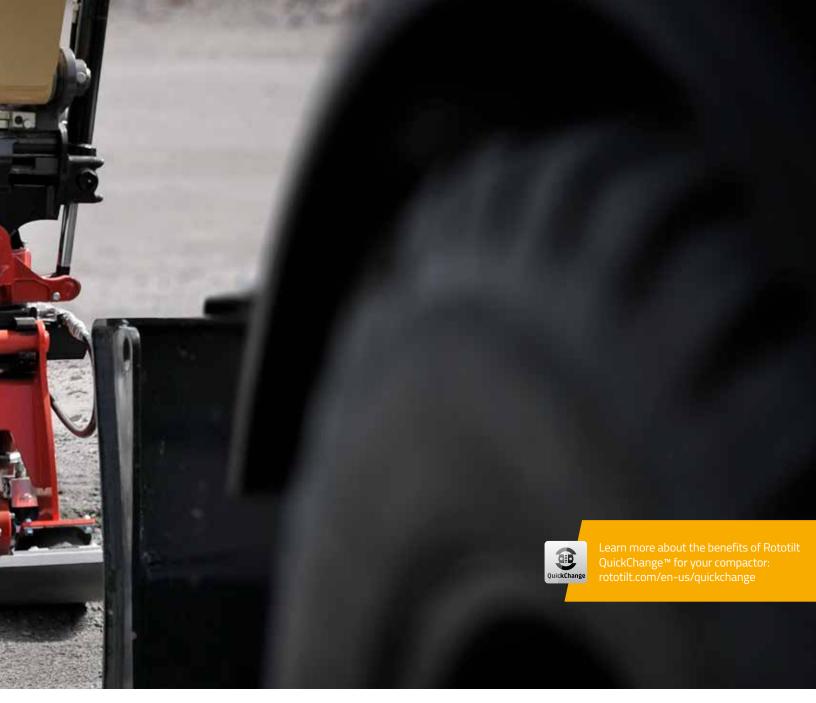
EFFICIENT COMPACTING

Our compactors compress very efficiently and are the ideal solution even for "sticky" soil or uneven surfaces. When working with coarse materials, compactors mounted on excavators are significantly better at handling larger stones.



CONSIDERABLE FLEXIBILITY

With a compactor mounted on an excavator, flexibility is excellent and you can get the job done comfortably and efficiently in tight spaces, on slopes and in pipe trenches or shafts. Available with QuickChange™ for fast tool replacement without needing to leave the cab.



| Model | C22 | C34 | C41 | C65 |
|-----------------------------------|---------------------------|----------------------------|---|--|
| Suitable machine weight, kg/lb | 3,000-10,000/6,614-22,045 | 6,000-12,000/13,230-26,455 | 10,000-20,000/22,045-44,090 | 20,000-40,000/44,090-66,140 |
| Suitable tiltrotator | R2, R3 | R2, R3 | R3, R4, R5, R6 | R6, R8, R9 |
| Compression force, kg/lb | 2,200/4,850 | 3,400/7,496 | 4,100/9,039 | 6,500/14,330 |
| Vibration frequency (Hz) | 33 | 33 | 33 | 33 |
| Weight, kg/lb | 190/419 | 210/463 | 380/838 | 475/1,047 |
| Length, mm/in | 780/31 | 805/32 | 1,040/41 | 1,040/41 |
| Width, mm/in | 450/18 | 525/21 | 610/24 | 750/30 |
| Height, mm/in | 600/24 | 600/24 | 750/30 | 750/30 |
| Attachments | S40, S45, S50, Universal* | S40, S45, S50 | S45, S50, S60, S70, S1, QC60, QC60-5, Universal* | S60, S70, S80, S1, S2, QC60, QC60-5, QC70, QC70-55, QC80, Universal* |
| Working pressure, bar/psi | 150/2,175 | 150/2,175 | 150/2,175 | 150/2,175 |
| Min hydraulic flow, I per min/gpm | 20/5.3 | 31/7.9 | 45/12 | 70/18 (HFS recommended) |
| Max hydraulic flow, I per min/gpm | 250/66 | 250/66 | 250/66 | 250/66 |
| Max pressure load, bar/psi | 250/3,626 | 250/3,626 | 250/3,626 | 250/3,626 |

* Secured with bolted joints. Modular and customisable.

Rototilt grapple modules – always close at hand.

With Rototilt grapple modules, you can make your excavator even more versatile. A "friend" who is always by your side and who neither affects the build height nor limits the bucket's movements when you are not using it.



GRAPPLE MODULE

Rototilt's grapple module is an efficient picking and handling tool that you can use for light sorting or for moving objects such as manhole covers and curb stones. When you choose the grapple module, you get an integrated tool that neither affects build height nor limits bucket movement. With a mechanical stop, the claws are prevented from going beyond the end position. The claws are rounded and close completely. The grapple module can both be retrofitted and detached, and it fits all attachments*.



RAILROAD GRAPPLE

Rototilt's railroad grapple is engineered for those heavier jobs, with a design that makes it the optimal choice for handling items such as sleepers and rails.

- Angled 40° for more efficient grapple work
- Smart design makes the grapple both strong and light
- Load-holding valves for maximum safety
- Max lifting capacity, 5,000 kg, 11,023 lbs
- Detachable

| Model | G400B | RG400 | RG600 | RG800 | RG850 | RG900 | RG1050 | Railroad grapple RR8 | |
|-----------------------------------|-----------|-----------|------------------------|-----------------------|--------------|----------------------|-------------|-----------------------------------|----|
| Suitable tiltrotator | R1 | R2 | R2, R3, R4 | R4, R5, R6 | R6 | R8 | R6, R8 | R4 | R5 |
| Suitable machine coupler | S40 | S40 | S45, S50, QC45-4/-5 | S60, S1, QC60-4/-5 | S70 | S70, S1, S2, QC70 | 580, QC80 | S45 RR/ S60 RR/ QC45 RR QC60 RR | |
| Weight, kg/lb | 36/79 | 36/79 | 68/150 | 105/231 | 105/231 | 166/366 | 185/408 | 160/353 | |
| Max hydraulic pressure, MPa/psi | 25/3,626 | 25/3,626 | 25/3,626 | 25/3,626 | 25/3,626 | 25/3,626 | 25/3,626 | 25/3,626 | |
| Grapple force, max open, kN/lbf | 4.4/989 | 4.4/989 | 5.6/1,259 | 7.7/1,731 | 8.3/1,798 | 11.7/2,698 | 11.7/2,698 | 20/4,496 | |
| Grapple force, jaw to jaw, kN/lbf | 7.1/1,596 | 7.1/1,596 | 8.9/2,001 | 13.6/3,057 | 14.1/3,147 | 19.8/4,496 | 21.2/4,766 | 30/6,744 | |
| Max lifting capacity, kg/lb | 300/661 | 300/661 | 500/1,102 | 1,000/ 2,205 | 1,000/ 2,205 | 1,300/2,866 | 1,300/2,866 | 5,000/11,02 | 23 |
| Grapple open, min, mm/in | 400/15.7 | 400/15.7 | 600/23.6 | 800/31.5 | 850/33.5 | 900/35.4 | 1,050/41.3 | 820/32.3 | |

*There are exceptions.

An even wider tool range.

Rototilt is continuing to develop products that provide operators with an easier and more efficient everyday life. Designed for long-term productivity, there are now even more powerful additions to the growing range of quality tools from Rototilt.



RIPPER

With a more robust design and boasting wear-resistant HB450 steel front, rear and sides, Rototilt's ripper is the perfect tool for frozen or hard ground. A tool built to handle truly demanding conditions.

The ripper design is optimized for Rototilt's machine couplers, allowing for maximum breakout force. It also has a reinforced attachment frame to withstand high breakout torque. The ripper is equipped with the J-tooth system as standard.



ASPHALT CUTTER

Rototilt asphalt cutters are perfect for working with cable and pipe installation. Designed to produce optimum cuts that avoid costly overheads with asphalt being dug away unnecessarily. In addition to efficient cutting of asphalt, the lightweight design enables precision cutting on lawns.

The models are designed with a locking wedge on the shaft that makes changing the cutting wheel a piece of cake. Wear parts made of wear-resistant HB500 steel ensure a long service life.



GRADING BEAM

Rototilt's grading beam optimizes grading work on roads and larger land areas. The tool is optimized for Rototilt's tiltrotators and machine couplers, and delivers perfect grading results without the need to move the machine as often. Wear parts in wear-resistant HB450 steel ensure a long service life. What's more, our grading beams are ready for the installation of GPS for the excavation system, which together with Rototilt's RPS function enables optimal control.

| Ripper | Attachment frame | | S40 | | S6 | 0 | | S70 | | | | | | |
|----------------|-----------------------|---------|--------------------------------|------|--|----------|-----|---------------------------------|-----------|-----|-----|-----------|-------|----|
| | Machine weight, kg/lb | |)0-6,000 8-13,22 | | 12,000-22,000/18,000-32,000/26,455-48,50139,683-70,547 | | | | | | | | | |
| | | | | | | | | | | | | | | |
| Asphalt cutter | Attachment frame | S45 | | | S50 | | | S60 | | | | | | |
| | Machine weight, kg/lb | | 6,000-12,000/ 13,227-26,455 | | 6,000-12,000/ 13,227-26,455 | | | 12,000-22,000/ 26,455-48,501 | | | | | | |
| | | | | | | | | | | | | | | |
| Grading beam | Width, mm/in | | 1,50 | 0/59 | | 2,000/79 | | | 2,500/98 | | | 3,000/118 | | |
| | Weight, kg/lb* | 363/800 | | | | 431/950 | | | 499/1,100 | | | 567/ | 1,250 | |
| | Attachment frame | S40 | S45 | S50 | S60 | S45 | S50 | S60 | S70 | S60 | S70 | 580 | S70 | S8 |

* Weight without adapter

Service and support – maximizing your uptime.

You should be able to trust your excavator, your tiltrotator and your tools. It's that simple. Every day, year after year. However, if any problems should arise, you can be sure that we're close at hand with service, support and spare parts. Wherever you may be.

Service and support are two things we feel very strong about and, for us, it's important for our customers to feel safe when using our products.

ALWAYS CLOSE TO YOU

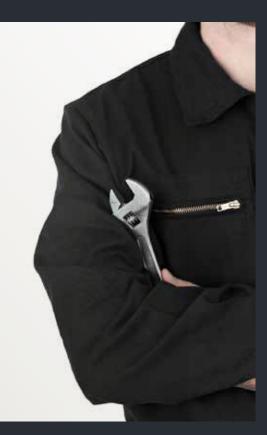
We work with our own technicians and dealers covering all over the country to provide you with the fastest and best service. All our partners are experts in Rototilt products and can assist you with technical support, service and spare parts.

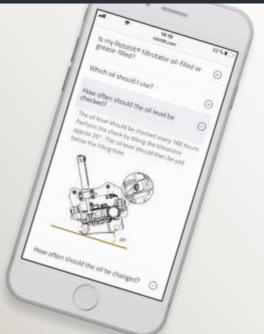
As extra support, there is also a network of authorized service partners, serving as our extended arm both for customers and dealers. You can find your nearest dealer or service contact quickly and easily at rototilt.com/en-us. There you can also find our parts catalogue containing spare parts for all tiltrotators, attachments and tools.



ALWAYS A 2-YEAR WARRANTY

We want you to be able to focus on your job and rely on your machine. That's why we always provide a 2-year warranty for all Rototilt tiltrotators. The warranty comes into force immediately upon delivery. Plain and simple. If you need to invoke your warranty, just contact your dealer who will then submit your claim to us. Our general warranty conditions apply.





DO YOU HAVE ANY TECHNICAL QUESTIONS?

We've gathered the most frequently asked technical questions at rototilt.com. There you can quickly get answers to questions about oils, electrical systems, tightening torques and extra equipment.

Global benefits on your home pitch.

We're proud of being both global and local. Rototilt's headquarters, product development and production are all located in the Vindeln district in the heart of Sweden. The entrepreneurial spirit of the Jonsson family was obvious even at the beginning, back in the 1950s. To this day, 70 years later, the company is still owned and operated by the Jonsson family. Rototilt is also the name of the world's first tiltrotator, which saw the light of day more than 30 years ago. The experience and knowledge built up around tiltrotators is unprecedented.

Rototilt has now grown into a global company with local subsidiaries for sales and support. Close to customers - just as it should be. To attain Rototilt's stable position, innovation power and passion are required in combination with strong customer focus. Our customers' ideas and thoughts give us the strength and energy for further development of smart solutions. In order for the entire chain from factory to user to smoothly function, high demands are placed on quality, reliability, spare parts and support.

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Watch the video at: rototilt.com/en-us/aboutus



JOINT DEVELOPMENT

Rototilt has a razor-sharp focus on product development. Our research and testing facility tests everything from small, smart technical improvements to large, industry-changing innovations. Our material experts, designers and production engineers work side by side with leading Swedish universities to optimize materials and designs for maximized productivity and service life. Under the strictest secrecy, new products and functions are also being developed here together with selected partners.



ENGAGING VALUES

We are proud of our creative and committed employees. Together we have developed values that permeate everything we do and provide considerable support when making decisions, both large and small. These values emphasize joint responsibility, the fact that we show respect towards our environment and that we consider how our actions affect coworkers, partners, customers and suppliers.



LONG-TERM SUSTAINABILITY

Rototilt's tiltrotator system improves the efficiency of your excavator by around 25%. In addition, more efficient machines also mean lower fuel consumption and consequently less impact on the environment. Sustainability and environmental considerations also characterize our development and production to a great extent. We only use eco-labelled electricity produced by wind and hydropower. We recycle 100% of the metal waste from our manufacturing processes and ensure that other waste is recycled or incinerated with energy recovery. We minimize air transportation and are careful to ensure that suppliers meet our policies as regards to quality, the environment and the working environment.



FUTURE-ORIENTED PRODUCTION

By gathering development, production and support under the same roof, we have created a cluster of expertise where smart innovation and efficient production go hand in hand. We maintain a good balance between responsiveness to new market demands and the ability to lift our sights and question ingrained notions. Additionally, we're based in a district where industry, politicians and residents are strongly oriented towards mutual success. This journey has only just begun ...

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Rototilt is the world's leading manufacturer of tiltrotators, accessories and systems. With Rototilt we are breaking new ground for construction machinery by turning excavators into full-fledged tool carriers. By gathering all resources and expertise in Vindeln, we offer a unique combination of technical know-how, quality, capacity and understanding of customers' businesses. Our customers are located all over the world and our aim is to ensure that they can experience precision, reliability and commitment in all their dealings with us.

from market to market. For more information concerning current product specifications, local adaptations and special equipment, please contact your nearest sales office.