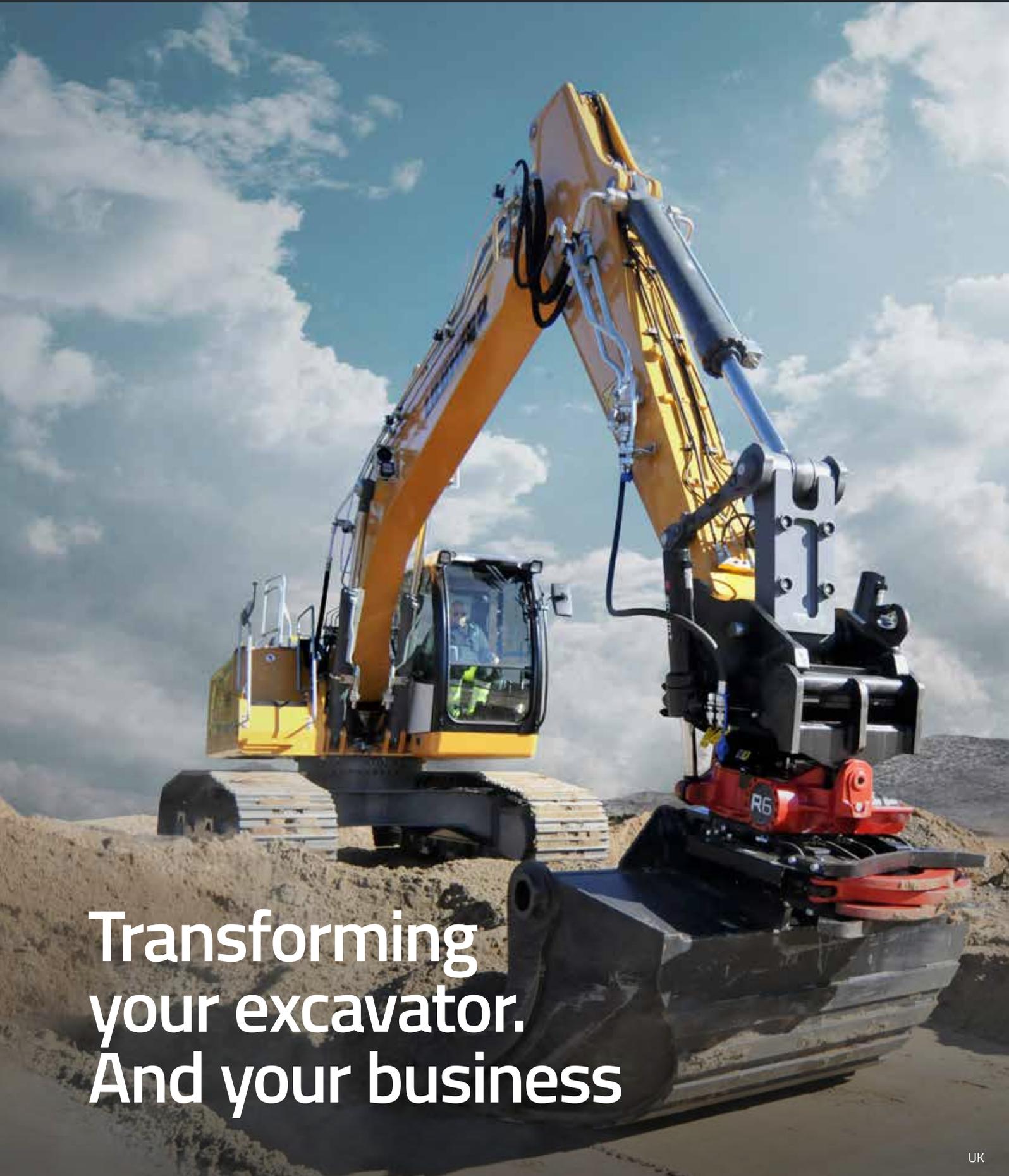




**ROTOTILT®**

*Making it possible since 1986*



**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. And 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 do their jobs smarter, safer and more efficiently. But also by satisfying new market requirements and helping our customers to achieve sustainable profitability.

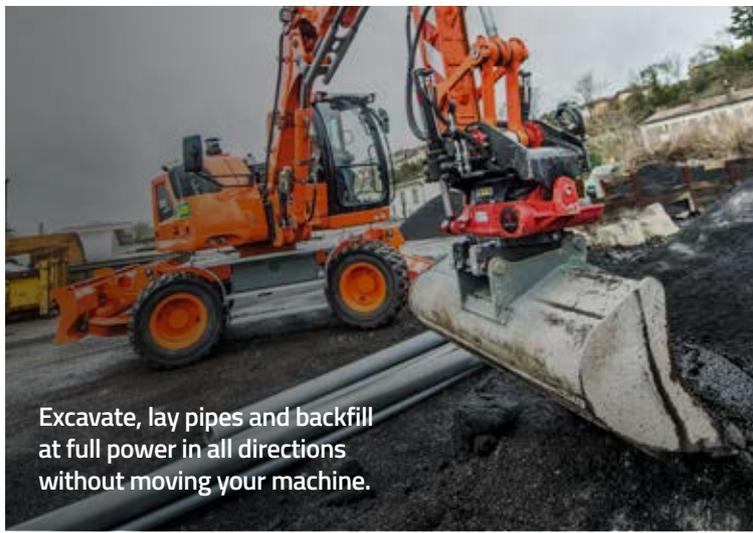
This focus on utilising development to create new capabilities has made Rototilt® one of the world's leading providers of technical solutions that give the excavator the best conditions in terms of efficiency and safety. By taking responsibility for the entire chain of solutions – from machine coupler to tiltrotator and tool – we create a functioning whole where every part of the chain is optimised to work perfectly together.

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

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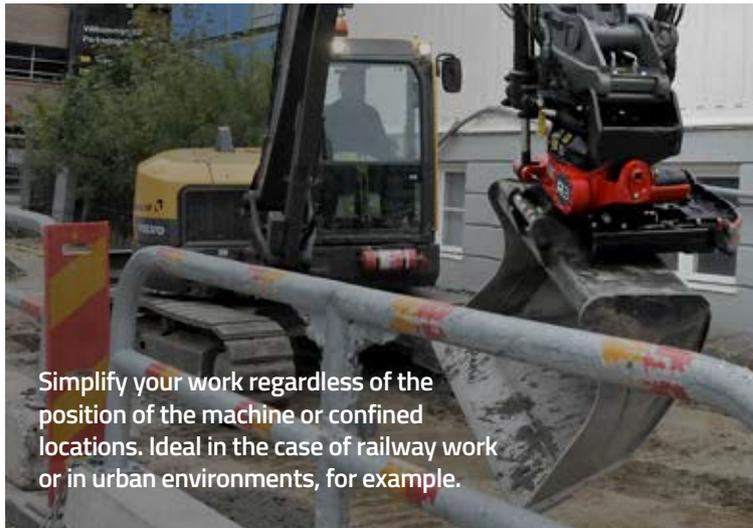




Excavate, lay pipes and backfill at full power in all directions without moving your machine.



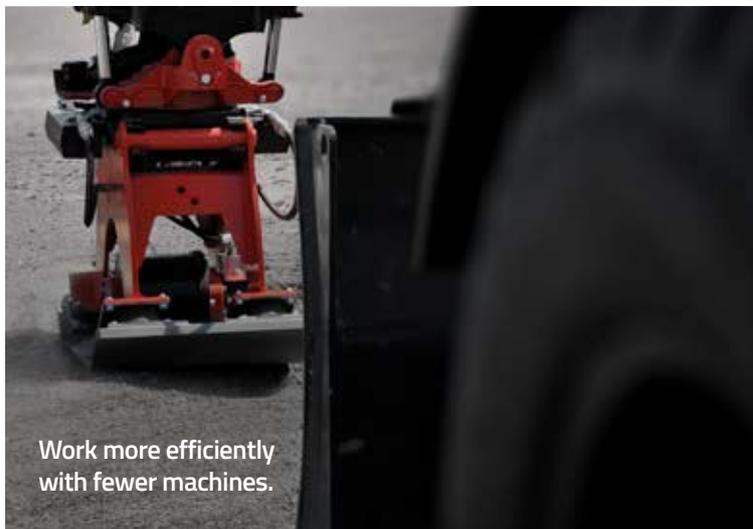
Dig around and under pipes and cables with less risk of damage.



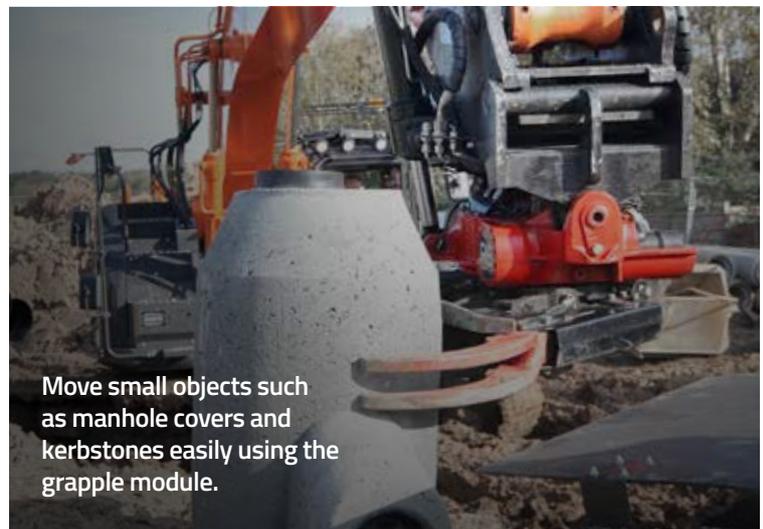
Simplify your work regardless of the position of the machine or confined locations. Ideal in the case of railway work or in urban environments, for example.



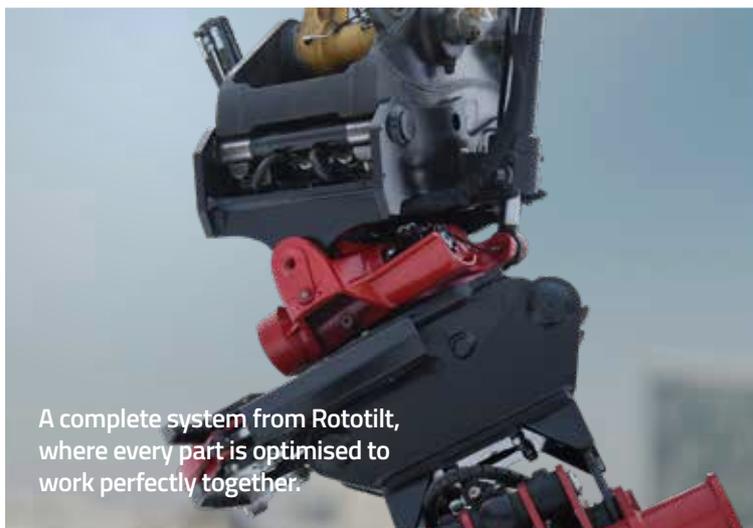
Make slopes and ditches quickly and easily with the correct incline.



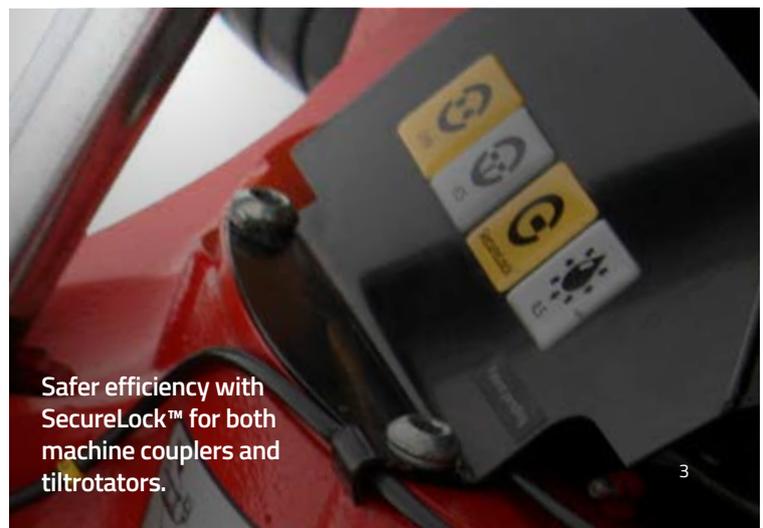
Work more efficiently with fewer machines.



Move small objects such as manhole covers and kerbstones easily using the grapple module.



A complete system from Rototilt, where every part is optimised to work perfectly together.



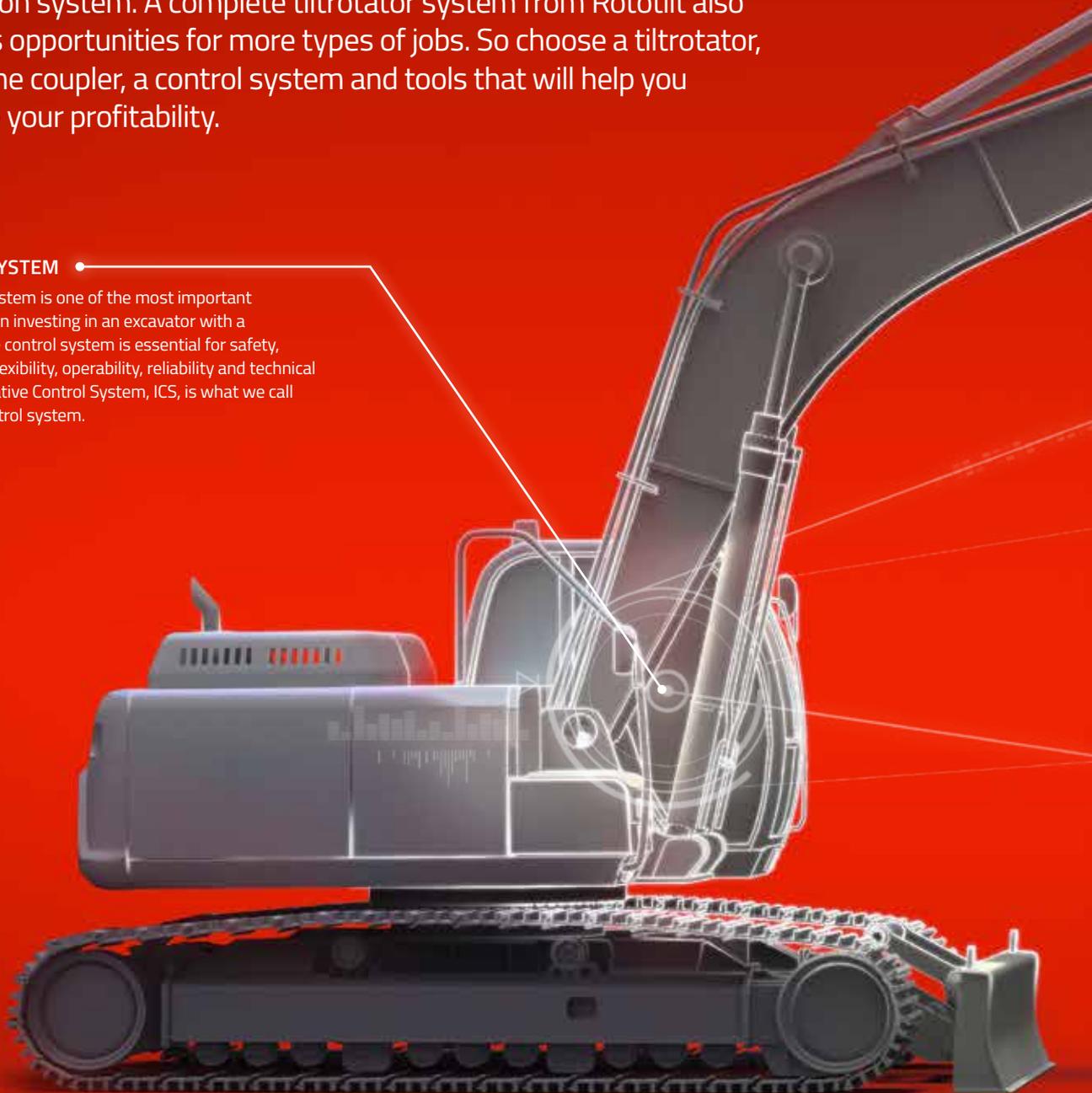
Safer efficiency with SecureLock™ for both machine couplers and tiltrotators.

# › The Rototilt system.

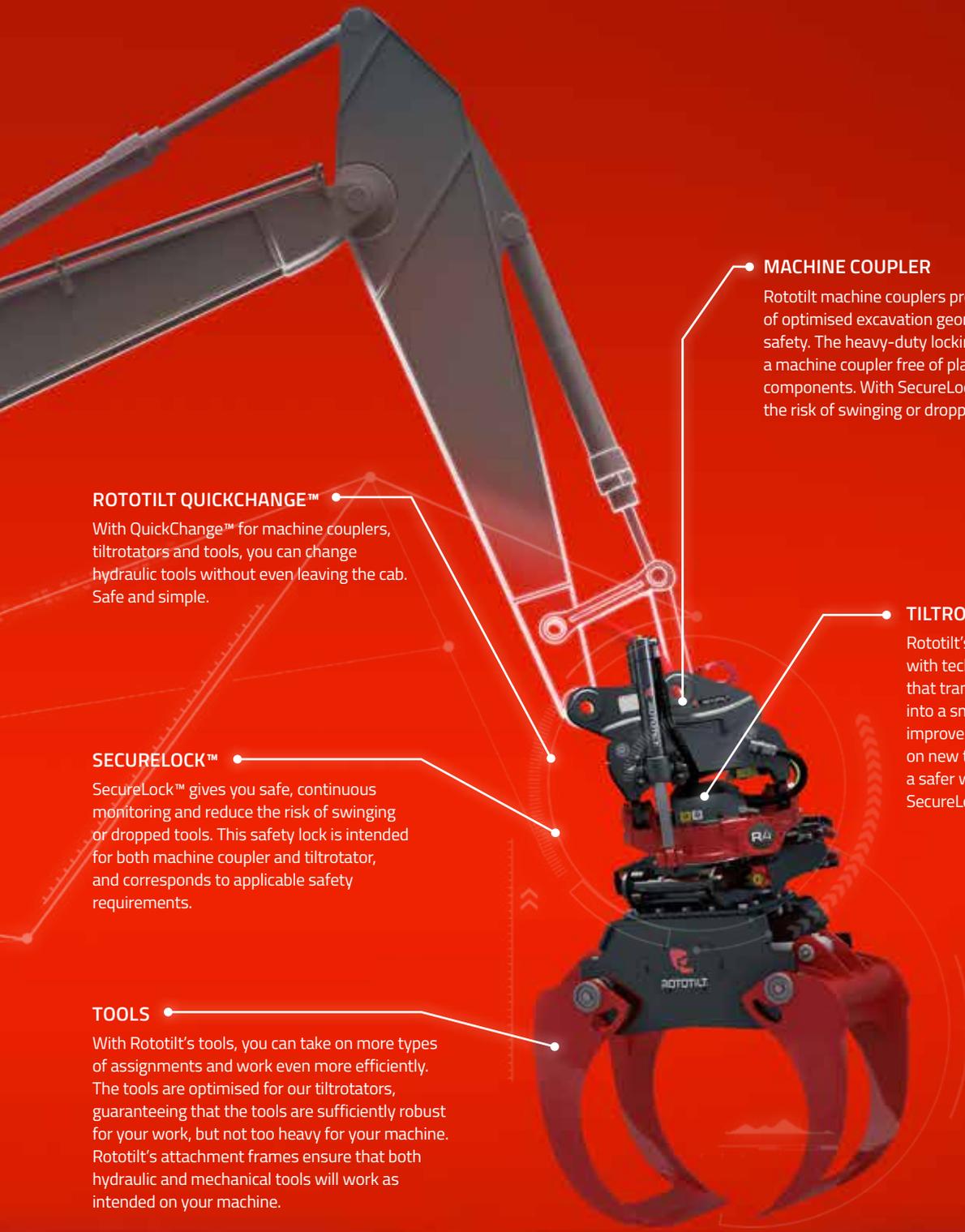
Having the right tiltrotator for the right excavator is naturally an important precondition for an efficient machine. But there's more to it than that. When you choose Rototilt for the entire chain, you get a complete system from one and the same supplier, which has been designed to fit together and which optimises 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 jobs. So choose a tiltrotator, a machine coupler, a control system and tools that will help you increase your profitability.

## 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 what we call our smart control system.



# › Rototilt all the way!



## ROTOTILT QUICKCHANGE™

With QuickChange™ for machine couplers, tiltrotators and tools, you can change hydraulic tools without even leaving the cab. Safe and simple.

## SECURELOCK™

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

## TOOLS

With Rototilt's tools, you can take on more types of assignments and work even more efficiently. The tools are optimised 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

Rototilt machine couplers provide a perfect combination of optimised excavation geometry, durability and safety. The heavy-duty locking construction gives you a machine coupler free of play, with few well-protected components. With SecureLock™, you also vastly reduce the risk of swinging or dropped tools.

## TILTROTATOR

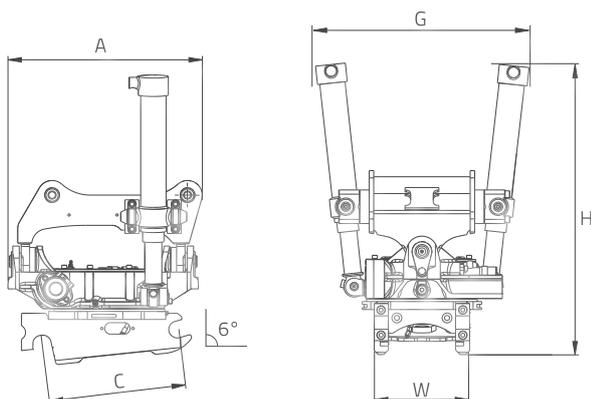
Rototilt's tiltrotator is packed with technological innovations that transform your excavator into a smart tool carrier. This improves your potential to take on new types of jobs, and give you a safer work situation through SecureLock™.

# > Our tiltrotators.

More and more are discovering the benefits of a tiltrotator solution that gives you both safety and productivity, and that can be adapted to each operator's needs. From the R1, which combines smart technology with muscle normally only found in significantly higher weight classes, to R8 which is optimised for heavy-duty assignments such as ground and road work.



	R1 S40/S40	R2 S40/S40	R3 S45/S45	R4 S60/S60	R5 S60/S60	R6 S70/S70	R8 S80/S80
<b>A</b> (mm)	346	463	608	690	801	801	920
<b>C</b> (mm)	300	300	430	480	480	600	670
<b>G</b> (mm)	403	403	677	705	810	958	1 200
<b>H</b> (mm)	674	816	938	975	1,156	1,180	1,275
<b>W</b> (mm)	198	198	288	338	338	448	588



Read more at:  
[rototilt.com/tiltrotators](http://rototilt.com/tiltrotators)



# ➤ Perfect for your machine.



<b>Bucket width, max</b>	1.0 m	1.2 m	1.5 m	1.6 m	1.7 m	1.8 m	2.0 m
<b>Breakout force, max</b>	35 kN	50 kN	81 kN	125 kN	140 kN	170 kN	200 kN
<b>Breakout torque, max</b>	25 kNm	43 kNm	85 kNm	163 kNm	200 kNm	255 kNm	330 kNm
<b>Weight, from</b>	90 kg*	170 kg*	290 kg*	315 kg*	410 kg*	460 kg*	730 kg*
<b>Tilt angle</b>	2 x 40°						
<b>Rotation speed &amp; hydraulic flow requirement</b>	1 rotation / 7 sec at 15 l/min	1 rotation / 7 sec at 30 l/min	1 rotation / 7 sec at 46 l/min	1 rotation / 7 sec at 57 l/min	1 rotation / 7 sec at 72 l/min	1 rotation / 7 sec at 72 l/min	1 rotation / 8 sec at 79 l/min
<b>Working pressure</b>	21 MPa	25 MPa					
<b>Torque, approx.</b>	1,700 Nm at 21 MPa	3,900 Nm at 25 MPa	6,100 Nm at 25 MPa	7,600 Nm at 25 MPa	9,550 Nm at 25 MPa	9,550 Nm at 25 MPa	11,900 Nm at 25 MPa
<b>Tilting torque (single-/dual-action)</b>	- / 5,800 Nm	- / 14,400 Nm	21,500 / 26,500 Nm	26,500 / 40,500 Nm	30,900 / 45,100 Nm	44,500 / 56,600 Nm	50,900 / 64,700 Nm

#### Hydraulic flow requirement tilt function (single-/double acting)

6 l/min	12 l/min	15 l/min/ 23 l/min	19 l/min/ 33 l/min	22 l/min/ 39 l/min	33 l/min/ 49 l/min	37 l/min/ 55 l/min
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#### Recommended hydraulic flow requirement rotation & tilt function (single-/double acting)

21 l/min	42 l/min	61 l/min/ 69 l/min	76 l/min/ 90 l/min	94 l/min/ 111 l/min	105 l/min/ 121 l/min	116 l/min/ 134 l/min
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\* The weight depends on the type of attachment frame, bucket width, quick coupler and choice of control system.

# ➤ Advantage Rototilt, down to the smallest 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 even higher 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.



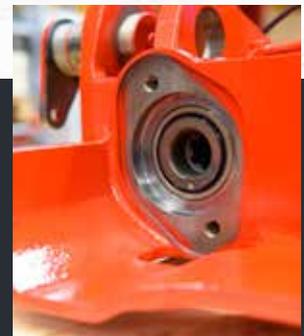
New, more powerful worm gear delivers smoother operation, lower friction and an increased service life. Large bearing surfaces effectively absorb and distribute excavation forces.



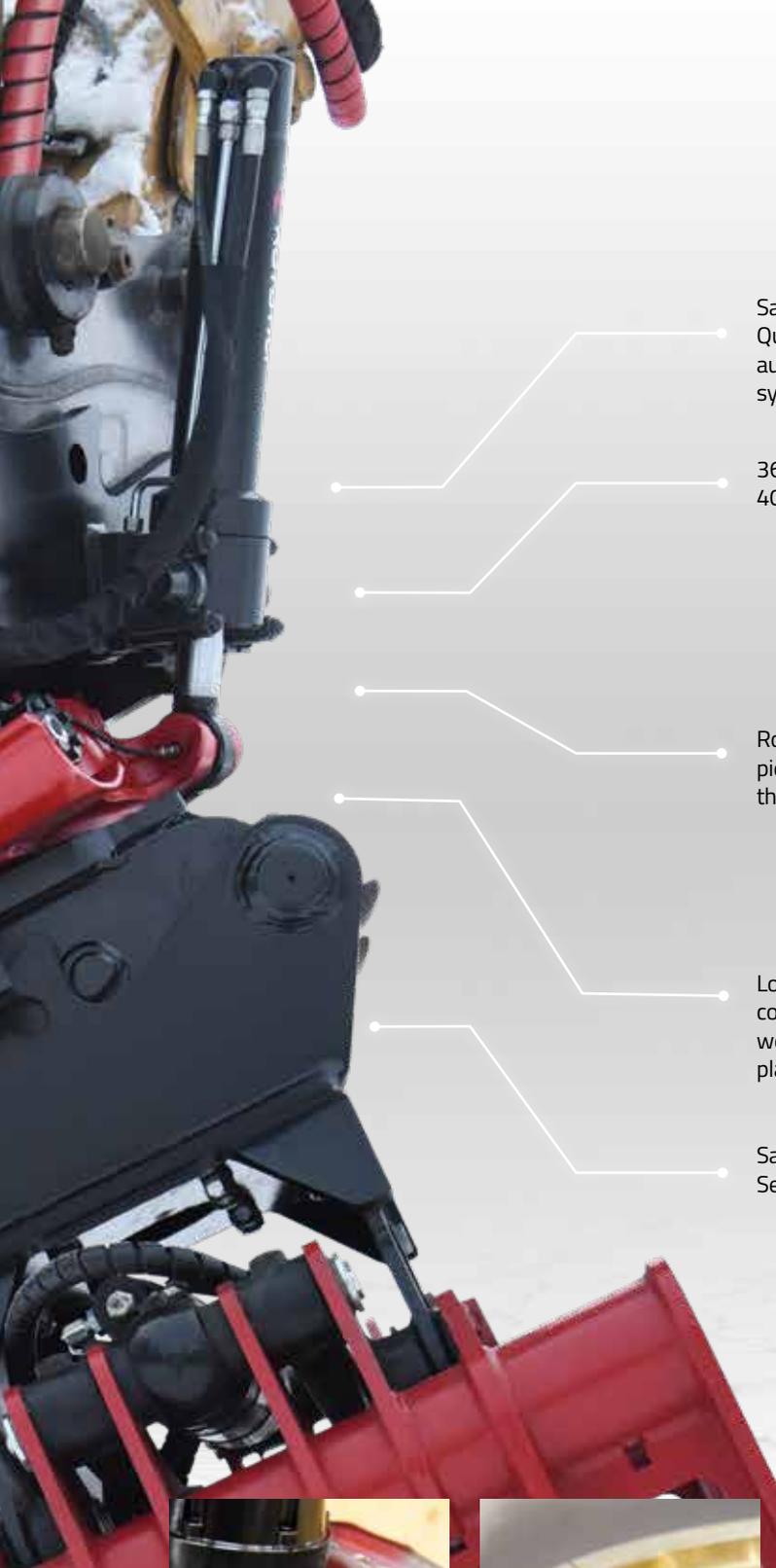
Increased performance and improved reliability with a new, built-in rotor sensor, which e.g. further improves the RPS function.



Even beefier construction with new lower radial bearings.



The new hydraulic motor gives better performance, increases service-life and reduces the risk for leakage. A rigorously tested high pressure seal prevents leakage between the worm screw and the hydraulic motor.



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™.



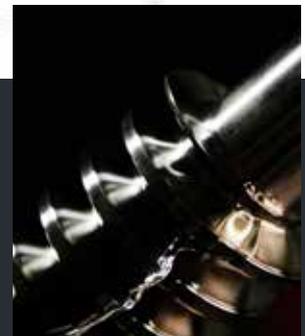
Integrated channels mean fewer hoses and increased reliability.



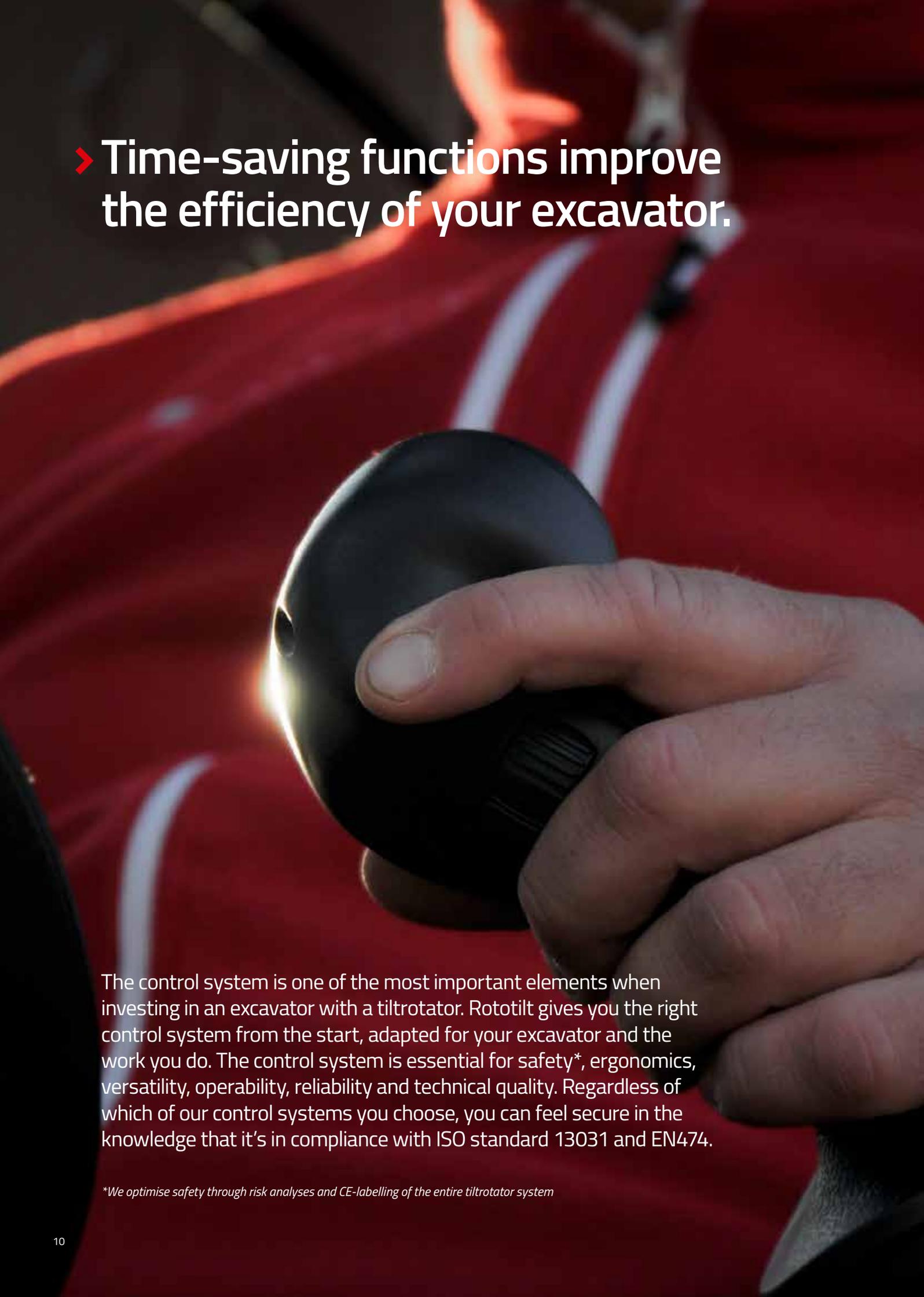
Reduced friction in the rotor thanks to new worm wheel with specially designed lubrication grooves.



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

# > ICS – our smart control system.



**Innovative Control System, ICS**, is our smartest control system. With ICS, you get the most out of your tiltrotator-equipped excavator. It's that simple. Your work will be both more efficient and more profitable. And safer, thanks to our prize-winning 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 to be spread.



## ADJUSTABLE SPEED

Customise 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.



## 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.



## 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.



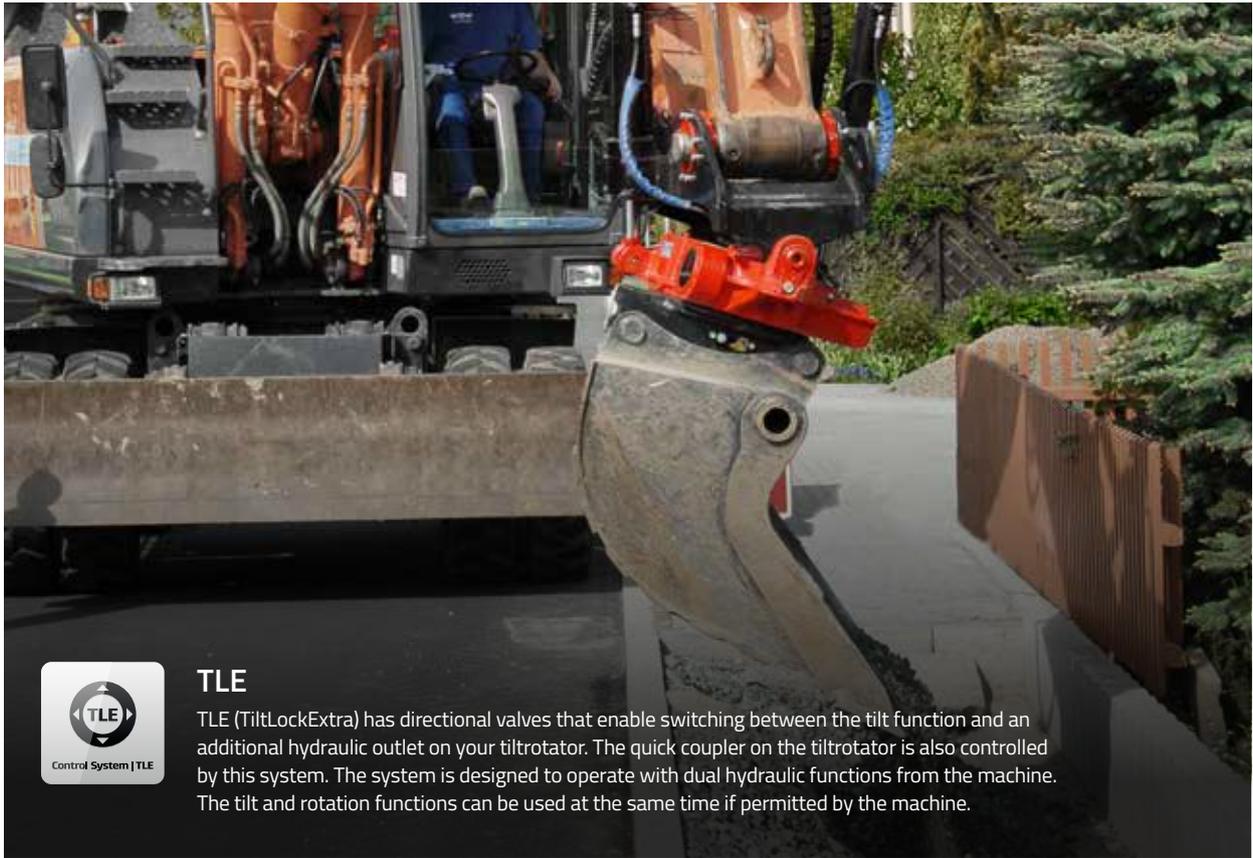
## TOOLS THAT REQUIRE A HIGH FLOW

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.



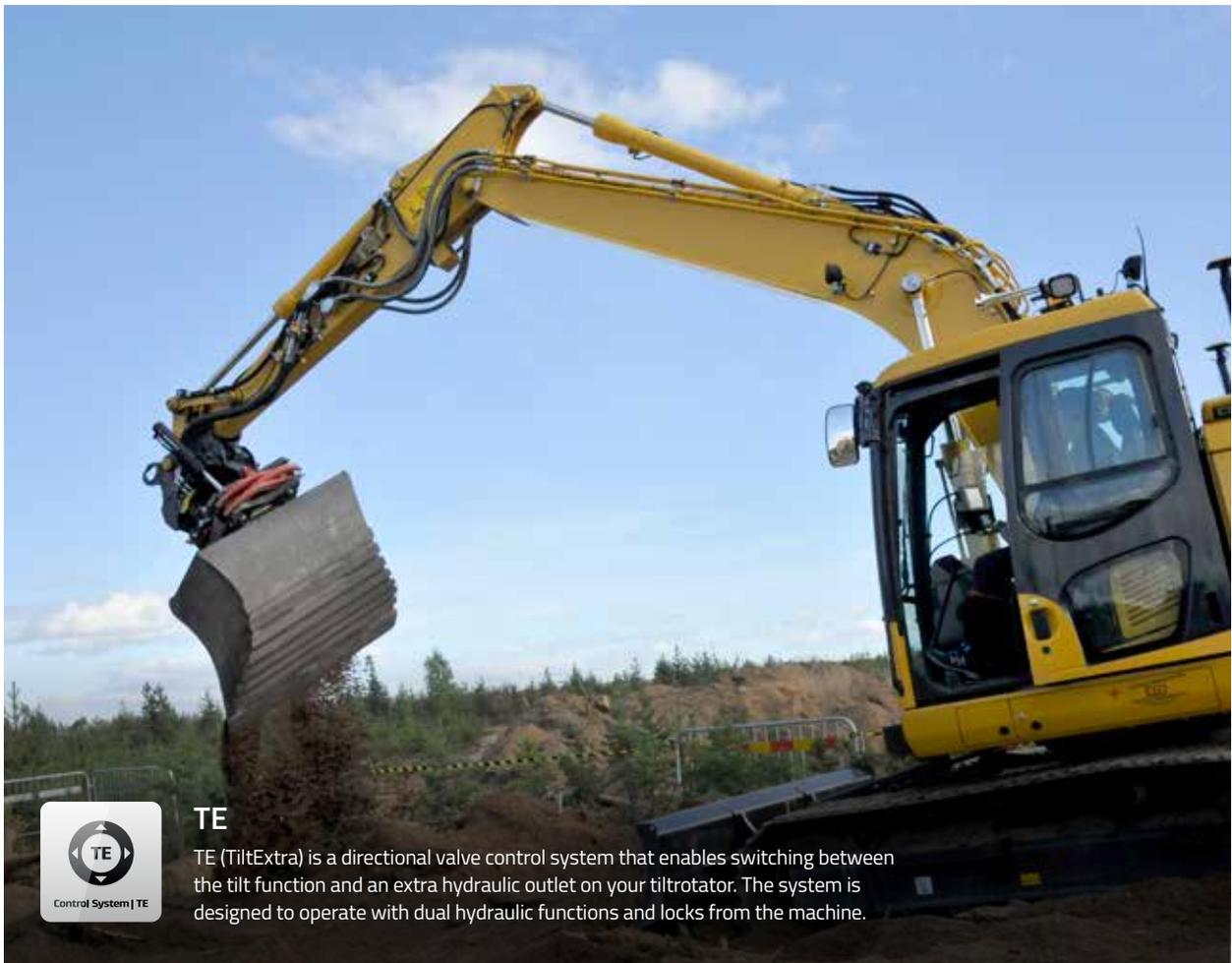
## INTEGRATION WITH EXCAVATION SYSTEMS

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



### TLE

TLE (TiltLockExtra) 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.



### TE

TE (TiltExtra) is a directional valve control system that enables switching between the tilt function and an extra hydraulic outlet on your tiltrotator. The system is designed to operate with dual hydraulic functions and locks from 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™	●	○	○
Rototilt Positioning Solution (RPS)	○	○	○
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 MPa
- Available flow dependent on tiltrotator model

### TLE

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

### TE

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

› Technological development that provides you with safer working conditions.



Watch the film at:  
[rototilt.com/securelock](http://rototilt.com/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 tilt-rotators and machine couplers.



**SecureLock™ sets new standard for safety locks in the contracting industry.** It meets applicable safety requirements, gives you safe, continuous monitoring and reduces the risk of swinging or dropped tools. The secret lies in a patent-pending solution that combines hydraulics, mechanics and sensors with clearly audible signals and indication on displays. The lock is easily 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 components are worn or when tools need to be repaired or replaced.
- LED lamp\* 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, L5, DigAssist, DigPilot, iDig, Makin 3D, UniControl and XL Pro and Rototilt provides an ingenious interface with sensors that send the right information to the excavator system.

## AGC – TIME-SAVING AUTOMATION

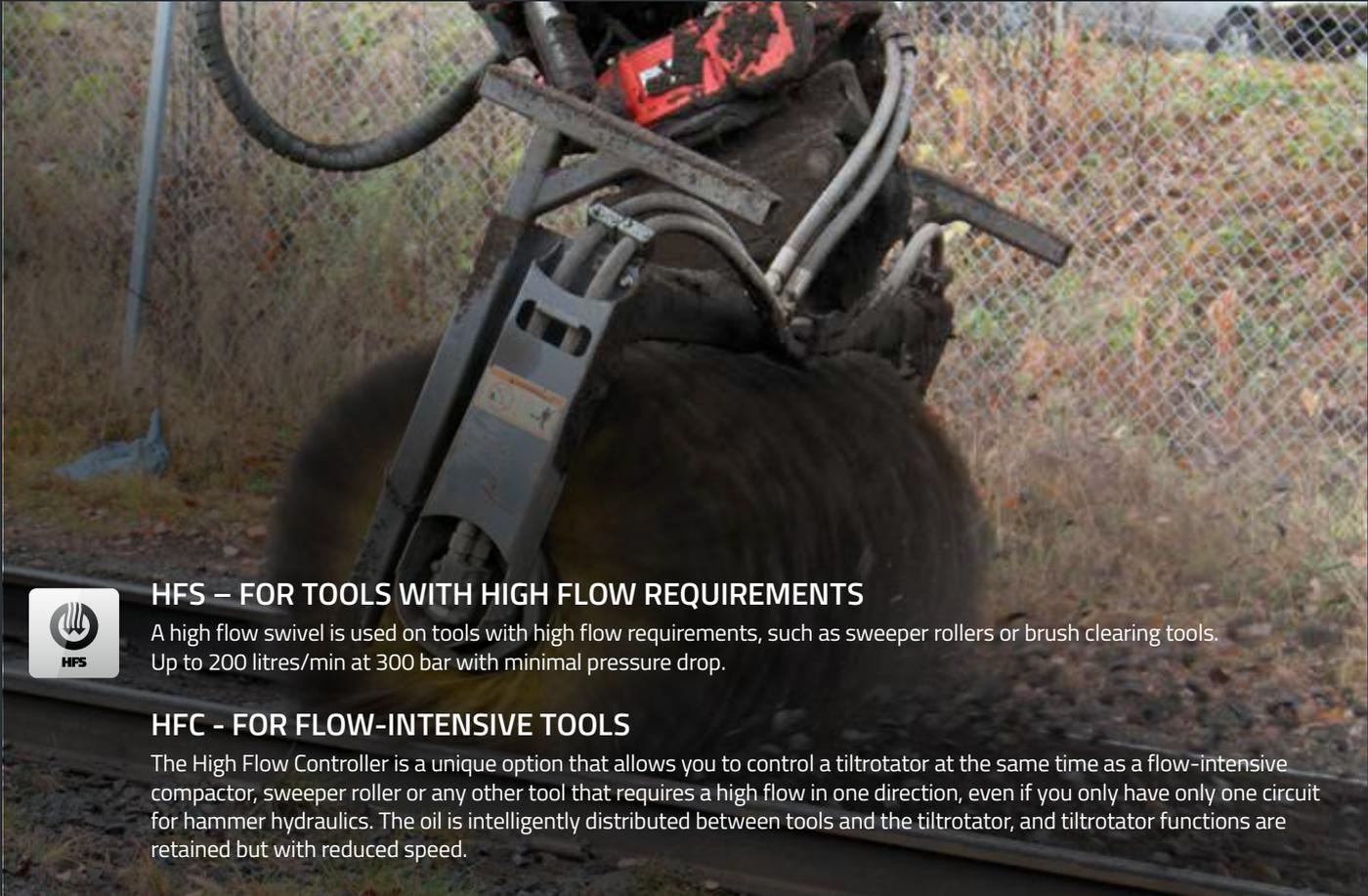
Automatic Grade Control, AGC, which is included as standard, automatically adjusts the tool's tilt angle according to the model in the excavation system. For operators this means significant time savings, since you only need to keep track of height, enabling you to concentrate on what is happening on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

AGC is adapted for the Leica and Trimble excavator systems.



Watch the film at:  
[rototilt.com/rps](http://rototilt.com/rps)



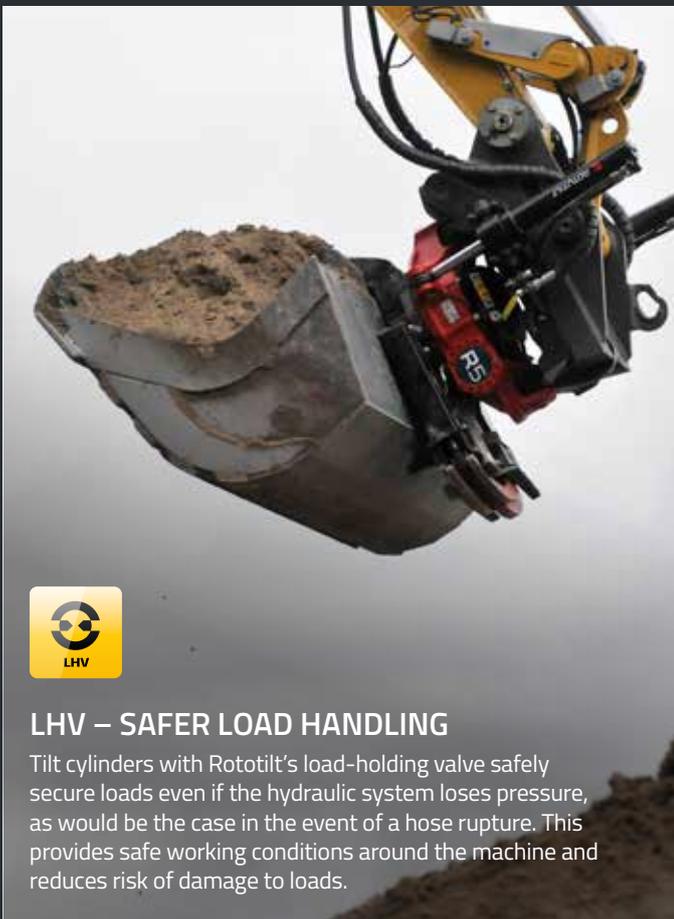


### HFS – FOR TOOLS WITH HIGH FLOW REQUIREMENTS

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 with minimal pressure drop.

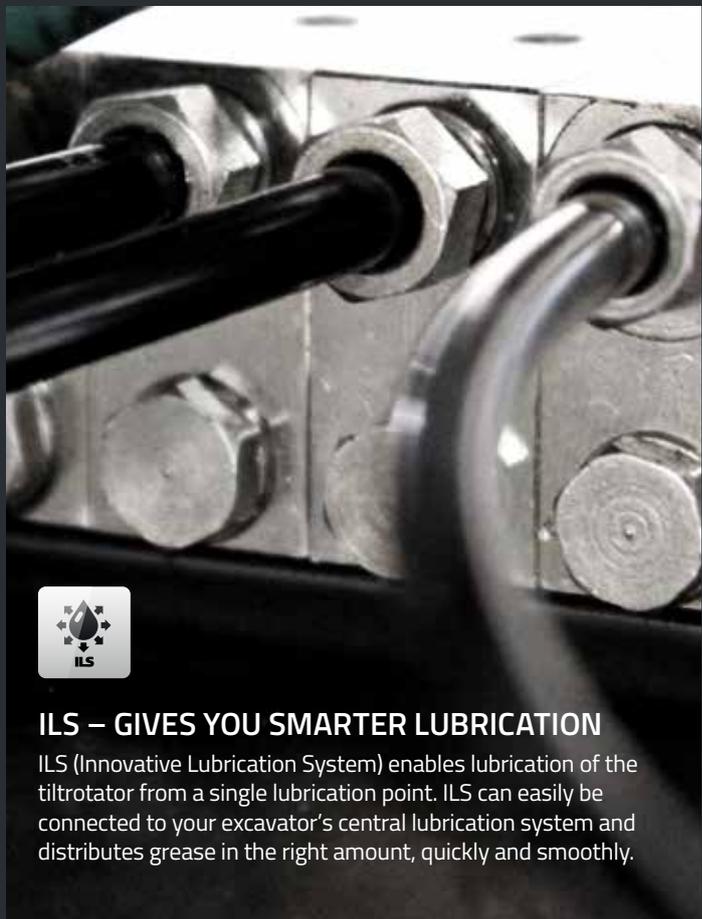
### HFC - FOR FLOW-INTENSIVE TOOLS

The High Flow Controller is a unique option that allows you to control a tiltrotator at the same time as a flow-intensive compactor, sweeper roller or any other tool that requires a high flow in one direction, even if you only 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 safe working conditions around the machine and reduces risk of 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. QuickChange™ is based on the S standard, which is compact, relatively light and very robust.

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.



## LONG SERVICE LIFE

Rototilt QuickChange™ has several 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.



## OUTSTANDING SAFETY

A series of safety-enhancing design solutions, the integration with SecureLock™ and the potential to change tools without leaving the cab gives you confident 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 optimised to suit various types of tools. For really tough conditions and the demands that are placed on e.g. 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, optimised for Rototilt's tiltrotator and tools. Supplied with an S-type bolt pattern and can also be welded.



Learn more about the benefits of Rototilt QuickChange™: [rototilt.com/quickchange](http://rototilt.com/quickchange)

# > Innovative technology\* provides new user benefits.



- 1 A specially developed, durable nose seal in the hydraulic coupling dramatically increases service life and minimises 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 the right 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 having properly coupled tools with SecureLock™ safety solution 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 the right 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. Rototilt machine couplers provide a perfect combination of optimised excavation geometry, durability and safety.

Rototilt machine couplers are manufactured with a frame of tempered cast steel with a broad grip for a long service life. A heavy-duty locking wedge construction gives you a machine coupler completely free of play, with a small number of well protected components. The secret lies in a series of machining processes with the highest possible precision.

The machine couplers are optimised for the ICS control system in combination with SecureLock™, but can also be combined with Rototilt's other control systems. With Rototilt machine couplers, tiltrotators and tools you get a complete package that combines intelligence, durability and profitable efficiency.

With QuickChange™ on your machine coupler, you become even more productive, and can also change hydraulic and electronic tools without leaving the cab. These attachments utilise the same basic design as our other machine couplers (including SecureLock™).



## SAFETY

SecureLock™ is built into our machine couplers to provide you with a comprehensive and integrated safety solution. The attachment locks the tool, even in the event of lost hydraulic pressure.



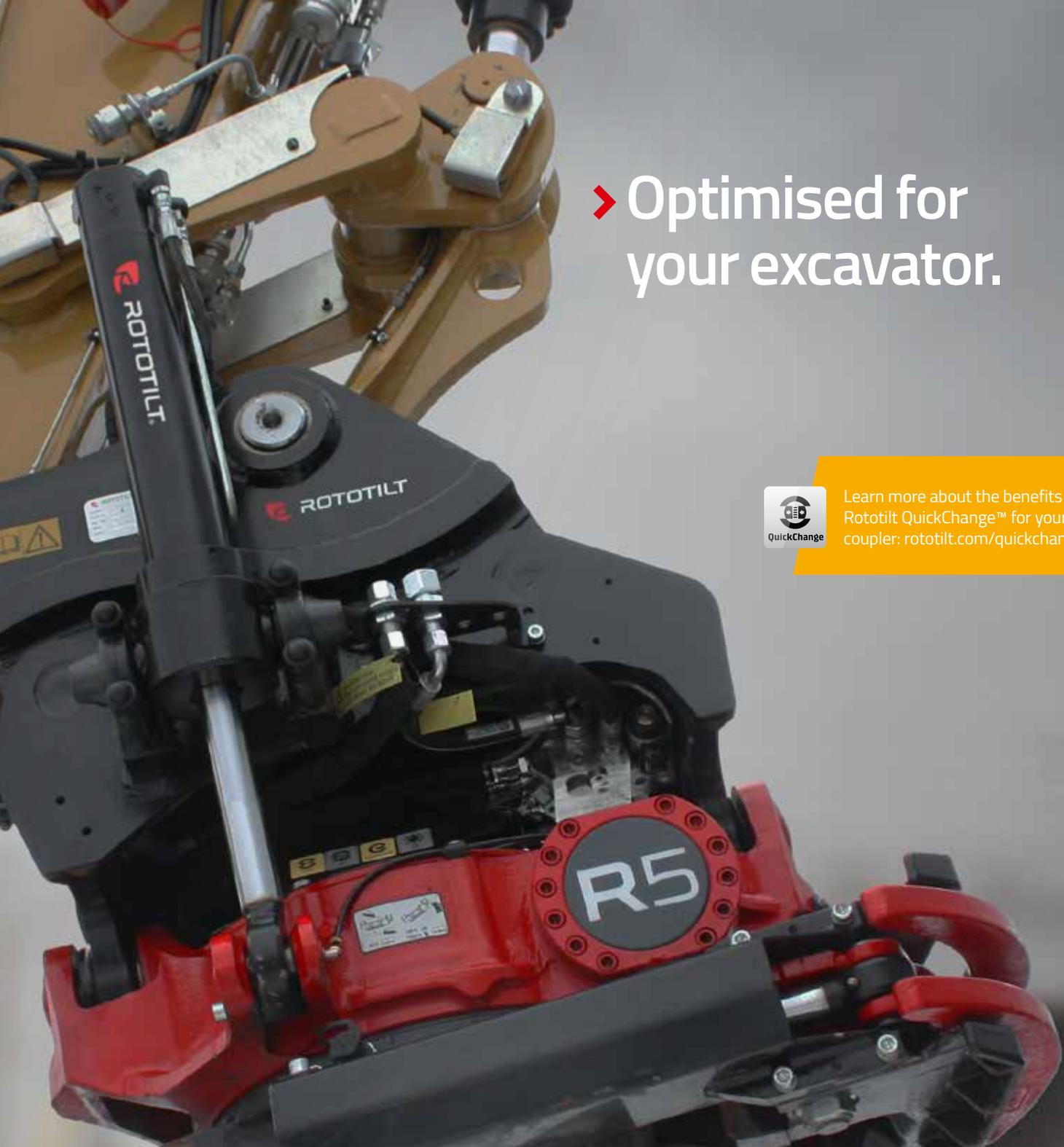
## EXCAVATION GEOMETRY

Our machine couplers are specially developed to enhance the benefits of your tiltrotator and your tools from Rototilt.



## LONG SERVICE LIFE

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



# › Optimised for your excavator.



Learn more about the benefits of Rototilt QuickChange™ for your machine coupler: [rototilt.com/quickchange](http://rototilt.com/quickchange)

Model	S40	S45	S50	S60	S70	S80
Opening pressure (bar)	300	350	350	350	350	350
Permitted locking pressure, max/min (bar)	30/120	30/120	30/120	30/120	30/120	30/120
Permitted positive torque (kNm)	35	65	65	150	300	600
Permitted negative torque (kNm)	23	42	42	75	195	390
Max machine weight (tonnes)	6	11	11	19	30	40
Permitted max load, lifting hook (tonnes)	2	3	3	5	8	10

# ➤ Buckets that optimise 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 optimised excavation geometry for Rototilt's tiltrotators and machine couplers. Our three bucket families cover the needs of all excavators between 1.5 and 40 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, optimised 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 optimised 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 optimised 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 blades.

## SORTING BUCKET

Rototilt sorting buckets are designed for easy and efficient material sorting, and are available for machine weights from 4 to 25 tonnes. The buckets are optimised for Rototilt's tiltrotator system and adapted for the pulse function Rototilt offers.

➤ Dimensioned for those really tough jobs.



Read more at:  
[rototilt.com/buckets](http://rototilt.com/buckets)



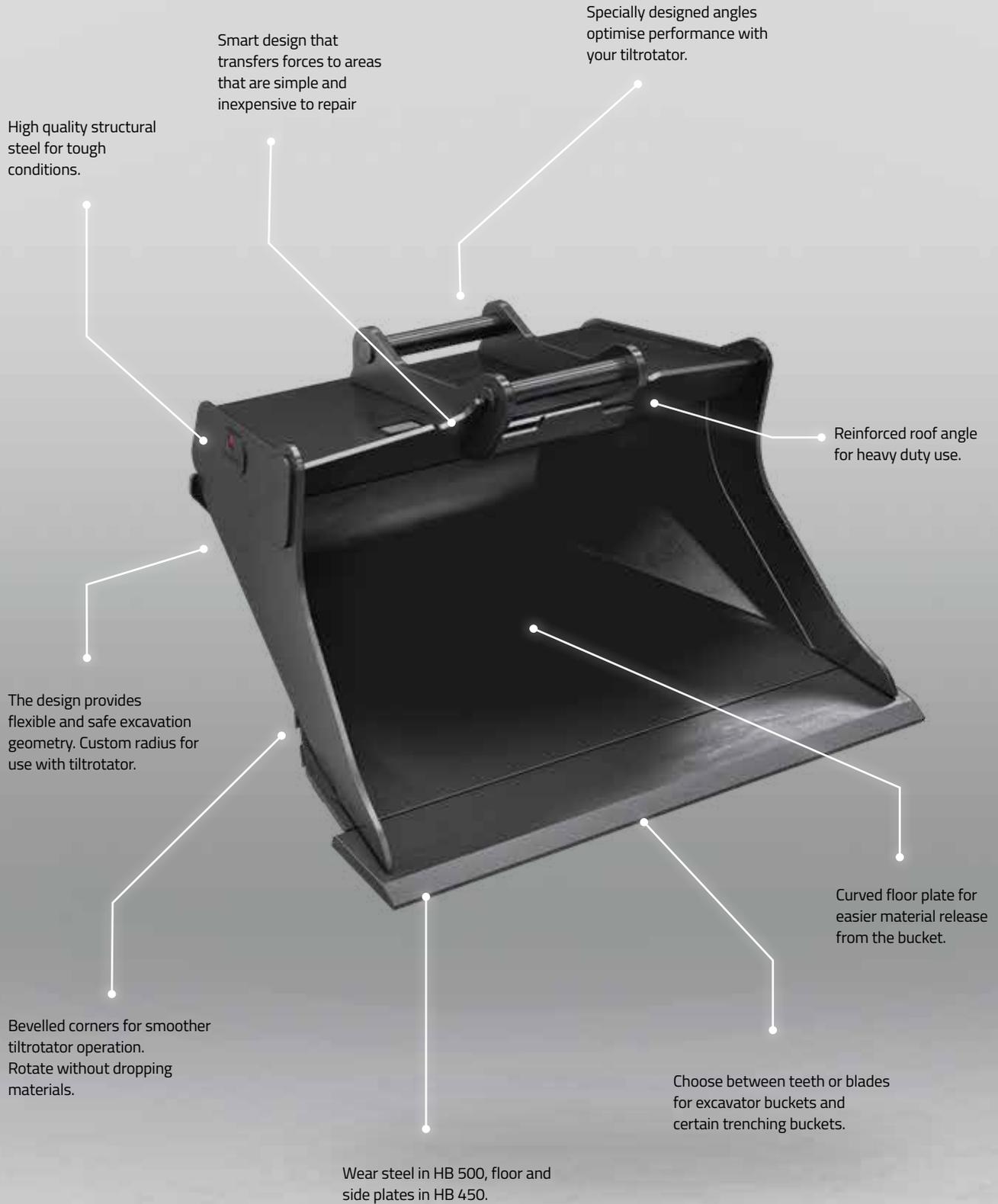
#### **TOOTH SYSTEM**

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 with extra 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.

# > Your bucket benefits.





## ➤ 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 75 kN, 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 handling stones, demolition and scrap metal sorting. They are designed for those really tough jobs. All stone grapples provide long service life and confident safety.



### **SORTING GRAPPLES**

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



Learn more about the benefits of Rototilt QuickChange™ for your grapple: [rototilt.com/quickchange](http://rototilt.com/quickchange)

## ➤ ...and optimal load safety.



### LOAD-HOLDING VALVE

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



### INTERCHANGEABLE BLADES

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

## ➤ Efficient and secure compacting.

Rototilt's compactors minimise 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 minimised.

### 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.



Learn more about the benefits of Rototilt QuickChange™ for your compactor: [rototilt.com/quickchange](http://rototilt.com/quickchange)

# ➤ 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 kerbstones. 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 extra safety
- Max lifting capacity, 5,000 kg
- Detachable

Model	RG400	RG600		RG800		RG850		RG900	RG1050		Railroad grapple RR820	
Suitable tiltrotator	R1, R2	R2	R3, R4	R4, R5	R6	R5	R6	R8	R8	R6, R8	R4	R5
Suitable machine coupler	S40	S45, S50	S45, S50, QC45-4/-5	S60, S1, QC60-4/-5	S1	QC65	S70 QC70	S70, S1, S2, QC70	S80, QC80	QC70-55	S45 RR/ QC45 RR	S60 RR/ QC60 RR
Weight (kg)	36	68		105		105		166	185		160	
Max hydraulic pressure (MPa)	25	25		25		25		25	25		25	
Grapple force, max open (kN)	4.4	5.6		7.7		8.3		11.7	11.7		20	
Grapple force, tip-to-tip (kN)	7.1	8.9		13.6		14.1		19,8	21,2		30	
Max lifting capacity (kg)	300	500		1,000		1,000		1,300	1,300		5,000	
Grapple open, min (mm)	400	600		800		850		900	1,050		820	

\*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 optimised 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 installations. 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 optimises grading work on roads and larger land areas. The tool is optimised 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 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.

## ➤ Service and support – maximising your uptime.

You should be able to trust your excavator, your tiltrotator and your tools. It's that simple. Every day, year after year. But 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 strongly about and, for us, it's important for our customers to feel safe when using our products.



## ALWAYS CLOSE TO YOU

We work with local dealers and service shops 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 authorised service partners, serving as our extended arm both for customers and dealers. You can find your nearest dealer or service shop quickly and easily at [rototilt.com](http://rototilt.com). There you can also find our parts catalogue containing spare parts for all tiltrotators, attachments and tools.

## SERVICE UK

0800 772 3355 (free of charge)

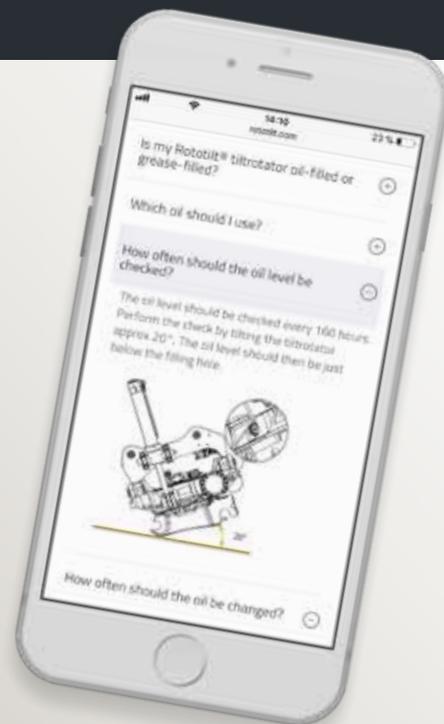
[service.uk@rototilt.com](mailto:service.uk@rototilt.com)

[rototilt.com/en-GB/](http://rototilt.com/en-GB/)



## 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, and no registration is required. 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](http://rototilt.com). There you can quickly get answers to questions about oils, electrical systems, tightening torques and extra equipment, for example.

# ➤ 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 accumulated knowledge and experience here at the tiltrotator's home turf creates new benefits for entrepreneurs all over the world.

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.



Watch the video at:  
[rototilt.com/aboutus](https://rototilt.com/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 optimise materials and designs for maximised 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 emphasise 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

Customers say that Rototilt's tiltrotator system improves excavator efficiency by around 30-50%. In addition, more efficient machines also mean lower fuel consumption and consequently less impact on the environment. Sustainability and environmental considerations also characterise 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 minimise air transport and are careful to ensure that suppliers meet our policies as regards quality, the environment and the working environment.



### FUTURE-ORIENTED PRODUCTION

By gathering development, production and support under one roof, we have created a cluster of skills where smart innovation and efficient production go hand in hand. We have a good balance between sensitivity to new market demands and the ability to lift our gaze 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...



Open-S – the open industry standard for fully automatic quick couplers. Read more at [www.opens.org](http://www.opens.org)

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Rototilt® is one of 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.

*We reserve the right to change specifications or designs without prior notice, and make reservations for any factual errors. Variations in the product range and equipment standards may occur from market to market. For more information concerning current product specifications, local adaptations and special equipment, please contact your nearest sales office.*