



Increase your excavator's efficiency with Rototilt®

# The world's smartest tiltrotator

# › Rototilt<sup>®</sup> makes your machine smarter. And your jobs **more profitable.**

These days, blood, sweat and tears are not enough. No, when demands increase and work has to go even faster, job success and profits are not about working harder, but about smart solutions that get things done more efficiently. Rototilt makes this happen.

Rototilt is a world leader in smart technical solutions created in harmony with machine and work practises that can maximise the efficiency and safety of your excavator. This covers everything from development, testing, technical compatibility and installation to product service and support.

From control systems and tiltrotators to machine couplers and tools. These solutions help contractors around the world to sustainably increase productivity, improve profitability and raise safety. With a thorough understanding of our customers' working conditions, we respond to market demands with ingenious solutions. For your advantage.





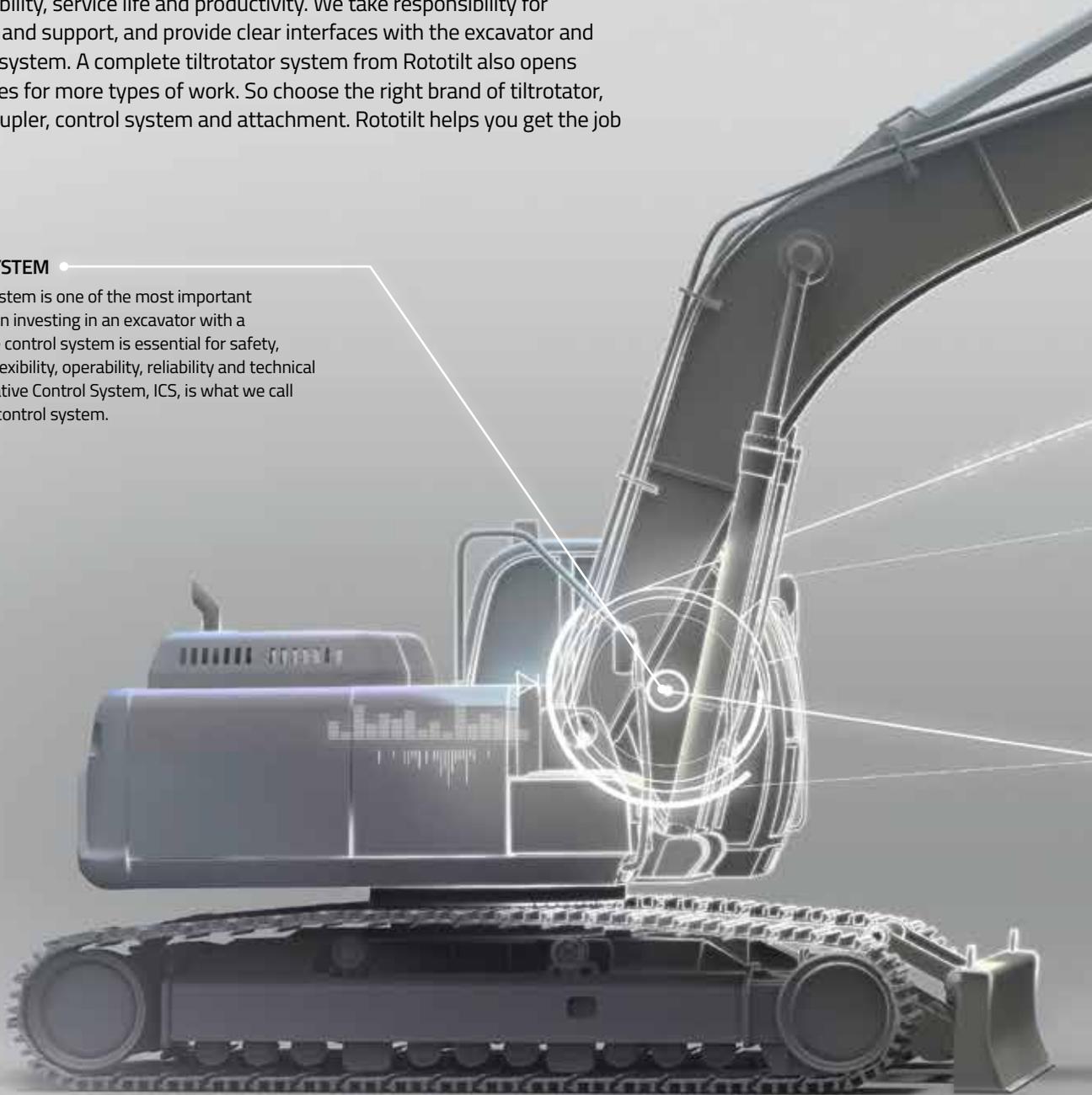
# > The tiltrotator system –

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 – from tiltrotator to control system, machine coupler and tools – you get a complete system from one and the same supplier that has been designed to fit together and that 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 opens opportunities for more types of work. So choose the right brand of tiltrotator, machine coupler, control system and attachment. Rototilt helps you get the job done.

## 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 smartest control system.



# Rototilt<sup>®</sup> all the way!

## MACHINE COUPLER

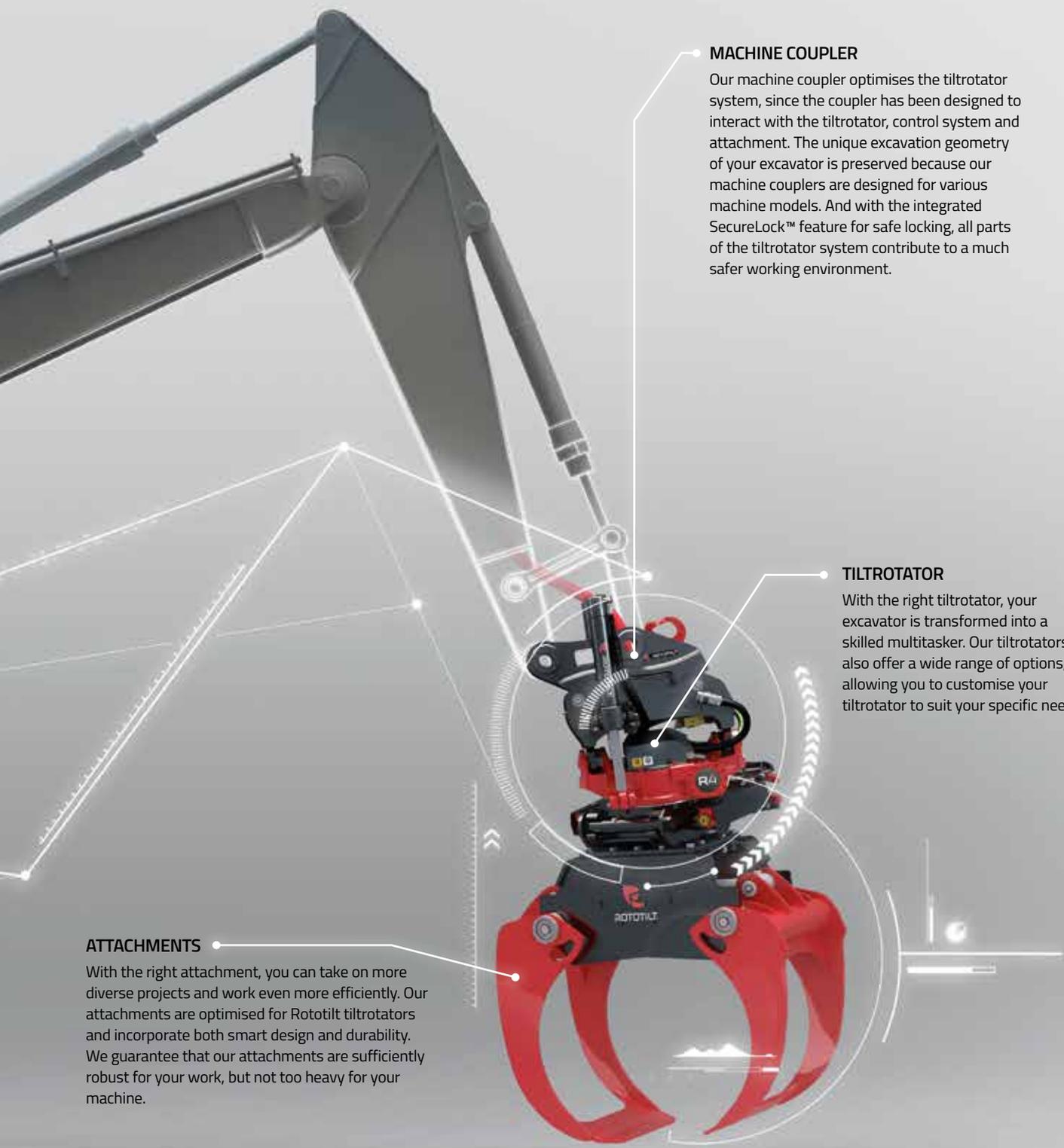
Our machine coupler optimises the tiltrotator system, since the coupler has been designed to interact with the tiltrotator, control system and attachment. The unique excavation geometry of your excavator is preserved because our machine couplers are designed for various machine models. And with the integrated SecureLock™ feature for safe locking, all parts of the tiltrotator system contribute to a much safer working environment.

## TILTROTATOR

With the right tiltrotator, your excavator is transformed into a skilled multitasker. Our tiltrotators also offer a wide range of options, allowing you to customise your tiltrotator to suit your specific needs.

## ATTACHMENTS

With the right attachment, you can take on more diverse projects and work even more efficiently. Our attachments are optimised for Rototilt tiltrotators and incorporate both smart design and durability. We guarantee that our attachments are sufficiently robust for your work, but not too heavy for your machine.





For details see:  
[rototilt.com/buildingandconstruction](http://rototilt.com/buildingandconstruction)



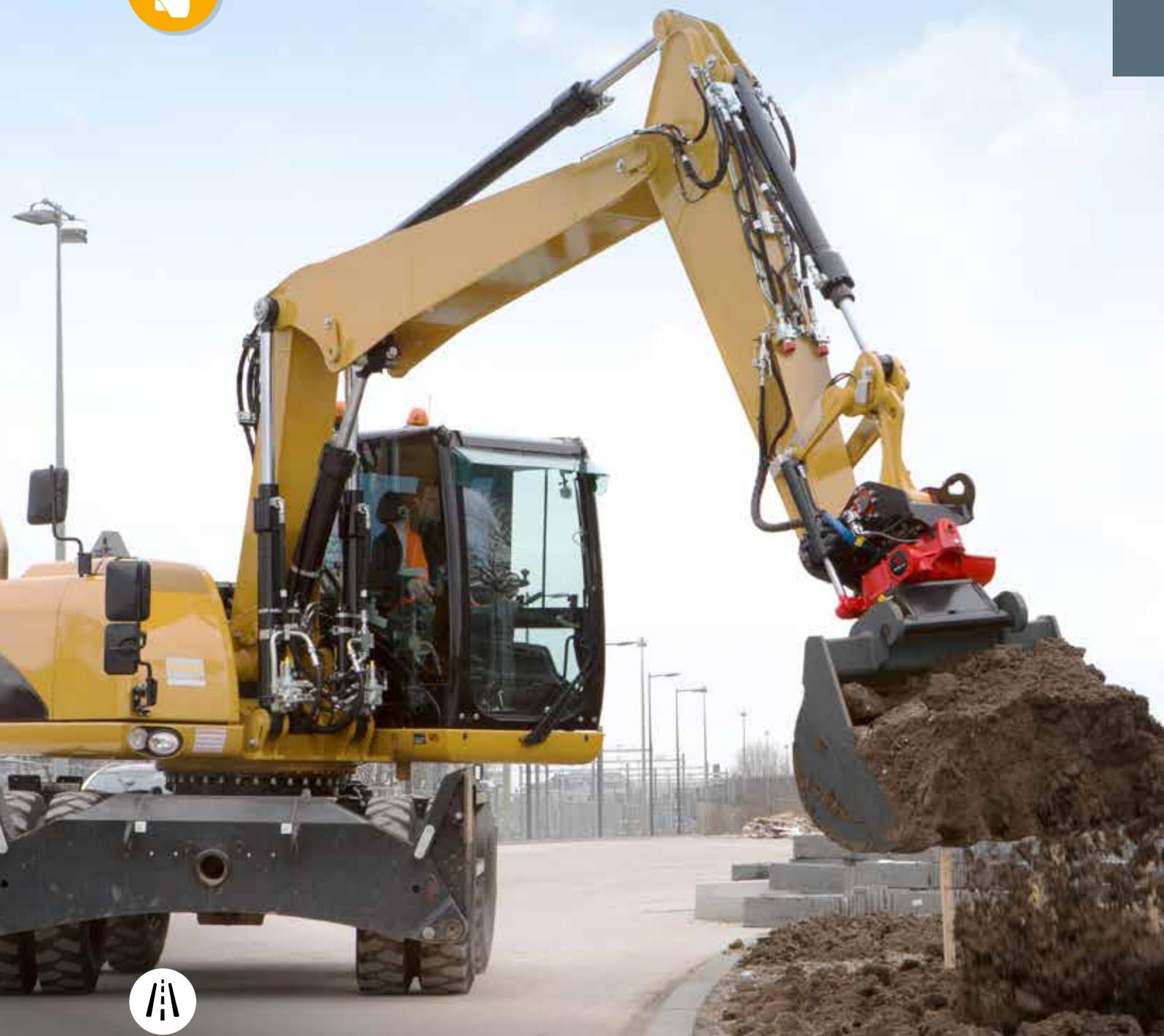
## Building and construction

A simpler path to perfect results. With Rototilt's positioning solution and the tiltrotator's capability to work around, under and over obstructions, you can maximize the utilisation of your excavator and turn it into a multitasking tool carrier.

- GRADING
- EXCAVATION WORK, ELECTRICAL/WATER & SEWAGE
- GOODS HANDLING
- WALL CONSTRUCTION
- POLE RAISING
- FINAL ADJUSTMENT



For details see:  
[rototilt.com/roadwork](http://rototilt.com/roadwork)



## Road work

A tiltrotator with the right tools makes work on and close to roads more efficient and safer. With a single excavator you gain optimal flexibility so that you can take on more types of jobs and perform them with improved precision, higher safety and maximum efficiency.

- DIGGING TRENCHES/  
DITCHES
- GRADING
- CULVERT WORK
- PIPE LAYING
- POLE RAISING
- DIGGING WELLS
- STRIPPING
- FINAL ADJUSTMENT
- DRAINAGE



For details see:  
[rototilt.com/groundwork](http://rototilt.com/groundwork)



## Ground work

Boasting is best in moderation, but when it comes to excavation, Rototilt's solutions are almost a revolution. From the beginning of a job to the very end, you have millimetre precision, flexibility and feel that makes work go more efficiently and with better results.

- GRADING
- TERRACING
- CLEARING
- DITCH DIGGING
- STRIPPING
- DAM CONSTRUCTION
- GREENBELT AND LANDSCAPING WORK
- STONE PAVING
- FINAL ADJUSTMENT



For details see:  
[rototilt.com/waterandsewage](http://rototilt.com/waterandsewage)



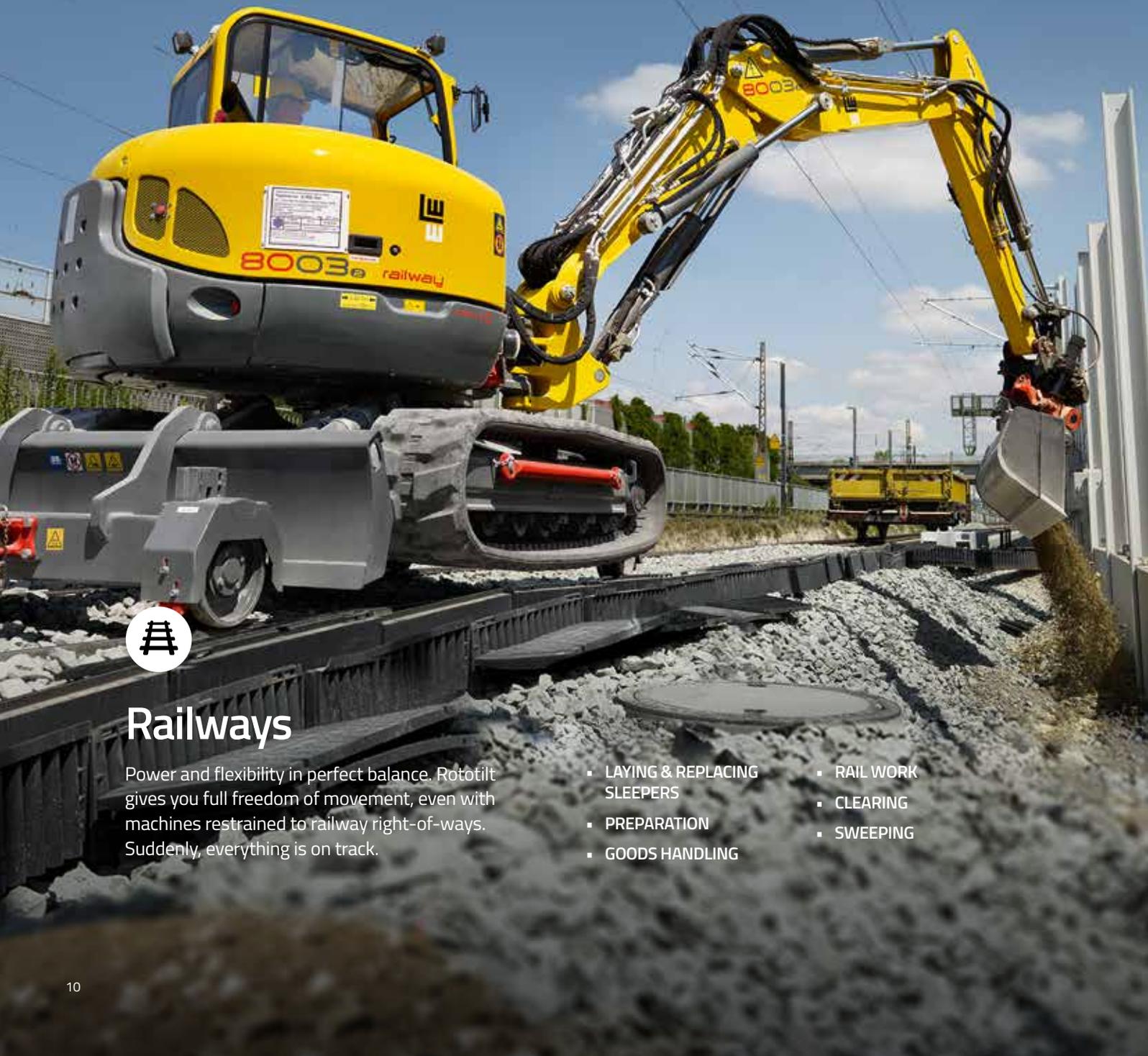
## Water and sewage work

Rototilt provides the opportunity to combine several different tasks. To easily and safely switch between different tools and to perform entire jobs without unnecessary movements even in confined spaces.

- TRENCHING
- PIPE LAYING
- DIGGING WELLS
- RESTORATION



For details see:  
[rototilt.com/railroads](http://rototilt.com/railroads)



## Railways

Power and flexibility in perfect balance. Rototilt gives you full freedom of movement, even with machines restrained to railway right-of-ways. Suddenly, everything is on track.

- LAYING & REPLACING SLEEPERS
- RAIL WORK
- CLEARING
- PREPARATION
- SWEEPING
- GOODS HANDLING



For details see:  
[rototilt.com/maintenance](http://rototilt.com/maintenance)



## Maintenance

With Rototilt transforming your excavator into a flexible multitasker, you can substantially improve the efficiency of your work, both summer and winter. In addition, you can avoid hazardous or awkward manual aspects of a job since your machine can handle the same tasks faster and safer.

- SWEEPING
- CLEARING
- GOODS HANDLING
- SNOW CLEARANCE



For details see:  
[rototilt.com/recycling](http://rototilt.com/recycling)



## Recycling

The ability to get around, over and under is naturally very useful when it comes to sorting and moving recycling materials. Rototilt quickly turns your existing excavator into a machine for these kinds of jobs. The durability and strength of a Rototilt-equipped machine enables the use of powerful grapples for scrap metal and waste handling.

- SCRAP METAL HANDLING
- WASTE HANDLING
- MATERIAL HANDLING



For details see:  
[rototilt.com/demolition](http://rototilt.com/demolition)



## Demolition

With a stone or sorting grapple, the excavator can prepare for full demolition by tearing down selected sections and sorting the debris. It is important these days to sort different materials directly at the demolition site in preparation for recycling and landfill disposal. A tiltrotator with a grapple and grapple module is an unbeatable combination that can also sort materials and clean up once demolition is completed.

- BUILDING DEMOLITION PREPARATION
- SORTING

# › Your tiltrotator.

When you choose Rototilt, you're not only getting the smartest tiltrotator on the market, you're also getting the ability to customise functionality and equipment to suit your needs and working conditions.

This is possible through a modular technology platform that allows customisation. In this way, you can choose the options you need. You can also be confident that you have a solution with higher performance and longer service life than any other tiltrotator on the market, and that it has been developed in collaboration with the construction industry's leading players. Where we give you the last word.



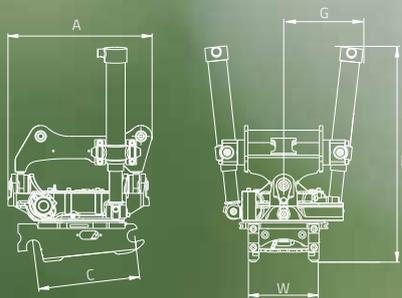


# Our tiltrotators

An increasing number of contractors and markets are discovering the benefits of a tiltrotator solution that maximises 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 the world's largest tiltrotator – the R9 – that runs circles around the competition both in terms of raw power and intelligence.



For details see:  
[rototilt.com/tiltrotators](http://rototilt.com/tiltrotators)



	R1 S40/S40	R2 S40/S40	R3 S45/S45	R4 S60/S60	R5 S60/S60	R6 S70/S70	R8 S80/S80	R9 S80/S80
A (mm)	346	463	608	690	801	801	920	1 151
C (mm)	300	300	467	500	534	600	660	670
G (mm)	403	403	677	705	810	958	1 200	777
H (mm)	674	816	938	975	1 156	1 180	1 275	1 538
W (mm)	202	202	292	342	342	448	592	592

NEW

NEW



	R1	R2	R3	R4
<b>Min/max machine weight</b>	1 500 – 3 500 kg	3 000 – 6 500 kg	6 000 - 12 000 kg	10 000 – 16 000 kg
<b>Max bucket width</b>	1.0 m	1.2 m	15 m	1.6 m
<b>Max breakout force</b>	35 kN	50 kN	81 kN	125 kN
<b>Max breakout torque</b>	25 kNm	43 kNm	85 kNm	163 kNm
<b>Weight</b>	From 75 kg*	From 170 kg*	From 290 kg*	From 315 kg*
<b>Tilt angle</b>	2 x 40°	2 x 40°	2 x 40°	2 x 40°
<b>Rotation speed</b>	1 rotation / 7 sec at 15 l/min	1 rotation / 7 sec at 30 l/min	1 rotation / 7 sec at 50 l/min	1 rotation / 7 sec at 60 l/min
<b>Working pressure</b>	21 MPa	25 MPa	25 MPa	25 MPa
<b>Torque</b>	approx. 1 700 Nm at 21 MPa	approx. 3 900 Nm at 25 MPa	approx. 6 600 Nm at 25 MPa	approx. 8 200 Nm at 25 MPa
<b>Tilting force (single-/ dual-action cylinders)</b>	- / 5 800 Nm	- / 14 400 Nm	21 500 / 26 500 Nm	26 500 / 40 500 Nm
<b>Recommended hydraulic flow, min/max</b>	20 l/min	45-80 l/min	45-75 l/min	80-95 l/min

**R5**

14 000 - 19 000 kg  
1.7 m  
140 kN  
200 kNm  
From 410 kg\*  
2 x 40°  
1 rotation / 7 sec at 65 l/min  
25 MPa  
approx. 8 600 Nm at 25 MPa  
30 900 / 45 100 Nm  
90-105 l/min

**R6**

15 000 - 24 000 kg  
1.8 m  
170 kN  
255 kNm  
From 460 kg\*  
2 x 40°  
1 rotation / 7 sec at 65 l/min  
25 MPa  
approx. 8 600 Nm at 25 MPa  
44 500 / 56 600 Nm  
95-115 l/min

**R8**

23 000 - 32 000 kg  
2.0 m  
200 kN  
330 kNm  
From 730 kg\*  
2 x 40°  
1 rotation / 8 sec at 70 l/min  
25 MPa  
approx. 10 700 Nm at 25 MPa  
50 900 / 64 700 Nm vid 25 MPa  
105-125 l/min

**R9**

30 000 - 40 000 kg  
2.4 m  
280 kN  
500 kNm  
From 1 400 kg\*  
2 x 40°  
1 rotation / 7 sec at 125 l/min  
25 MPa  
approx. 16 000 Nm at 25 MPa  
- / 90 000 Nm vid 25 MPa  
200 l/min

\* The weight is dependent on type of attachment, bucket width, machine coupler and choice of control system.

# Advantage Rototilt, down to the smallest detail

Can attach directly on the stick.  
Lower total cost, lower weight  
and more digging power.

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

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



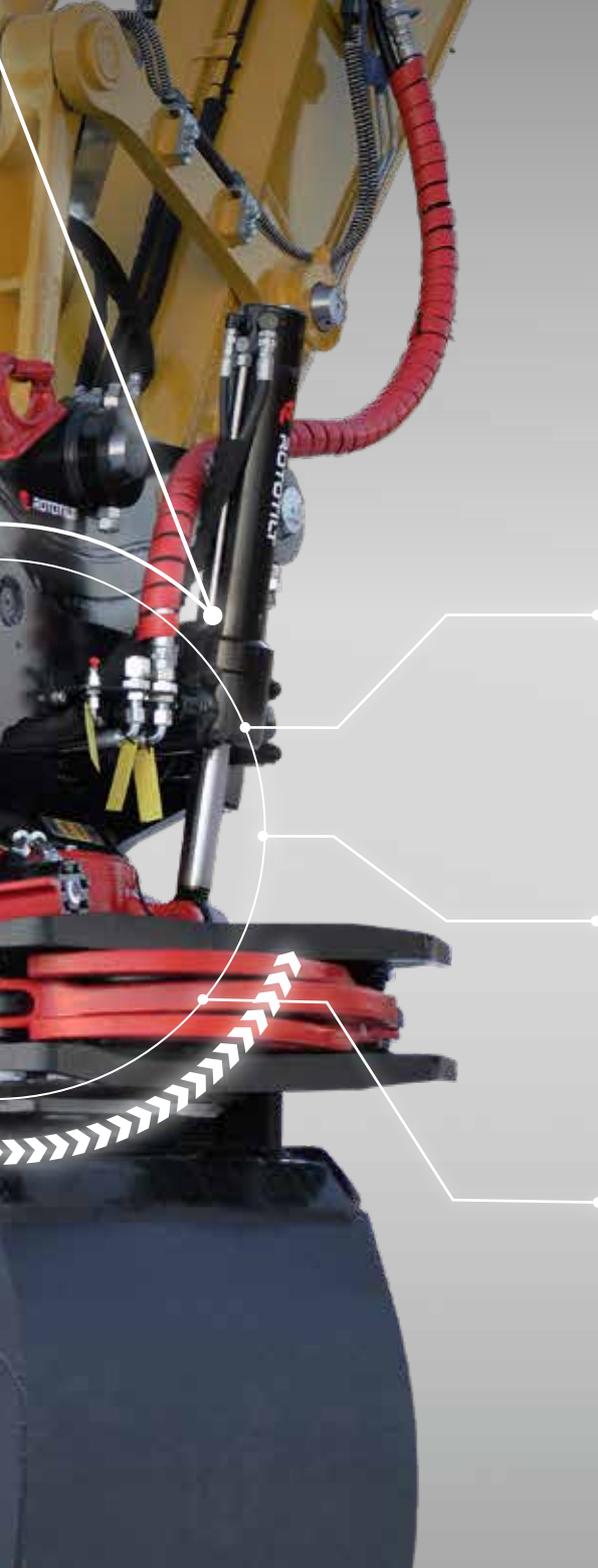
Machine coupler with directly mounted swivel. Provides high flow capacity. This solution minimises hose routing and risk of leakage.



Tilt cylinders with hardened piston rods and lubrication-free bearings.



Powerful worm gear. Large bearing surfaces effectively absorb and distribute excavation forces.



360 degrees endless rotation and 40 degrees tilt angle.

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

Low weight. Smart construction with strength added in the right places.



The market's highest system pressure provides better performance for all functions – such as twisting and rotation forces. It also provides higher clamping forces when using the grapple.



Oil-filled rotor housing. Unlike grease, oil dissipates friction heat where the worm gear slides into the wheel contact. Result is minimal wear and tear.

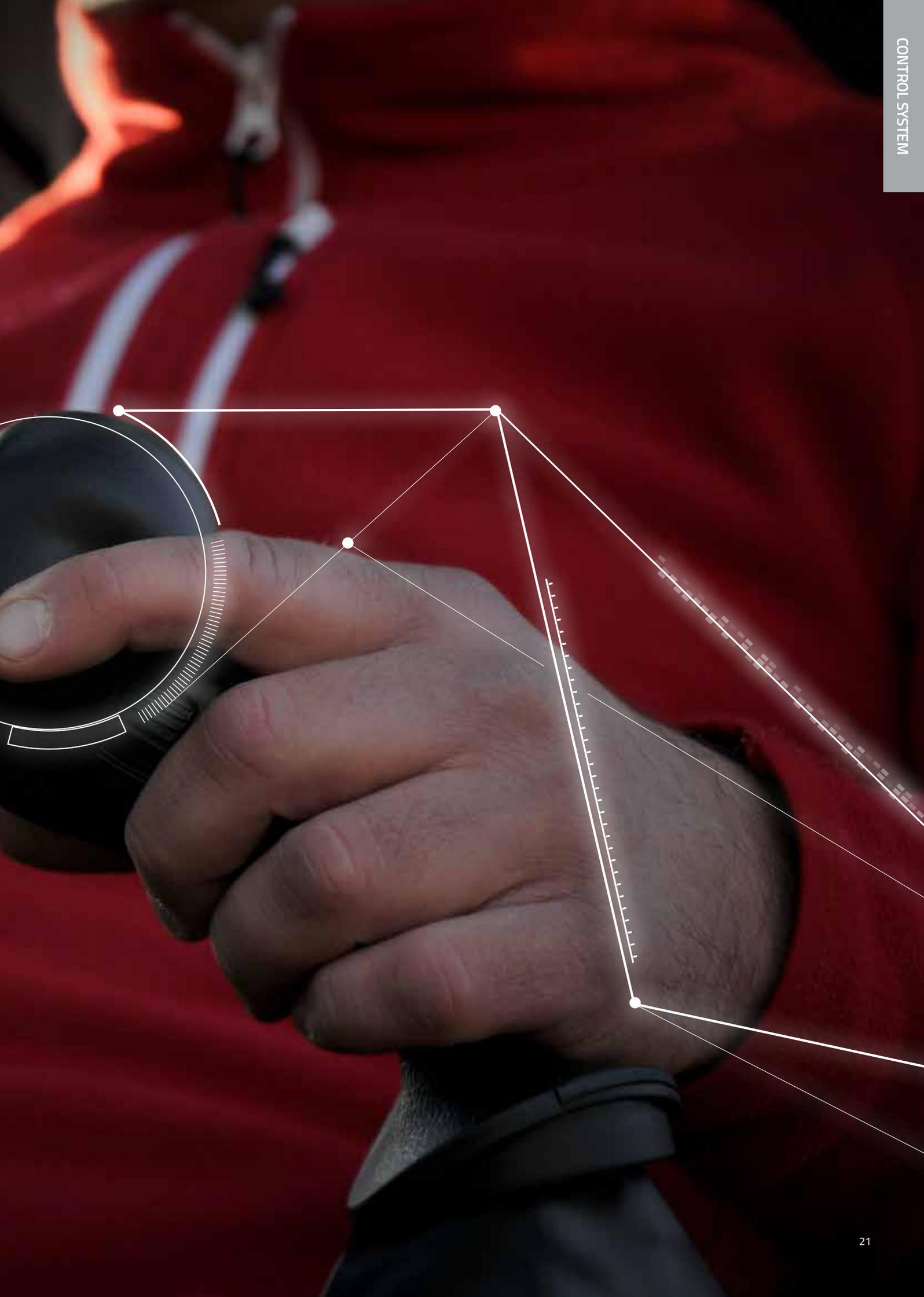


Robust control unit on tiltrotator. Can be lowered in water and is well protected – designed for the extremely tough conditions tiltrotators are often subjected to.

# > The right control system makes your excavator more efficient

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





Watch the video at:  
[rototilt.com/ics](http://rototilt.com/ics)



#### PULSE FUNCTION

Materials are distributed correctly and smoothly with a single press of a button. The operator decides how quickly and widely the materials should 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.



## Smart functions and highest safety

**Innovative Control System, ICS**, is what we call our smartest control system. With ICS, you get the most out of your tiltrotator-equipped excavator. It's that simple. We guarantee that your work will be more efficient, more profitable and much safer.

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



### OPERATOR SETTINGS

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



### TOOLS THAT REQUIRE HIGH FLOW

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



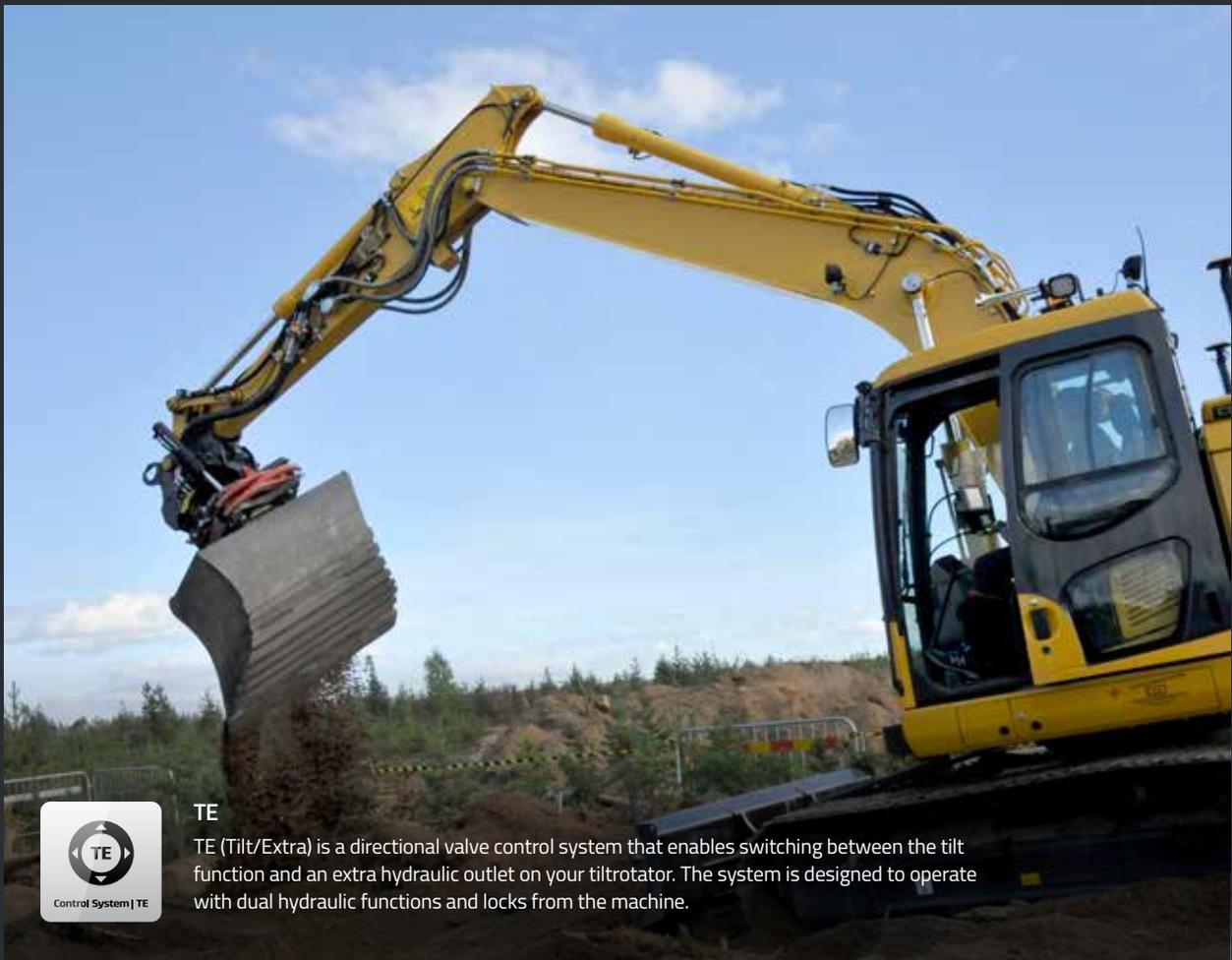
### INTEGRATION WITH EXCAVATOR SYSTEMS

Integrate the excavation system and your tiltrotator system with RPS (Rototilt Positioning Solution). It always gives you 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 machine 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 (Tilt/Extra) 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 med 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	●	●	–
Troubleshooting 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

### TE

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



# > Safety: Realising your zero accidents vision

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. We firmly believe that each link should instead add safety to the chain. For us, efficiency will never be at the expense of safety.

That's why we offer the world's most reliable safety locks – SecureLock™ – for both machine couplers and tiltrotators. That's why we have a special load-holding valve so that loads are safely secured even if the system loses hydraulic pressure. And that's why we are so careful with engineering and quality assurance of all constituent components. You can rely on Rototilt.



Watch the video at:  
[rototilt.com/securelock](http://rototilt.com/securelock)





## SecureLock™ – for both tiltrotators and machine couplers

SecureLock™ sets new standard for safety locks in the contracting industry. It surpasses all applicable safety requirements, gives you safe, continuous monitoring and eliminates 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 tiltrotators and machine couplers.



### 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 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 for most machine coupler types.

# ➤ Customised as standard.

Thanks to Rototilt's modular technical platform, you can customise your tiltrotator with complementary technology.

You can be sure of one thing regardless of how you choose to combine our leading solutions in terms of control systems and safety with smart technology for more accurate positioning, central lubrication and solutions for tools with high flow requirements: Each function and each option is designed for contractors like you, enabling you to keep complete focus on the job. Every day. Year after year.





For details see:  
[rototilt.com/options](http://rototilt.com/options)



## 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 efficiency for tasks such as grading, digging in tight spaces or moving large volumes of soil. In addition, RPS provides significant fuel and time savings.

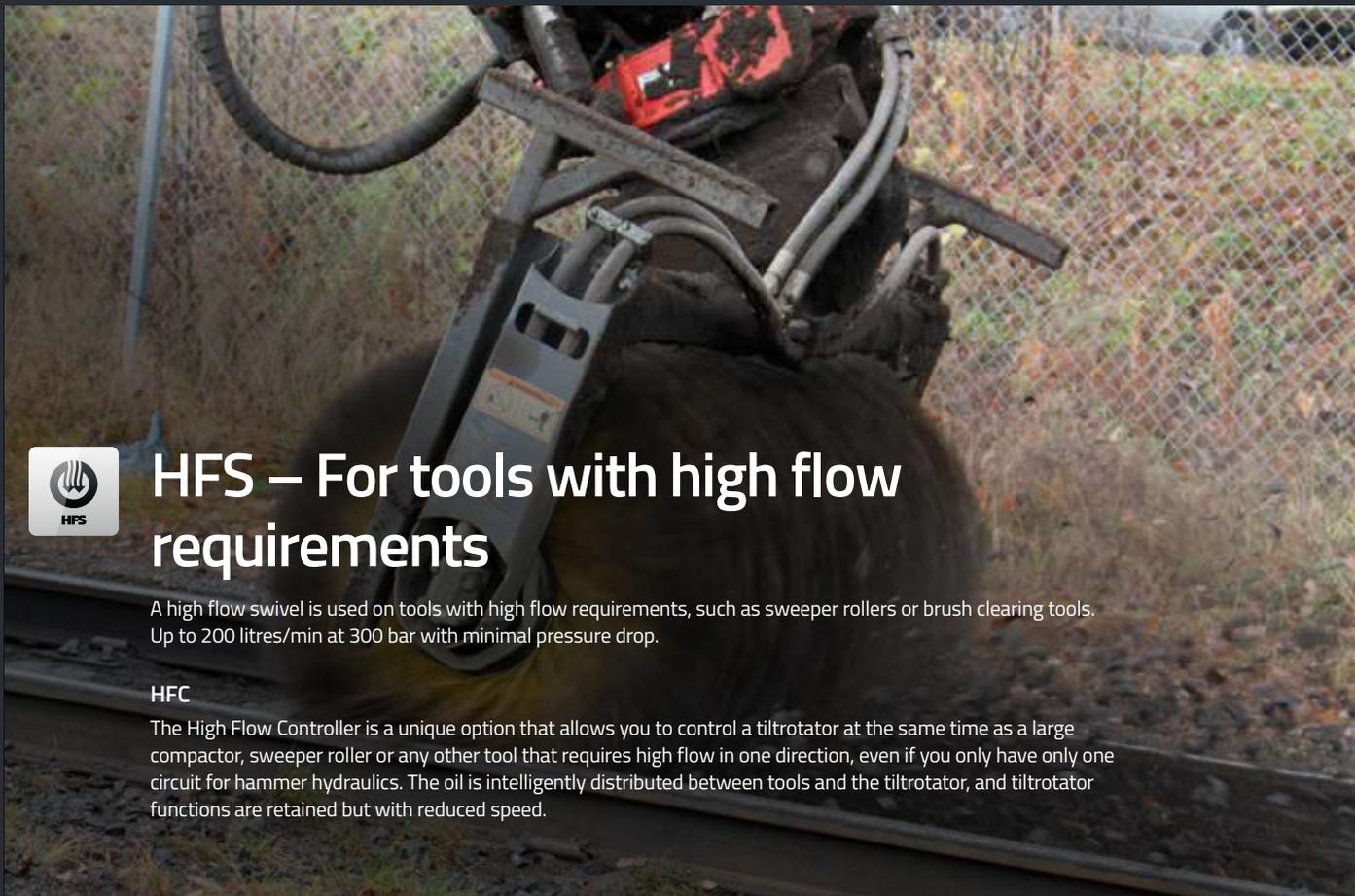
RPS is designed for the Leica, Trimble, Topcon and Novatron excavation systems, and Rototilt provides an ingenious interface with sensors that send the right information to the excavator system.

### AGC

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.



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

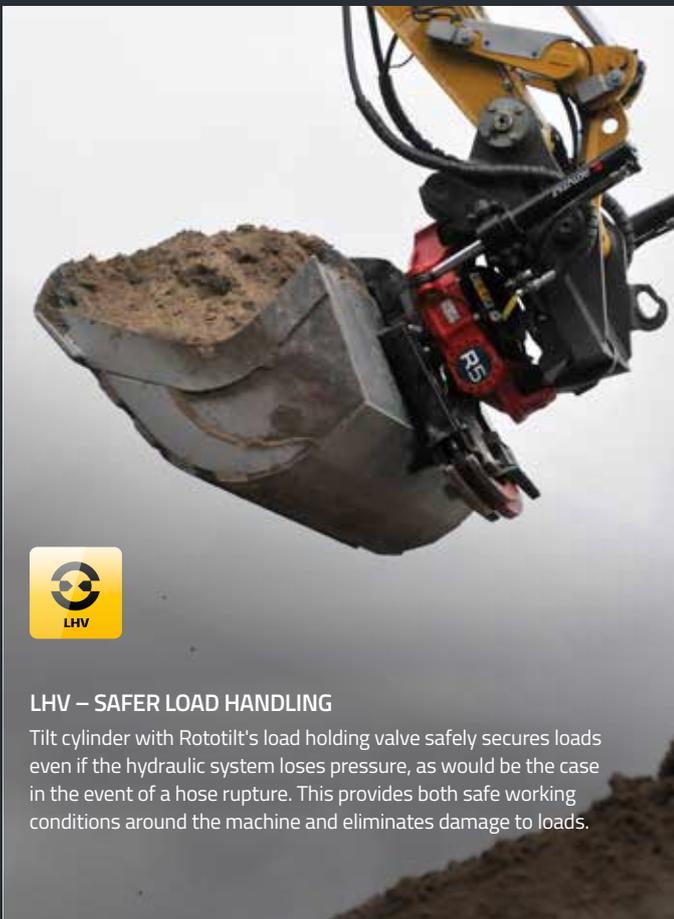


## HFS – For tools with high flow requirements

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.

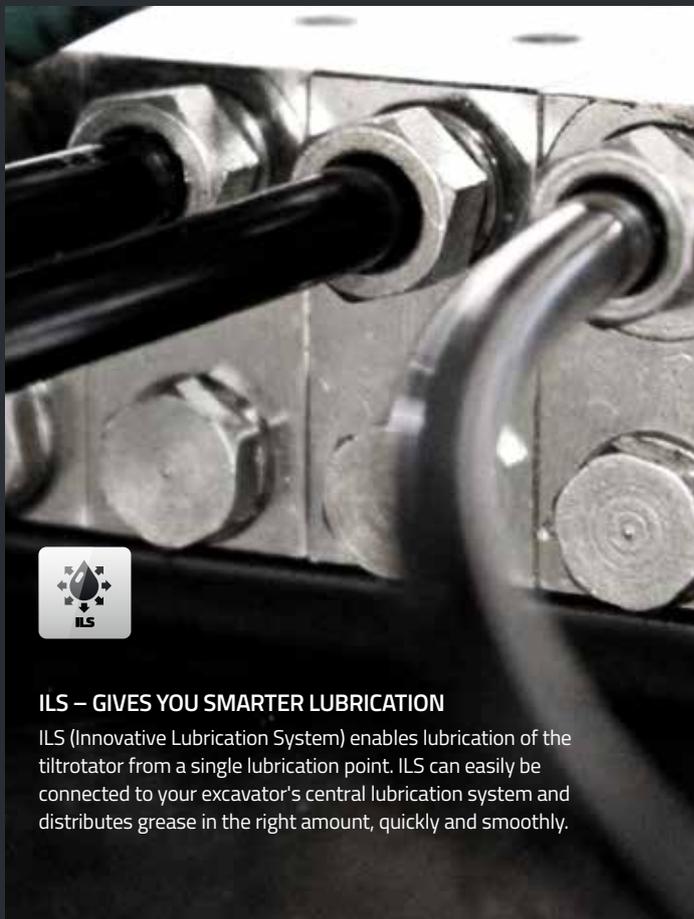
### HFC

The High Flow Controller is a unique option that allows you to control a tiltrotator at the same time as a large compactor, sweeper roller or any other tool that requires 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 cylinder with Rototilt's load holding valve safely secures 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.



## Grapple module

Rototilt's grapple module is an efficient picking and handling tool that you can use for lighter 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. The claws are rounded and close completely. The grapple module can both be retrofit 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 sleepers and rails, for example.

- 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, 5000 kg
- Detachable

Model	G400B	RG400	RG600	RG800	RG850	RG900	RG1050	Railroad grapple RR820	
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	S80, QC80	S45 RR/ QC45 RR	S60 RR/ QC60 RR
Weight (kg)	36	36	68	105	105	166	185	160	
Max hydraulic pressure (MPa)	25	25	25	25	25	25	25	25	
Grapple force, max open (kN)	4,4	4,4	5,6	7,7	8,3	11,7	11,7	20	
Grapple force, tip-to-tip (kN)	7.1	7.1	8.9	13.6	14.1	19.8	21.2	30	
Max lifting capacity (kg)	300	300	500	1,000	1,000	1 300	1,300	5,000	
Grapple open, min (mm)	400	400	600	800	850	900	1,050	820	



## QuickChange™

With Rototilt's hydraulic machine coupler QuickChange™ your tool changes take only a few seconds because you do not have to leave the cab or disconnect hoses. QuickChange™ is based on proven technology from long experience. Both the tool and hoses are connected and locked with the same cylinder movement. The valves are well protected behind a hatch. QuickChange™ also has a pressure relief function that guarantees that tools are not under pressure during connection and disconnection.



### PIN GRABBER

Pin Grabber is available on the larger R4, 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.

Model	QC45-4	QC45-5	QC60-4	QC60-5	QC70	QC80
Suitable tiltrotator	R4	R4	R4, R5	R4, R5	R6, R8	R8

# ➤ The next generation of machine couplers has arrived

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 new and thinking bigger. As each excavator has its own excavation geometry, an adapted machine coupler is mandatory to retain this. No other coupler available on the market offers the same optimised excavation geometry, durability and safety as Rototilt.

Rototilt machine couplers are manufactured with a frame of tempered cast steel with a broad coupling mechanism for long service life. A heavy-duty locking wedge construction gives you a machine coupler completely free of play, with well protected and few component parts. 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 profitability-creating efficiency.



## SAFETY

SecureLock™ is built into our machine couplers. No other manufacturer gives you the same comprehensive and integrated safety solution. The locking cylinder can withstand constant locking forces of 30-120 bar (and continues to restrain loads even when pressure is lost).



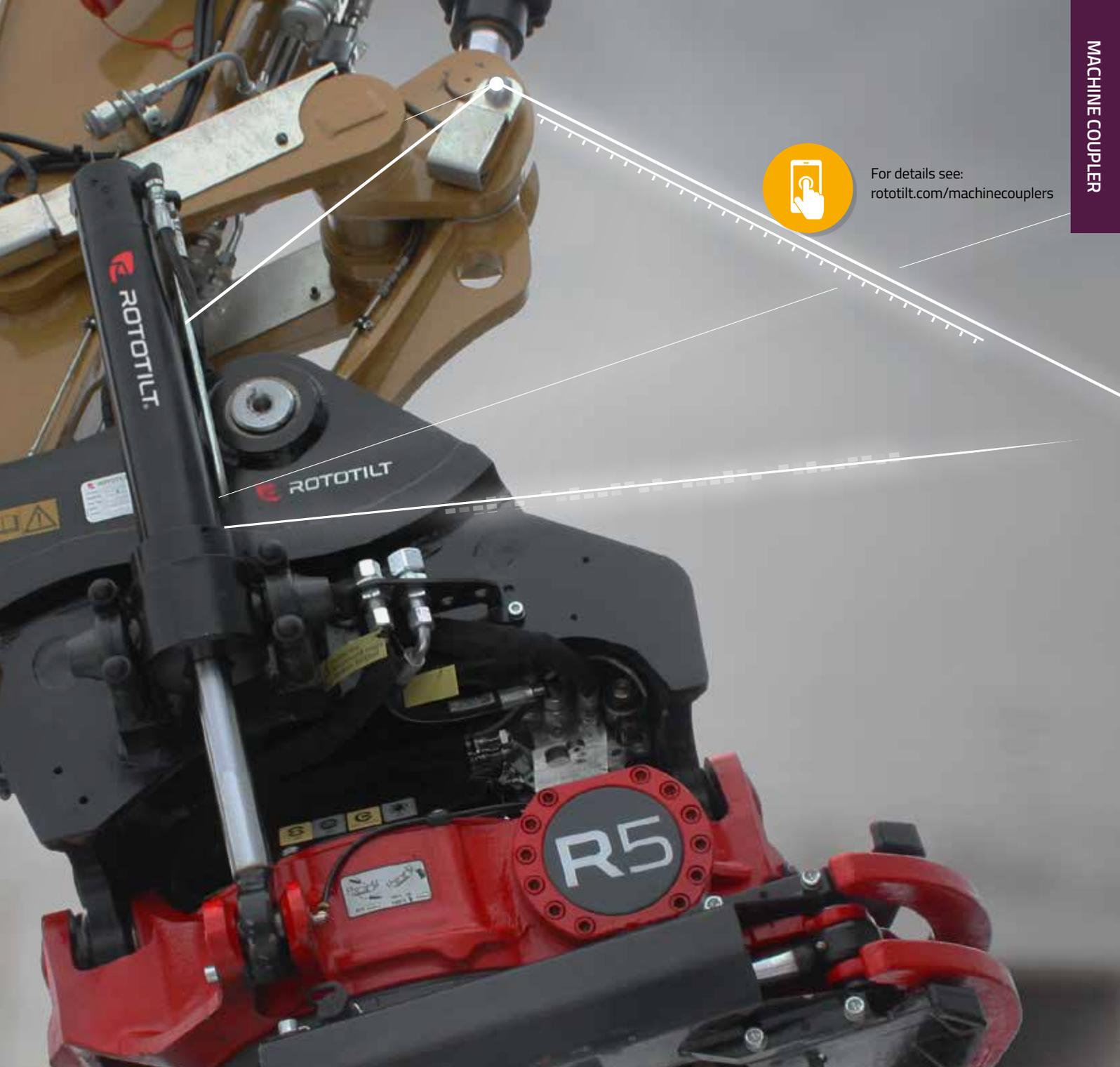
## EXCAVATION GEOMETRY

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



## SPECIALLY CAST FRAME

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.



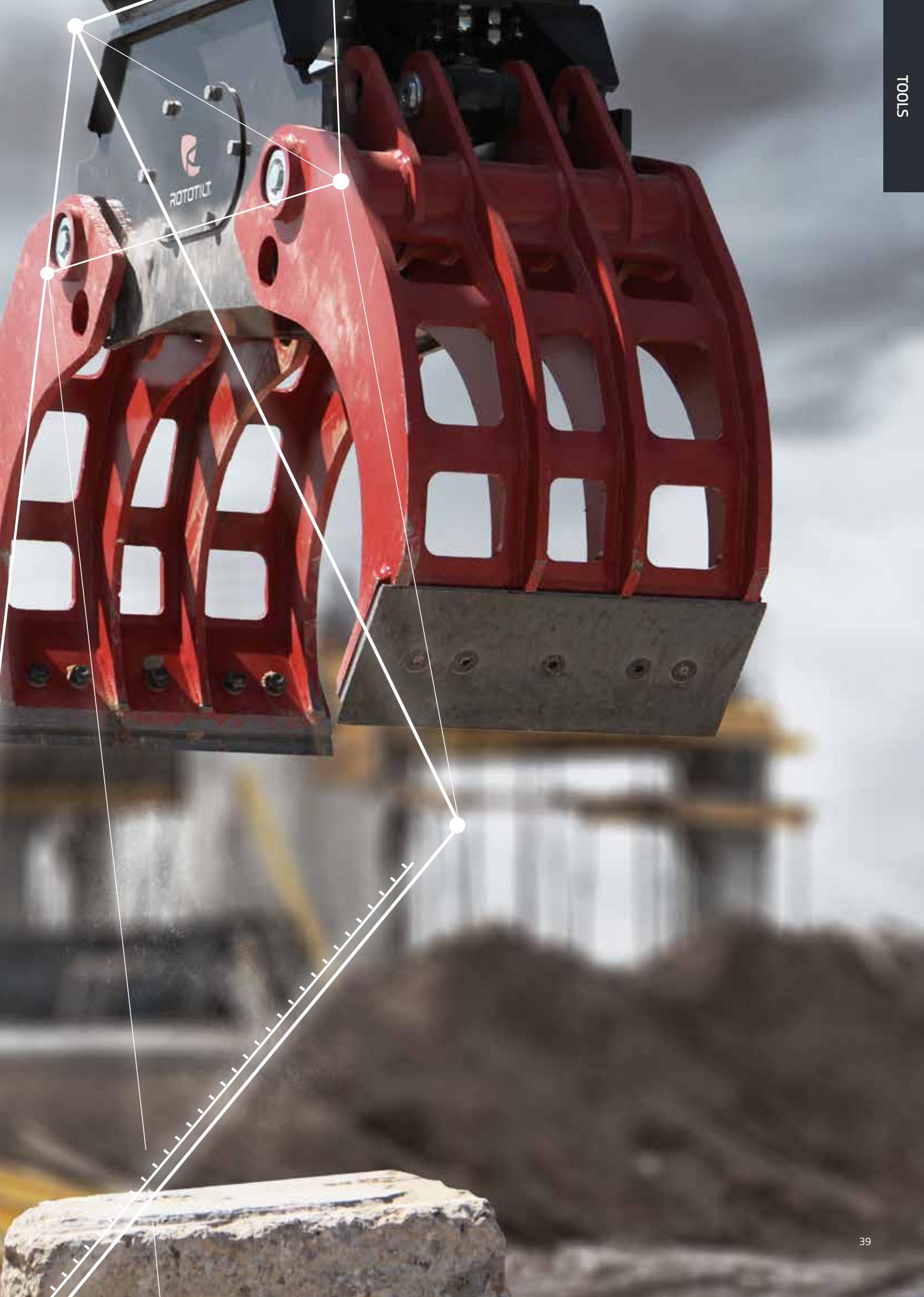
For details see:  
[rototilt.com/machinecouplers](http://rototilt.com/machinecouplers)

Model	S40	S45	S50	S60	S70	S80
Opening pressure (bar)	300	350	350	350	350	350
Permitted locking pressure, max/min (bar)	120/30	120/30	120/30	120/30	120/30	120/30
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

# ➤ Tools designed for your tiltrotator

Rototilt has buckets, grapples and compactors. Common to all our tools is that they are characterised by thoughtful design, wear resistance and productivity. That they are also optimised for our tiltrotators guarantees that you get maximum benefit from your excavator.

We have trenching buckets, excavation buckets and grading buckets that optimally combine weight, excavation geometry and resistance to wear. Our multi-grapples, stone grapples and sorting grapples offer a unique combination of efficiency and safety. The grapples are designed for our tiltrotators, which ensures that you won't run into problems with grapples that are too small for what you are doing or too heavy for your machine. With our compactors we provide a product program that combines efficiency and safety for work in, for example, shafts and pipe trenches, and on slopes and inclines or uneven surfaces.



NEW

## Buckets that optimise power and versatility

Our new and improved buckets are the optimal choice for use with Rototilt tiltrotators and machine couplers. They are robust and sturdy buckets that combine weight, design and durability in the best possible manner. Our three bucket families have buckets for all excavators between 1.5 and 32 tonnes.

No matter which bucket you choose, it is constructed in high quality steel. The parts of the buckets that are especially prone to wear are reinforced. The buckets feature a curved floor plate, smooth and progressive digging action as well as optimal box construction.



### TRENCHING BUCKETS

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

### GRADING BUCKETS

Our grading buckets have bevelled corners, optimised geometry, long and flat floor plates and a conical design. The conical design makes it easier to fill the bucket and release materials. The hanger construction can withstand tough use and the optimised geometry allows you to easily rotate the bucket without losing materials.

### EXCAVATION BUCKETS

Our robust excavation buckets have a shape that enables them to quickly and efficiently penetrate materials and to easily fill the buckets. Bucket weight is optimised for Rototilt 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. They can be equipped with the J-type tooth system or edges.



For details see:  
[rototilt.com/buckets](https://rototilt.com/buckets)



#### TOOTH SYSTEM

Our tooth system is the well-proven J-type 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.

High quality structural steel for tough conditions.

Designed to achieve maximum performance with your tiltrotator.

Bevelled corners for smoother tiltrotator operation. Rotate without dropping materials.

Reinforced hanger design for heavy duty use.

Wear steel in HB 500, floor and side plates in HB 450.

Curved floor plate for easier material release from the bucket.

The conical design makes it easier to fill the bucket and release materials.

Excavator buckets are available with teeth or blades. All grading and trenching buckets have blades as standard.

The design provides flexible and safe excavation geometry. Custom radius for use with tiltrotator.



**TOOLS**

Attachment	Bucket	Volume (litres)	Width (mm)	Weight (kg)	
Tiltrotator	545	Trenching buckets	200	400	188
		Trenching buckets	300	450	233
		Grading bucket	400	1 400	310
		Grading bucket	500	1 500	332
		Excavator bucket with blade	500	800	326
		Excavator bucket with teeth	500	850	339
	550	Trenching buckets	200	400	188
		Trenching buckets	300	450	233
		Grading bucket	400	1 400	309
		Excavator bucket with blade	500	800	327
		Excavator bucket with teeth	500	850	340
		560	Trenching buckets	350	520
Excavator bucket with blade	600		850	520	
Excavator bucket with teeth	600		880	537	
Grading bucket	650		1 500	489	
560	Trenching buckets	420	620	407	
	Excavator bucket with blade	750	1 000	577	
	Excavator bucket with teeth	750	1 030	589	
	Grading bucket	750	1 600	522	
560	Excavator bucket with blade	900	1 160	678	
	Excavator bucket with teeth	900	1 200	717	
	Grading bucket	900	1 700	652	
570	Trenching buckets	500	640	566	
	Excavator bucket with blade	900	1 160	757	
	Excavator bucket with teeth	900	1 200	796	
570	Grading bucket	900	1 700	711	
	Trenching buckets	500	640	566	
	Excavator bucket with blade	1 100	1 260	954	
570	Excavator bucket with teeth	1 100	1 300	964	
	Excavator bucket with blade	1 300	1 320	1 138	
	Excavator bucket with teeth	1 300	1 380	1 255	
570	Grading bucket	1 100	1 800	848	
	Grading bucket	1 400	2 000	1 110	
	Trenching buckets	650	720	669	
580	Excavator bucket with blade	1 500	1 400	1 356	
	Excavator bucket with teeth	1 500	1 460	1 475	
	Excavator bucket with blade	1 700	1 500	1 445	
580	Excavator bucket with teeth	1 700	1 560	1 560	
	Grading bucket	1 600	2 000	1 247	
	Grading bucket	1 600	2 000	1 312	
580	Trenching buckets	750	850	787	
	Excavator bucket with blade	1 700	1 500	1 516	
	Excavator bucket with teeth	1 700	1 560	1 636	
580	Excavator bucket with blade	2 000	1 600	2 048	
	Excavator bucket with teeth	2 000	1 700	2 202	

Attachment	Bucket	Volume (litres)	Width (mm)	Weight (kg)	
Tiltrotator	530-150	Trenching buckets	65	300	52
		Excavator bucket with blade	70	450	64
		Grading bucket	90	900	85
		Trenching buckets	45	250	48
		Excavator bucket with blade	50	400	57
		Grading bucket	60	800	72
	530-180	Trenching buckets	65	300	52
		Excavator bucket with blade	70	450	64
		Grading bucket	90	900	87
		Trenching buckets	45	250	48
		Excavator bucket with blade	50	400	57
		Grading bucket	60	800	74
540	Trenching buckets	65	300	58	
	Excavator bucket with blade	70	450	69	
	Grading bucket	90	900	92	
	Grading bucket	120	1 000	106	
	Trenching buckets	90	300	91	
540	Excavator bucket with blade	100	500	90	
	Excavator bucket with teeth	100	520	94	
	Grading bucket	150	1 000	145	
	Trenching buckets	120	350	99	
540	Excavator bucket with blade	150	550	147	
	Excavator bucket with teeth	150	570	154	
	Grading bucket	200	1 100	159	
	Excavator bucket with blade	200	600	166	
	Excavator bucket with teeth	200	620	169	
	Grading bucket	250	1 100	181	
	Excavator bucket with blade	260	650	182	
	Excavator bucket with teeth	260	670	186	
	Excavator bucket with blade	320	700	204	
	Excavator bucket with teeth	320	750	229	
	Grading bucket	300	1 200	209	
	545	Trenching buckets	160	400	163
Excavator bucket with blade		350	700	279	
Excavator bucket with teeth		350	750	295	
Grading bucket		300	1 200	220	
Grading bucket		370	1 300	289	
Excavator bucket with blade		400	750	296	
550	Excavator bucket with teeth	400	820	312	
	Trenching buckets	160	400	162	
	Excavator bucket with blade	350	700	278	
	Excavator bucket with teeth	350	750	294	
	Grading bucket	300	1 200	219	
	Grading bucket	370	1 300	288	
550	Excavator bucket with blade	400	750	297	
	Excavator bucket with teeth	400	820	313	

# 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 optimal utility tool for those who want to take on more jobs and supplementary work.



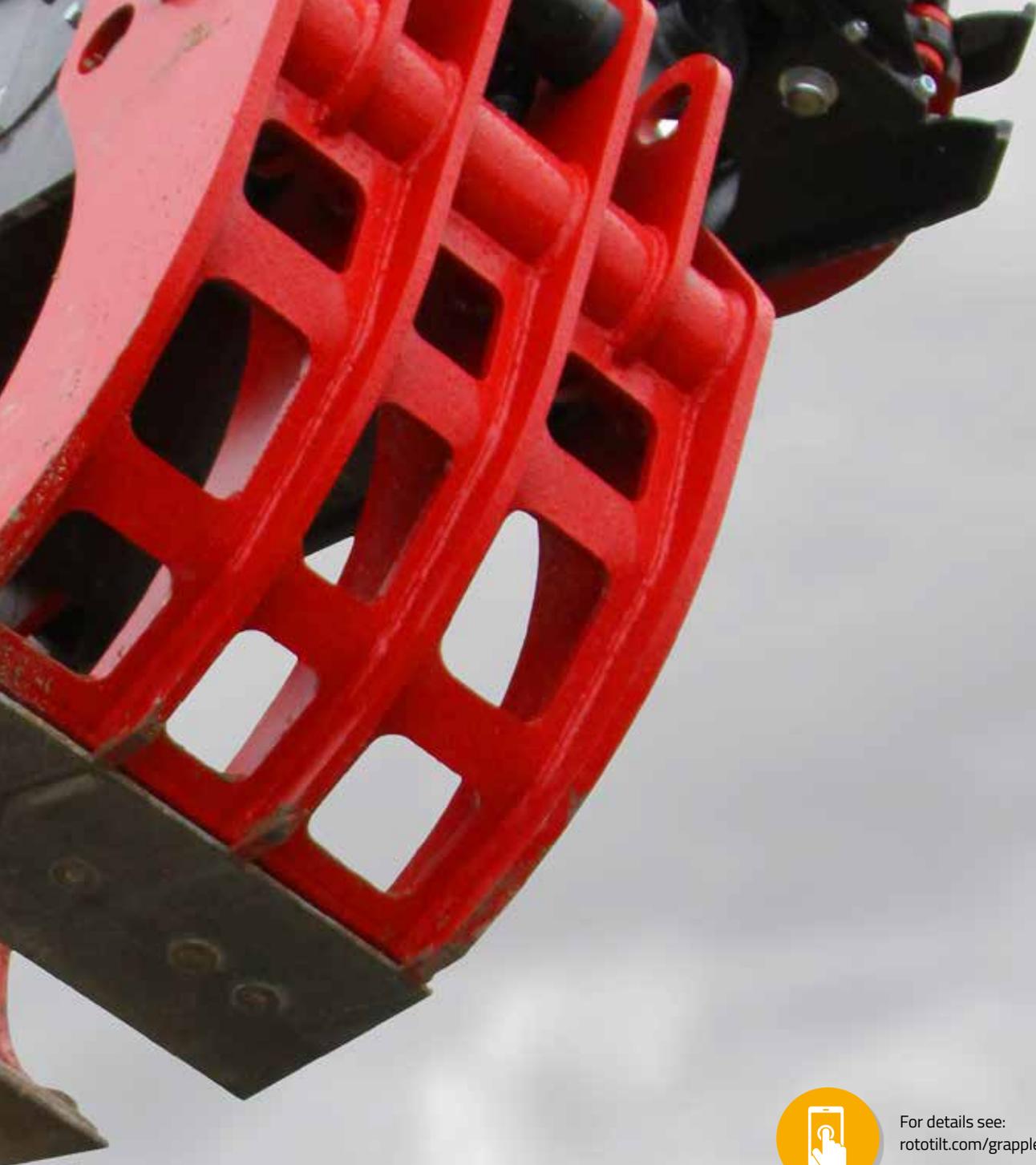
## STONE GRAPPLES

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



## SORTING GRAPPLES

Sorting grapples go tip-to-tip and are perfect 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 optimised weight, you can always rely on this grapple.



For details see:  
[rototilt.com/grapples](http://rototilt.com/grapples)



#### INTERCHANGEABLE BLADES

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

Maximum safety with both accumulator and load-holding valve as standard.

Built-in flexibility due to bolt-on attachment bracket. Easy to adapt for different attachment systems.

End-limit dampening for softer operation and minimised wear.

Available with QuickChange™ for fast tool replacement without manual disconnection of hoses.

Sturdy and amply dimensioned chassis, optimised for best strength.

Dual parallel braces for maximum strength and durability.

Expander pins simplify service and extend service life.

Broad grapple claws (extra wide for SOG) for optimal stability when lifting.

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

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

Impressive enclosing properties enable lifting of objects even with small diameters while maintaining precision and gripping capability.

# Multi-grapples

Model	MG20	MG30	MG40	MG60	MG80
Suitable tiltrotator	R2	R3	R4, R5	R5, R6	R8
Suitable machine weight (t)	3-6	6-11	10-16	15-24	23-30
Max working pressure (MPa)	25	25	25	25	25
Min working pressure (MPa)	17.5	19	19	19	19
Recommended flow (l/min)	30	40	60	80	80
Max flow, grapple close (+) (l/min)	–	–	41	55	64
Max flow, grapple open (-) (l/min)	–	–	25	33	38
Grapple area (m <sup>2</sup> )	0.19	0.26	0.33	0.40	0.62
Max grapple width (mm)	1 290	1 500	1 800	1 980	2 600
Min diameter (mm)	80	90	130	140	180
Width (mm)	340	460	580	580	580
Performance, max grapple width (kN)	9.5	12.5	16.5	20	16.5
Performance, tip-to-tip (kN)	12	14.5	18	22	20.5
Max permitted load (kg)	3 000	4 800	7 000	8 400	12 000
Weight (kg)	150	230	390	435	495

# Stone and sorting grapples

Model	SG40	SG60	SG80
Suitable tiltrotator	R4, R5	R5, R6	R8, R9
Suitable machine weight (t)	10-16	15-24	23-30
Max working pressure (MPa)	25	25	25
Min working pressure (MPa)	19	19	19
Recommended flow (l/min)	60	80	80
Max flow, grapple, close (+) (l/min)	41	55	64
Max flow, grapple, open (-) (l/min)	25	33	38
Grapple area (m <sup>2</sup> )	0.2	0.24	0.42
Max grapple width (mm)	1 820	2 100	2 600
Min diameter (mm)	410	480	620
Width (mm)	540	540	900
Performance, max grapple width (kN)	36	50	75
Performance, tip-to-tip (kN)	20	20.5	21.5
Max permitted load (kg)	7 000	8 400	12 000
Weight (kg)	465	535	795

# Efficient and safe compaction

The Rototilt compactor minimises risks for personal injury and makes compaction more efficient. With the combination of tiltrotator and compactor, you can work with your excavator in tight spaces 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 COMPACTION

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

## MAJOR FLEXIBILITY

With a compactor mounted on an excavator, you can comfortably and efficiently get the job done in tight spaces, on slopes and in pipe trenches or shafts. Available with QuickChange™ for fast tool replacement without manual disconnection of hoses.



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

Model	C22	C34	C41	C65
Suitable machine weight (t)	3-10	6-12	10-20	20-40
Suitable tiltrotator	R2, R3	R2, R3	R3, R4, R5, R6	R6, R8, R9
Compression force (T)	2.2	3.4	4.1	6.5
Vibration frequency (Hz)	33	33	33	33
Weight (kg)	190	210	380	475
Length (mm)	780	805	1 040	1 040
Width (mm)	450	525	610/680	750
Height (mm)	600	600	750	750
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 (MPa)	15	15	15	15
Min hydraulic flow (l/min)	20	31	45	70 (HFS recommended)
Max hydraulic flow (l/min)	250	250	250	250
Max pressure load (MPa)	25	25	25	25

\* Secured with bolted joints. Modular and customisable.

# > What our customers say

Finding out what other users think can give you valuable information when you're considering the purchase of a Rototilt product.

Ask around and see what people say. You can also check here to find out what some of our customers are saying. And be sure to watch the videos on YouTube.





**“Our future purchases are always going to be down the Rototilt route. Just primarily because of the efficiencies, cost effectiveness of running them and the productivity that it gives us.”**

- Charlie Greasley,  
John Greasley Ltd, United Kingdom



**“Working with a tiltrotator is easy. I just start the machine and then use the joystick for everything. I quickly got used to having a tiltrotator. It adds a lot to the machine.”**

- Michael Barrault,  
D.R.T.P, France



**“Safety is one of the most important cornerstones of our corporate philosophy. Thanks to the ICS control system and SecureLock™ safety lock, we have a system which ensures optimal safety.”**

- Wolfgang Meier,  
HTI, Germany



**“Having a tiltrotator has changed the way I work and the way I look at jobs now, it’s speeded the job up completely. There’s definitely no going back, a tiltrotator is the way forward.”**

Adam Howarth,  
X & P Civil Engineering, UK

# ➤ Service & support

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 that our customers feel safe when using our products. That's why we work with our in-house engineers, local dealers and service partners who can provide you with the fastest and best service. Never hesitate to contact us, your local dealer or service provider.



# Always close to you

We work with our own engineers and Appointed 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 authorised 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](http://rototilt.com). There you can also find our parts catalogue with spare parts for all tiltrotators, attachments and tools.

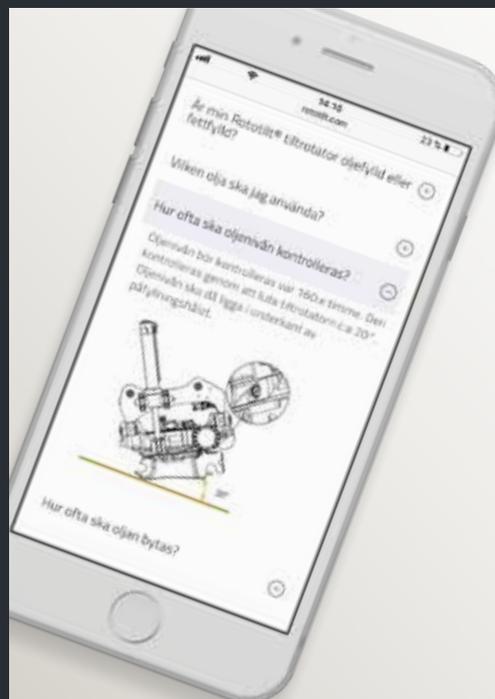
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## ALWAYS 2-YEAR WARRANTY

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. The warranty applies to tiltrotators delivered from 2017 and onwards.



## 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. This entrepreneurial-driven district is embedded with the innovative power and commitment needed to succeed in a global market. The company's strong market position is the result of several factors:



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 constructions 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 engaged employees. Together we have developed a foundation of values that permeates everything we do and provides considerable support in making both large decisions and small. This foundation emphasises joint responsibility, that we show respect towards our environment and that we consider how our actions affect our co-workers, partners, customers and suppliers.



### LONG-TERM SUSTAINABILITY

We value sustainability, both for nature and people. That's why this family business has taken such care in ensuring local, long-term ownership and emphasising the importance of all employees – diversity and equality in the workplace is a strength that contributes to efficiency, profitability and well-being. That's also why we insist on 100% biofuel in heating, heat recovery, recycling, energy-saving measures and ensuring that we have uncommonly low emissions for our type of operations. Rototilt is certified according to ISO9001, ISO14001 and ISO18001.



### 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. With our modular technology platform, customisations can be built in to our products. We have 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. And the journey has just begun...

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Rototilt is the world's leading manufacturer of tiltrotators, accessories and systems. With Rototilt we break new ground for contracting 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 that in all contacts with us, that they feel our strivings for precision, reliability and engagement.

*We reserve the right to change specifications or designs without prior notice, and reserve the right 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.*