

# Get the job done

Rototilt® – The world's leading tiltrotator



**ROTOTILT®**

Makes it possible

## CIVIL ENGINEERING

Smarter demolition and civil engineering

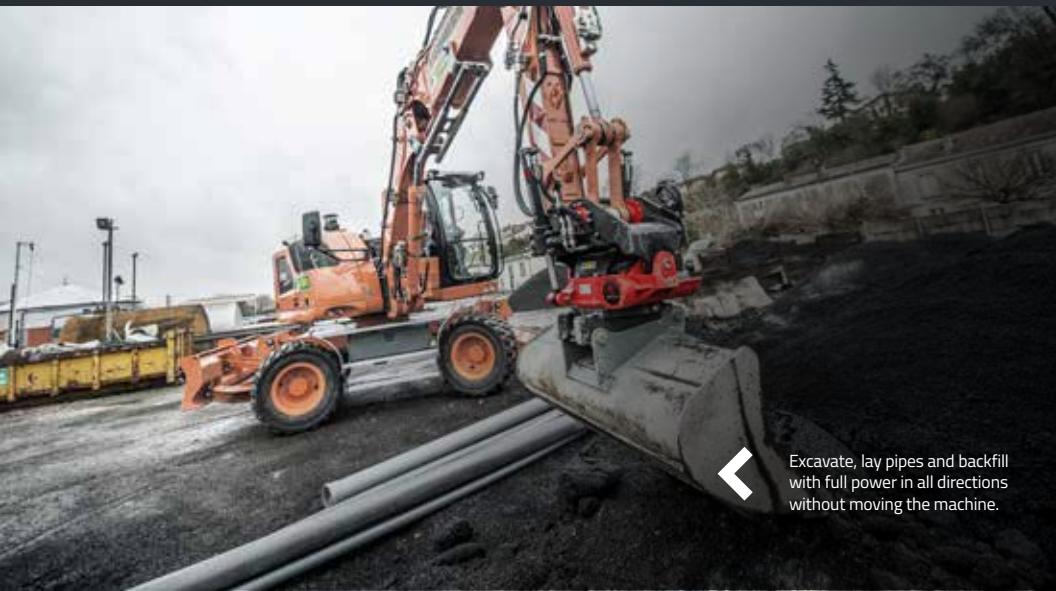
## CONSTRUCTION

More efficient and more flexible in confined spaces

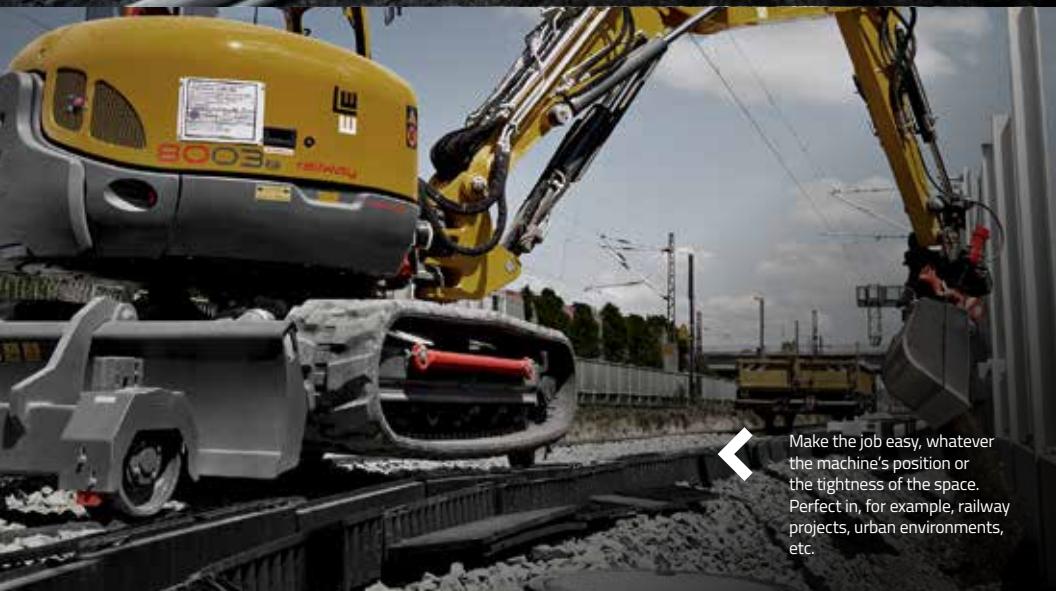
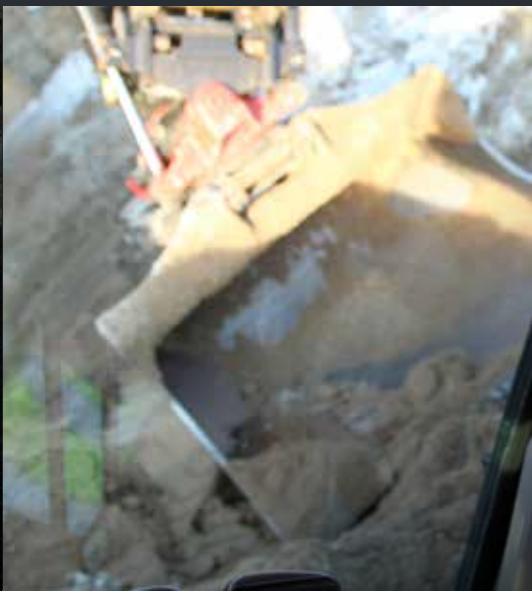
# > Maximise your efficiency

Thousands of contractors all around the world have already discovered the advantages of Rototilt, the tiltrotator that turns your excavator into an exceptionally versatile tool carrier. Rototilt allows you to take on all sorts of jobs. It also ensures that the work is finished more rapidly. There are minimum equipment movements and the work environment is safer.

Quite simply, you get more done with Rototilt!



Excavate, lay pipes and backfill with full power in all directions without moving the machine.



Make the job easy, whatever the machine's position or the tightness of the space. Perfect in, for example, railway projects, urban environments, etc.



## RAILWAYS

Reach flexibility without moving the machine

## MAINTENANCE

A versatile, all-year-round, do-everything machine

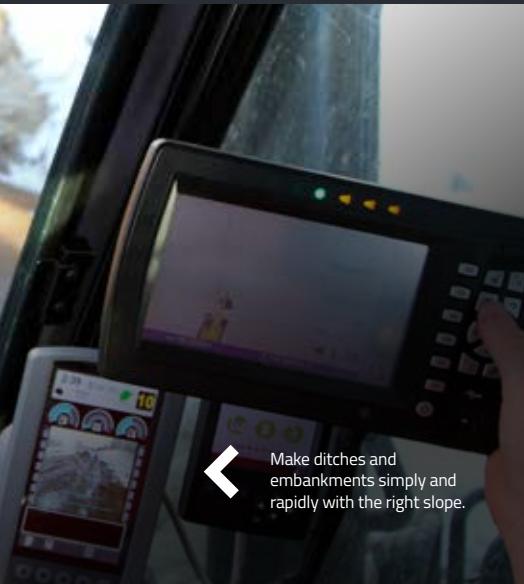
## ROADS

Work without stopping the traffic

**WITH A ROTOTILT TILTROTATOR, YOUR MACHINE CAN CARRY OUT MANY DIFFERENT SORTS OF WORK.**

**HERE ARE JUST A FEW EXAMPLES:**

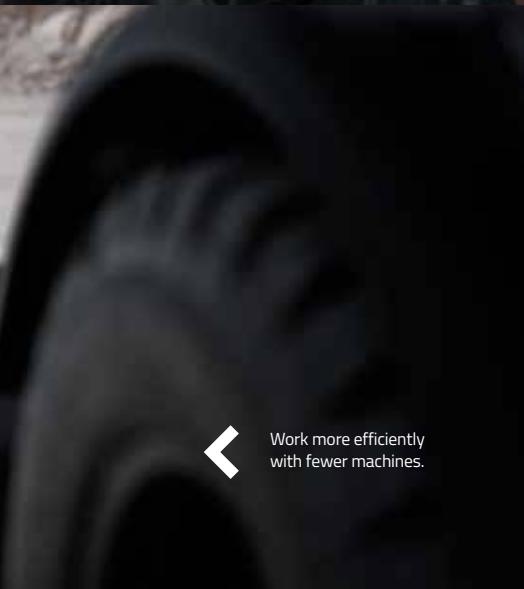
- › Digging up asphalt
- › Pipe laying
- › Paving
- › Dam/pool construction
- › Pole erection
- › Foundation setting
- › Demolition
- › Scrap handling
- › Site levelling
- › Material moving
- › Groundwork
- › Railway refurbishment
- › Brushwood clearance
- › Sweeping
- › Snow clearance
- › Pallet handling
- › Embankment work
- › Ditching
- › Well construction
- › Railway work
- › Damage clearance



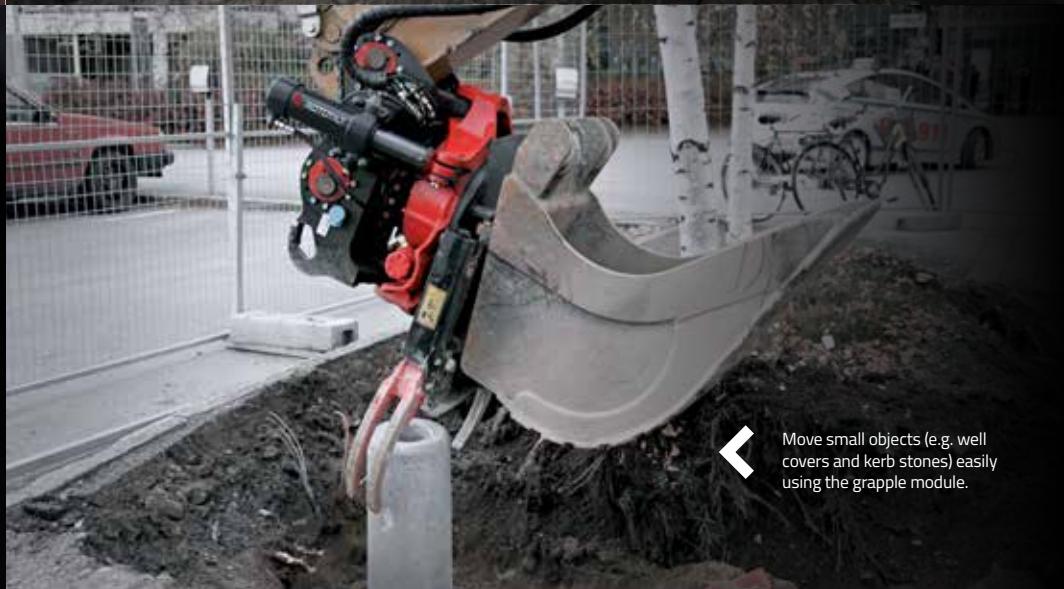
Make ditches and embankments simply and rapidly with the right slope.



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



Work more efficiently with fewer machines.



Move small objects (e.g. well covers and kerb stones) easily using the grapple module.

# > Transform your excavator And your business

## Productivity

- › Transforms your excavator into a fully fledged tool carrier.
- › More jobs in a shorter time.
- › Maximises your machine use.

## Safety

- › Built for truly tough tasks.
- › Individually tested and quality controlled before delivery.
- › The world's safest tiltrotator – patented technology.

## Profitability

- › Expands your business opportunities.
- › Reduces man hours.
- › Minimises stoppages, maximises efficiency.

## Durability

- › Unbeatable service life.
- › Environment-friendly production.
- › Reduced fuel consumption with fewer machine movements.



# > My Rototilt®



"I CAN GET  
EVERYWHERE NOW."



**Mattias Weilar, Germany**  
HTI  
**Machine:** Caterpillar M313D  
**Tiltrotator:** Rototilt® R4  
with SecureLock™



"CUSTOMERS ARE MORE  
THAN SATISFIED!"



**Mark Richards, England**  
Mark Richards Plant Hire Ltd.  
**Machine:** Takeuchi TB175W  
**Tiltrotator:** Rototilt® RT30

With Rototilt, I can get my work done more quickly. I no longer need to drive forwards and backwards. From a single position, I can get everywhere with the bucket, for example, even under water pipes. The tiltrotator means I can rotate the bucket.

Work is also safer as you don't need to have so many men standing close to the digging. Furthermore, with the new locking system, I can readily see from the display whether the bucket is correctly locked.

I can no longer imagine working without Rototilt.

I needed to make my machine more versatile and was looking for a solution. The answer came with Rototilt RT30, which I bought a year ago. It was easy to install because Rototilt used the original controls. Thus there was no need to buy new joysticks. This tiltrotator is also very easy to maintain as it is oil-filled. You simply change oil after 1,000 working hours!

Rototilt has completely changed the way I work and made my company more competitive. In fact, although I've raised my hourly price, I now have more jobs and my customers are more than satisfied when they see the time-savings Rototilt brings and how I can complete jobs without extra manpower. The great variation in jobs also means that I look forward to going to work every day!



## "ROTOTILT® HAS A STRONG SERVICE NETWORK."



**Morten Hoff**, Norway  
Guthorm Hoff AS  
**Machine:** Liebherr 918 Compact  
**Tiltrotator:** Rototilt® R6 with SecureLock™

I drive a 20-ton Liebherr wheel excavator equipped with Rototilt. The tiltrotator increases my flexibility and I can do more jobs. Whether it's ditching, cable laying or landscaping, I can do everything with the machine, without any manual labour.

SecureLock™ is important for me so that I can be confident about having the market's safest locking system and, consequently, avoid accidents. I'm also enormously pleased with the service we get from Rototilt's service providers. Their personnel are both quick and expert at helping as soon as we ring. Furthermore, we haven't had much need for service. Everything works very well. Rototilt has great operational reliability if you just carry out standard maintenance.

I chose Rototilt because this tiltrotator has a very good reputation here in Norway. When it is time to buy a new tiltrotator, my choice will obviously be Rototilt.



## "ROTOTILT® IS A REVOLUTION!"



**Georges Coupiac**, France  
**Machine:** Liebherr model 910  
**Tiltrotator:** Rototilt® RT40B

For my company, Rototilt has more or less been a revolution. I can work far more efficiently and, because of this, have had more jobs from my customers.

I admit I was doubtful at first, especially about how working with Rototilt and buckets would feel. However, I decided to trust my dealer and try. Now, I can't imagine working without it. It has worked perfectly! No matter what type of job, from excavation to pipe culverts and reinstatement work, there is an enormous difference. I can rightfully tell my customers that I can help them to save both time and money!

# > The facts

## **SMARTER, PATENTED MOUNTING**

Direct mounting gives you lower total costs, lower weight and more excavating power. For maximum flexibility, we have developed an in-house, patented, multi-mount.

## **SIMPLER TOOL CHANGES**

Rapid and easy switching between different hydraulic tools. Rototilt offers a customised and dependable solution.

## **ROBUSTNESS AND STRENGTH**

A very strong bolted joint holds the rotor body and quick coupler in a firm grip. A powerful worm gear provides large bearing surfaces that take up and spread excavating forces efficiently.

## **PROPORTIONAL CONTROL SYSTEM**

The ICS control system gives you smart functions such as simplified installation, a pulse function, position indication, etc.

## **PROTECTED HYDRAULIC MOTOR**

The specially designed cover for the hydraulic motor is integrated with the cast rotor body and protects from impacts and jolts from below.

## **WE TEST YOUR ROTOTILT®**

All our tiltrotators are individually tested and weighed before delivery. All functions are checked and ensured.





#### WORK MORE SAFELY

Thanks to well-designed functions and the ability to work with fewer men on the ground and fewer machines, you can maximise safety, even in operations that present many risks.

#### MUSCLES AND SUPPLENESS

Our tilt cylinders gives you the power and the flexibility you need.

#### SUPERIOR PERFORMANCE

Rototilt works at a higher system pressure than all the market's other tiltrotators. This gives better performance in all functions – for example, in the vital tilt and rotate operations – and more clamping force when using a grapple.

#### WIDE RANGE OF TOOLS

Rototilt offers a wide programme of grapples, buckets and compactors. All of these are specially adapted to maximise the usefulness of your tiltrotator.

#### EXACT POSITIONING

Our RPS (Rototilt Positioning Solution) connects to the machine's excavation system and gives the operator full control of the tool's exact position. This function streamlines jobs such as precise embankment work, excavating in confined spaces or moving large amounts of soil. Less bucket wear and considerable fuel and time savings are further RPS benefits.

#### UNBEATABLE SERVICE LIFE...

Robust, well-dimensioned pins, shafts and bushings give Rototilt a long service life. They also give you better total economy than any other tiltrotator on the market.

#### ...THROUGH MINIMUM WEAR

An oil-filled rotor body gives maximum lubrication and minimum wear – a very long service life. Oil is considerably better than grease at high and low temperatures. It also gives better and easier handling at servicing.

# › World-leading in safety and productivity

Safety and productivity have to go hand in hand. That is why we offer technical solutions that make Rototilt the world's safest tiltrotator. Our innovations mean that you can manoeuvre your Rototilt more easily and better than any other tiltrotator on the market. Each function and option has been designed to enable you, the contractor, to focus entirely on the job. Each day. Year after year. This unique combination makes Rototilt unbeatable as regards both operational reliability and productivity. However, don't just take our word for it! Ask any of all the thousands of contractors who have chosen to rely on Rototilt every day.

With Rototilt, you can also choose a control system adapted to your excavator and field of work. Whichever you choose, you can rest assured that our systems both satisfy and exceed ISO 13031. Choose between ICS (Innovative Control System), PropPlus, TE (Tilt-Extra), TLE (Tilt-Lock-Extra) and Prop (Proportional control).



## CONTROL SYSTEM – OPTIONS AND SAFETY

ICS (Innovative Control System) is the market's most modern and most user-friendly proportional control system. It offers, amongst other things, rotor sensor, position sensing, cab display, an automatic spreading function and automatic troubleshooting and feedback.

Furthermore, you can rest assured that our ICS satisfies not only current safety requirements, but also those in the future ISO 13031. You can also choose from a number of high-quality, ergonomic joysticks.



### SECURELOCK™ – A WHOLE NEW LEVEL OF SAFETY

A safety lock that always gives you confirmation that the tool is correctly coupled. SecureLock™ combines hydraulic, mechanical and sensor-based functions with clear audible signals, a LED light and continuous monitoring. It even gives warnings if components are worn and should be inspected.



### QUICKCHANGE – FOR QUICKER TOOL CHANGES

Each change is completed in a few seconds. You do not need to leave the excavator or manually couple the tool. Any tool with a hydraulic coupling mount can be changed directly from the cab. You can also continue to use all tools that have an ordinary standard mount.



### RPS – EXACT POSITIONING

Our RPS (Rototilt Positioning Solution) connects to the machine's excavation system and gives the operator full control of the tool's exact position. This function streamlines jobs such as precise embankment work, excavating in confined spaces or moving large amounts of soil. Less bucket wear and considerable fuel and time savings are further RPS benefits. RPS requires our ICS with rotation sensor.



### LHV – SAFER LOAD HANDLING

Tilt cylinders fitted with a Rototilt load-holding valve ensure that loads are secure, even if the hydraulic system loses pressure (e.g. due to a hose break). This not only makes the work environment around the machine safer, it also eliminates damage to the load itself.

**NEW:** LHV is now standard on single-acting tilt cylinders.



### HFS – FOR TOOLS WITH HIGH FLOW DEMANDS

Our high-flow swivel is designed for tools that need a high flow, e.g. sweeper rollers or brush cutters. Up to 200 litres a minute at 300 bars ensures minimum pressure drop.

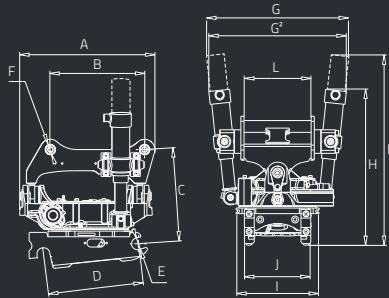


### ILS – SMARTER LUBRICATION

Our ILS (Innovative Lubrication System) enables single-point tiltrotator lubrication. ILS is easy to couple to your excavator's lubrication system. It quickly and simply ensures correct greasing.

Read more about our breakthrough technologies at [rototilt.com](http://rototilt.com).

# ► Which Rototilt® will you choose?



**RT10/1.5 – 3.5 TONS      RT20B/3 – 6 TONS      RT30/6 – 11 TONS**

<b>Min./max. machine weight</b>	1,500 – 3,500 kg	3,000 – 6,000 kg	6,000 – 11,000 kg
<b>Max. standard bucket volume</b>	0.12 m <sup>3</sup>	0.2 m <sup>3</sup>	0.45 m <sup>3</sup>
<b>Max. bucket width</b>	1.0 m	1.2 m	1.5 m
<b>Max. breaking force</b>	35 kN	45 kN	70 kN
<b>Max. breaking torque</b>	25 kNm	38 kNm	70 kNm
<b>Weight</b>	From 75kg*	From 145 kg*	From 255 kg*
<b>Tilt angle</b>	2 x 40°	2 x 40°	2 x 40°
<b>Rotation</b>	Continuous 360°	Continuous 360°	Continuous 360°
<b>Rotation speed</b>	1 rotation/7 secs at 15 l/min	1 rotation/7 secs at 30 l/min	1 rotation/7 secs at 50 l/min
<b>Working pressure</b>	21 MPa	25 MPa	25 MPa
<b>Max. return line pressure</b>	2 MPa at 25 l/min	2 MPa at 40 l/min	2 MPa at 55 l/min
<b>Max. connected flow and pressure, HFS</b>	–	–	–
<b>Number of lubrication points</b>	5	5	8
<b>Turning torque</b>	Approx. 1,700 Nm at 21 MPa	Approx. 3,900 Nm at 25 MPa	Approx. 6,700 Nm at 25 MPa
<b>Tilting torque (single-acting/double-acting)</b>	– / 5,800 Nm	– / 14,400 Nm	21,500 / 26,500 Nm
<b>Recommended hydraulic flow</b>	20 l/min	40 l/min	65 – 80 l/min
<b>Flow, second extra function</b>	14 l/min	29 l/min	
<b>Control system</b>			
ICS			
ICS with rotor sensor			
ICS with SecureLock™			
PropPlus/Prop	●	●	●
P	●	●	●
TLE	●	●	●
TE	●	●	●
<b>RPS</b>			
<b>Tilt cylinder</b>			
Single-acting with load-holding valve			●***
Double-acting	●	●	●
Double-acting with load-holding valve	●	●	●
<b>Autocalibration</b>			
<b>Swivel</b>			
Electric swivel			
HFS – high-flow swivel			
<b>ILS lubrication system</b>	●	●	●
<b>Wheel and track control</b>			
Wheel control			●
Track control	●	●	●
<b>Dimensions**</b>	<b>S30-180 – S30-180</b>	<b>S40 – S40</b>	<b>S50 – S50</b>
Dimension A	412 mm	467 mm	595 mm
Dimension B	–	300 mm	430 mm
Dimension C	325 mm	347 mm	420 mm
Dimension D	–	300 mm	430 mm
Dimension E	Ø30 mm	Ø40 mm	Ø50 mm
Dimension F	–	Ø40 mm	Ø50 mm
Dimension G/G <sup>2</sup>	–	–	635/660 mm
Dimension H/H <sup>2</sup>	683 mm	760/- mm	695/867 mm
Dimension I	176 mm	270 mm	268 mm
Dimension J	–	198 mm	–
Dimension L	–	202 mm	272 mm

● = Optional extra

\* Weight depends on type of mounting, bucket width, quick coupler and choice of control system.

\*\* For complete dimensions with various mounting types, see rototilt.com.

\*\*\* Not with load-holding.

No matter which excavator you have, there is a Rototilt for you. Rototilt has a wide range of tiltrotators and tools for excavators. From 1.5 to 30 tons.



**R4/10 – 16 TONS**

10,000 – 16,000 kg

0.8 m<sup>3</sup>

1.6 m

125 kN

163 kNm

From 315 kg\*

2 x 40°

Continuous 360°

1 rotation/7 secs at 60 l/min

25 MPa

2 MPa at 70 l/min

200 l/min

8

Approx. 6,400 Nm at 25 MPa

26,500 / 40,500 Nm

80 – 95 l/min

60 l/min

**R5/14 – 19 TONS**

14,000 – 19,000 kg

1.0 m<sup>3</sup>

1.7 m

140 kN

200 kNm

From 410 kg\*

2 x 40°

Continuous 360°

1 rotation/7 secs at 65 l/min

25 MPa

2 MPa at 90 l/min

200 l/min

4

Approx. 8,600 Nm at 25 MPa

30,900 / 45,100 Nm

90 – 105 l/min

60 l/min

**R6/15 – 24 TONS**

15,000 – 24,000 kg

1.1 m<sup>3</sup>

1.8 m

170 kN

255 kNm

From 460 kg\*

2 x 40°

Continuous 360°

1 rotation/7 secs at 65 l/min

25 MPa

2 MPa at 90 l/min

200 l/min at 30 MPa

8

Approx. 8,600 Nm at 25 MPa

44,500 / 56,600 Nm

95 – 115 l/min

60 l/min

**R8/23 – 30 TONS**

23,000 – 30,000 kg

1.6 m<sup>3</sup>

2.0 m

200 kN

330 kNm

From 730 kg\*

2 x 40°

Continuous 360°

1 rotation/8 secs at 70 l/min

25 MPa

2 MPa at 90 l/min

200 l/min at 30 MPa

8

Approx. 10,700 Nm at 25 MPa

50,900 / 64,700 Nm at 25 MPa

105 – 125 l/min

60 l/min

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# ► Leadership by choice — Your choice

## ROTOTILT® – BUSINESS DEVELOPMENT FROM BIRTH

Rototilt is the child of two proud parents – innovation and entrepreneurship. The company is located in the heart of Sweden, in a region that is famous for a number of world-leading industrial enterprises. This is where, with a unique combination of technical know-how and business acumen, we develop Rototilt. We understand your everyday world. We know what is required. Furthermore, we believe in you.

We also have a global dealer, distributor, service and support network. This means that the contractors now discovering the advantages of Rototilt have access to the same knowledge bank and the same reassuring support as their Nordic colleagues.

## OUR CONTINUOUS DEVELOPMENT IS A CONSCIOUS CHOICE

Our continuous development is a conscious choice. We believe in creative contractors who are open to new technology that makes their work simpler, safer and more efficient. That is why we constantly seek to extend the boundaries of what is possible. To find solutions that develop not only our products, but also the industry as a whole.

Our modular production method is one example of this innovative methodology. It means that Rototilt is the only tiltrotator manufacturer in the world that can tailor functionality and equipment to precisely your needs.

In a few years, all manufacturers will see how essential this is. With Rototilt, you have this advantage now!

# › Get more done.

By supplementing your tiltrotator with original tools from Rototilt, you can work even more efficiently and take on more types of jobs. Thanks to our complete programme of optimised grapple modules, grapples, compactors and buckets, we can guarantee that your tools will always be up to the job and never too heavy for your machine. All our tools offer the same considered design, wear resistance and safety features that characterise our tiltrotators.

No chain is stronger than its weakest link. With Rototilt original tools, your equipment chain has the highest quality all the way...



## BUCKETS

Our buckets offer the optimum combination of weight, excavation geometry and wear resistance. Rototilt has three complete bucket families – grading buckets, excavating buckets and trenching buckets – for machines between 1.5 and 22 tons.



## GRAPPLES

Rototilt grapples offer a unique combination of efficiency and safety. Clamping forces of up to 75 kN, high-strength steel cutters and the market's largest grip width. There is the additional benefit of our accumulator and load-holding valve solution. This ensures that loads are secure even if the hydraulic system loses pressure (e.g. if a hose breaks).



## COMPACTORS

Rototilt's compactors can handle high return line pressures. This makes them extra suitable for use with your tiltrotator. A machine-mounted compactor also makes it easier to compact hard-to-reach places. Furthermore, it increases safety when working on, for example, embankments, pipe trenches, ditches and shafts – no one needs to be in the working area.



## ROTOTILT'S GRAPPLE MODULE

Our grapple module is the contractor's best friend. Most of them choose it as standard. It is easy to uncouple and can even be retrofitted. Always available for small jobs, it is even flexible enough to be fitted all the time without getting in the way.



*Rototilt is the world's leading manufacturer of tiltrotators, accessories and systems. By transforming excavators into fully fledged tool carriers, Rototilt breaks new ground for heavy construction equipment. All our resources and expertise are concentrated in Vindeln, Sweden. We offer a unique combination of technical know-how, quality, capacity and insight into our customers' operations. We have customers all over the world.*

**PROGRESSIVE EQUIPMENT**  
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