OILQUICK®

CONSTRUCTION

Automatic quick coupler system for construction machinery

OQ – For excavators

OQTR - Tiltrotator

GRAB JOHN - Pole planting bucket



IMPROVE YOUR MACHINE BE BETTER

Automatic quick-coupling system
for excavators



CHANGE TOOLS IN SECONDS!

With OilQuick's quick-coupling system, both hydraulic and mechanical tools – such as hydraulic hammers, sorting grapples and tiltrotators – can be changed quickly and easily. This ensures that the right tool is used for every task, improving both precision and productivity.

SECURE FIT

Our quick couplers and tool adapters are manufactured to the highest standards of precision and quality to ensure a perfect fit. The couler locks at full system pressure, resulting in a backlash-free system with minimal wear and optimal operating efficiency.

SAFE QUICK COUPLER SYSTEM

OilQuick offers safe and reliable quick-coupling systems featuring dual hose break valves and constant hydraulic pre-tensioning of the implement lock. The locking mechanism is easily controlled via a control panel or touchscreen, ensuring safe and efficient operation.

COMFORTABLE & DRIVER-FRIENDLY

With OilQuick, all implement changes and hose connections are carried out automatically, meaning the operator can remain in the cab. This eliminates the need to handle oily couplings and minimises the risk of injury when getting in and out of the cab. Tool changes can easily be carried out even in tough weather conditions such as rain and snow.

INCREASED PROFITABILITY

Quick tool changes and efficient use of the excavator significantly boost productivity. Experience shows that OilQuick pays for itself with just 2–3 changes of hydraulic tools per working day, delivering a rapid return on investment.

FAST & SAFE
QUICK COUPLER



» High-quality steel with a precise fit.

» Suitable for all machines.

» Drilled lock pin holes for a perfect fit.

» Locking pins with minimal wedging effect for secure locking.

» An H-cylinder with dual hose breakaway valves ensures secure locking.

» The OilQuick function enables rapid changes of hydraulic tools.

» Tool adapters with hardened and reinforced welded shafts provide minimal wear and a long service life.

» Supplied with OQLS for safe tool changes.

TECHNICAL DATA

Model	Machine weight	Width	Pin distance	Weight	Max. number of hose couplings						Electrical coupling (optional)
					Max.	3/8"	1/2"	3/4"	1"	1,5"	
OQ 40/24	1-5 t	240 mm	300 mm	32 kg	4	2	2	-	-	-	Yes
OQ 45-5	5-12 t	290 mm	430 mm	85 kg	5	3	2	-	-	-	Yes
OQ 60-5	8-18 t	340 mm	480 mm	135 kg	5	2	1	2	-	-	Yes
OQ 65	14-22 t	440 mm	530 mm	170 kg	5	-	2	3	-	-	Yes
OQ Rail	12-22 t	440 mm	530 mm	220 kg	8	-	5	3	-	-	Yes
OQ 70	15-28 t	450 mm	600 mm	210 kg	5	-	2	1	2	-	Yes
OQ 70/55	18-32 t	550 mm	600 mm	230 kg	6	-	2	2	2	-	Yes
OQ 80	25-43 t	590 mm	670 mm	320 kg	6	-	2	2	2	-	Yes
OQ 90	40-70 t	750 mm	750 mm	630 kg	9	1	3	1	4	-	Yes
OQ 120	70-120 t	870 mm	925 mm	1,200 kg	8	-	3	-	3	2	Yes

ADAPTERS FOR ALL TOOLS

We offer solutions for all types of tools – hydraulic, electric and mechanical – for both small and large machines.

No machine fleet is the same — but the OilQuick principle always works. No matter the equipment, you'll find the right adapter for all tools in our range, allowing you to work more comfortably, efficiently and safely.



Mechanical tool frame

Welded frame for mechanical tools.



Hydraulic tool frame

Welded frame for hydraulic tools.



Tool adapter

Bolt-on tool adapter for hydraulic tools.



Pendulum adapter

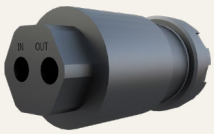
Hydraulic frame for suspended tools

ACCESSORIES AND OPTIONS



HYDRAULIC COUPLING WITH GUIDE NUT

Built for demanding applications. Handles high flow rates and severe pressure surges, even when used with hammers, crushers and shears. Developed through extensive experience and rigorous testing to ensure optimal material selection, surface treatment and design. Distributes oil, grease, water and air. Available in sizes ½", ¾", 1" and 1½".



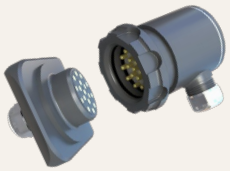
LUBRICATION CONNECTOR

A coupling for optimum lubrication of implements. The integrated grease return channel directs the grease back when lubricated implements are disconnected, thereby preventing the overflow valve from activating. Available as an option for all mounting sizes.



HIGH POWER CONNECTOR

Our quick coupler can be fitted with a high power connection that enables the rapid connection of magnets for material handling, with a capacity of up to 100 A. Available as an option for all fastener sizes.



V90 ELECTRICAL CONNECTOR

The electrical connection is available in two models. The V-90 is fitted to the quick-release coupling's chassis. The other model is integrated into the H-cylinder and is available in 1/2" and 3/4" sizes. Configuration: 10-pin.

SAFE TOOL CHANGES WITH OQ-LOCKSUPPORT

OilQuick LockSupport (OQLS) is a user-friendly operator support system that ensures safe tool changes on excavators. OQLS is compatible with all sizes of OilQuick fully automatic quick couplers.

Many modern excavators are equipped with hydraulic quick couplers and switch between different buckets and tools several times a day. Every change involves a risk — dropped or swinging tools can lead to serious injury or fatal accidents.

Dropped buckets are often caused by operator-related factors such as work stress, different and non-standardized control systems, and uncertainty regarding the position of the quick coupler and locking pins.

OQLS addresses these issues and provides the operator with reliable support for making safe bucket and tool changes.

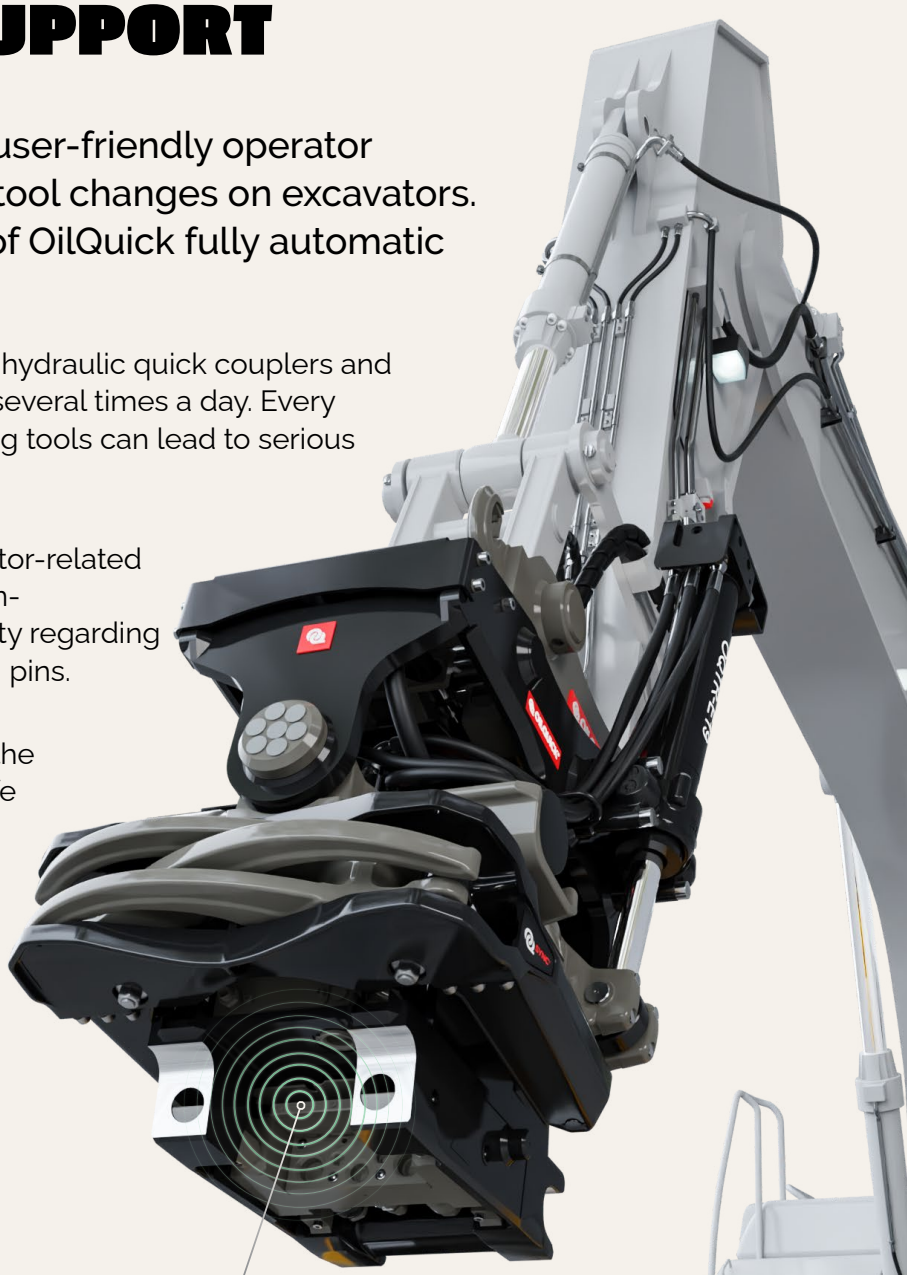
BENEFITS OF OQLS

» Controlled and guided coupling process – guides the operator via the control panel.

» Sensor monitoring of the rear tool shaft and locking pin.

» Logging of all events, including the 32 most recent in chronological order.

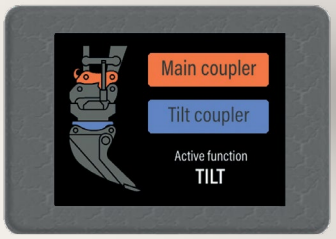
» Automatic activation of the machine hydraulics.

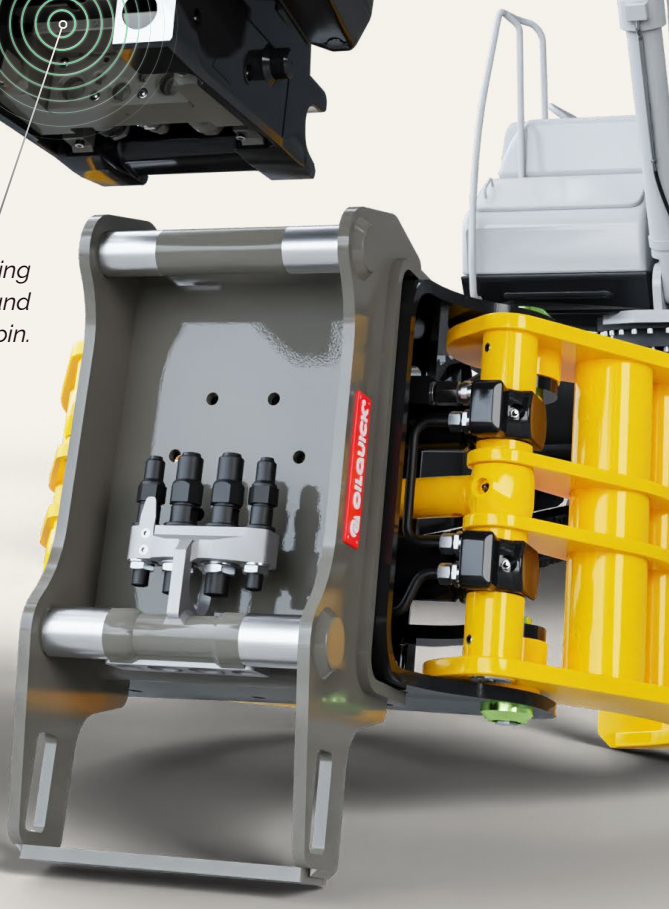


Sensor for detecting the rear axle and locking pin.



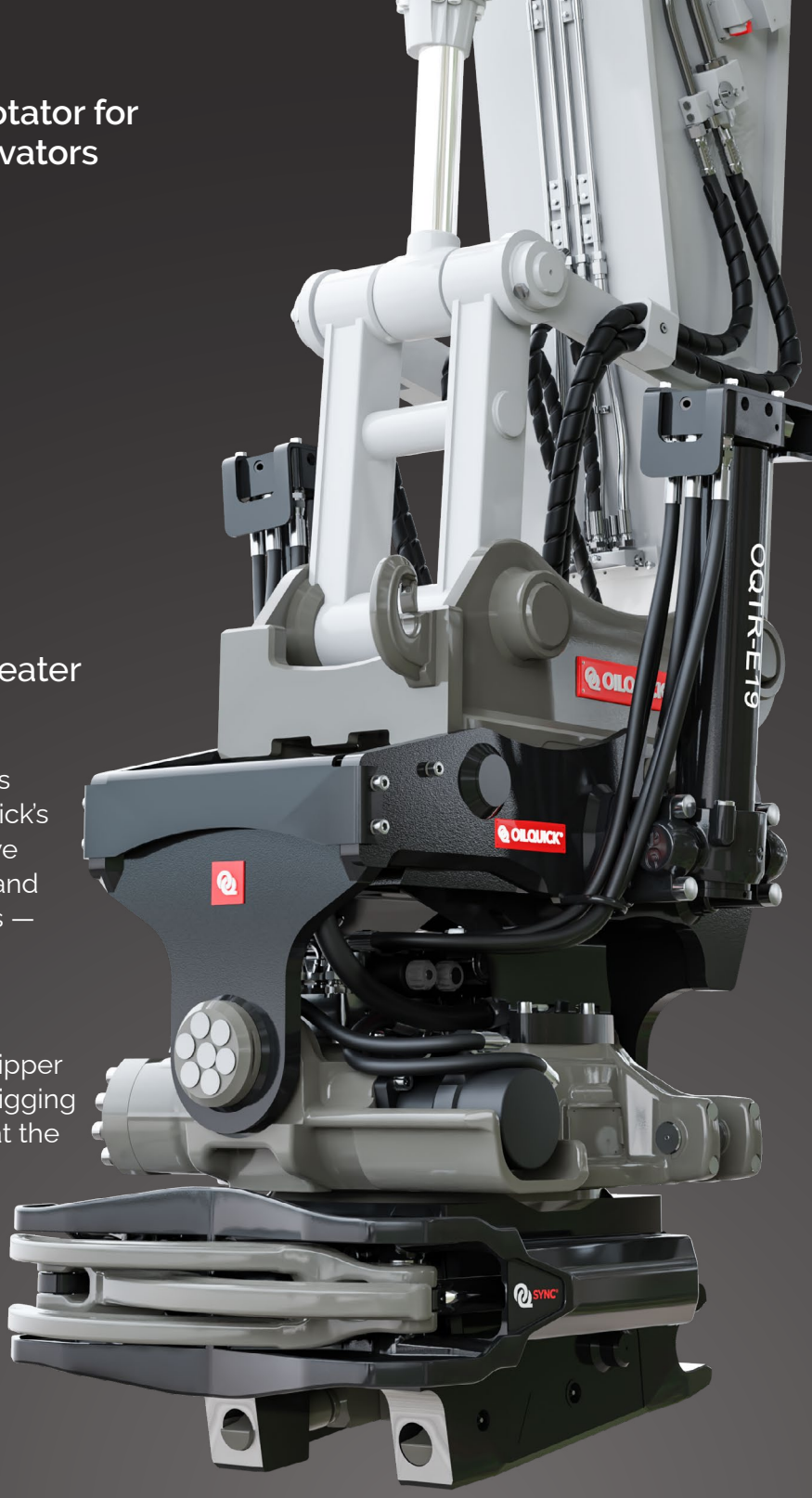
OQLS is operated via the included display. Our tiltrotators are supplied with a touchscreen display as standard.





OQTR

Tiltrotator for excavators



A FLEXIBLE HYDRAULIC WRIST

Our tiltrotator gives the excavator greater flexibility and precision.

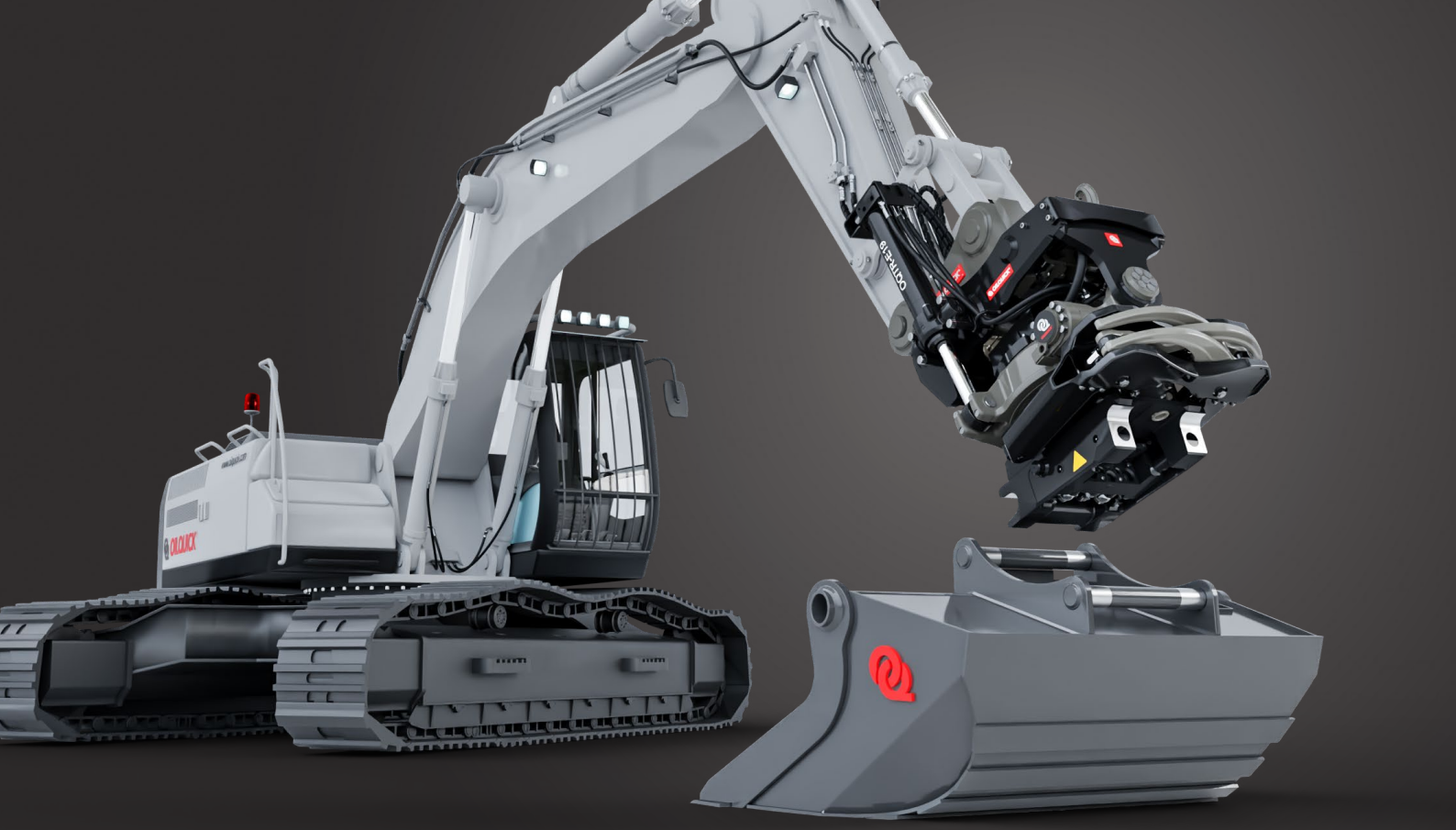
OilQuick Tiltrotators are available for excavators between 5 and 33 tonnes. By integrating OilQuick's automatic quick coupler technology both above and below the tiltrotator, it can not only rotate and tilt, but also connect hydraulic tools in seconds — directly from the operator cab.

The tiltrotator can quickly be disconnected for direct use of tools such as a standard bucket, ripper or hydraulic breaker. This provides maximum digging capacity and breakout force while ensuring that the right tool is used for every task.

Using a tiltrotator increases the machine's lifting work and therefore fuel consumption. By using the tiltrotator only when needed, both operating economy and service life are optimized.

SUITABLE TOOL HOLDER

	OQTR-E09	OQTR-E14	OQTR-E19	OQTR-E26	OQTR-E33
OQ45-5	✓	✓			
OQ60-5		✓	✓		
OQ 65			✓	✓	
OQ Rail			✓		
OQ70				✓	✓
OQ 70/55				✓	✓
OQ80					✓



CONTROL SYSTEM

DC2

The DC2 proportional steering system is suitable for all excavators and can be fitted with wheel or track steering as well as boom swing, all controlled via the machine's joysticks. Operator profiles and speed are adjusted wirelessly via a smartphone.

MIG-2

The ergonomic MIG2 joysticks are optimised for demanding use. When used in conjunction with the DC2, they can handle up to six scroll wheels and 14 buttons distributed across two handles.

ePS

All OQTR-E models come as standard with ePS, which, in conjunction with the machine's excavation system, provides maximum control over the tool's position.

ELECTRICAL SYSTEM

	OQTR-E09	OQTR-E14	OQTR-E19	OQTR-E26	OQTR-E33
DC2	✓	✓	✓	✓	✓
DC2 wheel steering	Option	Option	Option	Option	Option
DC2 track control	Option	Option	Option	Option	Option
OQCS-4	✓	✓	✓	✓	✓

Machinery requirements	DC2	OQLS CS-4E
A single-acting hydraulic circuit	✓	
Two double-acting hydraulic circuits		✓

TECHNICAL DATA

	OQTR-E09	OQTR-E14	OQTR-E19	OQTR-E26	OQTR-E33
Min/max machine weight	6,000–9,000 kg	9,000–14,000 kg	14,000–19,000 kg	19,000–26,000 kg	24,000–33,000 kg
Weight	From 460 kg	From 470 kg / 520 kg	From 600 kg	From 840 kg	From 1,040 kg / 1,200 kg
Max. breaking torque	74 kNm	126 kNm	186 kNm	270 kNm	340 kNm
Max. bucket width	1300 mm	1600 mm	1700 mm	2000 mm	2200 mm
Max. hydraulic pressure	22 MPa	22 MPa	22 MPa	22 MPa	25 MPa
Rec. hydraulic flow OQLS CS-2E/DC2	60 L/min	80 L/min	120 L/min	120 L/min	120 L/min
Rec. hydraulic flow for tilt/ rotation: OQLS CS-4E	35/40 L/min	35/50 L/min	65–70 L/min	70/70 L/min	70/70 L/min
Max. rec. pressure in the return pipe	2.5 MPa	2.5 MPa	2.5 MPa	2.5 MPa	2.5 MPa
Max. hydraulic flow for auxiliary functions	–	70/100 * L/min	100 L/min	100 L/min	100 L/min
Max. hydraulic flow (high flow, direct feed) * **	–	70/140 ** L/min	140 L/min	200 L/min	200 L/min
Swivel channel extra feature	4	4	4	4	4
Swivel channel locking mechanism	2	2	2	2	2
Rotation	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Tilt angle	2x45°	2x45°	2x45°	2x45°	2x45°
Tilt angle at hydraulic flow	3/40 s L/min	3/40 s L/min	3/65 s L/min	5/43 s L/min	5/63 s L/min
Rotation time per revolution at specified hydraulic flow	7/50 s/ L/min	7/50 s/ L/min	6.5/70 s/ L/min	7/70 s/ L/min	7/100 s/ L/min
Standard dimensions for additional outlets	3/8" 1/2"	1/2" 3/4"	3/4"	1"	1"
Lubrication points for single-point lubrication	3	5	5	5	5
Lubrication points on the OQ lubrication coupling	2 items, optional	4 items, optional	4 items, optional	4 items, optional	4 items, optional
Rotation sensor	Yes	Yes	Yes	Yes	Yes
Tilt cylinder, double-acting, including load-holding	Standard	Standard	Standard	Standard	Standard

* *70 L/min via 1/2" on OQ45-4, OQ45-5, S45. 100 L/min via 3/4" on OQ60-4, OQ60-5, S60.*

** *70 L/min via 1/2" on OQ45-4, OQ45-5, S45. 140 L/min via 3/4" on OQ60-4, OQ60-5, S60..*

*** *Requires 2 hydraulic circuits on the machine.*

GM

Gripping module with synchronised claws

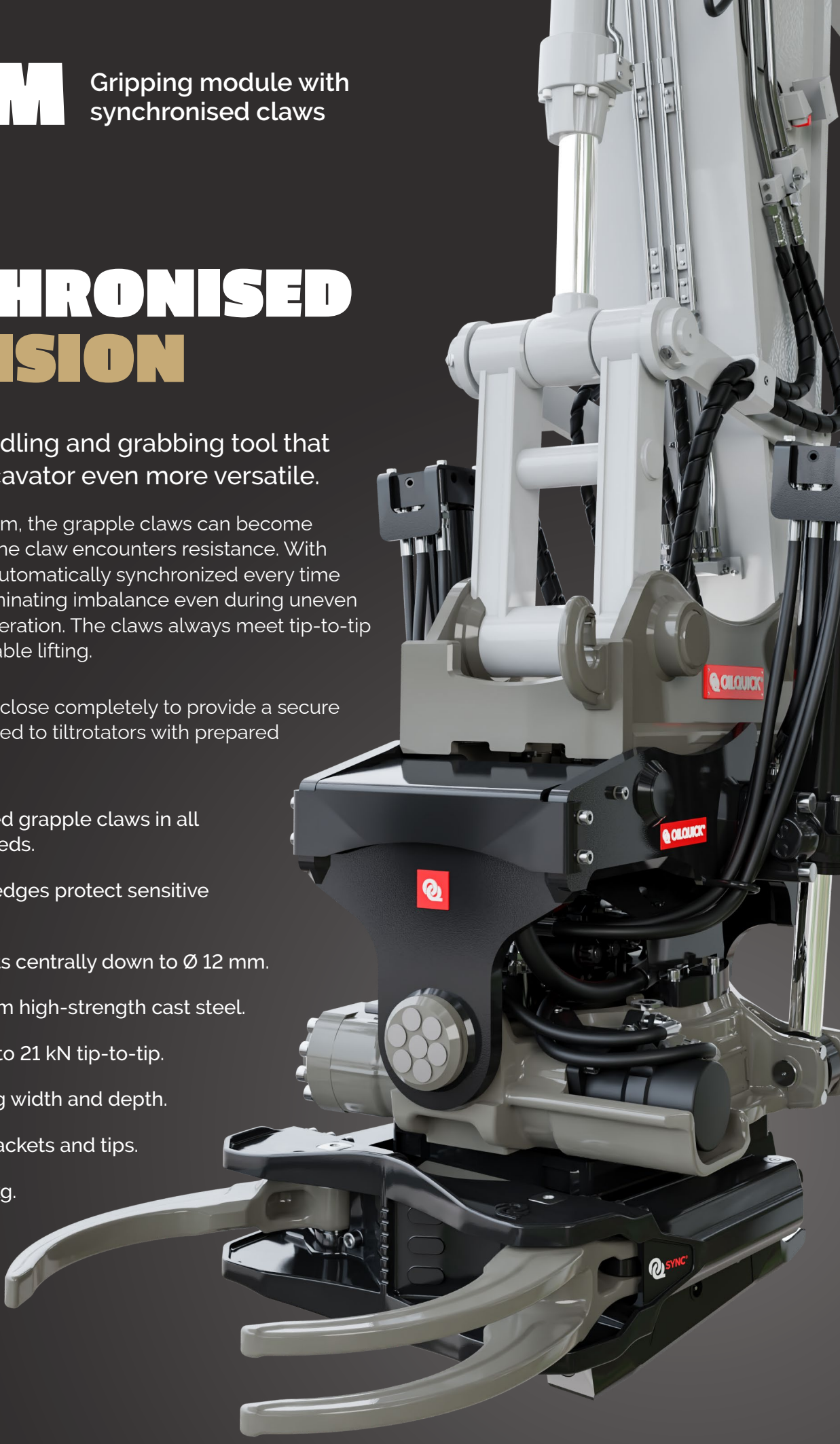
SYNCHRONISED PRECISION

An efficient handling and grabbing tool that makes your excavator even more versatile.

In a traditional system, the grapple claws can become unsynchronized if one claw encounters resistance. With OQ Sync, they are automatically synchronized every time they fully close, eliminating imbalance even during uneven loading or creep operation. The claws always meet tip-to-tip for centered and stable lifting.

The rounded claws close completely to provide a secure grip. Can be retrofitted to tiltrotators with prepared mounting.

- 100% synchronized grapple claws in all positions and speeds.
- Chamfered claw edges protect sensitive objects.
- Grips small objects centrally down to Ø 12 mm.
- Manufactured from high-strength cast steel.
- Grapple force up to 21 kN tip-to-tip.
- Extended gripping width and depth.
- Protected cast brackets and tips.
- Lifts up to 2000 kg.



TECHNICAL DATA

	GRD10	GR20*	GM820	GR20R2	GM870	GM970	GM1100
Reach	610 mm	820 mm	820 mm	820 mm	870 mm	970 mm	1100 mm
Width	270 mm	350 mm	407 mm	380 mm	385 mm	510 mm	510 mm
Length	720 mm	910 mm	737 mm	**	831 mm	882 mm	1022 mm
Min. grip Ø	–	–	11 mm	–	11 mm	12 mm	80 mm
Weight	109 kg	**	119 kg	**	125 kg	190 kg	200 kg
Grip force (tip-to-tip)	15 kN	22 kN	13 kN	17 kN	14 kN	20 kN	21 kN
Max. grip when open	–	–	7.1 kN	–	7.5 kN	11 kN	11 kN
Max. lifting capacity	1,500 kg	2,000 kg	2,000 kg	3,000 kg	2,000 kg	2,000 kg	2,000 kg
Max. hydraulic oil pressure	22 MPa	22 MPa	25 MPa	22 MPa	25 MPa	25 MPa	25 MPa

COMPATIBILITY MATRIX

Model	OQTR-E09	OQTR-E14	OQTR-E19	OQTR-E26	OQTR-E33
OQ45-4	GRD10	GRD10, GR20 *	–	–	–
OQ45-5	GRD10	GRD10, GR20 *	–	–	–
OQ60-4	–	GM820	GM820, GR20R2	–	–
OQ60-5	–	GM820	GM820, GR20R2	–	–
OQRAIL	–	–	GM870, GR20R2	–	–
OQ65	–	GM870	GM870, GR20R2	–	–
OQ70	–	–	–	GM870, GM970	GM970
OQ70/55	–	–	GM1100	GM1100	GM1100
OQ80	–	–	–	–	GM1100

* *Integrated Grapple* ** *Depending on the quick coupler*



GRAB JOHN

Pole planting bucket with retractable claws



THE BUCKET WITH AN EXTRA THUMB GRIP!

Modern excavators offer digging force, lifting force, breakout force and mobility. However, they lack one essential feature — gripping force.

The Grab John bucket is equipped with an integrated thumb grip that is always available. In the folded position, it does not affect normal digging operations.

The high gripping force makes it possible to grip, lift, position and handle heavy and difficult objects directly from the operator cab. This increases safety by eliminating the need for manual handling with straps and chains.

The Grab John method for mechanized pole installation is a modern and efficient way to build overhead power lines. All handling of tools and poles is performed hydraulically from the cab, increasing productivity by 15–50% compared to conventional methods.

Grab John pole-setting buckets are available in several versions. GJ 1A is designed for telephone poles and smaller power distribution poles. GJ 15 is larger and more powerful, with approximately 65% higher capacity than GJ 1A, making it suitable for pre-rigged utility poles. GJ 5 is intended for larger excavators and installation of high-voltage poles up to 22 meters.

SAFER LIFTING

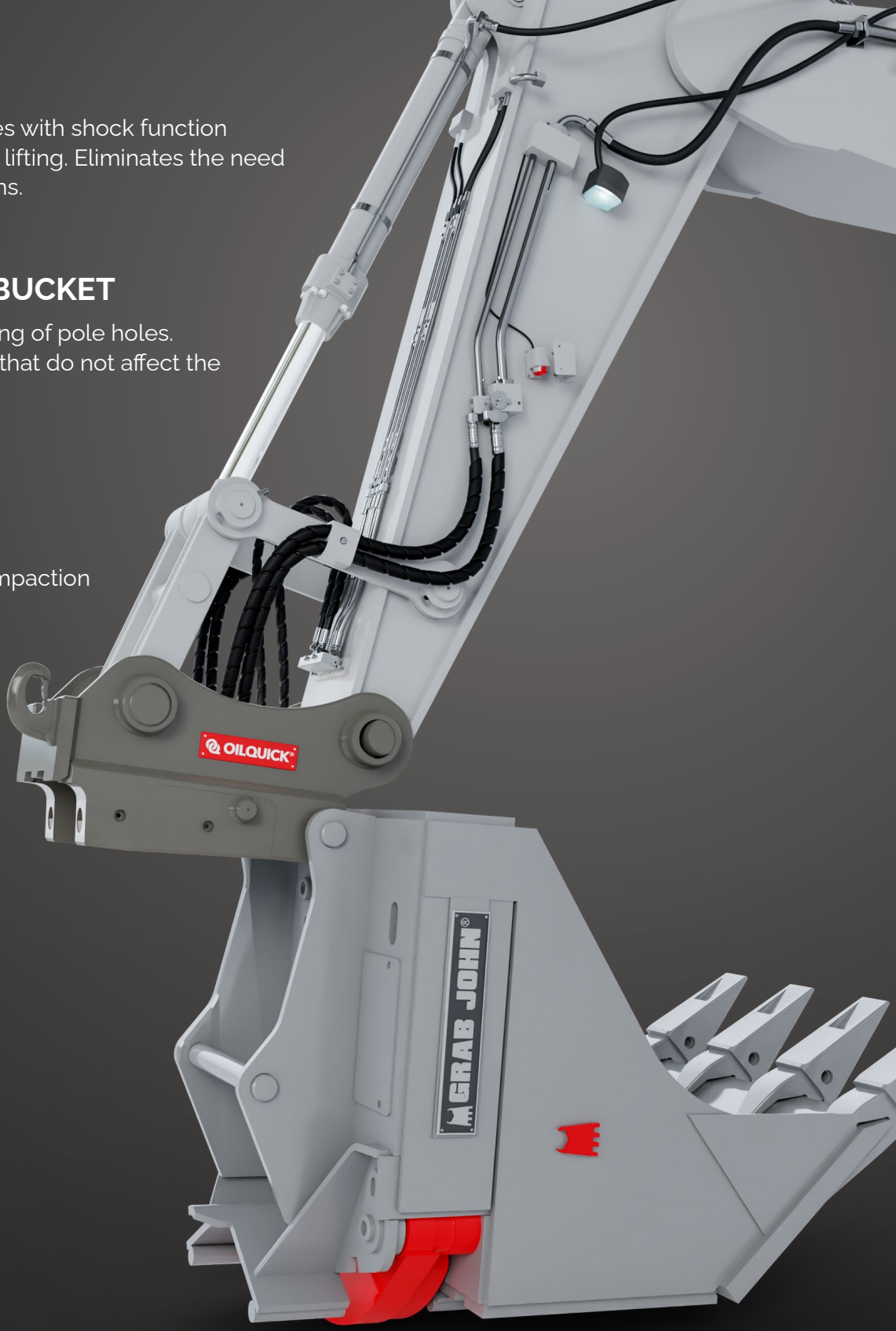
Integrated hose burst valves with shock function ensure safe and controlled lifting. Eliminates the need for manual straps and chains.

ROBUST DIGGING BUCKET

Designed for efficient digging of pole holes. Retractable grapple claws that do not affect the digging function.

IMPROVED POLE INSTALLATION

Efficient backfilling and compaction provide more stable pole foundations.



TECHNICAL DATA

	Bucket width	Volume	Max. opening	Machine weight class	Bucket weight
GJ 1A	620 mm	70 L	370 mm	8-10 t	300 kg
GJ 1B	620 mm	70 L	370 mm	3-5 t	250 kg
GJ 15	670 mm	150 L	440 mm	12-15 t	385 kg
GJ 5	800 mm	270 L	600 mm	10-25 t	680 kg



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