

FUNCTIONS FOR A MORE EFFICIENT EXCAVATOR



EFFICIENCY, SAFETY, CHOICE

Quantum is the collective name of a control system and a number of products for your excavator that improve the efficiency and ergonomics of the machine. We have integrated greater operational safety into Quantum through our remote support solution. Smart and digital installation guides give correct and safe installations. You choose which Quantum products and functions your machine should be equipped with. We make sure that you get the best solutions for your needs and budget. The system can easily be expanded over time and is not brand dependent, which means that it can be installed on all makes of excavator as well as control most makes of tiltrotator and tool.



IoT

QUANTUM

AUX

SVAB Excavator

Edit



- Attached Tool Bucket, Tiltrotator E
- Notifications
- Service
- Quantum Update
- Support

LAST SEEN





JOYSTICK CONTROL - TILTROTATOR



- Ergonomic joysticks with effective simultaneous control of all the tiltrotator's functions
- Auto calibration of hydraulic valves for optimal steering feedback and minimal fuel consumption
- Compatibility with machine control systems provides features such as Auto-Tilt and full position feedback of the tiltrotator in the machine control system display

JOYSTICK CONTROL AUXILIARY FUNCTION

AUX

- Control many functions with the joysticks for increased efficiency (such as dozer blade control)
- Helps the operator keep focus on the work

QUANTUM

AUTOMATIC DIGGING BRAKE



- Reduce the risk of repetitive strain injuries
- Improved operator environment and ergonomics
- Removes unnecessary work steps and provides a better work flow



TOOL RECOGNITION



- Automatic tool change in excavator control systems
- Automatic switching of the tiltrotator settings depending on which tool is attached to the tiltrotator
- Keep track of the tool's geographic position and operating hours



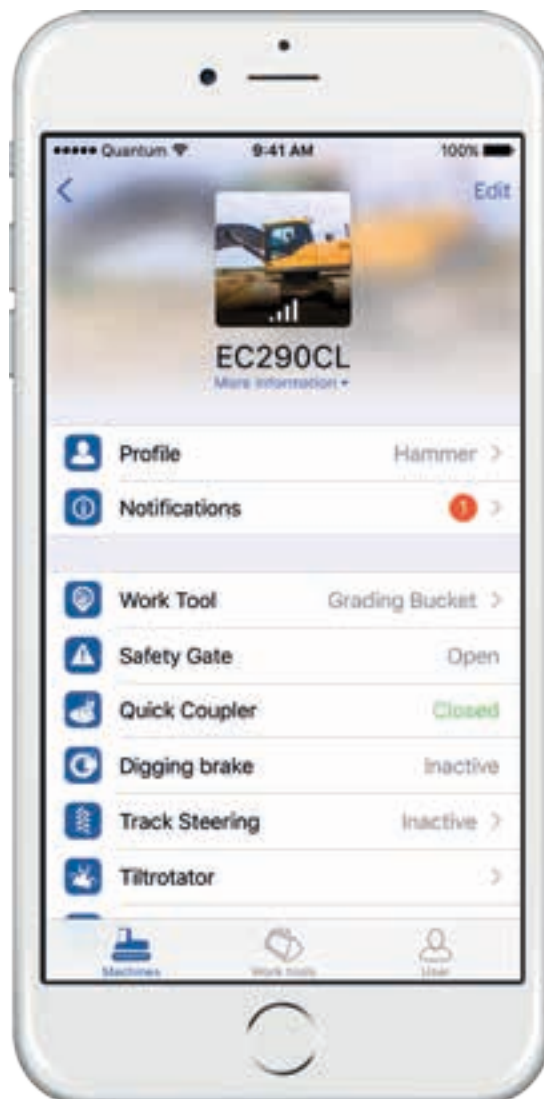
JOYSTICK CONTROL - WHEEL/TRACK



- Provides a better work flow and improves steering precision
- Reduce the risk of repetitive strain injuries

Basic functionality of Quantum

Regardless of which package you purchase from the Quantum platform, a basic level of functionality is always included. If, for example, you have tiltrotator control installed, the electronics for your machine are included along with an app for your cellphone that gives you access to remote support, manuals, control system status, settings and updates as well as location (map function) of your machine via the app.





SVAB Quantum App

The Quantum app is downloaded via the iPhone App Store or Android Play store. The app and your telephone are now the wireless link between your machine, your tool (with Tool Recognition), the Internet and our expert support. Settings for your installed products are made via simple menus. Of course, we have ensured that only authorized personnel will have access to your machine!



Remote support

If you should need help with adjusting settings or gaining access to the latest software you can simply use Quantum's remote support function. After talking with your local retailers/service technicians or to us at SVAB we connect to your machine via the app in your cellphone and give you the support that you need.



Installation guide

The workshop technician connects to your machine during the installation phase and gets access to machine specific step-by-step guides and a verification test that ensures that your machine is correctly installed. A very neat tool for gathering information for CE marking.



Locating the excavator

Maybe you own a number of excavators and want to know exactly where they are. Via the app you can see the position of the machines on a map. To locate your tools see the section about Tool Recognition.



Quantum – Tiltrotator control

We are market leaders in the control of tiltrotators and over the years we have supplied more than 50,000 systems – Quantum is our most advanced control system yet. Ultimately, it's all about fingertip precision control of the excavator and in turn getting the machine and the control system to provide the necessary feedback. A control system that helps you get on with the job instead of getting in the way! Quantum is compatible with all major makes of tiltrotators.



Joystick control – Tiltrotator

The core of our system is tiltrotator control. Our ergonomic joysticks give smooth, flexible and simultaneous control of all functions, which professional machine operators demand. The joystick rollers give high precision control of all functions. Our market leading expansion and our quality solutions in combination with advanced remote support minimizes operating stoppages for your excavator.





Positioning system

Quantum is prepared for connection to the machine control system (GNSS), which gives even more time saving functions.

Position feedback

Thanks to Quantum's sensor technology in the tiltrotator, you can get full feedback of the bucket position via the machine control system's display by connecting the system to a machine control system. You see how the bucket rotates in the display in real time. We make sure that you always get the right information and can measure the depth from all the bucket edges.

Auto-Tilt

This function helps you to automatically control the tiltrotator and the bucket position based on the machine control system's 3D maps. This means simpler and more efficient excavating that minimizes the risk of moving masses unnecessarily, which costs money.



User friendly cellphone app

With Quantum we have moved the fixed installed display to an app on your smartphone and added lots of new features. No extra displays in the cab. You use the app, which is easy to download via iPhone App Store or Android Play Store at your convenience. Via the app you can connect to your machine and manage the profiles for different machine operators, tools or other types of job. The system is multilingual and has different levels for the machine operator and the service technician. The app has built in remote support and after talking with your local retailers/service technicians or to us at SVAB we connect to your machine via the app in your smartphone and give you the support that you need.

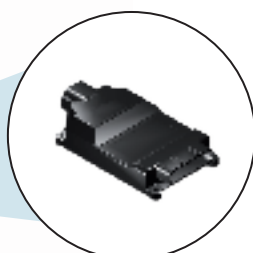


Auto calibration

We want the installation to be simple and easy to manage. This is extremely important in new markets or where the workshop lacks experience – therefore we developed auto calibration. Auto calibration maps the machine's and tiltrotator's hysteresis together and fine tunes for the best operator results and lowest fuel consumption.

Flexibility

Quantum is the most flexible control system for tiltrotators on the market and comes from the same technology family that has controlled tiltrotators since the turn of the century. Quantum works on all excavators and is compatible with all major makes of tiltrotator.

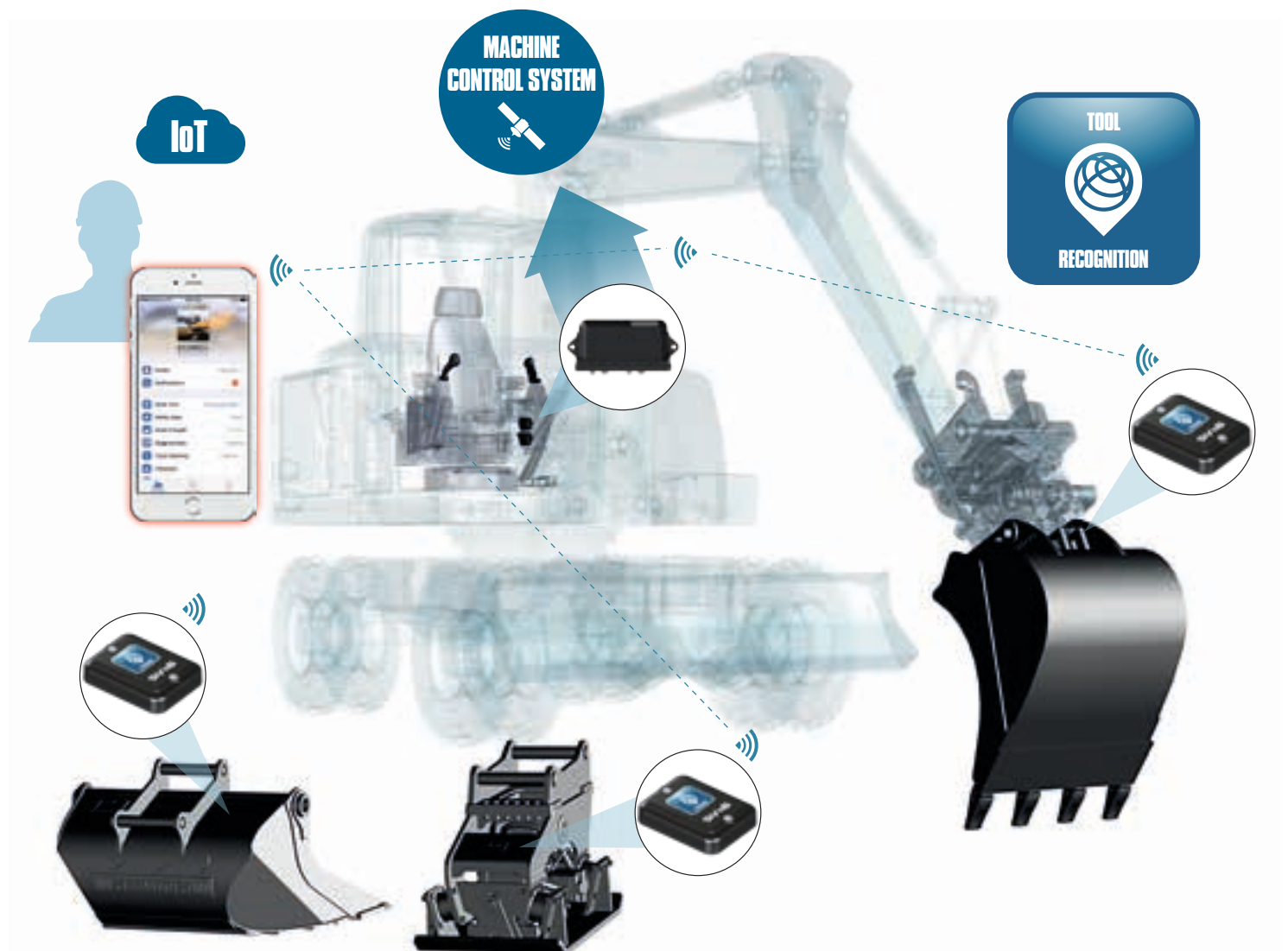


Quantum – Tool recognition

The basic idea behind Quantum Tool Recognition is a system that wirelessly detects and identifies a tool used on the machine. The information can then be used by one of our partner systems that you use in your daily work, such as the machine control system, weighing system, tiltrotator control etc. Tool Recognition is a freestanding product and works both with and without a tiltrotator, for all types of tool.

Correct data for your machine control system

The system automatically receives information about which tool is being used and can then set the correct parameters for that particular tool. This way you do not need to manually enter what tool is being used and you eliminate a potential source of error and expensive reworking at the same time as allowing faster tool changes.



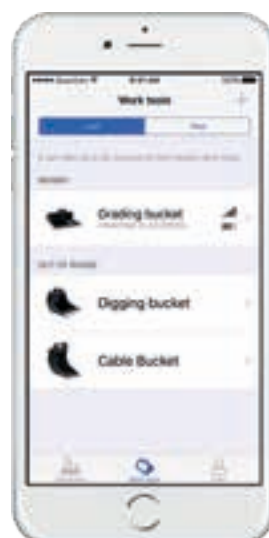
Keep track of your tools

With Tool Recognition you can keep track of your tools in the workplace. The system monitors both the physical location and the use. If you have regular service intervals for your tools, we can automatically notify you of when it is time for a service. A map view in the app allows you to see where your tools are located.



Easy to add new tools

Adding a new tool to Quantum Tool Recognition is very easy. Install the Tool Recognition module on the tool, open the Quantum app and press "New Tool", which comes up automatically. Give the tool a name and it is now available for the system.



Automatic settings

In those cases where Tool Recognition is used together with Quantum Tiltrotator control, the machine's hydraulic settings are adjusted automatically depending on what tool is attached to the machine. This saves time, optimizes tool precision as well as the machine's fuel consumption.

Just the start

Excellent value for money and with a three-pack of Tool Recognition modules you get a good starting base where more functionality can be added later. The battery lifetime is approximately five years.



Our L8 joystick is central to all our controls and is the world's most popular joystick for excavators with tiltrotators. L8 doesn't just give unbeatable comfort and ergonomics. The L8 gives you the option of having your rollers and buttons where you want them.





Quantum – Joystick control wheel/track

Joystick control wheel allows you to keep your hands on the levers and move the excavator while excavating. Comfortable, simple and efficient for those many small machine movements during the day. No wonder this has become a must in advanced markets. You steer the wheels with a roller on the joystick and control the speed with your foot. Those who already use the product speak of a smoother and improved work flow. Joystick control wheel meets all the regulatory requirements for alternative control in all markets.

Joystick control track further increases the productivity of tracked excavators. You do not need to move your hands between different controls and steering is via the rollers in the ergonomic levers, which saves time and improves the ergonomics. The left hand turns the excavator while the right roller drives forwards or backwards.



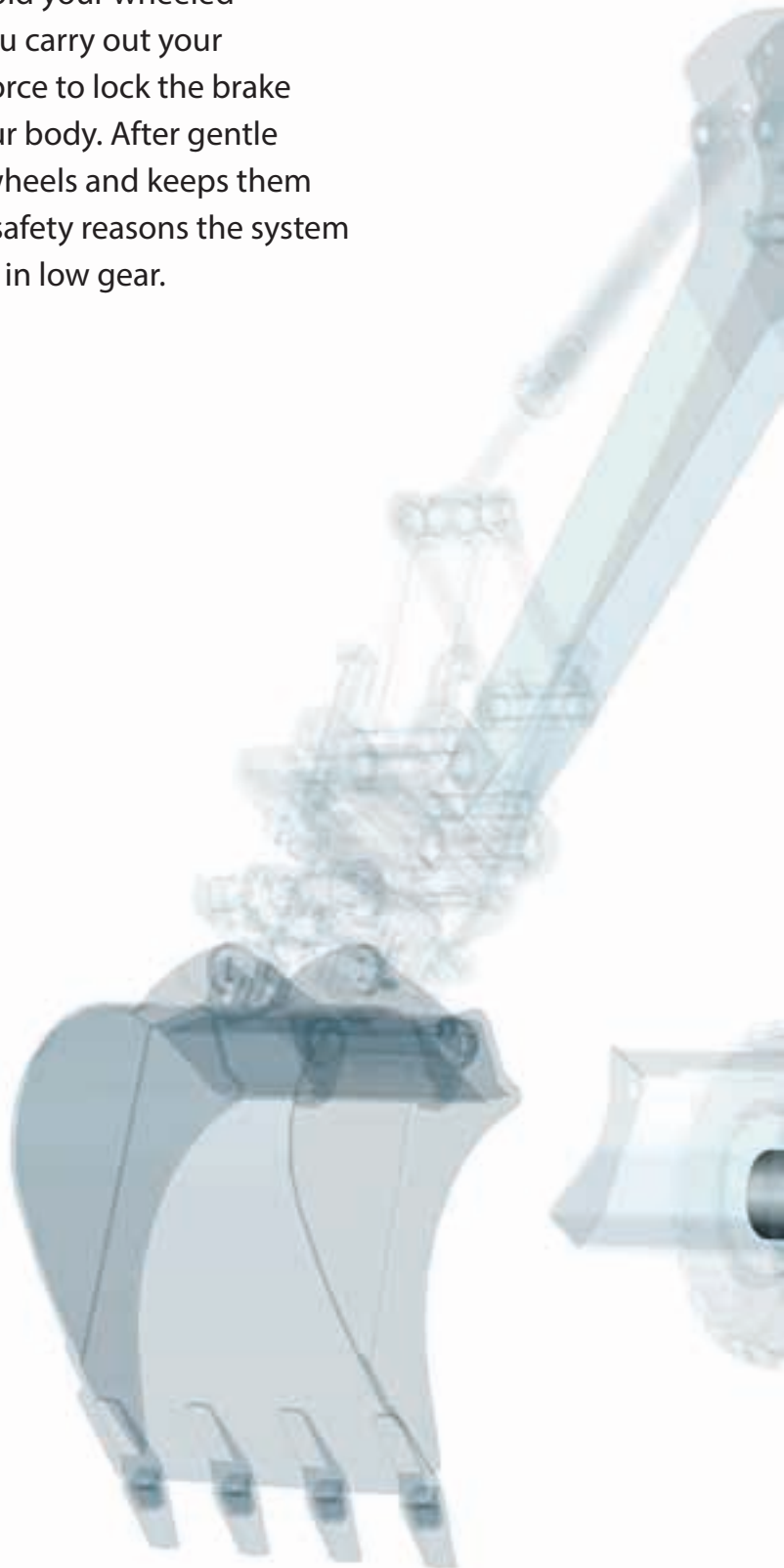


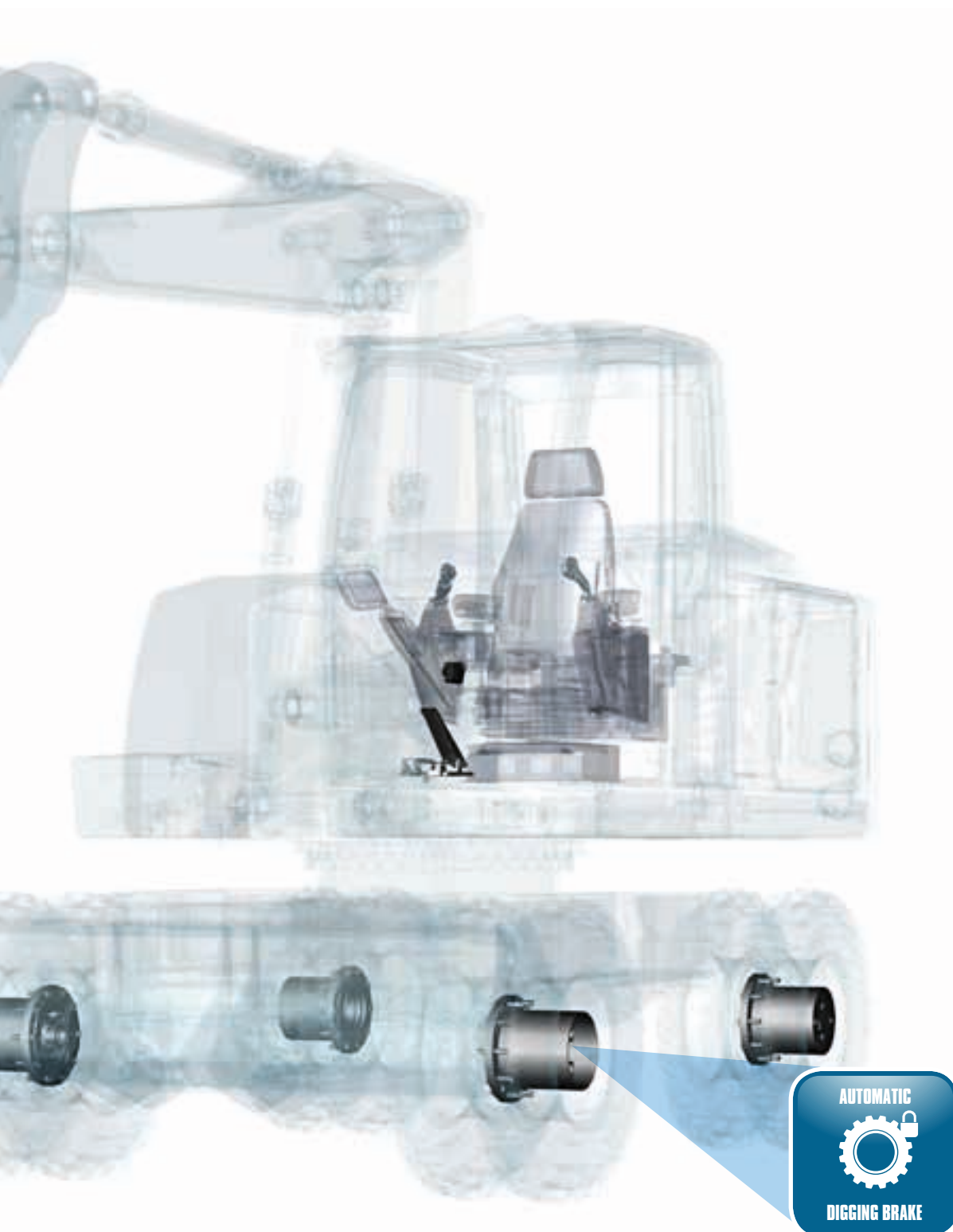
Joystick control wheel/track

- Provides a better work flow and improves steering precision
- Reduce the risk of repetitive strain injuries

Quantum – Automatic digging brake

This system helps you to automatically hold your wheeled excavator completely stationary when you carry out your excavating work. You don't need to use force to lock the brake pedal, which saves time and strain on your body. After gentle braking, the system locks the excavator wheels and keeps them locked until you press the gas pedal. For safety reasons the system is only active when the machine is driven in low gear.



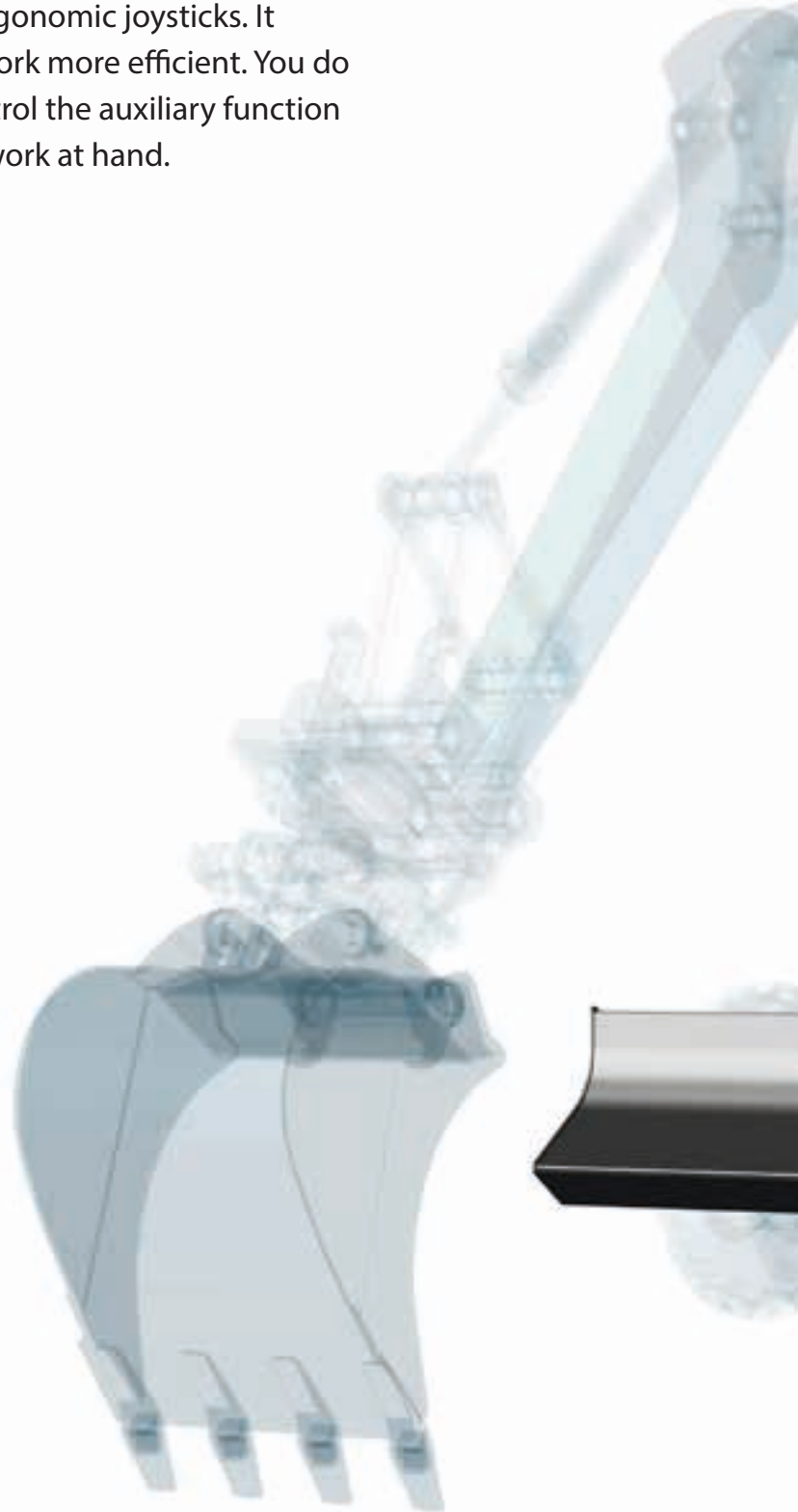


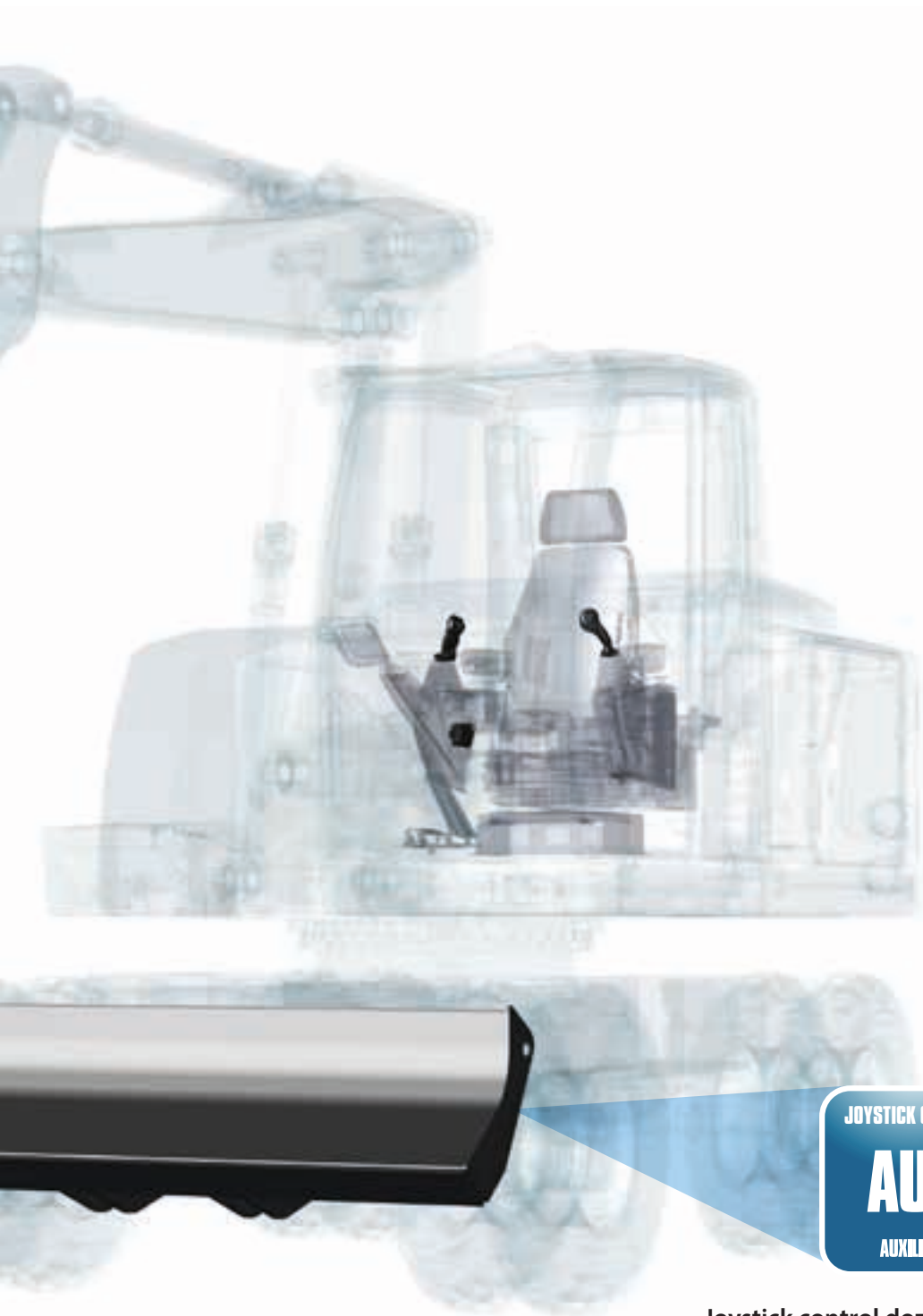
Automatic digging brake

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Quantum – Joystick control Auxiliary

Auxiliary functions, like dozer blade control, helps you to further improve your productivity. You control the machine's auxiliary function quickly and simply with our ergonomic joysticks. It provides better work flow and makes work more efficient. You do not need to release the joysticks to control the auxiliary function and can hereby maintain focus on the work at hand.





JOYSTICK CONTROL

AUX

AUXILIARY

Joystick control dozer blade

- Control many functions with the joysticks for increased efficiency (such as dozer blade control)
- Helps the operator keep focus on the work

