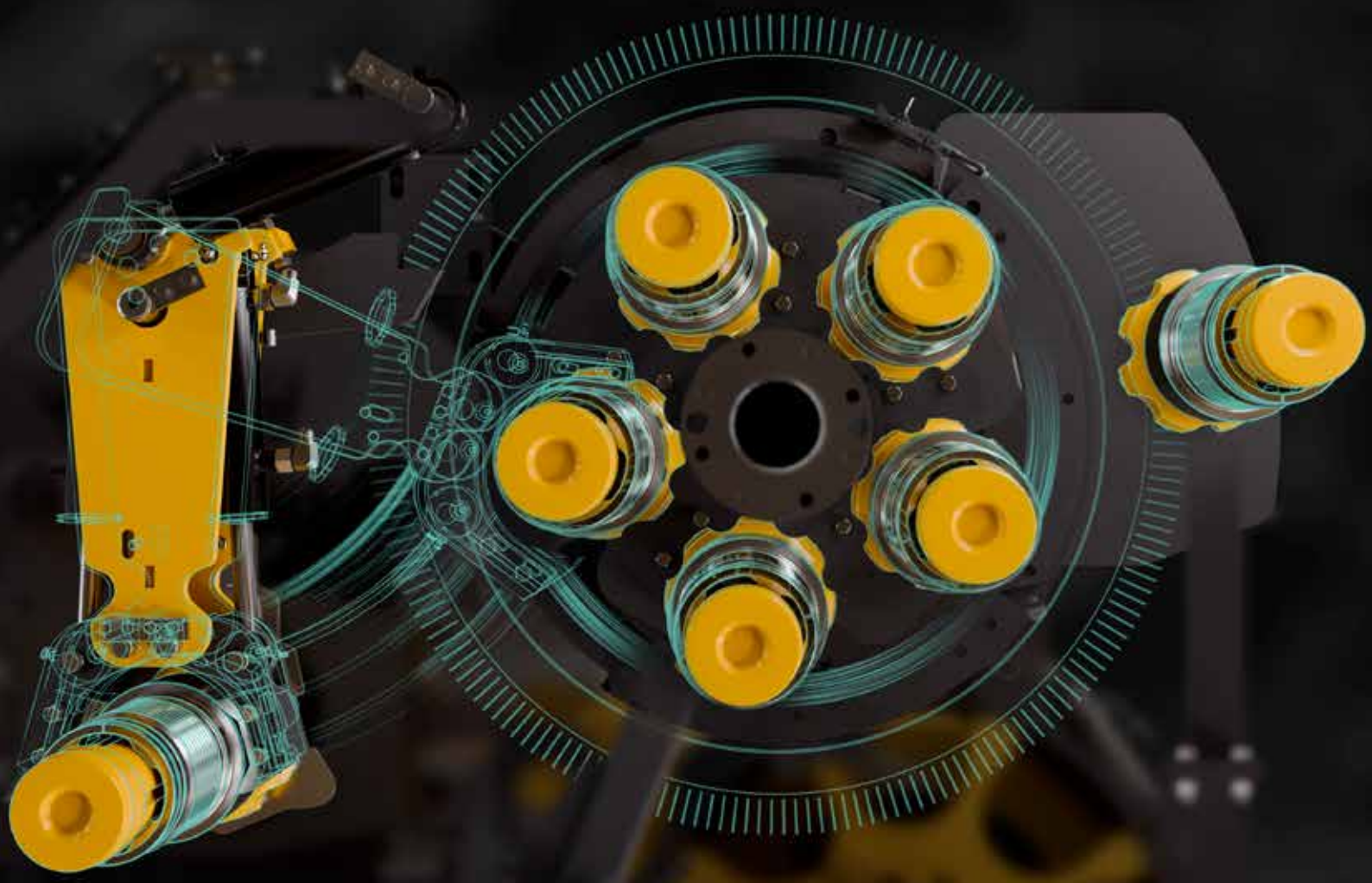
Automatic Bit Changer (ABC)

An automatic bit changer for the SmartROC D65 and SmartROC D60 surface drill rig

Epiroc



Designed to make every shift safer and easier.

The **Automatic Bit Changer (ABC)** from Epiroc is available as an option for both the SmartROC D65 and D60 surface drill rigs using the Epiroc COP M6 hammer. With the ABC you can match the speed of a manual bit change, but avoid all the heavy lifting whilst staying safe and comfortable in the cabin.

Manually changing DTH drill bits is a task which operators and technicians have to perform regularly whilst working with a drill rig. DTH bits are heavy — up to 28 kg in weight when using the Epiroc COP M6 hammer. The old bit needs removing and then the new bit needs to offered up and threaded onto the hammer. This is a tough job, performed regularly, often under stress in challenging conditions. The Automatic Bit Changer (ABC) for the SmartROC D65 and D60 can be pre-loaded with up to 5 drill bits. This reduces the number of times the operator has to leave the cabin to change the bit.

The ABC also allows remote operators working from a control room to change bits without having to call a technician on-site for assistance. The ABC helps to improve the working environment by reducing exposure to potential hazards. Additionally, this system assists in boosting the effectivity of an operation by enabling bit changes to occur exactly as planned during a whole shift. The operator does not need to wait for assistance or for a new bit to arrive on-site. They can change the bit as planned from the comfort of the cabin by first loosening the bit chuck and then starting the auto-sequence. Each bit in the carousel requires its own chuck and stop ring.

Main benefits

Boosts safety and productivity: With the ABC, the operator changes the bit without leaving the cabin. This contributes towards Live Work Elimination (LWE) and raises productivity by maximizing drilling time.

Reduces operator fatigue: DTH bits are heavy and difficult to handle. The ABC minimizes manual lifting, helping to reduce fatigue for operators and technicians.

Improves remote operation: The ABC enables operators working from a remote station to change the bit without assistance from on-site personnel. This helps to increase operational consistency whilst removing people from the worksite.





The ABC is designed with a bit loading-deck. Heavy bits are placed here prior to being slid into the carousel. This limits the amount of time that an operator or technician is forced to bear the full weight of each bit. Each bit in the ABC requires its own chuck prior to loading in the carousel.

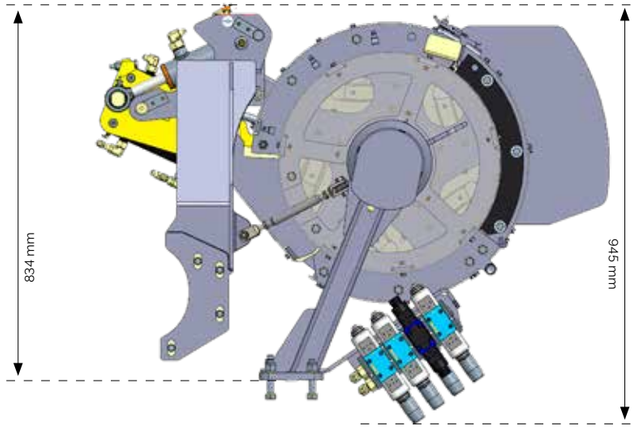


The controls for the ABC are fully integrated into the Rig Control System. This option requires minimal operator training and will start to pay for itself immediately in terms of increased safety, operator comfort and efficiency. Additionally, the consumables tracking feature monitors the use of each bit loaded into the ABC.

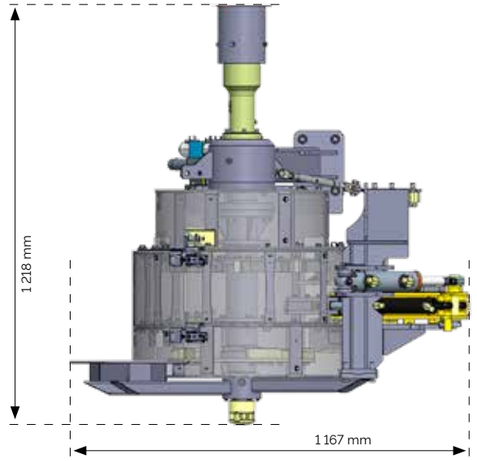


As with all SmartROC rigs. the high level of automation increases consistency and helps to prolong the life of valuable consumables. The ABC is no different. It threads and unthreads bits accurately every time and will help extend the operational life of both bits and hammers.

ABC specifications



Discover more about ABC for the SmartROC D65 and D60



ABC capacity

Drill bit size	ABC bit capacity
165 mm (6.5")	5
171 mm (6.74")	5
178 mm (7")	5
203 mm (8")	4

ABC field kit information*

Installation kit PN	DTH hammer series	Drill bit size
3222386050	COP M6	165 mm/171 mm/178 mm
3222386126	COP M6	203 mm
3222387053	Additional kit to update the rig with 'large' drill steel support if not presently fitted.	

Note: Bits not included in aftermarket field kits. Each bit must be fitted with a chuck and stop ring.
**** Please check rig requirements to confirm compatibility.***

ABC rebuild kits

	Suction hood PN	Magazine PN
From 165/171/178mm to 203mm	3222 3859 43	3222 3838 95
From 203mm to 165/171/178mm	3222 3859 42	3222 3838 94

ABC compatible DTH hammers

Epiroc COP M6

Weight	
ABC - no bits, with hydraulic valves	257 kg (567 lbs)

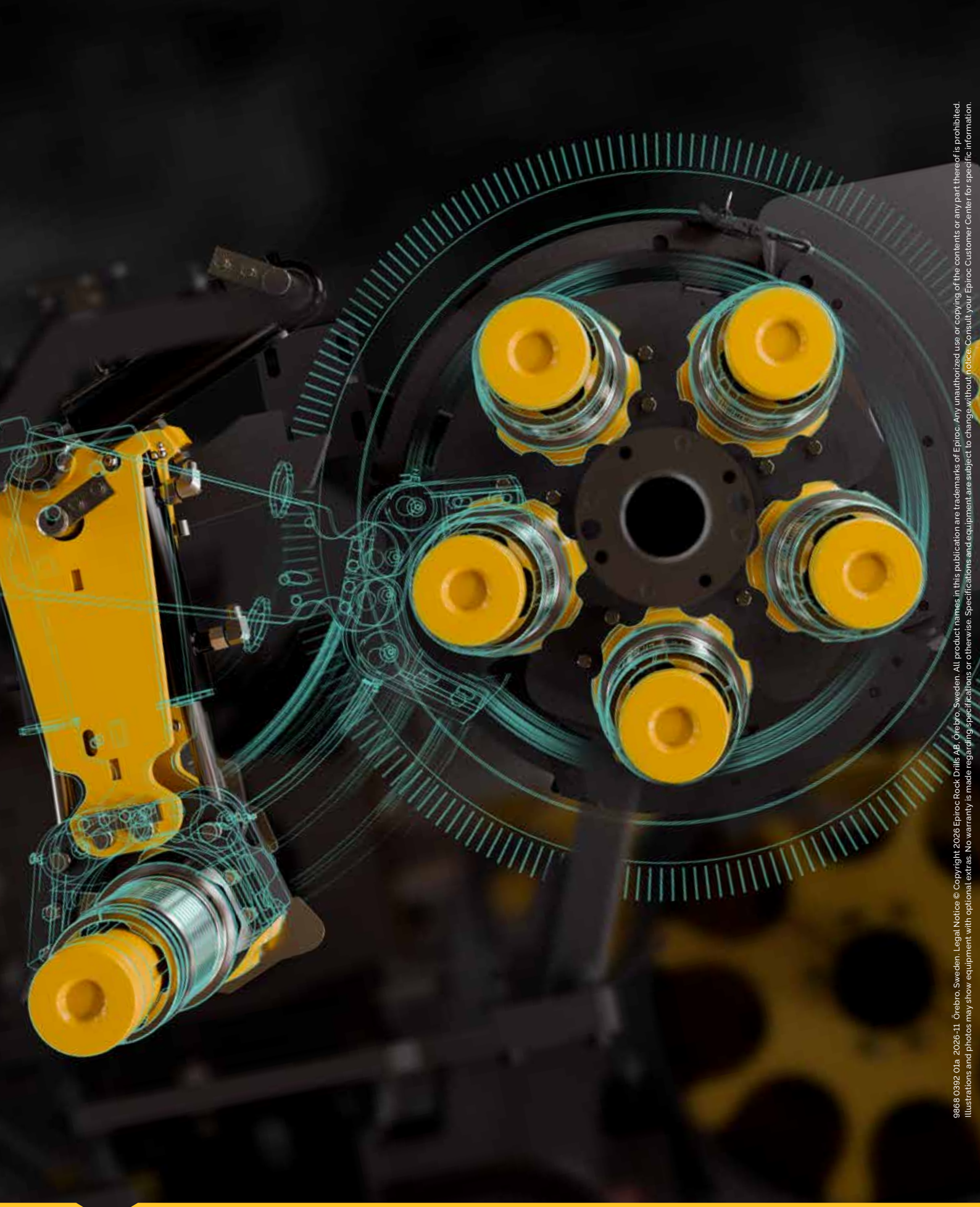
ABC retro-fit requirements

SmartROC D65 or D60 MKII with Epiroc COP M6 hammer.
ABC can only be combined with Rod Handling System 140 (RHS 140).
Rig must be running RCS software 6.31 or higher.
The breakout table and drill steel support must be designed for a 6" or 7" hammer (large drill steel support.)
It must be confirmed that the total final weight of the machine, including locally installed options, will not exceed 30 000 kg.

The ABC can be specified as an option on new orders or installed as a retro-fit kit. Please contact your nearest Epiroc representative for further information.

Additional important information

ABC cannot be ordered with, or retro-fitted to, rigs with Reverse Circulation (RC).
SmartROC D65 XLF with stage V engine may not be able to have ABC installed or retro-fitted in combination with selected options in order to keep the total weight under 30 000 kg. Extra checks must be made on the rig prior to ABC installation. Please contact Epiroc for the latest information.



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