

Hydraulic Operated Bit Basket System for DML and DM45/50

Improves safety while handling drill bits on deck

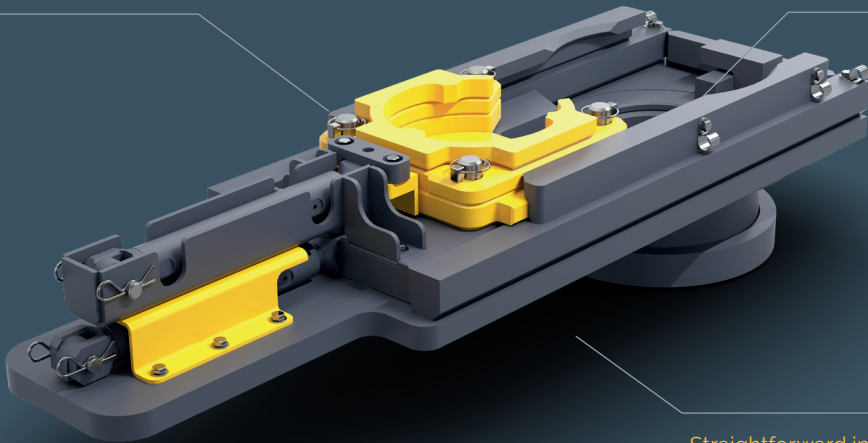


Hydraulic Operated Bit Basket System

Epiroc's solution to improve operator safety when handling drill bits on deck. The Hydraulic Operated Bit Basket System (HOBBS) for DML and DM45/50, removes the operator from being in the 'line of fire' risk when changing a drill bit on deck.

A field retrofit kit for changing the drill bit on the deck to enable safer operations.

Easy to maintain with fewer moving parts and subcomponents means greater reliability.



Straightforward installation, including a step-by-step procedure provided with the kit.

⊕ Main benefits

- Fully operational from the cabin.
- Operator does not have to manually install the bits on the deck.
- No 'line-of-fire' exposure for the operator or working under a suspended load - a rotary head when changing the bit.



Select correct sizes of roller deck bushing, breakout fork and bit basket according to your drill bit sizes.

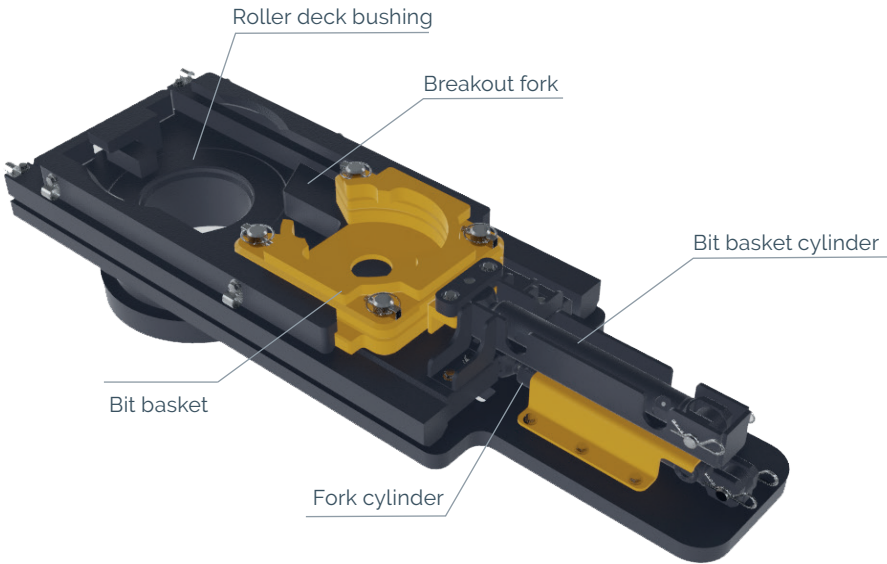


All required port connections of cylinder and valves will be referenced in the HOBBS installation manual.



HOBBS field retrofit kit comes with all the necessary subcomponents along with your chosen sizes of roller deck bushing, breakout fork and bit basket.

Technical specifications



Working principle
HOBBS uses a dual cylinder sliding base to move the detached bit, out from under the rotation head in one automated movement performed within the cabin.

Once the new bit is placed into the bit basket, HOBBS will slide it back in line for reattachment to the drill rod, ready to recommence the drilling function.

Fully compatible with the Safe Automated Bush Lifting (SABL) system, the deck bush is lifted clear allowing the breakout, detachment and safe presentation of the bit for replacement when using non Epiroc drill bit after operator intervention.

Part number	Description
2659 6221 14	HOBBS for DML and DM45/50 field retrofit kit
Breakout fork (select size)	
2659 6248 16	Breakout fork 3-9/16" FLAT (for 4-1/2" and 5" drill pipe with 3-1/2" FLAT)
2659 6248 15	Breakout fork 4-9/16" FLAT (for 5-1/2" and 6-1/4" drill pipe with 4-1/2" FLAT)
2659 6242 73	Breakout fork 5-1/16" FLAT (for 7" drill pipe with 5" FLAT)
2659 6286 22	Breakout fork 6-1/16" FLAT (for 7-5/8" drill pipe with 6" FLAT)
Bit baskets (select size)	
2659 6342 01	Tricone bit basket for 9-7/8"
2659 6251 69	Tricone bit basket 9.00"
2659 6251 70	Tricone bit basket 7-7/8"
2659 6251 71	Tricone bit basket 6-3/4"
2659 6251 72	Tricone bit basket 5-1/8"
Roller deck bushing (select size)	
2659 6221 74	Deck bushing, 7" drill pipe
2659 6221 75	Deck bushing, 6.25" drill pipe
2659 6221 76	Deck bushing, 5.5" drill pipe
2659 6221 77	Deck bushing, 5" drill pipe
2659 6221 78	Deck bushing, 4.5" drill pipe
Solid deck bushing	
2659 6343 73	Solid deck bushing 7-5/8" drill pipe

Remark

If rig is optioned with auto electric thread lube, it would need to be removed to install DML HOBBS.

If using an Epiroc bit and the HOBBS deck bushing, when the bit is pulled up through the deck, lifts the deck bushing and the bit is placed in the bit basket, the breakout wrench will clear over the deck bushing

- If the bit is not an Epiroc bit and the bit being used has a higher connection shoulder, it may not clear.
- There is a potential for reduced deck bushing life due to the HOBBS deck bushing being more shallow.

The solution for the issues listed above are the same.

- If the bit is taller and the deck bushing does not clear the breakout wrench, use a larger diameter bit sub/ crossover sub (i.e. SABL) to lift the deck bushing above the breakout wrench.
- If the deck bushing wear rate is not acceptable, use a full size standard deck bushing and use a larger diameter bit sub/ crossover sub to lift the deck bushing above the breakout wrench.

For drill bit sizes not specified in the standard offering, please contact your local Epiroc representative to request a tailored quotation.

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Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.

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