

# Black Bruin

Heavy-duty radial piston

## Harvester and grapple rotators







No POWER like it.





**No POWER like it.**



The Black Bruin radial piston rotator is the professional's choice for productive harvesting and load handling. The rotator's excellent performance is based on a durable piston-cam ring technology. The torque excels in even the most demanding situations and the rotator maintains a firm grip throughout machines service life. Thanks to the innovative structure, the torque-transmitting components are wear-proof, releasing no harmful particles into the hydraulic system.

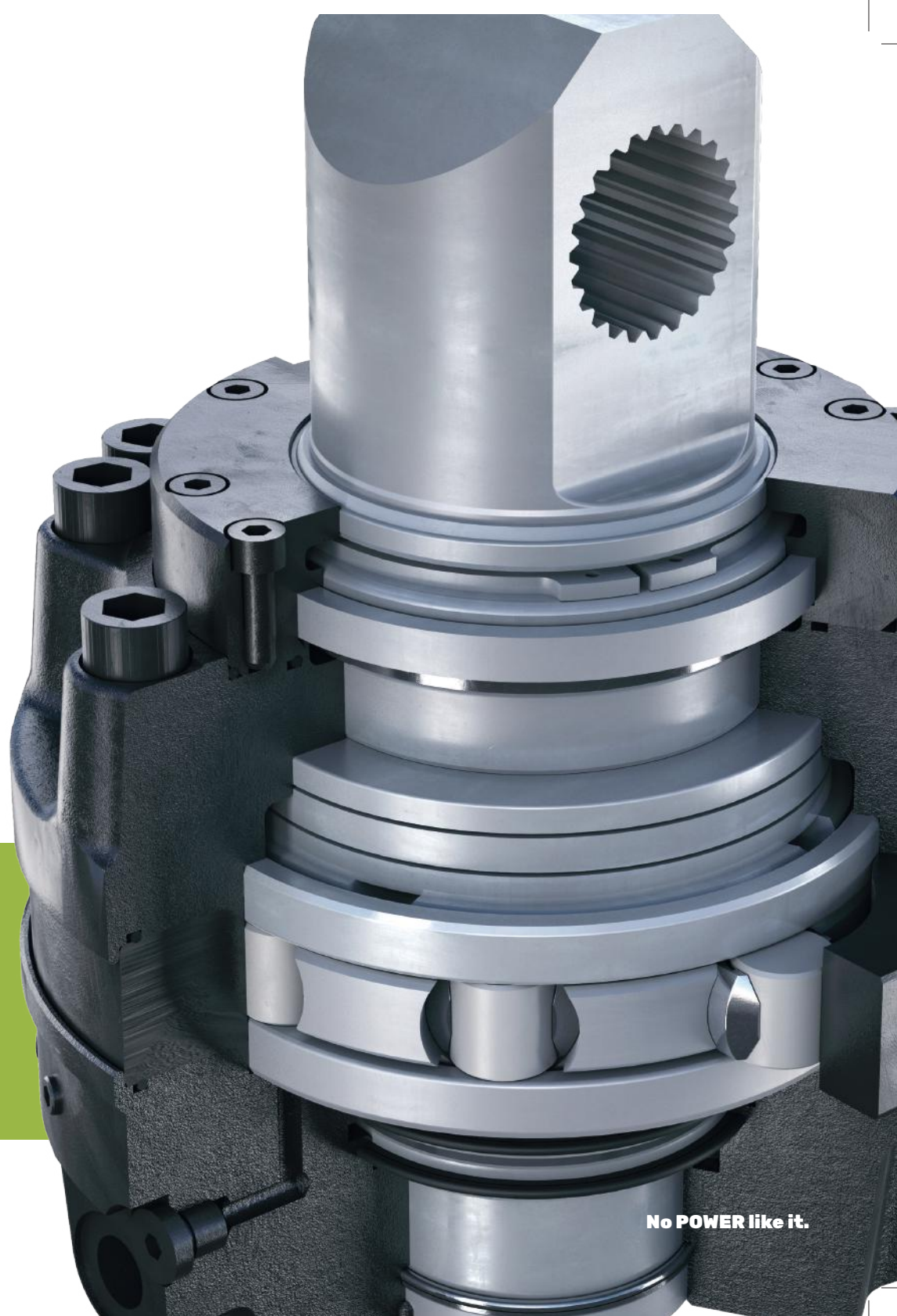
The Black Bruin rotator is extremely accurate in use and responds precisely and consistently to user's control. Drivers are known to highly appreciate the many advantages of the piston technology because control of the harvester head or grapple is natural and superior in all situations. And in contracting work that translates into high productivity and eco-friendliness!

Due to radial piston rotator's very high efficiency, they require just 20 l/min of oil flow to operate. Yet another factor improving the forest machine's total economy. The rotator's operating costs are low and it is easy to service if needed. This means that service life can be extended far into the future.

That sums up the Black Bruin motto: lower total cost of ownership for better value in the long run. And at the end of the day that's what really matters.

**Long service life**  
with torque that lasts.

**No POWER like it.**



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## **1 Compact and low-weight**

The rotator-swing damper combination puts minimal strain on the boom, and that improves the machine's overall economy.

## **2 All-weather sealing structure**

The double-layer sealing\* keeps impurities out of the rotator. This service-friendly structure also makes it easy to change the axle and dirt sealings if needed.

## **3 Excellent load capacity**

The rotator is designed for heavy-duty use due to a strong bearing design\*\* even the most demanding loads are no problem.

## **4 Case drain line**

All Black Bruin harvester rotators are equipped with case drain line to keep case pressures low. This significantly increases the service life of both bearings and seals and also improves oil circulation through the rotator's hydraulic circuit.

## **5 Rigid interface with the harvester head**

The proven rotating case design enables a solid interface between the harvester head and the rotator – no need to adjust or tighten.

## **6 Adjustable multi-disc brakes**

The multi-disc brakes with many friction surfaces enables smooth working by damping the harvester head or grapple swinging efficiently. The high grade TR links enable the use of up to 4 brake kits for strong and steady braking power in two directions. The wear-proof brakes hold their adjustment and are well-protected against external stress.



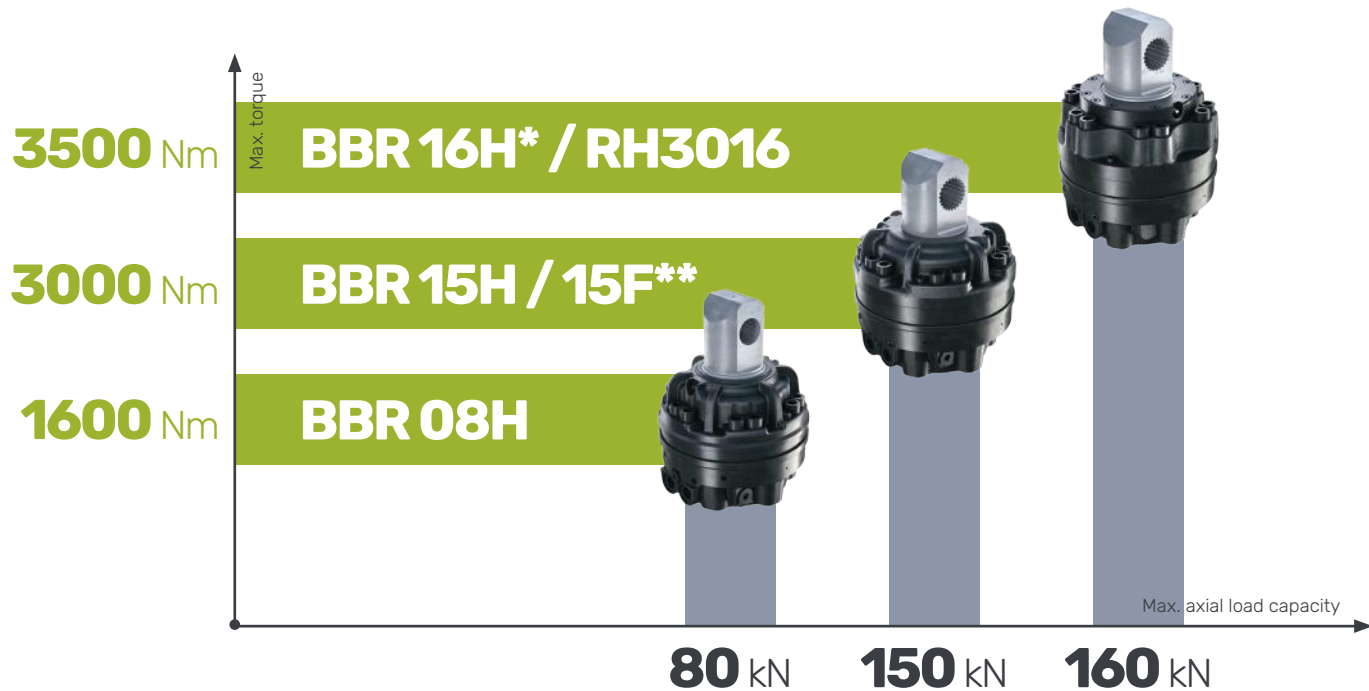
\* Only RH3016

\*\* BBR H: tapered roller bearings,  
RH3016: thrust and slide bearings

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# Rotators

Torque and load capacity



\*BBR 16H max. torque = 3000 Nm

\*\* BBR 15F = grapple rotator

**No POWER like it.**





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# Links / Brakes

\* only BBR 15F



## Updated link options

Length: 155 / 200 / 240 / 310 mm

**No POWER like it.**





**L:**  
400-550 Nm



**S:** 800-1100 Nm  
**2S:** 1600-2200 Nm



**X:**  
1300-1750 Nm

**No POWER like it.**

# Harvester rotators



w/o brakes



Lower brakes



Lower and upper brakes

**No POWER like it.**



# Grapple rotators

BBR 15F



Pin kit



Lower brake



Lower and  
upper brakes

**No POWER like it.**





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HYDRAULIC MOTOR  
PRODUCTION IN FINLAND