

More information and technical details:



Black Bruin hydraulic motors are a 65-year-old innovation. So you can justifiably say that they have maintained and endured – and that's what sustainability is all about. Whatever we do, we try to make customers and nature a top priority at the same time. With our handprint – the sustainable offering and innovations – we help our customers improve their environmental efficiency and productivity, and also reduce risks.

Black Bruin motors are fit to take on the challenges of today and tomorrow with curiosity and openness, offering peak performance and sustained power – torque that lasts.



**No POWER like it.**

rotating-shaft-motors-en-rev-a

**Black  
Bruin**

**Hydraulic direct drives**  
for recycling applications



# Black Bruin inside - Power on your side

Waste is not a game. The most powerful, flexible and reliable technology is needed to manage it and to add value to the processes of recycling and shredding and the materials they can ultimately produce. All heavy-duty industrial applications, including recycling, need high power and torque for continuous and long-lasting operation. The key design principles of Black Bruin direct drive motors meet these demands, featuring the robust piston design with high-power capability and serviceability as well as the bearing design to handle extreme axial and radial loads.

The piston design allows the motor to operate trouble-free in various hydraulic systems and with a wide range of oil viscosities and cleanliness levels, thereby minimizing the risk of damage. Additionally, with replaceable and affordable wear parts, maintenance intervals can be extended, consequently reducing overall operating costs.

Black Bruin is the only power source you need.

- 1

Rotating shaft direct drive design with high load carrying capability
- 2

Durable piston design for trouble-free operation also in low viscosity operations
- 3

Service friendly because of replaceable and affordable wear parts
- 4

Protected seals for use in harsh environmental conditions



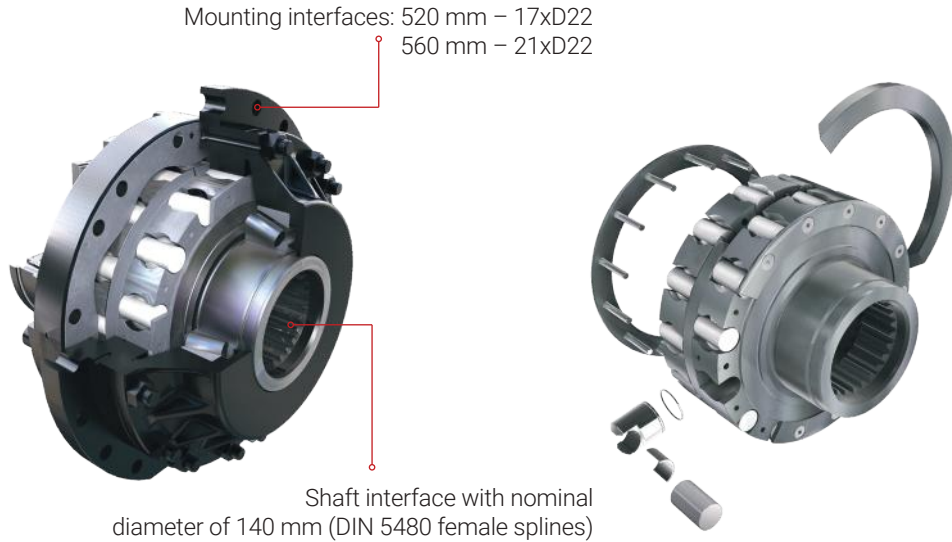
## Xseries

Our alternative. Your choice.

The X-series is engineered to enhance the performance of both new and existing machinery, especially in terms of durability, serviceability, and cost-effectiveness. Motor integrates seamlessly into industrial setups where compactness is a crucial factor, requiring few or no modifications or conversion costs.

The X-series is characterized by a patent-pending construction in which the robust piston design and flow-optimized hydraulic fluid channels are innovatively applied in a compact frame size. This results in a more efficient hydraulic motor due to improved hydraulic fluid distribution with less pressure losses. The motor features a bearing arrangement that fosters durability, ensuring smooth operation and an extended lifespan in various applications with different load characteristics.

|           |             |     |     |
|-----------|-------------|-----|-----|
| ccm       | Nm          | kW  | bar |
| 2512-8800 | 15200-56000 | 280 | 400 |

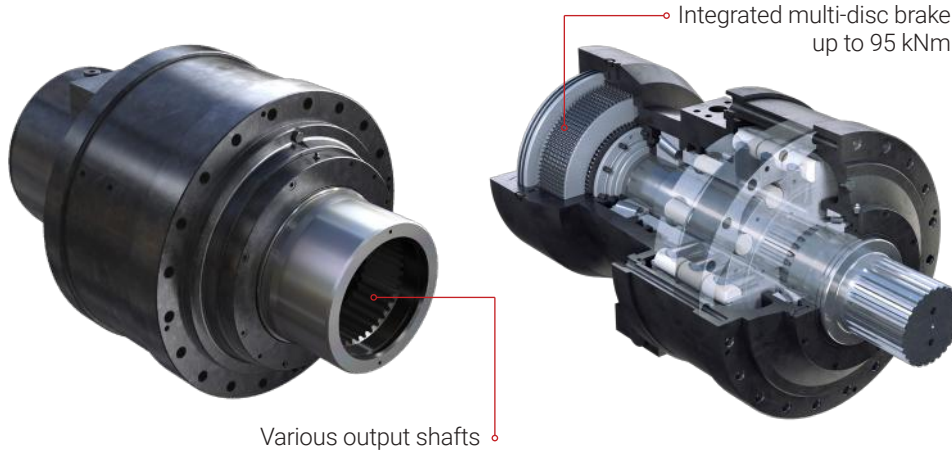


## S-series

The S-series hydraulic direct drives are our response to the various needs in recycling applications to produce continuous high power efficiently without gears. The S-series hydraulic motors are designed for demanding recycling applications with direction changes and shock loads, which can be hard on shredders and their rotors. The power of the S-series helps handle varied and inconsistent waste material effortlessly and clears jams with ease. The torque transmitting components are easy to service to ensure maximal uptime in your application.

Built with robust piston design, the S-series motors are meant for heavy-duty action. The S-series also features several output shafts with performance customized to a wide range of applications.

|            |        |     |     |                        |
|------------|--------|-----|-----|------------------------|
| ccm        | kNm    | kW  | bar | 1- or 2-speed function |
| 4400-22500 | 31-161 | 500 | 450 |                        |



## Accessories

|                 |                         |                    |              |               |
|-----------------|-------------------------|--------------------|--------------|---------------|
| Torque arm kits | Cross-port relief valve | Freewheeling valve | Shrink discs | Speed encoder |
|-----------------|-------------------------|--------------------|--------------|---------------|

