

**Black
Bruin**



60 Years Extensive Experience
in The Field of
Piston-cam Ring Motors

Built to last
With robust piston design



S Series

Industrial Hydraulic Motors



Get the job done
With high productivity



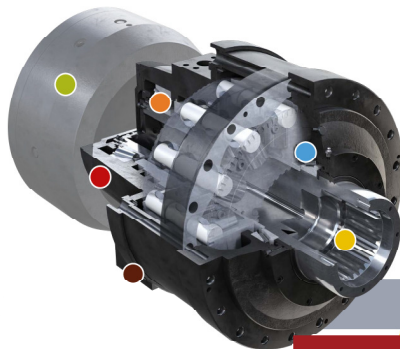
"The Black Bruin powered
drills outperform any of our
other drills we have in our
fleet, hands down!"

Joe Gruber, Goettle, Inc.



Features

- High load capacity
- Multi-speed function
- Speed sensor
- Modular design
- Well-sealed structure
- Strong brake



Reliable drives
For challenging conditions



Robust piston design with
improved serviceability

DEMANDING RECYCLING APPLICATIONS

- Robust Piston Design
- No Backlash
- Ideal for Direction Changes and Shock Loads
- Handles Inconsistent Waste Material Effortlessly
- Clears Jamming Situations with Ease

DRILLING INDUSTRY APPLICATIONS

- Rotates Massive Drills with High Performance and Durability
- 2-speed Function On-the-go Drill Speed Changes
- High Productivity in Varying Soil and Ground Conditions
- Available with Several Output Shafts
- Useful Through Hole Output Shafts
- Large Internal Diameter Allows High Flow Capacity Feed Through the Motor
- Strong Tapered Roller Bearings Handle Extreme Axial and Radial Loads

MARINE AND OFFSHORE APPLICATIONS

- Winch Drives with Powerful Brakes
- Motors Run at Constant Torque from Low to High Speeds
- Hydraulically Freewheeling
- Reliable Under Demanding Conditions and Environments
- Triple-sealing Design Protects the Motor from Dirt and Moisture
- Safe and Secure Loads Even in Emergency Situations

**Black
Bruin**
No power like it.



Various Output Shafts

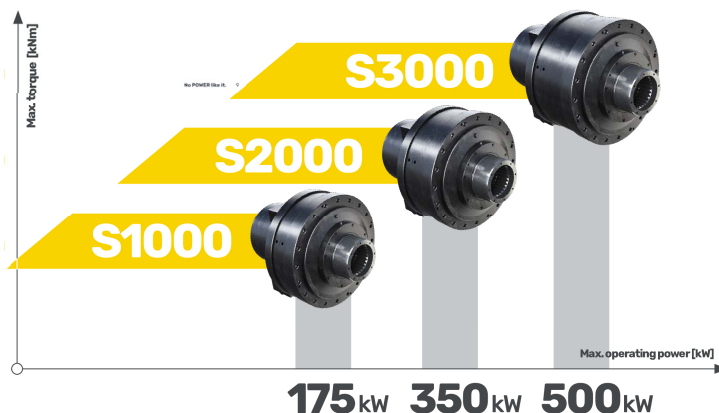
143 kNm

90 kNm

40 kNm

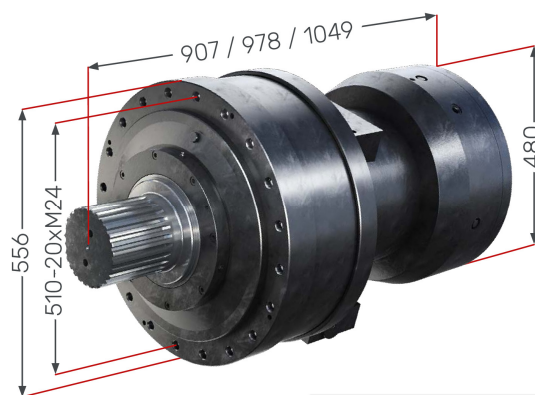
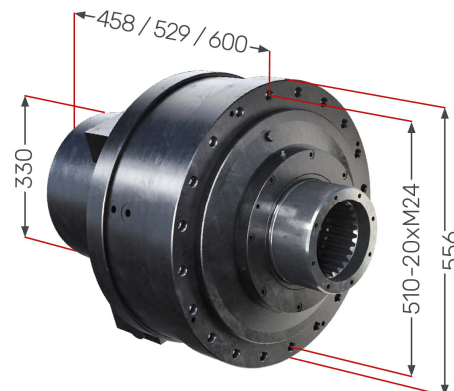
S Series

Industrial Hydraulic Motors



Black Bruin S Series Industrial Hydraulic Motors

Technical Data	S1000 S1100	S2000 S2100	S3000 S3100
Displacement (ccm)	4400/6300	8800/10000/12600/15000	14850/18900/22500
Max. operating power (kW)	175/175	350/350/350/260	500/500/390
Max. rotating speed (rpm)	180/180	130/110/90/75	75/60/50
Max. working pressure (bar)	450/450	450/450/450/400	450/450/400
Weight (kg) Without Brake	430-448	540-618	642-725
Weight (kg) With Brake	748-766	850-868	957-975
Brake Torque (Nm)	55000	95000	95000
Options			
1-speed	x	x	x
2-speed valve	x	x	x



Features

- **High load capacity**
Optimally placed tampered roller bearings give a high radial and axial load capacity.
- **Multi-speed function**
Superior productivity with shift-on-the-go 2-speed function.
- **Speed sensor**
All S Series motors can be equipped with a speed sensor with direction detection.
- **Modular design**
Flexibility in motor design and service. One frame with various shaft configurations.
- **Well-sealed structure**
The triple-sealing design protects the motor and ensures reliable operation in all environments.
- **Strong brake**
T spring-applied, hydraulic release wet multi-disc brake is capable of 95kNm braking torque.
- **Various output shafts**

1 External Splines – Through Shaft	W150/W180
2 Internal Splines – Through Shaft	N150
3 Internal Splines	N140/N150
4 Shrink Disc	Ø140/150
5 External Splines – Solid Shaft	W150/W180
6 External Splines – Solid Shaft, Motors with Brake	W150/W180

