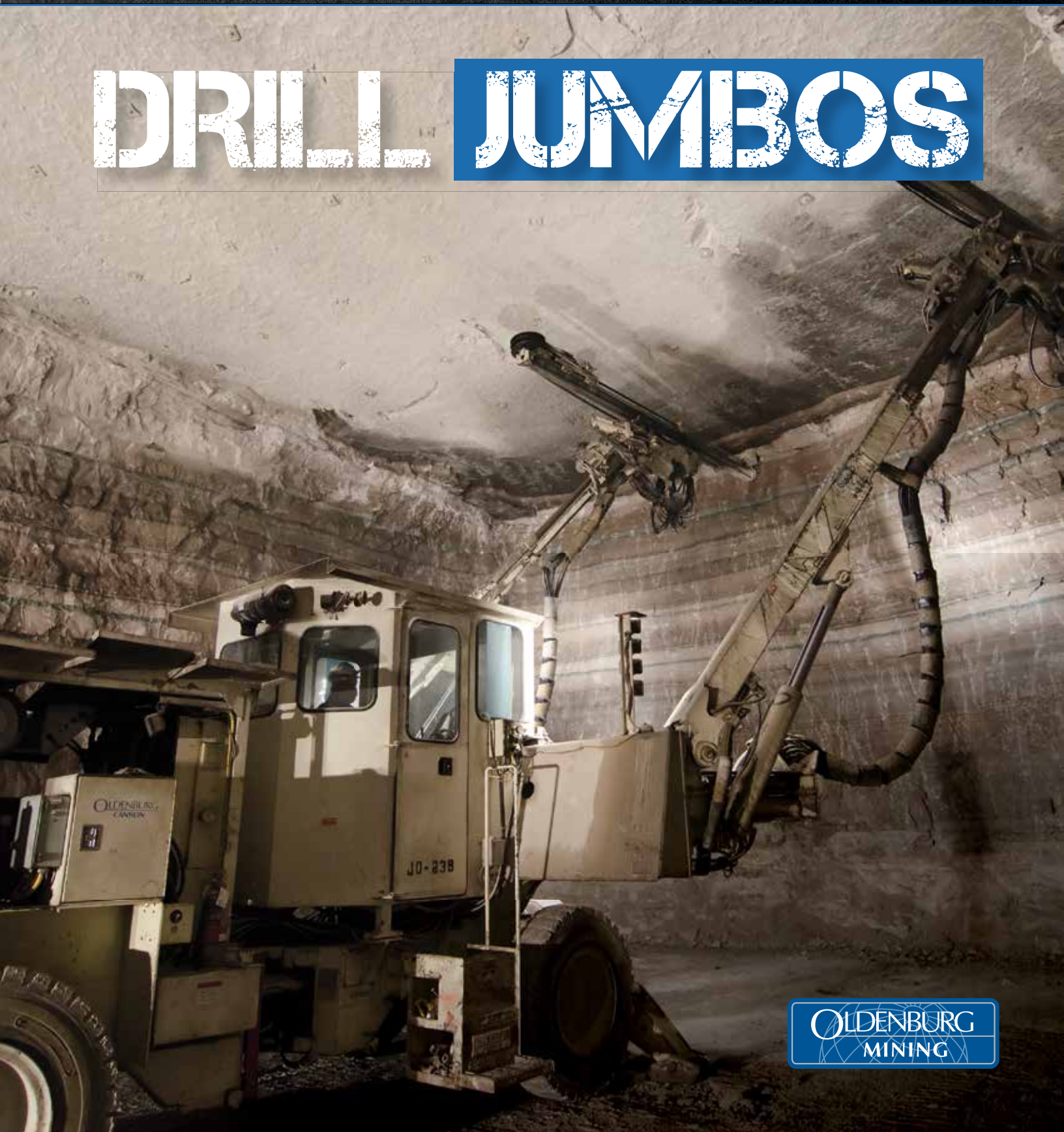
OLDENBURG GROUP
INCORPORATED

DRILL JUMBOS



OLDENBURG MINING

MINING DOESN'T STOP.

And neither can your drills. Oldenburg Mining drills combine smart design with rugged construction to ensure optimum uptime, maximizing your production and lowering your overall operating costs.

At Oldenburg Mining, we don't build drills for showrooms. We build drills that are specifically designed to tackle the unique challenges of your mine. Drills that meet the **highest standards** of safety, performance and operator convenience.

Your Oldenburg Mining drill will be built on a timely schedule. More importantly, it will be built for your mine and **built to last.** That's why you see so many Oldenburg Mining drills around – their longevity in service exceeds that of competitive drill jumbos, a fact supported by the superior residual values represented in the used equipment market.

Mining doesn't stop. And neither do we. Our promise is to help make your mining operation safer, more productive and more profitable. From assisting in the proper commissioning of your machine to providing continued parts and service, Oldenburg Mining keeps your mine running.

DRIFTERS MAKE THE DIFFERENCE.

The Cannon CH Series Hydraulic Drifters **make a BIG difference** for high-speed drilling in production, roof bolting and benching applications.

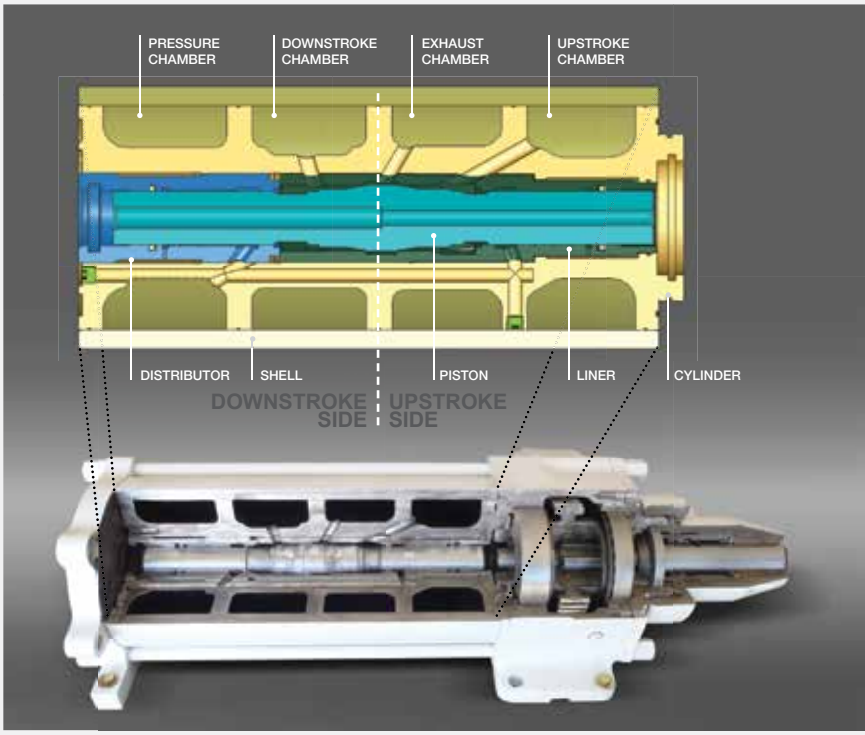
A simplified design uses over **50 percent fewer moving parts** than conventional drifters, greatly reducing maintenance costs without compromising performance. In fact, the percussion group features a single moving part – the piston – and still produces superior penetration rates compared to conventional drifters with complex valving systems and fragile nitrogen accumulators.

In addition, a pressurized air lubrication system uses hydraulic fluid in a fine mist, eliminating the need for expensive rock drill oils. And **excellent machine availability** and ease of maintenance means faster troubleshooting, low-cost rebuilds and reduced maintenance costs.

It's why Cannon CH Series Hydraulic Drifters make the difference.

- **Half the parts**
- **Twice the life**
- **Half the cost**
- **Lowest cost per ton**

OLDENBURG CANNON



A PERFECT FIT.

Oldenburg Mining offers a complete line of single and twin-boom drill jumbos, allowing you to customize a drill that combines your choice of drifter, chassis size, feed length and power source to build the ideal drill for your underground mine.

Choose Your Cannon Drifter

Choose from five rotary or percussion rotary drifters to get the rotation speed and striking power to hammer through materials with various compressive strengths.

Cannon Hydraulic Percussion Rotary Drills

Model	Drill Steel	Frequency (BPM)	Impact Energy
CH-32	32 mm - 1-1/4"	9000	13 kW
CH-38	38 mm - 1-1/2"	6000	18 kW

Cannon Hydraulic Rotary Drills

Model	Max Torque	Rotation Speed (RPM)
CHR1	650 ft-lb	600
CHR2	360 ft-lb	1000
CHR3	225 ft-lb	1700

Choose Your Power Source

Maximize production and maintain premium air quality in your underground mine by choosing from three primary power sources. A fourth all-electric option is also available for gassy mines and a battery-powered version for those difficult deep mines with poor air quality.

- Diesel Hydraulic (HD)
- Electric Hydraulic (HE)
- Dual-Powered (HED)
- All-Electric (EPH / EPI) MSHA-approved permissible jumbo for gassy mines

Oldenburg offers multiple diesel brands, including Caterpillar®, Cummins® and Mercedes®.

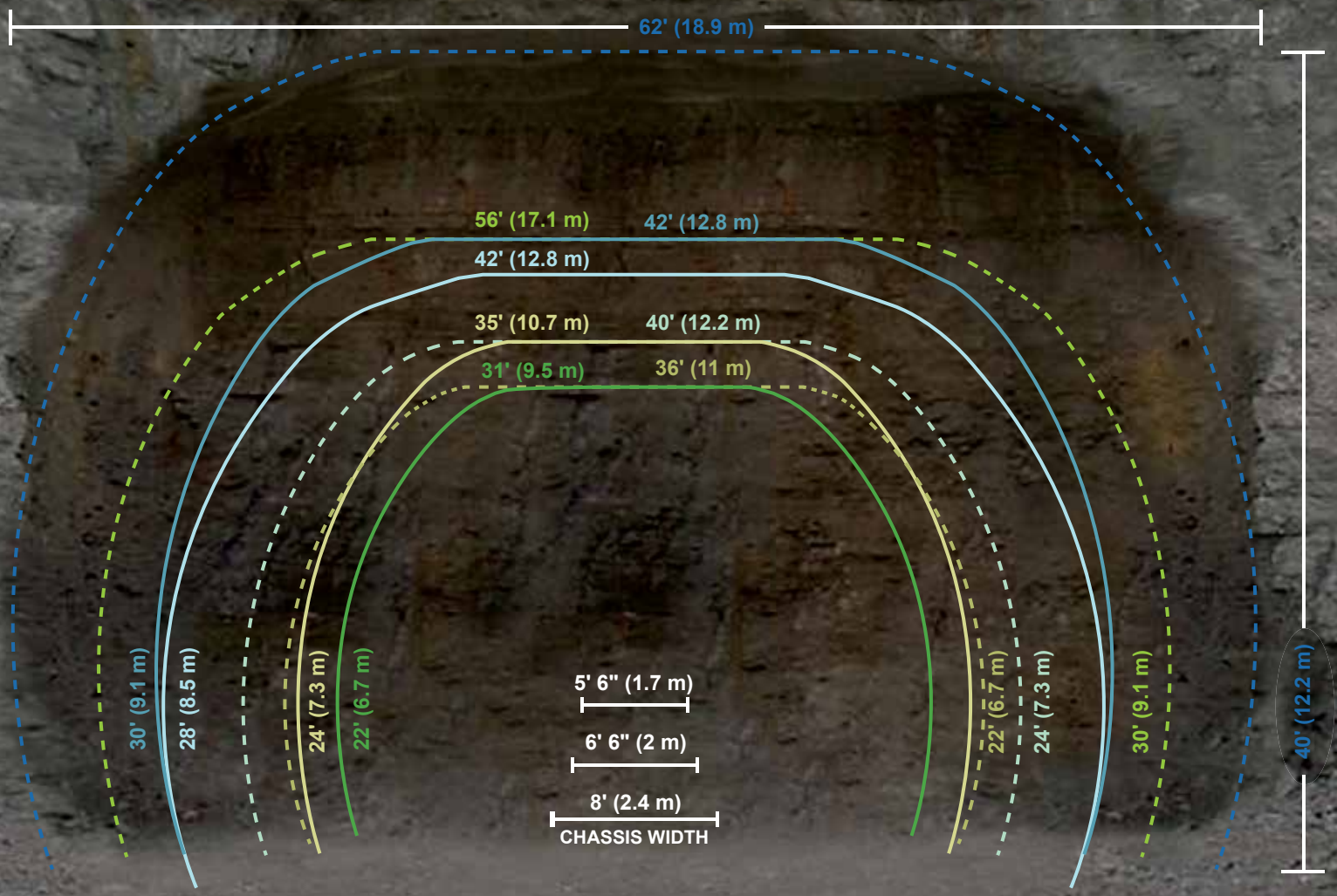
Choose Your Chassis

Choose from six chassis designations to get the maneuverability and turning radius needed to navigate your mine without difficulty. These sturdy, purpose-built chassis are designed for easy maintenance access.

Model	Tram	Chassis Width	Number of Booms
DPIN	Diesel	5' 6" (1.7 m)	1
DPIS	Diesel	6' 6" (2 m)	1 or 2
DPI	Diesel	8' (2.4 m)	1 or 2
DPH	Diesel	9' - 15' (2.7 - 4.6 m)	1 or 2
DPXH	Diesel	11' 1" (3.4 m)	2
EPI/EPH	Electric	8' (2.4 m)	1 or 2

Choose Your Feed Size

Multiple boom and feed sizes let you choose a configuration to fit any mining application. Feeds are available in steel length increments of 2 feet, ranging from 8 feet to 26 feet. Optional telescopic feeds and steel changing systems are also available.



1 Boom	CHASSIS WIDTH
DPH – 42' (12.8 m) x 30' (9.1 m)	9' - 15' (2.7 - 4.6 m)
EPH/EPI – 42' (12.8 m) x 30' (9.1 m)	8' (2.4 m)
DPI – 42' (12.8 m) x 28' (8.5 m)	8' (2.4 m)
DPIS – 35' (10.7 m) x 24' (7.3 m)	6' 6" (2 m)
DPIN – 31' (9.5 m) x 22' (6.7 m)	5' 6" (1.7 m)

2 Boom	CHASSIS WIDTH
DPXH – 62' (18.9 m) x 40' (12.2 m)	11' 1" (3.4 m)
DPH – 56' (17.1 m) x 30' (9.1 m)	9' - 15' (2.7 - 4.6 m)
EPH/EPI – 56' (17.1 m) x 30' (9.1 m)	8' (2.4 m)
DPI – 40' (12.2 m) x 24' (7.3 m)	8' (2.4 m)
DPIS – 36' (11.0 m) x 22' (6.7 m)	6' 6" (2 m)

BOOM COVERAGES FOR FACE DRILLING.

*Dimensions shown indicate maximum coverage areas which may require optional equipment. This drawing is for illustrative purposes only. Please see full line of product specifications for more information.

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MORE THAN DRILLS.

Ask around the mining community and you will consistently hear that Oldenburg Mining makes rugged and reliable drills. And that's just fine with us. We take great pride in building powerful drills that perform day in and day out for our customers.

But Oldenburg Mining is more than dependable drills. We offer **a complete line of mining machinery**, including roof bolters, scalers, ANFO trucks and our line of utility vehicles.

Mainly, Oldenburg Mining is about building the equipment that makes your mining operation safer and more efficient. So long as you and your crew are getting it done in the mine, our team will continue working hard to bring you **rugged and reliable mining machinery.**

Drill Specifications	DPIN	DPIS	DPI	DPH	DPXH
Engine	142-172 hp	142-225 hp	142-225 hp	225-385 hp	300-385 hp
Engine Options	Cat C4.4, Mercedes 904, Cummins QSB 4.5	CAT C4.4 or C7, Mercedes 904, Cummins QSB 4.5	CAT C4.4 or C7, Mercedes 904, Cummins QSB 4.5	CAT C7 or C11, CAT C13 Tier IV	CAT C11, CAT C13 Tier IV
Drill	CH32 & CH38 Hammer CHR 1, 2 & 3 Rotary	CH32 & CH38 Hammer CHR 1, 2 & 3 Rotary	CH32 & CH38 Hammer CHR 1, 2 & 3 Rotary	CH32 & CH38 Hammer CHR 1, 2 & 3 Rotary	CH32 & CH38 Hammer CHR 1, 2 & 3 Rotary
Number of Booms	1	1 or 2	1 or 2	1 or 2	2
Face Coverage (Height x Width)	22' x 31' (6.7 m x 9.5 m)	24' x 35' (7.3 m x 10.7 m)	28' x 42' (8.5 m x 12.8 m)	30' x 56' (9.1 m x 17.1 m)	40' x 62' (12.8 m x 18.9 m)
Weight	35,000 lbs (15,876 kg)	37,000 lbs (16,783 kg)	40,000 lbs (18,144 kg)	70,000 lbs (31,751 kg)	100,000 lbs (45,359 kg)
Height	114.3" (3.14 m)	116.5" (2.96 m)	116.5" (2.96 m)	137.3" (3.48 m)	145" (3.68 m)
Chassis Width	5' 6" (1.7 m)	6' 6" (2 m)	8' (2.4 m)	9'-15' (2.7 - 4.6 m)	11' 1" (3.4 m)
Length - Overall	40' (12.3 m)	41' (12.6 m)	41' (12.6 m)	50' (15.3 m)	60' (18.3 m)
Wheel Base	133.5" (3.14 m)	135.8" (3.45 m)	135.8" (3.45 m)	149.8" (3.81 m)	150.1" (3.81 m)
Steering Articulation	+/- 38 degrees	+/- 38 degrees	+/- 38 degrees	+/- 40 degrees	+/- 40 degrees
Axles	John Deere 1200	John Deere 1200	John Deere 1200	John Deere 1400 Front John Deere 1200 Rear	John Deere 1600 Front John Deere 1400 Rear
Gradeability	20%	20%	20%	20%	10%
Max Tram Speed	>5.2 mph (>8.4 kph)	>5.2 mph (>8.4 kph)	>5.2 mph (>8.4 kph)	>4 mph (>6.4 kph)	>4 mph (>6.4 kph)
Fuel Tank Volume	60 gal (227 L)	80 gal (303 L)	80 gal (303 L)	160 gal (189 L)	160 gal (189 L)
Tires	9 x 20	12 x 20	12 x 20	14 x 24	14 x 24

EXCELLENT SERVICE FROM THE START.

Uptime is critical to maintaining high productivity and profitability in your mine. That's why we're committed to building a parts and service support system that keeps you running at full speed. We're closely listening to your challenges and expectations so we can better deliver the parts and service support you need to boost productivity and operational excellence.

Common components have long been used throughout our line to **simplify parts replacement.** Today, we're leveraging the right technologies to better anticipate your parts needs, and we're investing strongly in inventory to ensure those parts are readily available to you.

It's long been our standard to send service supervisors during the commissioning of your machine, and to provide additional operator training and required machine troubleshooting. Today, we're investing in **developing our support team** to provide the assistance you need to realize optimum efficiency.

At Oldenburg Mining, we've built our reputation by building rugged and dependable mining equipment that makes your mining operation safer, more productive and more profitable. And we're here to make sure your equipment finishes the job. It's our promise to you.

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