

DOWN-THE-HOLE HAMMER DRILLS

Drill hole Ø
89-127 mm / 3,5"-5"

HD 1480 D

Drill hole Ø
89-172 mm / 3,5" - 6,75"

HD 1540 D

Drill hole Ø
89-172 mm / 3,5" - 6,75"

HD 1580 D

Drill hole Ø
89-219 mm / 3,5" - 8,5"

HD 1640 D

BBURG
INTERNATIONAL

EFFICIENCY AND
RELIABILITY –
always and everywhere!





RG

ROBUST AND
INNOVATIVE –
ahead of its time!





COMFORTABLE
AND INTUITIVE —
easy to operate!





THE COMPANY

BBURG International GmbH & Co KG - founded in 2008 - is located south of Berlin, Germany. We are one of the world's leading manufacturers of down-the-hole hammer drills.

BBURG stands for the highest quality, German development and engineering skills, which are reflected in all our products. We offer our customers innovative machine solutions that have been specially developed to meet the demanding requirements of the extraction and mining industry.

Our machines are of the highest quality and the most cost-efficient on the market. Compared to other manufacturers, BBURG offers superior drilling performance and fuel efficiency without compromising on reliability.

A key feature of our products is ease of operation and maintenance. This reduces operating costs and maximizes the efficiency of our customers' operations.

With an experienced team, we are continuously working on the further development and optimization of our devices. Our mission is to constantly push the boundaries of what is possible in the field of drilling technology and help our customers to carry out their activities more efficiently and successfully.

Our drilling rigs are in use worldwide and enjoy the trust of many companies that rely on our many years of expertise and the quality of our products.





REPAIR AND MAINTENANCE SERVICE

You can also rely on our expertise when it comes to the maintenance and servicing of our BBURG appliances. Certified technicians are at your side - wherever and whenever - with specialist knowledge and original parts. We don't make any compromises in this area.

WORLDWIDE & ANYTIME

THE OPERATOR

Machines simplify work on site in many ways. However, for this to work smoothly, the human-machine interface must be kept as simple as possible.

No area of the functional chain is as important as this. That is why we pay particular attention to it. Be it in the preparation of the drilling area, the operation itself or in the support of the machine via data telemetry. Here the operator can rely on the fastest help from the factory.

Our innovative and intuitive operating concept makes working with BBURG machines as easy as possible. This saves time and energy. The operator enjoys working in a BBURG. A heated and sprung operator's seat is standard, as is excellent noise insulation at the operator's workplace.

In our experience, ease of operation makes all the difference - and that is our particular strength.





HD 1480 D

Drill hole Ø
89-127 mm / 3,5"-5"

Synthesis of compact transport dimensions and maximum drilling performance

A transport weight of just 21,5 tons and a transport height of 3,25 m allow the 30 bar machine to be moved quickly and easily.

It is the ideal partner for drilling service companies that frequently drill in different locations and do not want to compromise on drilling performance

and efficiency. The HD 1480 D has been specially developed for use with 3.5" and 4" hammers.

The Caterpillar motor in combination with the BBURG control system ensures low drilling meter consumption.



The equipment

• Cabin

- ROPS/FOPS cabin on visco-elastic vibration dampers
- 2 x windshield wipers with washer system
- 24 V socket, machine tilt indicator
- Multi-laminated windshield, darkened
- Side windows, toughened glass, darkened
- Digital mast angle display and drilling depth display
- Fully adjustable and electrically heated, sprung driver's seat
- Cab lighting, rear-view mirror
- Bluetooth radio
- Reversing camera with monitor in the cab

• Machine frame

- LED work lights to illuminate the front and rear of the machine- and rear area
- LED work lights in the service bay
- Donaldson high-performance air filter for engine and compressor
- Reversing alarm signal tone and rotating beacon
- Walk-in service bay to reach all assemblies and service points inside the machine

• Mast

- Drill pipe magazine capacity 7-8 drill pipes

- Mast base with wide base surface
- Lower mast sensor package for switching off feed and rotation when people approach (patented)

• Lubrication

- Central lubrication system
- Threaded lubrication drill pipe
- Hydraulic drill pipe guide on suction hood from mast base

• Control drilling process

- Reduced air pressure for drilling
- Anti-jamming/automatic fixed drilling
- Storable drilling parameters for different geologies
- Automated drill pipe change/automatic drilling depth stop
- Main air for the hammer can be adjusted from the cab during drilling

• Evaluation drilling process

- Drilling result is saved after completion of the hole
- Transmission to web-based system via data telemetry/ GSM
- Drilling results can be called up retrospectively over a long period of time

• Data telemetry „Raven“

- Transmission of all relevant operating data to customers
- Transmission of malfunctions for rapid error analysis

Technical data

• Main features

- Complies with the latest emission regulations with EU 5 / US EPA 4 engines
- Excellent visibility when handling hoses and pipes
- The feed system ensures smooth and even movement
- Walk in service bay to reach all assemblies and service points inside the machine
- Raven™ data telemetry system

• Main components

- ROPS/FOPS cab on visco-elastic vibration dampers
- One-piece boom system
- Deep hole drilling capability
- Drill pipe magazine - Carousel
- Breakout table - heavy duty version
- Donaldson high performance air filter for engine and compressor

• Hole range and lengths

Drill hole diameter	mm	89–127		inch	3,5–5
Drill tube diameter	mm	76 / 83 / 89		inch	3–3,5
Number of drill tubes		7+1 / 8+1 option			
Drill tube length	mm	4 000		ft	13
Drill depth	m	32 / 36		ft	105 / 118
Rotation torque	Nm	4 000		lbf-ft	2 9500
Rotation speed	U/min	40–120		rpm	40–120

• Engine

Engine manufacturer		Caterpillar			
Number of cylinders / capacity	cm³	6 / 9 300		l	6 / 9,3
Type		Diesel engine with turbocharger			
Emission certification	EU	5		US EPA	stage 4 final
Max. engine speed	U/min	1 850		rpm	1 850
Engine power	kW	340		hp	456

• Dimensions

Length	mm	10 065		inch	396
Width	mm	2 520		inch	99
Height	mm	3 250		inch	130
Mast length	mm	7 745		inch	305
Mast swivel range		18–90°			
Weight approx.	kg	21 500		lb	47 500
Ground clearance	mm	430		inch	16,9
Shoe width	mm	300		inch	11,8
Shoe type		Triple grouser			

• Driving performance

Max. gradeability	25%			
Max. track oscillation	10°			
Driving speed	km/h	0-3,5	mph	0-2,2
Number of speeds	2			

• Filling volumes

Diesel tank	l	540	gal	143
Hydraulic tank	l	300	gal	69

• Dust collector

Donaldson				
Filter surface	m²	44	ft²	473
Ø of the suction hose	mm	203	inch	8
Filters number	6			

• Compressor

Compressor type	double stage			
Max. air pressure	bar	30	psi	435
Air volume / minute	m³/min	22	cfm	800

• Optional

- | | | |
|--------------------------|-----------------------------------|--|
| - Sample collector | - 3 D drill hole system | - Electric refueling pump |
| - Single grouser shoe | - Water injection 52.83-79,25 gal | - Wiggins rapid refueling system |
| - Rubber pads base plate | - Hydraulic support foot | - Hydraulic clutch to disengage compressor |
| - GPS compass | - Drill string | |

HD 1540 D

Drill hole Ø
89–172 mm / 3,5"–6,75"

Efficient, strong and flexible in use

This makes it an excellent choice for contractors who need a reliable solution for various drilling requirements.

It is ideal for applications in the mining industry in disturbed rock formations where excess scavenging air is required. The HD 1540 D offers a variable drill hole diameter from 3,5" to 6,75". With a motor output of 345 kW, the unit delivers sufficient power to work

efficiently even with larger drilling diameters. The integrated two-stage compressor ensures a constant and optimal air supply, which improves the drilling speed and increases the overall performance of the device.

Despite its high performance, the HD 1540 D is designed for economical fuel consumption, resulting in lower operating costs and a reduction in environmental impact.



The equipment

• Cabin

- ROPS/FOPS cabin on visco-elastic vibration dampers
- 2 x windshield wipers with washer system
- 24 V socket, machine tilt indicator
- Multi-laminated windshield, darkened
- Side windows, toughened glass, darkened
- Digital mast angle display and drilling depth display
- Fully adjustable and electrically heated, sprung driver's seat
- Cab lighting, rear-view mirror
- Bluetooth radio
- Reversing camera with monitor in the cab

• Machine frame

- LED work lights to illuminate the front and rear of the machine- and rear area
- LED work lights in the service bay
- Donaldson high-performance air filter for engine and compressor
- Reversing alarm signal tone and rotating beacon
- Walk-in service bay to reach all assemblies and service points inside the machine

• Mast

- Drill pipe magazine capacity 7-8 drill pipes

- Mast base with wide base surface
- Lower mast sensor package for switching off feed and rotation when people approach (patented)

• Lubrication

- Central lubrication system
- Threaded lubrication drill pipe
- Hydraulic drill pipe guide on suction hood from mast base

• Control drilling process

- Reduced air pressure for drilling
- Anti-jamming/automatic fixed drilling
- Storable drilling parameters for different geologies
- Automated drill pipe change/automatic drilling depth stop
- Main air for the hammer can be adjusted from the cab during drilling

• Evaluation drilling process

- Drilling result is saved after completion of the hole
- Transmission to web-based system via data telemetry/ GSM
- Drilling results can be called up retrospectively over a long period of time

• Data telemetry „Raven“

- Transmission of all relevant operating data to customers
- Transmission of malfunctions for rapid error analysis

Technical data

• Main features

- Complies with the latest emission regulations with EU 5 / US EPA 5 engines
- Excellent visibility when handling hoses and pipes
- The feed system ensures smooth and even movement
- Walk in service bay to reach all assemblies and service points inside the machine
- Raven™ data telemetry system

• Main components

- ROPS/FOPS cab on visco-elastic vibration dampers
- One-piece boom system
- Deep hole drilling capability
- Drill pipe magazine - Carousel
- Breakout table - heavy duty version
- Donaldson high performance air filter for engine and compressor

• Hole range and lengths

Drill hole diameter	mm	89–172	inch	3,5–6,75
Drill tube diameter	mm	76 / 89 / 102 / 114 / 127	inch	3–5
Number of drill tubes		5+1 / 6+1 / 7+1		
Drill tube length	mm	5 000 / 5 700	ft	16,4 / 18,7
Drill depth	m	30 / 35 / 40	ft	98 / 115 / 131
Rotation torque	Nm	4 700 / 5 700 / 6 700	lbf-ft	3 466 / 4 204 / 4 942
Rotation speed	U/min	40–100	rpm	40–100

• Engine

Engine manufacturer		Volvo		
Number of cylinders / capacity	cm³	6 / 13 000	l	6 / 13
Type		Diesel engine with turbocharger		
Emission certification	EU	5	US EPA	stage 5 final
Max. engine speed	U/min	1 900	rpm	1 900
Engine power	kW	345	hp	463

• Dimensions

Length	mm	10 980	inch	432
Width	mm	2 520	inch	99
Height	mm	3 450	inch	136
Mast length	mm	9 540	inch	375
Mast swivel range		18–90°		
Weight approx.	kg	24 000	lb	53 000
Ground clearance	mm	440	inch	17,3
Shoe width	mm	350	inch	13,8
Shoe type		Triple grouser		

• Driving performance

Max. gradeability	25%			
Max. track oscillation	10°			
Driving speed	km/h	0-3,5	mph	0-2,2
Number of speeds	2			

• Filling volumes

Diesel tank	l	730	gal	206
Hydraulic tank	l	320	gal	84

• Dust collector

Donaldson				
Filter surface	m²	60	ft²	646
Ø of the suction hose	mm	203	inch	8
Filters number	6			

• Compressor

Compressor type	double stage			
Max. air pressure	bar	25	psi	350
Air volume / minute	m³/min	25	cfm	880

• Optional

- | | | |
|--------------------------|-----------------------------------|--|
| - Sample collector | - 3 D drill hole system | - Electric refueling pump |
| - Single grouser shoe | - Water injection 52.83-79,25 gal | - Wiggins rapid refueling system |
| - Rubber pads base plate | - Hydraulic support foot | - Hydraulic clutch to disengage compressor |
| - GPS compass | - Drill string | |

HD 1580 D SUPERIOR

Drill hole Ø
89-172 mm / 3,5"-6,75"

Robust, reliable and versatile in use

Equipped with a 405 kW 13l Volvo engine and a maximum working air pressure of 35 bar, the HD 1580 offers impressive drilling power for the most demanding tasks.

But the highlight is its low diesel consumption: thanks to efficient energy management, fuel consumption is reduced to a minimum, which is both cost-saving and environmentally friendly.

The HD 1580 D superior is the ideal choice for professionals in the extraction and mining industry who need a reliable, powerful and economical machine.

With its robust design and versatility, the HD 1580 D superior is the perfect choice for professionals who value performance and economy.



The equipment

• Cabin

- ROPS/FOPS cabin on visco-elastic vibration dampers
- 2 x windshield wipers with washer system
- 24 V socket, machine tilt indicator
- Multi-laminated windshield, darkened
- Side windows, toughened glass, darkened
- Digital mast angle display and drilling depth display
- Fully adjustable and electrically heated, sprung driver's seat
- Cab lighting, rear-view mirror
- Bluetooth radio
- Reversing camera with monitor in the cab

• Machine frame

- LED work lights to illuminate the front and rear of the machine- and rear area
- LED work lights in the service bay
- Donaldson high-performance air filter for engine and compressor
- Reversing alarm signal tone and rotating beacon
- Walk-in service bay to reach all assemblies and service points inside the machine

• Mast

- Drill pipe magazine capacity 7-8 drill pipes

- Mast base with wide base surface
- Lower mast sensor package for switching off feed and rotation when people approach (patented)

• Lubrication

- Central lubrication system
- Threaded lubrication drill pipe
- Hydraulic drill pipe guide on suction hood from mast base

• Control drilling process

- Reduced air pressure for drilling
- Anti-jamming/automatic fixed drilling
- Storable drilling parameters for different geologies
- Automated drill pipe change/automatic drilling depth stop
- Main air for the hammer can be adjusted from the cab during drilling

• Evaluation drilling process

- Drilling result is saved after completion of the hole
- Transmission to web-based system via data telemetry/ GSM
- Drilling results can be called up retrospectively over a long period of time

• Data telemetry „Raven“

- Transmission of all relevant operating data to customers
- Transmission of malfunctions for rapid error analysis

Technical data

• Main features

- Complies with the latest emission regulations with EU 5 / US EPA 5 engines
- Excellent visibility when handling hoses and pipes
- The feed system ensures smooth and even movement
- Walk in service bay to reach all assemblies and service points inside the machine
- Raven™ data telemetry system

• Main components

- ROPS/FOPS cab on visco-elastic vibration dampers
- One-piece boom system
- Deep hole drilling capability
- Drill pipe magazine - Carousel
- Breakout table - heavy duty version
- Donaldson high performance air filter for engine and compressor

• Hole range and lengths

Drill hole diameter	mm	89–127	inch	3,5–5
Drill tube diameter	mm	76 / 89 / 102 / 114 / 127	inch	3–5
Number of drill tubes		5+1 / 6+1 / 7+1		
Drill tube length	mm	5 000 / 5 700	ft	16,4 / 18,7
Drill depth	m	30 / 35 / 40 / 45	ft	98 / 115 / 131 / 148
Rotation torque	Nm	4 700 / 5 700 / 6 700	lbf-ft	3 466 / 4 204 / 4 942
Rotation speed	U/min	40–110	rpm	40–110

• Engine

Engine manufacturer		Volvo		
Number of cylinders / capacity	cm³	6 / 13 000	l	6 / 13
Type		Diesel engine with turbocharger		
Emission certification	EU	5	US EPA	stage 5 final
Max. engine speed	U/min	1 900	rpm	1 900
Engine power	kW	405	hp	543

• Dimensions

Length	mm	10 980	inch	432
Width	mm	2 520	inch	99
Height	mm	3 450	inch	136
Mast length	mm	9 450	inch	375
Mast swivel range		18–90°		
Weight approx.	kg	24 000	lb	53 000
Ground clearance	mm	440	inch	17,3
Shoe width	mm	350	inch	13,8
Shoe type		Triple grouser		

• Driving performance

Max. gradeability	25%			
Max. track oscillation	10°			
Driving speed	km/h	0-3,5	mph	0-2,2
Number of speeds	2			

• Filling volumes

Diesel tank	l	730	gal	206
Hydraulic tank	l	320	gal	84

• Dust collector

Donaldson				
Filter surface	m²	60	ft²	646
Ø of the suction hose	mm	203	inch	8
Filters number	9			

• Compressor

Compressor type	double stage			
Max. air pressure	bar	35	psi	500
Air volume / minute	m³/min	27	cfm	960

• Optional

- | | | |
|--------------------------|-----------------------------------|--|
| - Sample collector | - 3 D drill hole system | - Electric refueling pump |
| - Single grouser shoe | - Water injection 52.83-79,25 gal | - Wiggins rapid refueling system |
| - Rubber pads base plate | - Hydraulic support foot | - Hydraulic clutch to disengage compressor |
| - GPS compass | - Drill string | |

HD 1640 D

Drill hole Ø
89-219 mm / 3,5"-8,5"

Maximum power for all requirements

The HD 1640 D is the largest and most powerful model in our range and was specially developed for demanding stationary use in opencast mining.

With an engine output of 585 kW, an operating pressure of up to 35 bar and an air volume of 32 m³/min, the HD 1640 offers reserves for the use of 6 and 8" hammers.

The machine can be used for borehole diameters of up to 219 mm and is designed for maximum drilling depths of 48 m.

With an outer track width of 3 m, the HD 1640 D also stands securely on uneven drilling fields. An operating weight of 32 tons is proof of the machine's robustness.



The equipment

- **Cabin**
 - ROPS/FOPS cabin on visco-elastic vibration dampers
 - 2 x windshield wipers with washer system
 - 24 V socket, machine tilt indicator
 - Multi-laminated windshield, darkened
 - Side windows, toughened glass, darkened
 - Digital mast angle display and drilling depth display
 - Fully adjustable and electrically heated, sprung driver's seat
 - Cab lighting, rear-view mirror
 - Bluetooth radio
 - Reversing camera with monitor in the cab
- **Machine frame**
 - LED work lights to illuminate the front and rear of the machine- and rear area
 - LED work lights in the service bay
 - Donaldson high-performance air filter for engine and compressor
 - Reversing alarm signal tone and rotating beacon
 - Walk-in service bay to reach all assemblies and service points inside the machine
- **Mast**
 - Drill pipe magazine capacity 7-8 drill pipes
 - Mast base with wide base surface
 - Lower mast sensor package for switching off feed and rotation when people approach (patented)
- **Lubrication**
 - Central lubrication system
 - Threaded lubrication drill pipe
 - Hydraulic drill pipe guide on suction hood from mast base
- **Control drilling process**
 - Reduced air pressure for drilling
 - Anti-jamming/automatic fixed drilling
 - Storable drilling parameters for different geologies
 - Automated drill pipe change/automatic drilling depth stop
 - Main air for the hammer can be adjusted from the cab during drilling
- **Evaluation drilling process**
 - Drilling result is saved after completion of the hole
 - Transmission to web-based system via data telemetry/ GSM
 - Drilling results can be called up retrospectively over a long period of time
- **Data telemetry „Raven“**
 - Transmission of all relevant operating data to customers
 - Transmission of malfunctions for rapid error analysis

Technical data

• Main features

- Complies with the latest emission regulations with EU 5 / US EPA 5 engines
- Excellent visibility when handling hoses and pipes
- The feed system ensures smooth and even movement
- Walk in service bay to reach all assemblies and service points inside the machine
- Raven™ data telemetry system

• Main components

- ROPS/FOPS cab on visco-elastic vibration dampers
- One-piece boom system
- Deep hole drilling capability
- Drill pipe magazine - Carousel
- Breakout table - heavy duty version
- Donaldson high performance air filter for engine and compressor

• Hole range and lengths

Drill hole diameter	mm	89–219	inch	3,5–8,5
Drill tube diameter	mm	76 / 89 / 102 / 114 / 127 / 140	inch	3–5,5
Number of drill tubes		5+1 / 6+1 / 7+1		
Drill tube length	mm	6 000 / 6 700	ft	19,7 / 22
Drill depth	m	36 / 42 / 48	ft	118 / 138 / 157
Rotation torque	Nm	4 700 / 5 700 / 6 700	lbf-ft	3 466 / 4 204 / 4 942
Rotation speed	U/min	40–100	rpm	40–100

• Engine

Engine manufacturer		Volvo		
Number of cylinders / capacity	cm³	6 / 16 000	l	6 / 16
Type		Diesel engine with turbocharger		
Emission certification	EU	5	US EPA	stage 5 final
Max. engine speed	U/min	1 950	rpm	1 950
Engine power	kW	585	hp	785

• Dimensions

Length	mm	10 980	inch	432
Width	mm	3 000	inch	145
Height	mm	3 700	inch	119
Mast length	mm	10 540	inch	415
Mast swivel range		18–90°		
Weight approx.	kg	32 000	lb	70 500
Ground clearance	mm	440	inch	17,3
Shoe width	mm	400	inch	15,7
Shoe type		Triple grouser		

• Driving performance

Max. gradeability	25%			
Max. track oscillation	10°			
Driving speed	km/h	0-3,5	mph	0-2,2
Number of speeds	2			

• Filling volumes

Diesel tank	l	910	gal	240
Hydraulic tank	l	320	gal	84

• Dust collector

Donaldson				
Filter surface	m²	120	ft²	1 292
Ø of the suction hose	mm	203	inch	8
Filters number	16			

• Compressor

Compressor type	double stage			
Max. air pressure	bar	35	psi	500
Air volume / minute	m³/min	32	cfm	1 150

• Optional

- | | | |
|--------------------------|-----------------------------------|--|
| - Sample collector | - 3 D drill hole system | - Electric refueling pump |
| - Single grouser shoe | - Water injection 52.83-79,25 gal | - Wiggins rapid refueling system |
| - Rubber pads base plate | - Hydraulic support foot | - Hydraulic clutch to disengage compressor |
| - GPS compass | - Drill string | |

EFFICIENCY AND RELIABILITY

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