

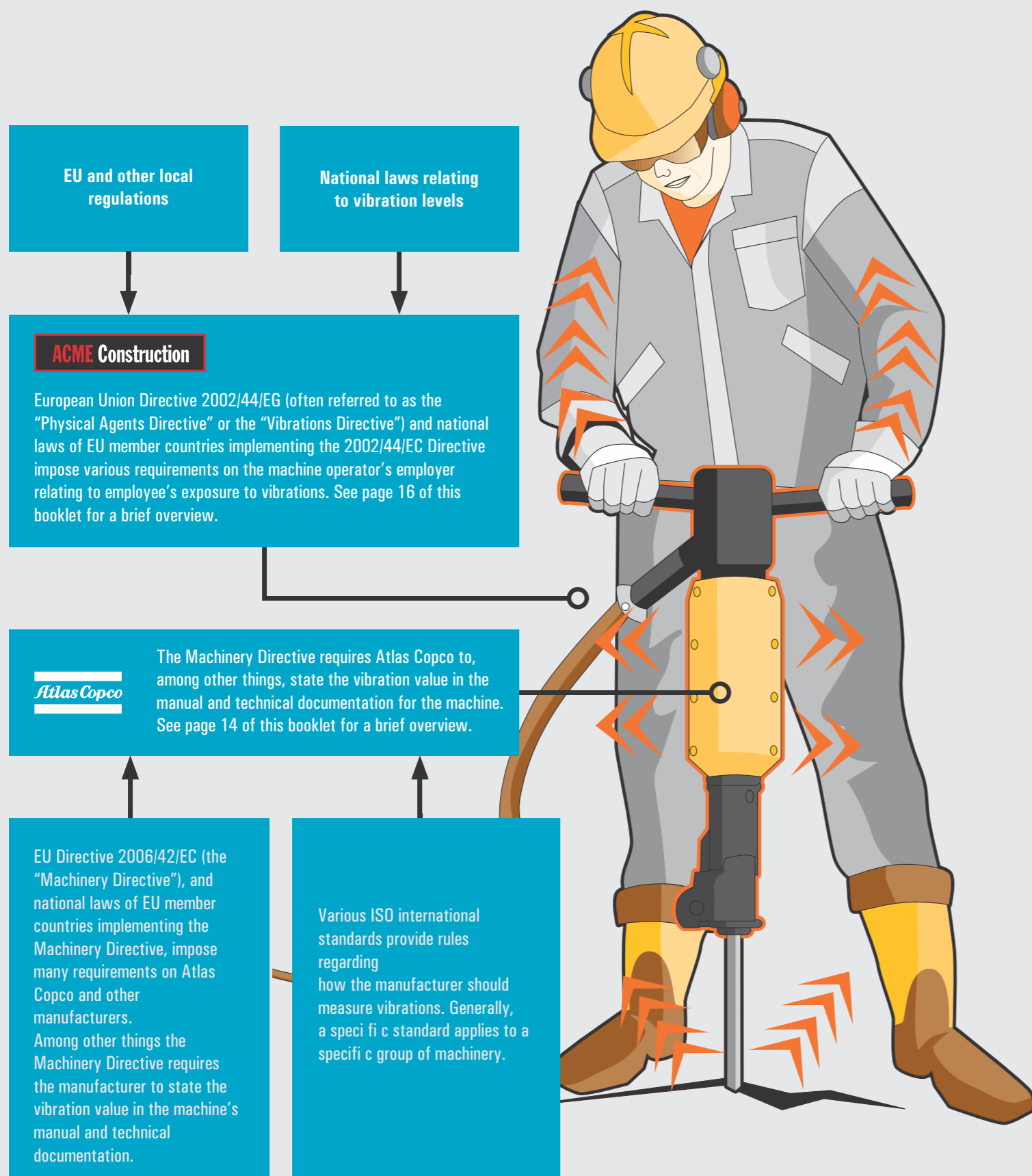


HAND HELD TOOLS EXPERIENCE + PERFORMANCE

For every power supply we have a rock drill....experts in Breaking Rock



Atlas Copco



PNEUMATIC HAMMERS



CHIP HAMMERS

Applications depending on weight class

- Light duty chipping and scaling work
- Renovation and conversion work
- Demolition
- Kiln stripping

Features:

- Full canopy vibro-reduction (TEX 05, 09 and 12)
- Noise-reduction
- SOFSTART™ two-step trigger
- HAPS™ Hand and Arm Protection System
- Air cushioned piston (TEX 05, 09 and 12)
- Easy handling and positioning



Pneumatic hammers		TEX 05P	TEX 05PE	TEX 09 PS KL	TEX 09PE/PER	TEX 10 PS KL	TEX 12 PS KL/PSR KL	TEX 12PE/PER
Weight	kg	5.5	6.5	12	10.5	10.5	12.5	12
Length	mm	380	450	500	560	500	545	590
Air consumption	l/s	9.5	10	18.5	17	17	21.3	20
Impact rate	blows/min	2760	2640	1800	1800	1350	1600	1620
Vibration level 3 axes (ISO 28927-10) ³⁾	m/s ²	13	2.4	16.1	4.2	22.4	15.4	4.0
Sound pressure level (ISO 11203) ³⁾	Lp, r=1m	92	87	93	93	91	92	93
Tool retainer		cap	cap	kick-latch	latch	kick-latch	kick-latch	latch
Shank size HEX	mm	19x50	19x50	22x82.5	22x82.5	22x82.5	22x82.5	22x82.5
Shank size round shank	mm	17.3x60	-	25x75	25x75	25x75	25x75	25x75

*Data at 6 bar (90 psi) air pressure

PE: silenced, vibro-reduced, PER: silenced, vibro-reduced, round shank, KL: kick latch, PS: silenced, PSR: round shank



CAP



KICK LATCH



HANDLE



TOOL RETAINER

PNEUMATIC BREAKERS



Application:

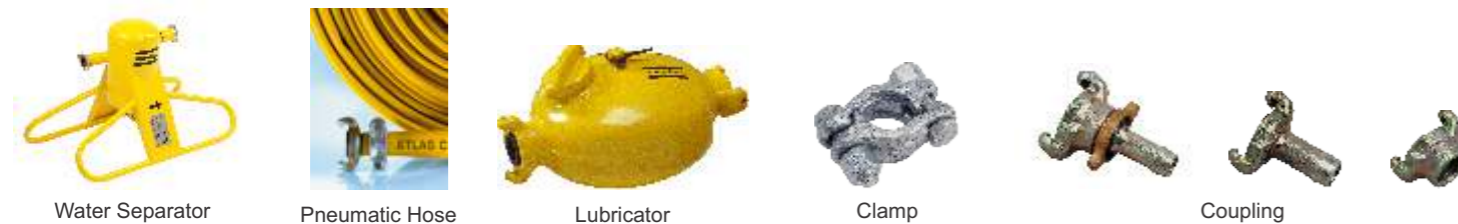
- Soft Material**
 Brick, soft rock and other soft materials require lighter hammers and breakers that deliver a high number of blows per minute and less impact force.
- Medium Material**
 The harder the material, the more weight and impact force is needed. Medium materials include medium hard rocks, non-reinforced concrete and asphalt.
- Hard Material**
 To break hard rocks, including high silica content boulders, and reinforced concrete you need high impact force and fewer blows per minute.
- Demolition**
 Demolition is the process of tearing down a structure. Materials range from soft to hard. You need tough, reliable hammers and breakers with the right type of tools.
- Renovation**
 Renovation is the process of improving a structure. Typical tasks include chipping and scaling concrete. Renovation work in general, and especially inside buildings, means you need effective sound and vibration protection.
- Rock Splitting**
 Rock Splitting with hammers and breakers is time and cost saving compared to using explosives. Explosives requires secure storing and causes interruptions when blasting and clearing.

- Chipping**
 Chipping means you remove cracked and weak concrete before improving for example a road structure with new concrete.
- Underwater Work**
 Pneumatic work in most conditions. You can use pneumatic hammers and breakers for chipping and scaling operations under water.
- Overhead Work**
 For overhead renovation work you need a light and efficient hammer with high impact rate.

Features:

- Solid Body concept
- Noise-reduction
- HAPS™ Hand and Arm Protection System (PE series)
- SOFSTART™ two-step trigger
- Rotating air inlet swivel
- Integrated lubricator
- Air cushioned piston

Accessories:



Water Separator

Pneumatic Hose

Lubricator

Clamp

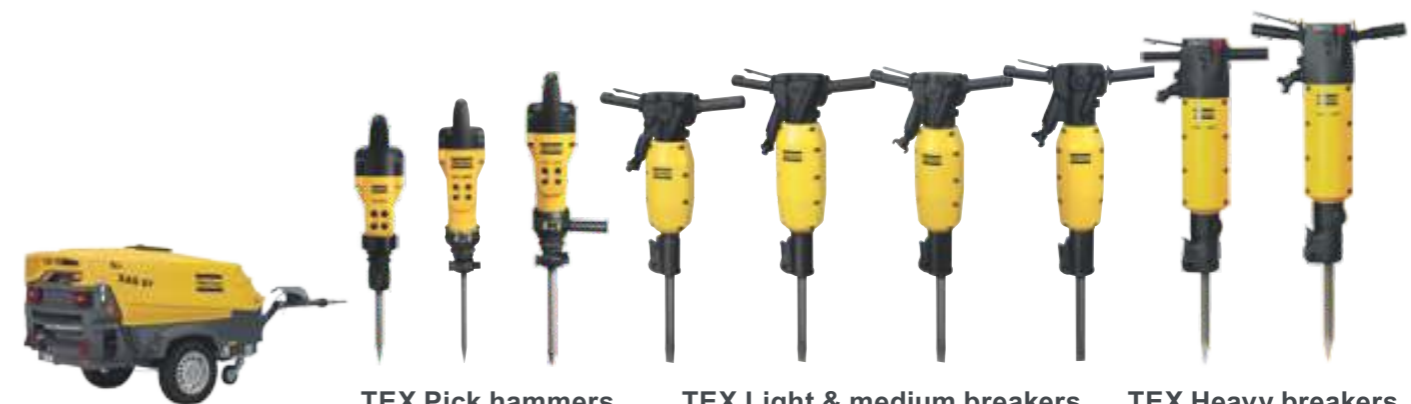
Coupling

Pneumatic Light & Medium Breakers	TEX 140PS	TEX 150PE	TEX 180PS	TEX 190PE	TEX 220PS	TEX 230PE	TEX 270PS	TEX 280PE
Vibro-reduced	NO	YES	NO	YES	NO	YES	NO	YES
Weight	kg 15,5	19	19	19,5	22,5	23	23,5	23,5
Length	mm 590	590	595	645	595	645	670	670
Air consumption	l/s 25	25	26	26	30	30	30	32
Impact rate	bpm 1530	1530	1500	1500	1320	1320	1230	1230
Vibration level 3 axes (ISO 28927-10)	m/s ² 15,2	4,5	14,5	3,7	12,8	4,2	14,9	4,8
Sound pressure level (ISO 11203)	Lp, r=1m 91	91	92	91	92	91	93	93
Shank size	Hex mm 22x82,5	25x108	22x82,5	25x108	25x108	28x160	25x108	28x160

*Data at 6 bar (90 PSI) Pressure

TEX Pneumatic heavy breakers	TEX 32PS	TEX 39PS	TEX 33PE	TEX 40 PE	TEX P60	TEX P90
Vibro-reduced	NO	NO	NO	YES	NO	NO
Weight	kg 34	39	37	42	33	43
Length	mm 745	750	745	750	690	710
Air consumption at 6 bar	l/s 34	40	34	40	36	40
Impact rate	blows/min 1,200	1,100	1,200	1,110	1,500	1,260
Vibration level 3 axes (ISO 28927-10)	m/s ² 13,7	14,3	5,7	4,2		
Sound pressure level (ISO 11203)	Lp, r=1m 99	99	99	99	97	99
Shank size: Hex	mm 28x160	32x160	28x160	32x160	28x160	32x160

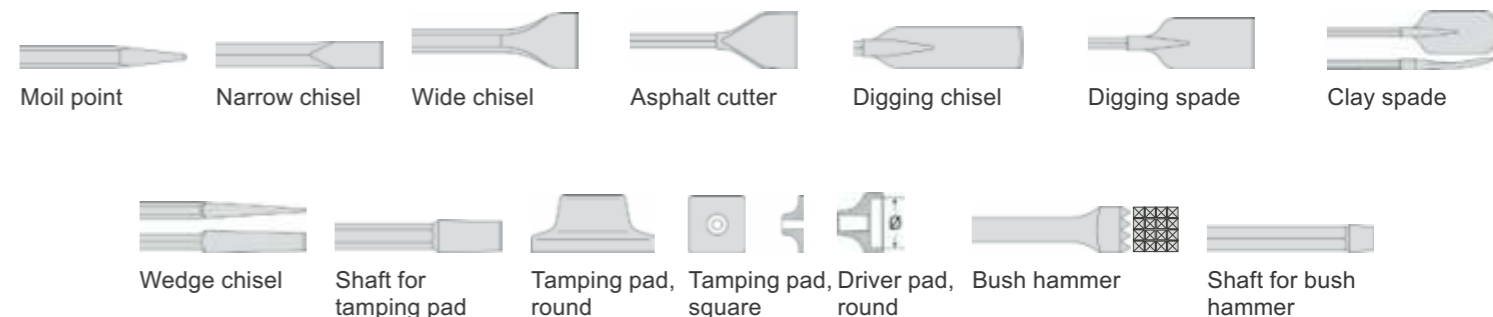
S : Silenced , E : Ergonomic
 P 60 for Asphalt
 P 90 for Concrete



XAS Compressors	TEX Pick hammers			TEX Light & medium breakers				TEX Heavy breakers		(cfm)
	05 PE	09 PE	12 PE	150 PE	190 PE	230 PE	280 PE	33 PE	40 PE	
77	72	7	4	3	2	2	2	2	1	163
97	89	8	5	4	3	3	2	2	2	206
137	120	12	7	6	4	4	4	3	3	290

1) Weight 2) Air consumption at 6 bar

Working Tools:



Moil point

Narrow chisel

Wide chisel

Asphalt cutter

Digging chisel

Digging spade

Clay spade

Wedge chisel

Shaft for tamping pad

Tamping pad, round

Tamping pad, square

Driver pad, round

Bush hammer

Shaft for bush hammer

PNEUMATIC SURFACE ROCK DRILLS



PNEUMATIC ROCK DRILLS BBD 12 AND BBD 15

Applications:

- Drill up to 2 m depth
- Plug hole drilling
- Anchor and wedge hole drilling

Features:

- Noise-reduction (S-versions)
- HAPS™ Hand and Arm Protection System (E-versions)
- Built in air flushing
- Trigger version available (ET)



PNEUMATIC ROCK DRILLS



PNEUMATIC ROCK DRILLS

RH drills are designed for heavier jobs such as bench and secondary drilling, plus drilling for smooth blasting.

RH drills have a robust rifle-bar rotation mechanism and high impact energy for drilling in hard rock.

Where to use them

- Bench and secondary drilling, smooth blast drilling
- SRD 20 and RH 571 for smaller jobs
- SRD 25 and RH 658 for drilling deeper holes

The right drill for your application

The light-weight RH 571 is perfect for smaller jobs. The RH 658, slightly heavier and more powerful, is suitable for greater hole depths. The SRD combines light weight with extra operator comfort, thanks to the vibration dampened handles and efficient silencer.

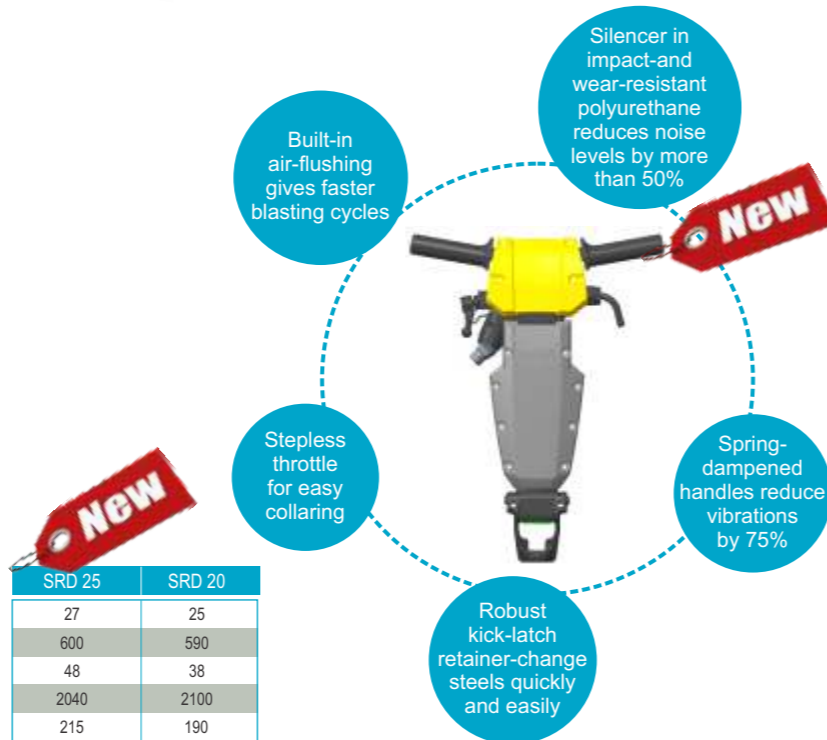
All models are equipped with T-handles for a solid, comfortable grip.

Applications:

- Drill up to 6 m depth
- Production drilling in quarry/dimension stone industry
- Blast hole and secondary drilling



PNEUMATIC ROCK DRILLS



Pneumatic rock drills		RH 571-5L	RH 658-5L	SRD 25	SRD 20
Weight	kg	18	24	27	25
Length	mm	510	565	600	590
Air consumption	l/s	39	58	48	38
Impact rate	blows/min	2100	2040	2040	2100
Revolutions	rpm	190	215	215	190
Penetration rate ¹⁾	mm/min	295	425	425	295
Hose connection	mm	19	19	19	19
Vibration level 3 axes (ISO 20643) ²⁾	m/s ²	23,2	21,2	14	10
Sound power level guaranteed (2000/14/EC) ³⁾	Lp, r=1m	106	106	112	111
Silencer	-	-	-	✓	✓
Ergonomic handle	-	-	-	✓	✓
Shank size	mm	22x108	22x108	22x108	22x108

Pneumatic rock drills		BBD 12D	BBD 12DS	BBD 15E	BBD 15ET
Weight	kg	9,8	10,7	15,5	15,6
Length	mm	565	565	575	575
Air consumption	l/s	24	22	22	22
Impact rate	blows/min	2580	2580	2520	2520
Revolutions	rpm	220	220	220	220
Penetration rate	mm/min	250	230	220	220
Hose connection	mm	13	13	19	16
Vibration level 3 axes (ISO 20643) ¹⁾	m/s ²	22,2	22,2	7	7
Sound pressure level (ISO 11203) ¹⁾	Lp, r=1m	103	97	97	97
Shank size	mm	19x108	19x108	19x108	22x108

* D = D-handle T = T-handle E = vibro-reduced handles ET = vibro-reduced handles, trigger start C = cap S = silenced

RIG-MOUNTED PNEUMATIC ROCK DRILLS

Applications:

- Dimension stone industry (DSI)
- Marble and granite quarries
- Cable or chain feed drilling

Features:

- Noise-reduction (BBC 34 DSI)
- Efficient air flushing
- Can be converted to water flushing
- Production drilling

Rig-mounted rock drills		BBD 94-DSI	BBC 34-DSI
Weight	kg	28	31
Length	mm	670	775
Air consumption	l/s	97	88
Impact rate	bpm	3300	2280
Piston diameter	mm	90	80
Stroke length	mm	45	70
Vibration level 3 axes (ISO 20642) ¹⁾	m/s ²	15	20,4
Sound power level guaranteed (2000/14/EC) ¹⁾	Lw, dB(A)	125	120
Sound pressure level (ISO 11203) ¹⁾	Lp, r=1m	114	109



RIG-MOUNTED PNEUMATIC ROCK DRILLS

PNEUMATIC UNDERGROUND ROCK DRILLS

H.A.P.S.
HAND AND ARM PROTECTION SYSTEM



PNEUMATIC ROCK DRILLS – STOPERS

Applications:

- Raise driving and bolting
- Screening

Features:

- High quality, designed for production drilling
- Front flushing of drill steel to keep water and cuttings out from the drill (BBC 34)
- Clock wise rotation for bolting (BBD 46 WR)



Knob



PNEUMATIC UNDERGROUND DRILLS

BBD 46WS/WR - Falcon

- Suitable for production drilling, raise driving and bolting in soft to medium hard rock
- Short stroke, good penetration rates
- Large piston diameter gives high efficiency even at low air pressure
- Ratchet wheel rotation mechanism
- WR version with clockwise rotation for tightening nuts and roof bolting

BBC 34WS

- Suitable for production drilling, raise driving and bolting in medium to hard rock
- Long stroke, high impact energy
- Powerful rifle bar rotation mechanism
- Material: drill in steel, leg cylinder in aluminum

Stoppers	BBD 46		BBC 34				
		WS-6	WS-8	WR-6	WR-8	WS-6	WS-8
Hole range	mm	27-41		27-41		27-41	
Weight	kg	39	40	39	40	45,5	46,5
Length retracted	mm	1435	1650	1435	1650	1610	1810
Length extracted	mm	2205	2620	2205	2620	2380	2780
Air consumption	l/s	90		90		125	
Impact rate	bpm	3000		3000		2340	
Piston diameter	mm	75		75		80	
Stroke length	mm	45		45		70	
Vibration level 3 axes (ISO 20643) ¹⁾	m/s ²	10		10		30,5	
Sound pressure level (ISO 11203) ¹⁾	Lp, r=1m	121		121		118	

Data at 6 bar (90 psi) air pressure
R=right rotation

PNEUMATIC ROCK DRILLS AND PUSHER LEGS

Applications:

- Production drilling
- Mining and construction
- Dimension stone industry

Features:

- High quality, designed for production drilling
- Noise-reduction (16 WS, 34 WS, 94 WE)
- Built in water flushing
- ATEX certification (BBD 94 WS, BMK 91RS)
- Single or double telescopic pusher legs

Rock drills		BBC 16W	BBC 34 WTH	BBD 94W	RH 654W
Hole range	mm	27-41	27-41	27-41	27-41
Weight	kg	28,5	34	28	22
Length	mm	705	740	670	658
Air consumption	l/s	69	88	97	48
Impact rate	blows/min	2340	2280	3300	2040
Piston diameter	mm	70	80	90	65
Stroke length	mm	55	70	45	59
Vibration level 3 axes (ISO 5349-2) ¹⁾	m/s ²	16,6	20,4	15	21,2
Sound pressure level (ISO 11203) ¹⁾	Lp, r=1m	111	116	114	115

Data at 6 bar (90 psi) air pressure.

Pusher legs		BMT 51	ALF 72D	BMK 62S
Telescope		Single	Single	Single
Suitable for rock drill:		BBC 16W, 34W	BBD 94W	RH 656W
Feeding length	mm	1300	1300	1300
Length retracted	mm	1658	1970	1815
Length extracted	mm	2958	3270	3115
Weight	kg	15	19	17
Piston bore	mm	60	70	53

FOUR ACTIONS FOR SUCCESSFUL DRILLING



ACTION 1: PERCUSSIVE IMPACT

Percussive drilling breaks the rock by hammering impacts transferred from the rock drill to the drill bit at the bottom of the hole.



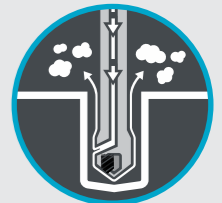
ACTION 2: FEED FORCE

The purpose of the feed force is to keep the drill bit in close contact against the rock. The engineering challenge is to combine high feed force with good rotation.



ACTION 3: ROTATION

Rotation moves the drill bit to a new position to make the next blow as effective as possible. When the drilling starts you need even and smooth rotation.



ACTION 4: FLUSHING

Drill systems with a high output need good flushing technology to be able to remove drill cuttings. Particle size, shape and material affect the flushing methods.

BBD 6W



Drill deep

With its long stroke the BBC16W has good penetration rate. And the quality rifle bar rotation mechanism can handle the load.

Easy reach

With the pusher leg control placed in back head of the rock drill, they are easy to reach.

Anytime, anywhere

The BBC16W is an all-round rock drill, suitable for most drilling applications in medium to hard rock.



BBD 34 W

- Highly efficient in medium to hard rock
- Long stroke, high impact energy
- Large piston diameter makes it very efficient even at low air pressure
- Powerful rifle bar rotation mechanism
- Pusher leg control placed in back head of the rock drill



BBD 94 W

- High performance rock drill for soft to hard rock
- Short stroke and high impact rate makes it ideal for soft rock
- Large piston diameter for high efficiency even at low air pressure
- Ratchet wheel rotation mechanism
- Pusher leg control is placed on the pusher leg



RH 656 W

- Suitable for soft to medium hard rock
- Good ratio between high penetration/low air consumption
- Due to low weight, it can also be used as a sinker. Supplied with T-handle
- Robust rifle bar rotation mechanism
- Pusher leg control is placed on the pusher leg

PNEUMATICS

PNEUMATIC PUMPS

Applications DIP:

- Centrifugal pumps designed for clean, low-viscosity liquids such as water.

Features:

- Robust
- Cannot be damaged by overloading

Pneumatic pumps		DIP 25	DIP 35	DIP 65	DOP 15N	DOP 15F
Max. head	m	25	35	59	59	59
Max. flow	l/s	28	22	11	7	7
Max. air requirement	l/s	70	70	70	34	34
Weight	kg	23	23	23	31	31
Fluid outlet	in	G 2 1/2	G 2 1/2	G 2 1/2	G 2 1/2	G 2 1/2
Air inlet	in	G 3/4	G 3/4	G 3/4	G 3/4	G 3/4
Air outlet	in	G 1 1/2	G 1 1/2	G 1 1/2	G 1	G 1

Data at 6 bar (90 psi) air pressure.

Applications DOP:

Diaphragm pump designed for construction, mining and industrial applications or process industry

- Polluted media
- Viscous media
- Highly abrasive or inflammable fluids
- 15N: mainly for construction industry
- 15F: mainly for process industry



PNEUMATIC COMBI DRILLS/HAMMERS



Applications:

- Plug hole drilling 8-38 mm diameter
- Wedge hole drilling
- Chipping and scaling
- Renovation and rebuilding
- Underwater work

Features:

- Built-in air flushing
- Noise-reduction
- Switching between drilling/chipping by change of working tool
- Built-in lubricator

The DKR 36 is a dual-function pneumatic drill/chipper that weights just for kilos.

It's a machine that packs a powerful punch. Despite its light weight and compact size, you can get more work done - up to two to three times more - than with a comparable electric drill. It's also a lot more robust, and will not burn out when pushed hard.

Two-in-one

These dual-function machine can be used for both chipping and drilling. Changing between the different modes is simple: just exchange the chipping tool for a drill steel, and the DKR 36 automatically switches to the drilling function.

- More productive than an electric drill/chipper
- Powerful, yet light weight
- Two functions in one machine
- Built-in lubricator for easy maintenance
- Quick-coupling chuck for fast tool changes

Pneumatic combi drills/hammers		DKR 36
Weight	kg	4,5
Length	mm	380
Air consumption at 6 bar	l/s	10
Impact rate	blows/min	2820
Revolutions	rpm	250
Penetration rate	mm/min	180 ¹ /160 ²
Hose connection	mm	19
Vibration level 3 axes (ISO 28927-10) ³⁾	m/s ²	20,2 (breaking) 21,2 (drilling)
Sound power level guaranteed (2000/14/EC) ³⁾	Lw, dB(A)	103
Sound pressure level (ISO 11203) ³⁾	Lp, r=1m	88
Shank size	mm	R19xH14,7x89

HANDHELD POWER PACKS



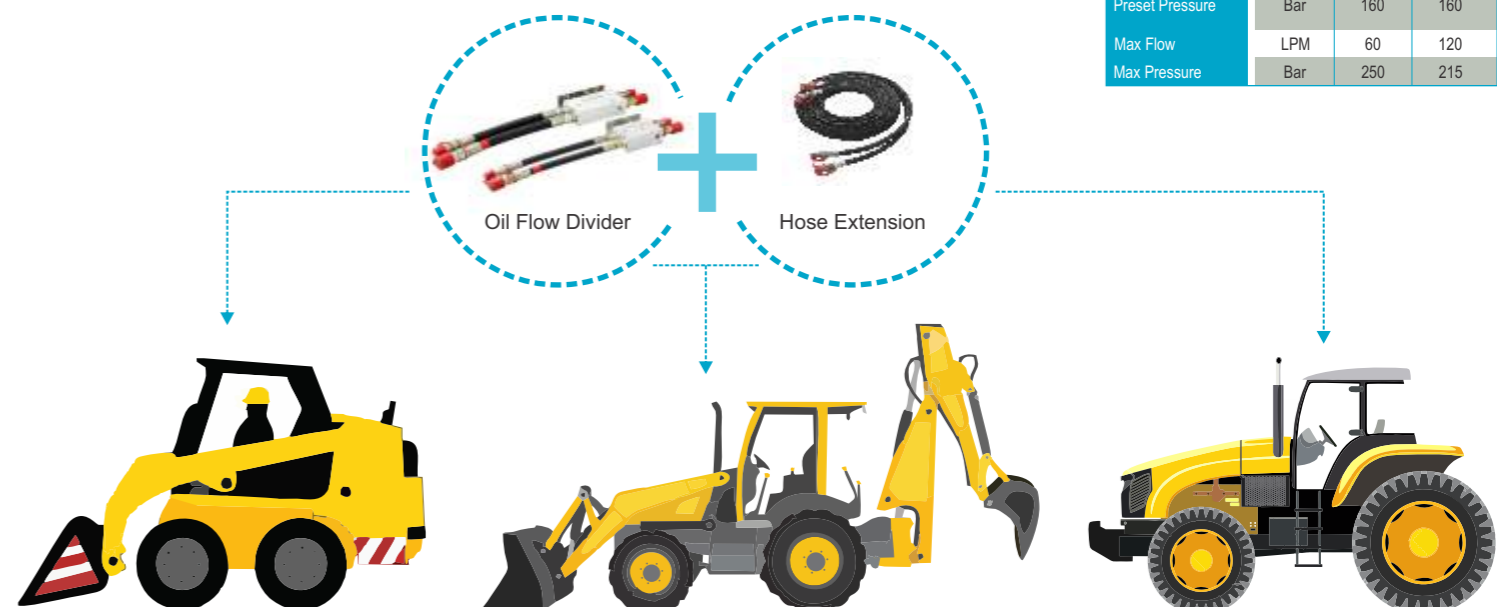
Features:

- Portable, compact and light weight
- High efficiency, low noise and low fuel consumption thanks to Power On Demand function (available with selected models only)
- Low maintenance, long lifetime – moving parts move in a closed lubricated circuit
- Protective steel frame with foldable handles
- Lifting eye and cross lifting bar
- No exhaust or emission from the tools – power pack with engine can be placed away from tool
- Large return filter and replacement indicator
- Thermostatically-controlled oil cooler

Power packs		LP 9-20 P	LP 9-20 E	LP 18-40 E	LP 18 Twin E	LP13-20DEL
Driven		Petrol	Electric	Electric	Electric	Diesel
Engine		9 HP Honda	5,5 kW / 3x400 V / 16A	11 kW / 3x400 V / 32A	11 kW / 3x400 V / 32A	10HP Lombardini
Weight (incl oil)	kg	76	68	131	135	116
Dimensions (LxWxH)	mm	605x505x620	605x505x620	815x605x745	745x605x705	745x600x705
Oil flow	l/min	20	20	40	2x20/1x40	20
Maximum pressure	bar	150	150	155	155	150
Fuel capacity	l	6	-	-	-	-
Sound pressure level (ISO 11203) ¹⁾	Lp, r=1m	87	82	87	86	-



Or alternatively used the power of owned equipments using Atlas Copco Oil Flow Divider



Oil Flow Divider		LFD 20	LFD 30
Preset Flow	LPM	20	30
Preset Pressure	Bar	160	160
Max Flow	LPM	60	120
Max Pressure	Bar	250	215

HYDRAULIC STANDARD HAMMER AND BREAKERS

Applications

- Breaking light concrete and brickwork (LH 11)
- Medium and hard materials as asphalt and concrete

Hammer and breakers		LH 8E	LH 11	LH 190 E	LH 220	LH 220 HBP ⁴⁾	LH 270	LH 270 HBP ⁴⁾	LH 280 E	LH 390	LH 390 HBP ⁴⁾	LH 400 E
Weight ¹⁾	kg	10	15,5	25	22,5	22,5	26,5	26,5	32,5	33	33	39
Length ²⁾	mm	520	650	650	690	690	765	765	765	765	765	765
Oil flow	l/min	20	20	20	20-30	20-30	20-30	20-30	20-30	30-40	30	30-40
Working pressure	bar	90-110	80-100	95-110	105-125	115-130	110-125	115-130	110-125	110-125	115-130	110-125
Max back pressure	bar	10	10	10	15	35	15	35	15	15	20	15
Impact rate	blows/min	2000	2300	1400	1500-2100	1500-2100	1350-1750	1350-1750	1350-1750	1150-1600	1150-1600	1150-1600

HYDRAULIC PUMPS

Applications:

Pumping of clean or contaminated water and slurry:

- On building sites
- In flooded excavations
- In cellars
- In wells

Water pumps		LWP 2	LTP 3
Weight	kg	11	13
Width	mm	225	300
Oil flow	l/min	18-24	26-38
Working pressure	bar	100	140
Maximum Pressure	bar	172	172
Pump head max	m	25	32
Pump flow max	l/min	840	1920
Discharge		2"	3"
Max plumbable particle size	upto mm	10	60

HYDRAULIC CORE DRILLS

Applications:

- Safe handheld drilling in reinforced concrete and asphalt up to 200 mm diameter in confined spaces, for ventilation, heating, gas piping and other installations
- Works efficient also in underwater applications

Core drills		LCD 500	LCD 1500
Weight including hoses	kg	9,5	9
Oil flow rate	l/min	20-30	20-30
Revolutions	rpm	600-900	1500-2250
Drill diameter	mm	50-202	12-75

HYDRAULIC CUT-OFF SAWS

Applications:

- Cuts 133-160 mm depth
- Works in dust, slurry and underwater

Cut-off saws		LS 14	LS 16
Weight including hoses	kg	12	13
Oil flow	l/min	20-30	20-40
Maximum pressure	bar	172	172
Speed	m/s	46-75	42-85
Disc size	mm	355	405

HYDRAULIC ROCK DRILL

Applications:

- Drills down to 6 m depth and up to 50 mm diameter:

- ▶ Blast holes
- ▶ Anchor holes
- ▶ Rock-splitting holes

Rock drill		LHD 23 M	LHD 23 R
Shank size	Hex mm	22x108	22x108
Weight including hoses	kg	26	24
Service weight	kg	28,5	26,5
Oil flow	l/min	20-25	20-25
Working pressure	bar	100-140	100-140
Max back pressure	bar	15	15
Impact rate ¹⁾	blows/min	2550	2550
Revolutions	rpm	320-400	320-400
Torque	Nm	30	90

HYDRAULIC POST AND GROUND ROD DRIVERS

Applications

- Drives up to 150 mm diameter poles
- For driving of:
 - ▶ Road barriers
 - ▶ Tubes / profiles
 - ▶ Signposts
 - ▶ Fences
 - ▶ Anchors
 - ▶ Ground rod

Post drivers		LPD-LD-T	LPD-T	LPD-HD-T
Weight including hoses	kg	17,5	32	39
Driving capacity ²⁾	mm	10-60	40-100	70-150
Working pressure	bar	80-100	105-140	105-125
Oil flow	l/min	20	20-30	28-40
Impact rate at 30 l/min	blows/min	2300	1680	1320

HYDRAULIC POST PULLER

Applications:

- For removal of any pole, steel beam or tube with diameters up to 200 mm
- For removing of:
 - ▶ Wooden posts
 - ▶ Round/square steel tubes
 - ▶ Fence posts
 - ▶ Anchors
 - ▶ Steel posts (incl IPE, HPE and UPE profile)

Post puller		LPP 10 HD
Weight	kg	60
Oil flow	l/min	20-40
Max. working pressure	bar	172
Max. back pressure	bar	30
Lift capacity per stroke	mm	12-200
Pulling force	kg	6000

HYDRAULIC POSTHOLE BORER - HANDHELD AND RIG-MOUNTED

Applications:

- Drilling preparations for:
 - ▶ Fence posts
 - ▶ Planting holes
 - ▶ Signpost holes
 - ▶ Drilling depth down to 1,5 m

Handheld post hole borer		LPHB	LPHB-M
Weight ¹⁾	kg	20	31
Oil flow	l/min	15-40	20-60
Working pressure	bar	80-140	100-140
Max back pressure	bar	50	30
Torque	Nm	315	450
Speed of rotation	rpm	90-240	80-200

Features LPHB:

- Two way rotation – ideal in stony ground
- Adjustable rotation speed and torque limiter
- Quick change of auger without any tools

Features LPHB-M:

- Standard ½" BSP connection
- Quick change of auger without any tools

HANDHELD HYDRAULICS



MOTOR DRIVEN BREAKERS



MOTOR BREAKERS AND DRILLS

Breaker for every job

Cobra™ comes in a range of different version. There is a Cobra™ that doubles as a drill, a Cobra™ that is especially made for tie tamping and a Cobra™ that hits just plain hard. Add to this a range of different working tools and you will find a Cobra™ that is exactly to your liking.

Features:

- Easy to transport
- Quick set-up time
- HAPS™ Hand and Arm Protection System
- Low emissions
- Low noise

Applications:

	COBRA PRO	COBRA COMBI
	Breaker	Combined drill /Breaker
Cutting asphalt	■	■
Concrete breaking	■	■
Compacting asphalt	■	■
Compacting soil	■	■
Tie tamping	■	■
Drilling		■
Rock Splitting		■
Anchoring		■
Post driving	■	■
Fencing	■	■
Digging	■	■
Spiking	■	■



		COBRA PRO	COBRA COMBI
Weight	kg	25	25
Length	mm	927	732
Depth	mm	331	281
Width across handles	mm	611	585
Impact energy	Joules	60 (at 1440 bpm)	22-25 (at 2700 bpm)
Impact rate (full speed)	blows/min	1440	2700
Penetration rate with 34 mm drill	mm/min	-	200-300
Drill rotation speed	rpm	-	250
Shank size	Hex mm	32X160	22X108
Engine type	-	1 cylinder, two-stroke	1 cylinder, two-stroke
Cylinder displacement	cc	90	185
Power	kW	2 (at 5800 rpm)	2 (at 2600 rpm)
Cooling system	-	Fan cooled	Fan cooled
Starter system	-	Recoil starter	Magnapull
Fuel type	-	Petrol, 90-100 octane unleaded	Petrol, 90-100 octane unleaded
Fuel capacity	l	1,0	1,2
Vibration level 3 axes (ISO 28927-10) ¹⁾	m/s ²	4,3	5,8 (breaking) 9,3 (drilling)
Sound pressure level (ISO 11203) ¹⁾	Lp, r=1m, dB(A)	96	95

Determination of vibration exposure points from the equivalent vibration total value and the associated exposure duration

Source: CEN/TR 15350:2006 "Mechanical vibration – Guidelines for the assessment of exposure to hand transmitted vibration using available information, including that provided by manufacturers of machinery"

Equivalent vibration total value a _{h_veq} m/s ²	Exposure duration T									
	0.1 h	0.2 h	0.5 h	1 h	2 h	3 h	4 h	5 h	6 h	8 h
	6 min	12 min	30 min	60 min	120 min	180 min	240 min	300 min	360 min	480 min
2.5	1	3	6	13	25	38	50	63	75	100
3	2	4	9	18	36	54	72	90	108	144
3.5	2	5	12	25	49	74	98	123	147	196
4	3	6	16	32	64	96	128	160	192	256
4.5	4	8	20	41	81	122	162	203	243	324
5	5	10	25	50	100	150	200	250	300	400
5.5	6	12	30	61	121	182	242	303	363	484
6	7	14	36	72	144	216	288	360	432	576
6.5	8	17	42	85	169	254	338	423	507	678
7	10	20	49	98	196	294	392	490	588	784
7.5	11	23	56	113	225	338	450	563	675	900
8	13	26	64	128	256	384	512	640	768	1024
8.5	14	29	72	145	289	434	578	723	867	1156
9	16	32	81	162	324	486	648	810	972	1296
9.5	18	36	90	181	361	542	722	903	1083	1444
10	20	40	100	200	400	600	800	1000	1200	1600
1.5	22	44	110	221	441	662	882	1103	1323	1764
11	24	48	121	242	484	726	968	1210	1452	1936
11.5	26	53	132	265	529	794	1058	1323	1587	2116
12	29	58	144	288	576	864	1152	1440	1728	2304
12.5	31	63	156	313	625	938	1250	1563	1875	2500
13	34	68	169	338	676	1014	1352	1690	2028	2704
13.5	36	73	182	365	729	1094	1458	1823	2187	2916
14	39	78	196	392	784	1176	1568	1960	2352	3136
14.5	42	84	210	421	841	1262	1682	2103	2523	3364
15	45	90	225	450	900	1350	1800	2250	2700	3600
15.5	48	96	240	481	961	1442	1922	2403	2883	3844
16	51	102	256	512	1024	1536	2048	2560	3072	4096
16.5	54	109	272	545	1089	1634	2178	2723	3267	4356
17	58	116	289	578	1156	1734	2312	2890	3468	4624
17.5	61	123	306	613	1225	1838	2450	3063	3675	4900
18	65	130	324	648	1296	1944	2592	3240	3888	5184
18.5	68	137	342	685	1369	2054	2738	3423	4107	5476
19	72	144	361	722	1444	2166	2888	3610	4332	5776
19.5	76	152	380	761	1521	2282	3042	3803	4563	6084
20	80	160	400	800	1600	2400	3200	4000	4800	6400

For details contact:

Gurdeep Singh Matharu :+91 95611 04447, E-mail: gurdeep.singh@in.atlascopco.com

BRANCH	ADDRESS	CODE	PHONE	FAX
NORTH REGION	Unitech Business Park, Tower 'A', First Floor, Block F, Sector - 41, GURGAON 122 001 SCO 811, 1st Floor, NAC, Manimanjra, CHANDIGARH 161 101	(0124) (0172)	3027934 3934922	3027924 3934911
WEST REGION	Mahatma Gandhi Memorial Building, 2nd Floor, Netaji Subhash Road, MUMBAI 400 002 406, Balleshwar Avenue, Opp.Rajpath Club, Sarkej-Gandhinagar .Highway, AHMEDABAD 380015 2nd Floor, Tellus Technologies Pvt. Ltd, 209/1B/1A, Range Hills Road, PUNE 411 020 3rd Floor, Gupta Towers, Opp. Science College Ground, Civil Lines, NAGPUR 440 001	(022) (079) (020) (0712)	32544556 26872892 30257116 3258155	22819946 26872547 30257117 6617972
EAST REGION	Trinity Plaza, 2nd Floor, West Wing, #84/1A, Topsia Road (South), KOLKATA 700 046	(033)	22851061	22851043
SOUTH REGION	136, Arcot Road, West Wing Shyamala Towers, 8th Floor, Saligramam, CHENNAI 600 093 1A, 5th Floor, Kushal Garden, C Block, Peenya Industrial Area, Phase II, BANGALORE 560 058 104/1, Pallipalyam Main Road, Rajagoundampalayam, Suriyampalyam PO, TIRUCHENGODE 637 209	(044) (080) (4288)	39156021 39280191 254575	39156022 39220042 254575
CENTRAL REGION	No. 8B, 8th Floor, 1-10-39 to 44, Gumidelli Towers, Begumpet Main Road, Hyderabad, TELANGANA 500 016	(040) 30739214	30739202 30739215	30739225

COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers,
towards the environment and the people around us.

We make performance stand the test of time.

This is what we call – Sustainable Productivity.

Atlas Copco Construction Technique

Atlas Copco (India) Ltd.

Sveanagar, Dapodi, Pune 411 012, India.

Telephone : +91 20 39852100 Fax: +91 20 39852052

Email : cr.india@in.atlascopco.com

Reach us @ 1800 200 0030

www.atlascopco.com



Atlas Copco