

FLEX

Power Tools



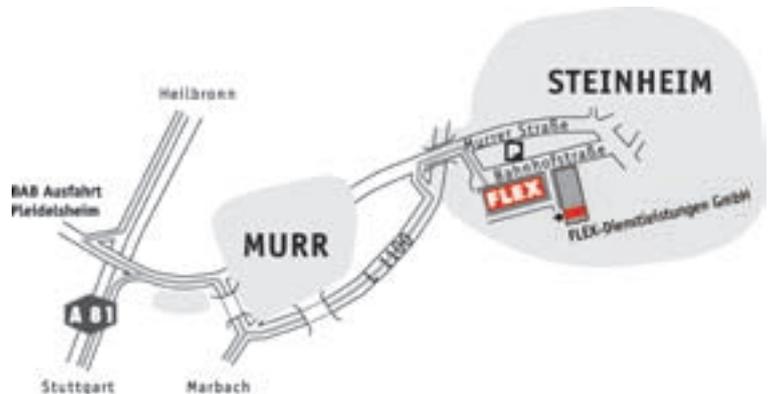
**Electrical Power Tools
for Stone Work**

2007/08



WELCOME AT FLEX

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FLEX Customer service. On-line around the clock for you.

Our customer service can be reached by phone Monday through Friday and any day via the Internet. For all questions about FLEX quality electrical power tools, accessories, and spare parts, but also for quick referral to the nearest FLEX dealer in your area.

Customer service:
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Should you wish to give us your opinion, make suggestions on improving FLEX machines, or tell us how we can expand our program – please do send us an e-mail:
IhreMeinung@flex-tools.com

FLEX Service centre. The experts for quick action and good advice.

In case your FLEX requires service – no problem: You send your machine with a brief fault description to our service centre, we will carry out the service and send your FLEX back to you as fast as possible. And should you have any questions on the technology or the accessories, just give us a call.

FLEX retailers. Where professional technology and competent consultation meet.

No question: advance technology is accompanied by knowledgeable specialist consulting. That is why FLEX quality electrical power tools are available exclusively from qualified dealers. And qualified means in this case: Whoever is a FLEX dealer has been trained on FLEX and has competent answers for the trickiest questions.

The FLEX dealers in your area can be located in the Internet:
www.flex-tools.com

FLEX

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The comprehensive natural stone range: FLEX machines and FLEX accessories:
FLEX has everything: from the pressurised water tank and isolating transformers to industrial vacuum cleaners, sanding wheels, grinding rings, and diamond tools.

Contour plug for safe operation with isolation transformer:
The contour plug is standard equipment on many wet grinders. It can be plugged only into the isolation transformer and not into the power outlet.

Normal earthing type plug for use with GFCI circuit breaker:
All FLEX machines that are equipped with an integrated GFCI operator protection circuit breaker in the power cord come with a normal earthing type plug for 230 V power outlets.

FLEX and natural stone: a steadfast relationship



Electric safety with isolating transformer or GFCI circuit breaker?

Hard types of stone such as granite need to be ground wet. Water binds the quartzous dust and avoids damages to health. Wherever water can come in contact with the power supply of electrical machines there is a hazard of life-threatening short circuits. FLEX wet machines have standard protection against water. Nevertheless proper operation under wet conditions definitely must be observed. The air vents of the motor case for example may not have water sprayed into them. For cases of maloperations additional safety measures are vital.

The isolating transformer is a device for disconnecting two electrical circuits. If there is leakage current during misoperation under wet conditions, the operator is optimally protected because no grounding occurs. The wet machine continues running without being shut off and with no danger for the user, under the condition that the machine was not damaged by improper handling.

The GFCI operator protection circuit breaker is a mobile, leakage current safety switch. Before any damage can be done, it reacts within 15 milliseconds should there be a leakage current of 10 mA, and disconnects the machine from the mains. The cause of the leakage current can then be determined. Don't forget: Switch off the machine for that! For restarting, the GFCI circuit breaker has to be pressed and the machine switched on again.

Conclusion: FLEX offers wet machines with a choice of two safety devices. Working with the FLEX TT 2602 isolation transformer has its advantages when put to use under extreme situations as well as when operating semi-stationary machines. There are no work interruptions due to the GFCI circuit breaker activating because of heavy mist for example.



Natural stone has its own laws. They call for special experts. Specialists who know how to read the stone. Who by the nuances and shades of the colours in the stone can recognise the unique masterpiece that a completely sculptured piece of work can evolve into. And they know that good work also requires good tools.

For over 80 years FLEX is the competent and innovative partner for working with natural stone. Over this course of time a comprehensive range of machines was developed in close co-operation with experienced stone masons. A product range that sets the standard in every aspect. With such features as robustness and reliability as well as handling, ease of maintenance and – above all – safety of operation under wet conditions.

The long-time competence of FLEX also includes the knowledge that FLEX engineers have about the nature of stone, its characteristics, and its sensitivities. That is why a FLEX machine of course does not damage or soil the valuable “natural stone” raw material, but rather refines it – in a way a steadfast relationship ought to be. So that you can accomplish all-round perfect work.

This is what counts:

FLEX Product quality:

FLEX Development: High tech already during construction

FLEX Components: Top quality with all materials

FLEX Production: No tolerance for tolerances

FLEX Quality control: Toughest field and endurance tests

FLEX Service quality:

FLEX Retailers: Competent advice, training, and local presentations

FLEX Service centre: Puts your FLEX back into top condition

FLEX Repair and spare-parts service: Just a call away

FLEX Warranty processing: Fair treatment with "no questions asked"

FLEX Recycling service: Responsible disposal of old machines and batteries

Wet grinders

LW 1703

306.274



LW 1703 S

308.773



The sensitive FLEX 950 Watt wet stone grinder

Lightweight and easy-to-use with powerful 950 Watts and especially sturdy gears for high torques. With ergonomic shaped grip for safe handling. Caution: For safety reasons, this unit should be operated only in conjunction with the FLEX TT 2602 isolation transformer!

SPECIFICATIONS	LW 1703
Max. disc diameter	115 mm
Speed without load	3500 rpm
Power input	950 Watt
Power output	600 Watt
Weight	2,4 kg

STANDARD EQUIPMENT

1 bail handle	293.709
1 open-ended wrench SW 17	106.461

The sensitive FLEX 950 Watt wet stone grinder with GFCI circuit breaker

Lightweight and easy-to-use with powerful 950 Watts and especially sturdy gears for high torques. With ergonomic shaped grip for safe handling. The GFCI circuit breaker is integrated into the power cord. For optimal flexibility even under mobile use without isolation transformer. Caution: For safety reasons, this unit should be operated only in conjunction with the GFCI operator protection circuit breaker!

SPECIFICATIONS	LW 1703 S
Max. disc diameter	115 mm
Speed without load	3500 rpm
Power input	950 Watt
Power output	600 Watt
Weight	2,4 kg

STANDARD EQUIPMENT

1 bail handle	293.709
1 open-ended wrench SW 17	106.461
1 GFCI operator protection circuit breaker in cord	283.606

ADVANTAGES AT A GLANCE

- Central water supply: for wet grinding of granite and marble
- Quick-action, brass coupling: for 1/2" water hoses
- Tool fixture: M 14
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage
- Carbon holder covers: to protect the carbons from water and dirt
- Transmission: well sized and especially robust

ADDITIONALLY FOR LW 1703

- Contour plug: can be connected only to the isolation transformer

ADDITIONALLY FOR LW 1703 S

- GFCI operator protector circuit breaker: integrated in cord



Wet grinding with Velcro diamond grinding system

Powerful and enduring grinding – even in arches and curves: The FLEX LW 1703 is at home here.



FLEX GFCI operator protection circuit breaker

For electrical safety during wet grinding. Cuts out extremely fast with the required response sensitivity (< 15 milliseconds). It has re-actuation protection at power interruption.

ADVANTAGES AT A GLANCE

- Central water supply: for wet grinding of granite and marble
- Quick-action, brass coupling: for 1/2" water hoses
- Tool fixture: M 14
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

LW 802 VR

258.597



The FLEX wet stone grinder for heavy-duty operation

Boasting 1800 Watts yet quite handy. With a torque that has staying power even under heavy loads. Plus a variable speed control for optimal performance for every task and on any material. With contour plug that can be connected only to the isolation transformer. Caution: For safety reasons, this unit should be operated only in conjunction with the FLEX TT 2602 isolation transformer!

SPECIFICATIONS	LW 802 VR
Max. disc diameter	130 mm
Speed without load	800-2400 rpm
Power input	1800 Watt
Power output	1200 Watt
Weight	4,3 kg

STANDARD EQUIPMENT	
1 bail handle	263.397
1 open-ended wrench SW 17	106.461

Wet grinders

LW 1202

276.375



The FLEX wet stone grinder with FLEX metal composite housing

The 1600 Watt power pack for robust continuous operation on large surfaces. With contour plug that can be connected only to the isolation transformer. Caution: For safety reasons, this unit should be operated only in conjunction with the FLEX TT 2602 isolation transformer!

SPECIFICATIONS	LW 1202
Max. disc diameter	130 mm
Speed without load	1750 rpm
Power input	1600 Watt
Power output	1000 Watt
Weight	5,1 kg

STANDARD EQUIPMENT

1 bail handle	258.639
1 open-ended wrench SW 17	106.461

LW 1202 S

289.000



The FLEX wet stone grinder with FLEX metal composite housing and GFCI circuit breaker

The 1600 Watt wet grinder for more flexibility under mobile conditions. The GFCI operator protection circuit breaker integrated into the power cable allows the grinder to be operated independently from an isolation transformer. Caution: For safety reasons, this unit should be operated only in conjunction with the GFCI operator protection circuit breaker!

SPECIFICATIONS	LW 1202 S
Max. disc diameter	130 mm
Speed without load	1750 rpm
Power input	1600 Watt
Power output	1000 Watt
Weight	5,1 kg

STANDARD EQUIPMENT

1 bail handle	258.639
1 open-ended wrench SW 17	106.461
1 GFCI operator protection circuit breaker in cord	283.606

ADVANTAGES AT A GLANCE

- Central water supply: for wet grinding of granite and marble
- Quick-action, brass coupling: for 1/2" water hoses
- FLEX Metal composite housing: endurance tested and robust
- Tool fixture: M 14
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

ADDITIONALLY FOR LW 1202

- Contour plug: can be connected only to the isolation transformer

ADDITIONALLY FOR LW 1202 S

- GFCI operator protector circuit breaker: integrated in cord



FLEX Metal composite housing

A classic of sandwich construction design by FLEX: A tough, heat-resistant, light aluminium die-cast outer shell. On the inside a highly insulating plastic shell for electrical protection and motor noise reduction. Plus solid brass carbon holders for optimal heat dissipation.



FLEX GFCI operator protection circuit breaker

For electrical safety during wet grinding. Cuts out extremely fast with the required response sensitivity (< 15 milliseconds). It has re-actuation protection at power interruption.

ADVANTAGES AT A GLANCE

- Central water supply: for wet grinding of granite and marble
- Diecast gear head: high-quality and robust, designed especially for wet stone work
- Quick-action, brass coupling: for 1/2" water hoses
- Very sleek and versatile plastic housing that isolates against the cold
- Absolute safety without electrical components
- Most sparing air pressure consumption
- With dead-man's switch: for more safety
- Stable handle with insulating powder coating
- Tool fixture: M 14

PLW 903 ST

331.848



High-performance FLEX pneumatic wet stone grinder

Lightweight, powerful, and reliable. Ideally suited for continuous operation. Air supply and exhaust are combined in one slender wrap hose. The exhaust is blown out to the back, away from the user and the workpiece.

SPECIFICATIONS	PLW 903 ST
Max. disc diameter	115 mm
Speed without load	3000 rpm
Power output at an operating pressure of 6 bar	600 Watt
Working air pressure	6 bar
Air consumption	0,85 m ³ /min
Air-pressure hose with quick-action coupling	10 mm
Weight	2,1 kg

STANDARD EQUIPMENT

1 bail handle	236.934
1 open-ended wrench SW 14	100.102

Wet grinders

WD 10

251.622



TT 2602

252.754



The FLEX pressurized water tank

The 10 liter pressurized water tank is used on construction sites where a water connection is not available. It provides sufficient cooling and rinsing water at an operating pressure of 6 bar and is highly mobile, thanks to the 4 m pressure hose and an empty weight of only 4,5 kg.

SPECIFICATIONS	WD 10
Capacity	10 l
Weight	4,5 kg

STANDARD EQUIPMENT	252.317
4 m pressure hose	

FLEX TT 2602 isolating transformer

According to VDE 0100 hand-held machines operated under wet conditions are required to be connected to a suitable isolating transformer. FLEX machines for wet working conditions are standard equipped with a contour plug that connects to the secondary-side contour socket of the TT 2602 (earth contact in 12-o'clock position). According to regulations it has a permanently installed socket without earthing contact. On the primary side the TT 2602 is equipped with a 4-metre power cable.

SPECIFICATIONS	TT 2602
max. performance up to 45 min.	
non-stop operation	2000 Watt
Size (L x W x H)	210 x 260 x 260 mm
Primary voltage	230 V
Secondary voltage	230 V
Weight	15,2 kg

Diamond grinding/polishing system (wet) for PLW 903 ST and LW 1703/S

Rubber coupling



For all applications where a smooth sanding is required. Adapts itself together with the Velcro backing pad flexibly to the surface of the workpiece. Is screwed on as an adapter between the M14 machine connection and the Velcro backing pad.

QP	Order number
1	240.338

Velcro backing pad (soft)



For secure attachment of the Velcro diamond discs. M 14 connection.

Dimensions in mm	QP	Order number
100 Ø	1	253.814

Dia-Jet Velcro diamond discs wet in a set



kit with 5 discs

Dimensions in mm	Grit	QP	Order number
100 Ø	grit 100 - 1500	5	253.823

Dia-Jet Velcro diamond discs wet (single)



Dimensions in mm	Grit	colour	QP	Order number
100 Ø	grit 60	dark green	1	253.815
100 Ø	grit 100	blue	1	253.816
100 Ø	grit 200	light green	1	253.817
100 Ø	grit 400	yellow	1	253.818
100 Ø	grit 800	orange	1	253.819
100 Ø	grit 1500	red	1	253.820
100 Ø	grit 3000	brown	1	253.821
100 Ø	grit 10000	black	1	253.822

Grinding rings for LW 1202/S, and LW 802 VR

Adapter plate



For grinding rings with quick-action coupling. Thread M14.

Dimensions in mm	QP	Order number
100 Ø	1	126.098

Grinding rings



For plastic, quick-action coupling for backing pads, Order no. 126.098

Dimensions in mm	Grit	QP	Order number
100 Ø	grit 30	1	126.144
100 Ø	grit 60	1	126.152
100 Ø	grit 120	1	126.160



FLEX grinding discs: easily located, easily changed

You don't have to search long when selecting the required grain with the Velcro diamond discs. Thanks to the colour-coded system you can identify the different grains just by their colour. From grinding (dark green – grain 60) up to fine polish (black – grain 10000): The organised grinding disc system always has the right grain on hand. And the practical Velcro attachment allows for speedy exchange.

Dry Grinders

L 3709/125

334.987

NEW



The 800 Watt angle grinder

Extreme slim body design with ergonomic form, light weighted and an excellent price performance ratio.

SPECIFICATIONS	L 3709/125
Max. disc diameter	125 mm
Speed without load	11000 rpm
Power input	800 Watt
Power output	470 Watt
Tool fixture	M 14
Weight	1,8 kg

STANDARD EQUIPMENT

1 side handle	1 piece
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L 3309 FR

296.805



The 1010 Watt FLEX puts power in the disc

This little giant can output around 50% more power than the L 3309, thanks to electronic motor management. In addition to this, FLEX four-fold microprocessor electronic control enables controlled acceleration to suit the particular stress level, stepping on the gas if increased load occurs until the optimum speed is achieved again. Fits perfectly in the hand thanks to the slim, saddle-shaped motor housing and easily-accessible side switch.

SPECIFICATIONS	L 3309 FR
Max. disc diameter	125 mm
Speed without load	11000 rpm
Power input	1010 Watt
Power output	610 Watt
Tool fixture	M 14
Weight	1,9 kg

STANDARD EQUIPMENT

1 guard 125 Ø	294.438
1 SoftVib-Handle	316.857
1 FixTec quick-clamp nut M 14	313.459

ADVANTAGES AT A GLANCE

- Spindle lock: for easy disc changes
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

ADDITIONALLY FOR L 3709/125

- Compact dimensions
- Additional handle for right and left handed use
- Tool-free adjusting of safety guard
- Extensive dust protection for motor and gears
- Flat gearbox of light alloy: reaches into all corners

ADDITIONALLY FOR L 3309 FR

- FLEX four-fold microprocessor electronic control: consistent speed control by tachometer generator, soft start, power interruption safety lockout, overload protection
- FLEX Motor: designed to handle substantial loads with high efficiency thanks to perfect cooling, and air vents aimed to front
- With elastic SoftVib-Handle: greatly reduces the vibration level so the user is subjected to less stress. Also with integrated pin spanner for wrench-free disc changing. It can be fitted on the left or right
- Safety guard: patented, with anti-twisting lock
- Gearbox: particularly flat and robust aluminium diecast construction, accesses all corners
- 4 m power cord: with FLEX red plug



Perfection in the details

The FLEX-red power plug on the 4 m cable shows the way even in a tangle.

Stone working machines

ADVANTAGES AT A GLANCE

- Spindle lock: for easy disc changes
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage
- 4 m power cord

ADDITIONALLY FOR LK 604

- FLEX Motor: designed to handle substantial loads with high efficiency for powerful output, great endurance thanks to perfect cooling
- Flexible sanding pad: included with 170 mm Ø in standard equipment
- Grip cover: extremely sensitive guiding

ADDITIONALLY FOR LG 1707 FR

- FLEX three-fold full-wave electronic control: consistent speed control by tachometer generator, soft start, overload protection
- FLEX Motor: designed to handle substantial loads with high efficiency for powerful output, great endurance thanks to perfect cooling, and air vents aimed to front by additional air-flow baffle
- With elastic SoftVib-Handle: greatly reduces the vibration level so the user is subjected to less stress. Also with integrated pin spanner for wrench-free disc changing. It can be fitted on the left or right

LK 604

250.346



The 1200 Watt FLEX with optimum guiding characteristics

Light, easy to guide and still extremely powerful, that's the robust medium-range grinder from FLEX. It can be operated without a guard when using flexible 170 mm sanding pads. The practical gearbox and slim back handle enable sensitive working and optimum machine guiding.

SPECIFICATIONS	LK 604
Max. disc diameter	175 mm
Speed without load	4000 rpm
Power input	1200 Watt
Power output	720 Watt
Tool fixture	M 14
Weight	3,2 kg

STANDARD EQUIPMENT	
1 side handle	252.721
1 pin wrench	100.110
1 flexible sanding pad 170 Ø + clamping nut M 14	124.079
1 grip cover	253.676

LG 1707 FR

256.131



The light, powerful FLEX Tadpole®

A powerful gearbox at the front and slim and slender rear design. The FLEX Tadpole® only weighs 3100 grams and produces 1500 Watts of enduring power. The three-fold full-wave electronic control ensures consistent speed control, even under extreme loads. It also features soft start and overload protection.

SPECIFICATIONS	LG 1707 FR
Max. disc diameter	180 mm
Speed without load	7500 rpm
Power input	1500 Watt
Power output	1060 Watt
Tool fixture	M 14
Weight	3,1 kg

STANDARD EQUIPMENT	
1 guard 180 Ø	251.481
1 SoftVib-Handle	316.857

Dry Grinders

L 3406 VRG

297.321



The variable 1400 Watt FLEX for the medium speed range

Great staying power, low gear ratio, plus speed selection with adjustment wheel for controlled acceleration to the required speed. This gives you a sensitive polisher on one hand and a powerful grinder in the mid-speed range on the other hand. With special slender ergonomic rear handle for extremely flat approach angles.

SPECIFICATIONS	L 3406 VRG
Max. disc diameter	125 mm
Max. polishing pad diameter	150 mm
Speed without load	2100-7500 rpm
Power input	1400 Watt
Power output	880 Watt
Tool fixture	M 14
Weight	2,2 kg

STANDARD EQUIPMENT	
1 guard 125 Ø	274.658
1 SoftVib-Handle	316.857
1 FixTec quick-clamp nut M 14	313.459

LG 1704 VR

293.768



The 1500 Watt FLEX for heavy-duty grinding jobs

Its robust power is optimally balanced so that it can be superbly controlled. The motor can handle heavy loads and provides the spindle with enormous torque through the well-sized transmission. The right power for low- and mid-speed jobs using all types of grinding tools.

SPECIFICATIONS	LG 1704 VR
Max. disc diameter	178 mm
Speed without load	1400-4200 rpm
Power input	1500 Watt
Power output	1000 Watt
Weight	2,7 kg

STANDARD EQUIPMENT	
1 grip cover	253.676
1 side handle	252.721

ADVANTAGES AT A GLANCE

- Spindle lock: for easy disc changes
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

ADDITIONALLY FOR L 3406 VRG

- FLEX Six-fold microprocessor electronics: Speed selection, consistent speed control by tachometer generator, soft start, restart protection after power interruption, overload protection, and temperature monitoring
- FLEX Motor: designed to handle substantial loads with highest efficiency for powerful output, great endurance thanks to perfect cooling, and air vents aimed to front
- With elastic SoftVib-Handle: greatly reduces the vibration level so the user is subjected to less stress. Also with integrated pin spanner for wrench-free disc changing. It can be fitted on the left or right
- Quick-change guard for universal adjustment. Safety groove prevents the guard from slipping off
- Switch: with lock-off / lock-on switch
- Gearbox: particularly flat and robust aluminium die-cast construction, accesses all corners
- 4 m power cord: with FLEX red plug

ADDITIONALLY FOR LG 1704 VR

- FLEX four-fold full-wave electronics: with speed selection and consistent speed control, soft start, overload protection.



Stone working machines

ADVANTAGES AT A GLANCE

- FLEX Motor: designed to handle substantial loads with high efficiency for powerful output, great endurance thanks to perfect cooling, and air vents aimed to front
- Electrical surge protection: for a soft start without power overloading
- Quick-release guard: tool-free adjustment
- Spindle lock: for easy disc changes
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage
- 4 m power cord

ADDITIONALLY FOR L 2106 VC

- FLEX Metal composite housing: endurance tested and robust
- Additional handle: can be used in 3 positions
- Switch: with lock-off / lock-on switch
- Carbon brush holders: particularly large, solid brass for rapid thermal dissipation

ADDITIONALLY FOR L 3206 CD

- FLEX Multi-Grip-System with Vibration damping: front Soft-Vib hand grip can be adjusted in steps up to 180°. With safety locking. The back anti vibration handle can be adjusted 2 x 90° for cutting left and right handed.
- With elastic SoftVib-Handle: greatly reduces the vibration level so the user is subjected to less stress
- Gearbox: particularly flat and robust aluminium die-cast construction
- 3 point rest: Safe resting for your FLEX

L 2106 VC

259.017



The classic 2000 Watt FLEX for cutting, roughing and grinding

With 6000 rpm it's perfect for all jobs with 230-grit discs on metal and concrete. Its heat-resistant FLEX metal composite housing guarantees an additional cooling effect by improved heat exchange, even after switching off the machine. Plus it withstands the greatest loads.

SPECIFICATIONS	L 2106 VC
Max. disc diameter	230 mm
Speed without load	6000 rpm
Power input	2000 Watt
Power output	1400 Watt
Tool fixture	M 14
Weight	6,1 kg

STANDARD EQUIPMENT	
1 guard 230 Ø	265.179
1 side handle	193.356
1 pin wrench	100.110

L 3206 CD

322.717



The FLEX Red Bear: cutting and grinding made easy

Strong as a Bear 2500 Watt continuous power by 6500 rpm: steel, welding seams and concrete do not stand a chance, because with tough jobs perfect ergonomics are what counts, the RedBear is fitted with the FLEX Multi-Grip and vibration damping system. The side SoftVib Hand grip and the elastic jointed rear handle allows for greatly reduced vibration and more comfortable working, its weight is perfectly balanced.

SPECIFICATIONS	L 3206 CD
Max. disc diameter	230 mm
Speed without load	6500 rpm
Power input	2500 Watt
Power output	1700 Watt
Tool fixture	M 14
Weight	6,2 kg

STANDARD EQUIPMENT	
1 guard 230 Ø	265.179
1 SoftVib-Handle	325.376
1 pin wrench	100.110

Polishing machines

L 3403 VRG

299.278



The light-weight FLEX polishing machine with accelerator trigger switch for sanding and polishing

Slim stick handle, high torque motor, light weight, and a practical bail handle. That is how to polish easily and effortlessly in every job. The accelerator trigger switch and speed selection allow for a controlled acceleration to the optimal mixing speed.

SPECIFICATIONS	L 3403 VRG
Max. polishing pad diameter	160 mm
Max. back-up pad diameter	160 mm
Speed without load	1100-3700 rpm
Power input	1400 Watt
Power output	880 Watt
Tool fixture	M 14
Weight	2,2 kg

STANDARD EQUIPMENT

1 bail handle	298.506
1 side handle	252.721

LK 602 VR

258.580



The powerful polisher with grip hood for natural stone work

The motor and from solid steel milled crown wheel are designed to hold up to especially high stresses and torque. Ideal for cleaning, conserving, polishing, and maintaining natural stone floors. Able to handle substantial loads because of its perfect cooling.

SPECIFICATIONS	LK 602 VR
Max. polishing pad diameter	220 mm
Max. back-up pad diameter	160 mm
Speed without load	800-2400 rpm
Power input	1500 Watt
Power output	1000 Watt
Tool fixture	M 14
Weight	3,5 kg

STANDARD EQUIPMENT

1 grip cover	259.508
1 side handle	252.721

ADVANTAGES AT A GLANCE

- Spindle lock: for easy disc changes
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

ADDITIONALLY FOR L 3403 VRG

- FLEX seven-fold microprocessor electronics: with consistent speed control by tachometer generator, soft start, accelerator trigger switch, restart protection after power interruption, overload protection, temperature monitoring, and speed selection
- High-powered motor: can handle extreme loads
- Bail handle
- 4 m power cord: with FLEX red plug

ADDITIONALLY FOR LK 602 VR

- FLEX four-fold VR electronics: with consistent speed control by tachometer generator, soft start with accelerator trigger switch, overload protection, and speed selection
- Grip cover: extremely sensitive guiding
- Integrated air deflection: protects against dust
- Grip hood: detachable
- Padded rest: for secure deposit



From grinding up to fine polish with FLEX diamond pads

FLEX carries an extensive selection of Velcro diamond discs in 8 grains as part of its range of accessories.

ADVANTAGES AT A GLANCE

- High-powered motor: can handle extreme loads
- Reduction gears: for low speed and high torque
- FLEX Metal composite housing: endurance tested and robust

L 1202

278.688



The FLEX marathon polishing machine with metal composite housing

Very high torque, low speed and solid 1600 Watt for toughest non-stop operation with large polishing discs during brushing, polishing, and buffering wood and stainless steel.

SPECIFICATIONS	L 1202
Max. polishing pad diameter	250 mm
Max. back-up pad diameter	175 mm
Speed without load	1750 rpm
Power input	1600 Watt
Power output	1100 Watt
Tool fixture	M 14
Weight	5,1 kg

STANDARD EQUIPMENT	
1 side handle	193.356
1 hand guard	253.618
1 handle	253.510

Quality accessories dry grinders

	Dimensions in mm	QP	Order number	L 3709/125	L 3309 FR	LK 604	LG 1707 FR	L 3406 VGR	LG 1704 VR	L2106 VC	L3206 CD
Cutting stones with diamond discs and dust extraction											
125 mm cutting guard											
 with guide block and 32 mm Ø extraction nozzle for cutting discs with 125 mm Ø for flange with groove	125 Ø	1	283.533	-	-	-	-	■	-	-	-
230 mm cutting guard											
 for drawing and pressure cuts with vacuum set and adjustable support, extraction nozzle with 32 mm outer Ø, collar Ø 62 mm, cut depth 65 mm max., for flange without groove	230 Ø	1	252.963	-	-	-	-	-	-	■	■
Quick-clamp nut											
FixTec quick clamp nut M 14											
 for tool-free tool changes, approved for discs up to 150 mm Ø		1	313.459	■	■	-	-	■	-	-	-
SDS-Clic quick-clamp nut											
		1	253.049	■	■	■	■	■	■	■	■
Carrying case											
Small metal carrying case											
 for all angle grinders with disc Ø up to 125 mm		1	303.224	■	■	-	-	■	-	-	-
Plastic multi-carrying case											
 Perfect fitting, impact resistant carrying case, universally adaptable for many different FLEX-machines		1	329.908	-	-	-	-	-	-	■	■

Diamond grinding/polishing system (dry) for L 3406 VRG and L 3403 VRG

Rubber coupling



For all applications where a smooth sanding is required. Adapts itself together with the Velcro backing pad flexibly to the surface of the workpiece. Is screwed on as an adapter between the M14 machine connection and the Velcro backing pad.

	QP	Order number
	1	240.338

Velcro backing pad (soft)



For secure attachment of the Velcro diamond discs. M 14 connection.

Dimensions in mm	QP	Order number
100 Ø	1	253.814

Dry-Jet Velcro diamond discs dry in a set



with 8 discs for sanding and polishing

Dimensions in mm	Grit	QP	Order number
100 Ø	grit 60 - 10000	8	304.336

Dry-Jet Velcro diamond discs dry (single)



Dimensions in mm	Grit	colour	QP	Order number
100 Ø	grit 60	dark green	1	304.239
100 Ø	grit 100	blue	1	304.247
100 Ø	grit 200	light green	1	304.255
100 Ø	grit 400	yellow	1	304.263
100 Ø	grit 800	orange	1	304.271
100 Ø	grit 1500	red	1	304.298
100 Ø	grit 3000	brown	1	304.301
100 Ø	grit 10000	black	1	304.328

Felt pads, buffers, and fleeces for L 3403 VRG, LK 602 VR, and L 1202

Backed fleece



Fiber backing with M 14 threaded flange, for removing scratches in glass and acrylics

Dimensions in mm	QP	Order number
125 Ø	1	122.726
175 Ø	1	122.734

Spare fleece



with fiber backing

Dimensions in mm	QP	Order number
125 Ø	1	122.742
175 Ø	1	122.750

Molleton buffing wheel



Dimensions in mm	QP	Order number
125 Ø	1	123.749

Velcro pad



Soft and pliable for uniform pressure distribution, universal applications for holding polishing accessories, with centering hole and centering tube, adapter M 14

Dimensions in mm	QP	Order number
125 Ø	1	258.705
160 Ø	1	252.583

Velcro wool pad



Centering hole, inner diameter 22 mm.

Dimensions in mm	QP	Order number
150 Ø	1	258.704
200 Ø	1	252.278

Velcro lambswool pad



Dimensions in mm	QP	Order number
120 Ø	10	230.626

Bushhammers

LST 1503 VR

259.229



The small FLEX bushhammer for stairs

60 aggressive hard-metal tips of the machine take care of the job quickly and with precision. The rotating bushhammer with the hard-metal discs is born by rubber shock absorbers which reduces vibration and is easy on your joints. The machine can be expertly guided by the grip hood.

SPECIFICATIONS	LST 1503 VR
Speed without load	800-2400 rpm
Power input	1200 Watt
Power output	700 Watt
Working width	40-92 mm
Weight	5,9 kg

STANDARD EQUIPMENT

1 grip cover	253.676
1 stop, complete	259.193
1 carbide tipped complete 100 Ø	261.653
1 hexagon socket screw key, special tool 5	115.460
1 pin wrench	100.110

LST 803 VR

259.639



The big FLEX bushhammer for stairways and larger surfaces

80 rubber-born hard-metal tips make this big one the fast tool for roughening up natural stone floors. Since the applied pressure is put right from the grip hood onto the tool head below it, the machine rests perfectly in your hand while under full power.

SPECIFICATIONS	LST 803 VR
Speed without load	800-2400 rpm
Power input	1800 Watt
Power output	1200 Watt
Working width	55-130 mm
Weight	7,2 kg

STANDARD EQUIPMENT

1 grip cover	253.676
1 stop, complete	259.193
1 carbide tipped complete 140 Ø	261.654
1 hexagon socket screw key, special tool 5	115.460
1 pin wrench	100.110

ADVANTAGES AT A GLANCE

- FLEX four-fold full-wave electronics: with speed selection and consistent speed control, soft start, overload protection.
- Stop: stepless adjustable for precise work
- Dust extraction: for use even in occupied buildings
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

ADDITIONALLY FOR LST 1503 VR

- Working width adjustable: 3 stages from about 40 mm up to about 92 mm.

ADDITIONALLY FOR LST 803 VR

- Working width adjustable: 7 stages from about 55 mm to about 130 mm.



Bushhammering prevents slippage

Smooth natural stone floors can turn into slippery danger zones in wet weather. Roughening helps alleviate this problem and ensures better traction. In the past this was difficult once the natural stone slabs had been set. But with the FLEX bushhammers this job is taken care of in just a few minutes even on the hardest granite surfaces.

Accessories for FLEX bushhammers

Spare HM discs:
for LST 1503 VR: 6 pieces,
Order no. 259.833;
for LST 803 VR: 8 pieces,
Order no. 259.834;
Spare mounting with 2 HM wheels
for LST 1503 VR and LST 803 VR:
Order no. 260.576

ADVANTAGES AT A GLANCE

- FLEX four-fold full-wave electronics: with speed selection and consistent speed control, soft start, overload protection.
- Aluminum guide carriage: with plastic balls for easy control, corrosion-protected
- GFCI operator protector circuit breaker: integrated in cord
- Quick-action, brass coupling: for 1/2" water hoses
- Tool fixture: G 1/2"
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

ADDITIONALLY FOR LWW 2106 VR

- FLEX Metal composite housing: endurance tested and robust



FLEX Quality Accessories for Edge Milling

Galvanised and sintered diamond bits for soft and hard stone are available upon request from FLEX. Available for various profiles and slab thickness.

LWW 1506 VR

255.121



The versatile FLEX edge milling tool for marble and granite

1200 Watt strong, mobile, and precise. The ideal combination for milling and grinding sinks, kitchen tops, counters, and tables. The rotating contact ring on the diamond profile tool enables accurate profiles to be made without any aiding constructions. For use on both straight and curved edges. Caution: For safety reasons, this unit should be operated only in conjunction with the GFCI operator protection circuit breaker!

SPECIFICATIONS	LWW 1506 VR
Speed without load	2000-6500 rpm
For slab thickness	20-30 mm
Power input	1200 Watt
Power output	700 Watt
Weight	6,0 kg

STANDARD EQUIPMENT

1 open-ended wrench SW 24	198.781
1 splash guard	257.456
1 GFCI operator protection circuit breaker in cord	257.373

LWW 2106 VR

253.705



The powerful FLEX edge milling tool for granite

2200 Watt gives the big two-hand milling tool all the power it needs to tackle the toughest jobs profiling granite plates. Thanks to well-balanced ergonomics and the easy glide of the plastic balls in the aluminium guide carriage the machine is easily controlled. This allows the pressure and advance to be optimally adapted to the material. Caution: For safety reasons, this unit should be operated only in conjunction with the GFCI operator protection circuit breaker!

SPECIFICATIONS	LWW 2106 VR
Speed without load	1800-5500 rpm
For slab thickness	20-40 mm
Power input	2200 Watt
Power output	1540 Watt
Weight	13,7 kg

STANDARD EQUIPMENT

1 hexagon socket screw key, special tool 8	256.742
1 open-ended wrench SW 32	251.475
1 splash guard	257.226
1 guide carriage	256.005
1 GFCI operator protection circuit breaker in cord	257.373

Stone cutter



Precise wet cuts through natural and man-made stone

Marble, granite or exposed aggregate panels are cut precisely with the edge guide. Diamond masonry cutter CSW 4160



Renew grouting/joints quickly and neatly

The solution to the problem: mill out damaged joints without residues using suction - reseal - finished.



Perfect tool for perfect results

The new Diamantjet-V cutting disc ensures that work progresses rapidly: Order no. 309.974.

CSW 4160

311.154



The diamond masonry cutter for wet cutting natural and man-made stone

For cuts through natural and artificial stone slabs up to 55 mm thick: for windowsills, worktops, facing tiles, terrazzo tiles in landscaping, and much more. Ideal as well for renewing joints in tiled flooring.

SPECIFICATIONS	CSW 4160
Diamond disc Ø	180 mm
Saw blade drill Ø	22 mm
Max. cutting depth (45°)	0-40 mm
Max. cutting depth (90°)	0-55 mm
Speed without load	5800 rpm
Power input	1600 Watt
Power output	850 Watt
Weight	5,3 kg

STANDARD EQUIPMENT	
1 parallel stop	309.273
1 wrench for saw blade change	878.391
1 Diamantjet-V cutting disc (180 x 22,2 mm)	309.974
1 Velcro fleece support for guide foot	310.093
1 plastic carrying case	1 piece
1 GFCI operator protection circuit breaker in cord	283.606

ADVANTAGES AT A GLANCE

- 1600 Watt high-power motor: extra strong, for cutting stone, and milling joints
- Water supply: for an effective cooling of the diamond tool
- Quick-action, brass coupling: for 1/2" water hoses
- GFCI operator protector circuit breaker: integrated in cord
- Spindle lock: for easy diamond disc changes
- Tilting foot: for bevel cutting capacity 0° - 45°, tool-free adjustable
- Aluminium wheel guard with vacuum connection 25 mm Ø: to suck off saw sludge using the FLEX vacuum S 36, S 47
- Heavy-duty carrying case



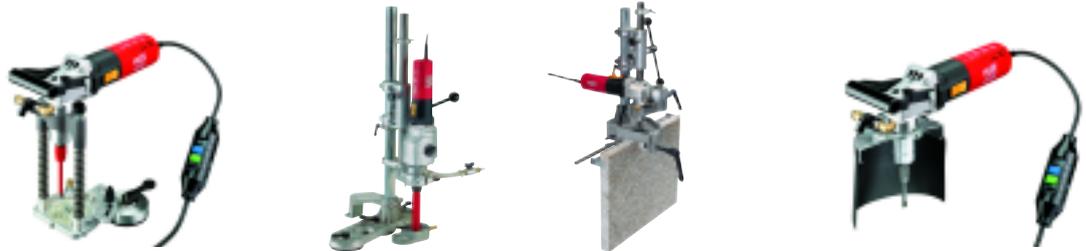
Cleaner, healthier, and safer working

Use diamond wet masonry saw best together with the FLEX dry/wet vacuum S 36, S 36 M or S 47. Efficiently removes saw sludge.

System overview: Core drill units | Blind hole drills

Core drill units

Blind hole drills



UNIT

BED 18
290.300

BED 55
257.081

BED 69
254.175

MACHINE

BHW 1549 VR
304.026

BSW 1513 VR
256.666

BSW 1549 VR
299.189

BHW 1549 VR
299.197

STANDS

BD 18
290.343

BD 05
254.436

BD 06
254.186

ACCES-
SORIES

G 1/2" drill bits, wet
for concrete and natural stone
see page 25

Diamond blind hole drill from
5-10 mm Ø | see page 25

Hollow diamond drill bit from
6-14 mm Ø | see page 25

Vacuum hose
255.505

Adapter for vacuum extraction
255.507

S 36 Dry/wet vacuum cleaner
297.003 | see page 40

WD 10 Portable pressurised water
tank | 251.622 | see page 8

Included with standard equipment

Core drilling machines

BH 612 VR

333.255



BHW 812 VV

277.940



The robust compact core drilling machine for dry drilling

The newest entry in the FLEX dry drilling system can drill up to 120 mm into walls without hammering, thanks to its proven gear technology. Accessories broaden the use of the basic model - customised for electrical installation, for example. This facilitates dust-free work and faster progress.

SPECIFICATIONS	BH 612 VR
Power input	1500 Watt
Power output	1000 Watt
Machine connection	5/8"-16 UN
Speed under load 1st/2nd gear	0-1000 / 0-2500 rpm
Nominal torque 1st/2nd gear	9,5 / 3,8 Nm
Max. drilling Ø masonry	120 mm
Weight	4,1 kg

STANDARD EQUIPMENT

1 handle	257.580
1 open-ended wrench SW 22	109.398
1 drill depth stop	251.047
1 clamp fitting with ratchet clip	259.490
1 plastic carrying case	329.908

The handy FLEX core drilling machine for wet drilling

The wet version of this handy machine is designed for drilling concrete (without hammer action) for distributor boxes, fireplace connections, junction boxes and conduits. Also ideally suited for precision drilling when securing heavy-load anchors.

SPECIFICATIONS	BHW 812 VV
Power input	1800 Watt
Power output	1200 Watt
Speed under load 1st/2nd gear	0-1000 / 0-3800 rpm
Tool fixture	G 1/2"
Clamping neck Ø	53 mm
Max. drill hole Ø in concrete	85 mm
Max. drilling Ø masonry	185 mm
Weight	4,7 kg

STANDARD EQUIPMENT

1 handle	257.580
1 open-ended wrench SW 22	109.398
1 open-ended wrench SW 32	251.475
1 wrench case	258.523
1 drill depth stop	251.047
1 clamp fitting with ratchet clip and centering aid	259.491
1 GFCI operator protection circuit breaker in cord	257.373
1 plastic carrying case	329.908

ADVANTAGES AT A GLANCE

- Two-gear transmission: for speed-compatible working
- Additional handle: rotating auxiliary handle with stops to prevent turning
- Safety slip clutch: offers protection if the core drill is jammed
- Depth limit gauge: for precision drilling
- Clamping neck: 53 mm, suitable for application in drilling stands
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

ADDITIONALLY FOR BH 612 VR

- FLEX seven-fold microprocessor electronics: with consistent speed control by tachometer generator, soft start, accelerator trigger switch, restart protection after power interruption, overload protection, temperature monitoring, and speed selection
- Machine connection: 5/8"-16 UN

ADDITIONALLY FOR BHW 812 VV

- FLEX five-fold VV electronic control: consistent speed control, soft start with acceleration trigger, overload protection, temperature monitoring and speed pre-selection
- Drill bit adapter: G 1/2" (internal)
- Water supply: integrated, water collection ring available as accessory
- GFCI operator protector circuit breaker: integrated in cord



Free hand core drilling in concrete with the BHW 812 VV

In connection with the FLEX industrial vacuum cleaner and the pressurised water tank WD 10, three finely attuned components function together perfectly. The non-hammering core drilling method allows for precise and fast drilling even in reinforced concrete.

ADVANTAGES AT A GLANCE

- FLEX triple VR electronics: with consistent speed control by tachometer generator, overload protection, and speed selection
- Quick-action, brass coupling: for 1/2" water hoses
- GFCI operator protector circuit breaker: integrated in cord
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

ADDITIONALLY FOR BHW 1549 VR

- Tool fixture: M 14 for 5-10 mm Ø diamond blind hole drills

ADDITIONALLY FOR BED 18

- Stationary drill stand: with precision column guide
- Suction cup and vacuum: for fixing to smooth surfaces
- Adapter for vacuum extraction
- Tool fixture: M 14 for hollow diamond drills 6-14 mm Ø



Anchor drilling exactly at right angles

Light weight, play-free guiding, vacuum fixation: best prerequisites for precise work.

BHW 1549 VR

299.197



The FLEX blind hole drill with integrated water supply

The water supply is integrated into the gearbox of this drill. This cools the diamond drill bit optimally and flushes away the drilling sludge. Perfect holes can be drilled in concrete and stone in next to no time. Tilting is avoided, thanks to the low structural silhouette. It can also be used with the FLEX pressurised water tank.

SPECIFICATIONS	BHW 1549 VR
Power input	1200 Watt
Power output	700 Watt
Speed under load	3000-9000 rpm
Speed without load	3500-10000 rpm
Tool fixture	M 14
Diamond drill Ø	5-10 mm
Weight	3,3 kg

STANDARD EQUIPMENT

1 bail handle	236.934
1 open-ended wrench SW 17	106.461
1 splash guard	255.171
1 GFCI operator protection circuit breaker in cord	257.373
1 metal carrying case	273.686

BED 18

290.300



The light FLEX anchor drilling unit with integrated water supply

Exemplary light weight and a play-free column guide of the stationary drill stand ensure precision right-angled drilling results. **Ideal for hard, brittle material**, such as natural stone tiles, fine stoneware tiles, concrete, rock, or masonry. Swivelling vacuum fixing keeps the drill from slipping and thus prevents scratching of sensitive surfaces. Precision drilling is guaranteed by positioning the unit with the crosshairs. Extraction of the drilling sludge is taken care of by the FLEX industrial vacuum cleaner. It also creates extra suction for the vacuum fixation of the stationary drill stand.

SPECIFICATIONS	BED 18
Power input	1200 Watt
Power output	700 Watt
Speed without load	3500-10000 rpm
Tool fixture	M 14
Diamond drill Ø	6-14 mm
Weight	4,1 kg

STANDARD EQUIPMENT

1 suction cup	292.052
1 bail handle	236.934
1 stationary drill stand with column guide	290.343
1 vacuum hose connection	255.507
1 sharpening stone	1 piece
1 GFCI operator protection circuit breaker in cord	257.373
1 metal carrying case	293.008

Core drilling units

BED 55

257.081



The FLEX core drilling unit for confined areas

The slim, stable drill stand, lateral supports and long feed column are characteristic of this drilling unit, enabling drilling of the next higher step from a lower one. Swivelling the feed column enables drilling in corners and recesses on banisters, gravestones and baths. Drilling speed can be adapted to any bit diameter (12-85 mm) thanks to mechanical 3-speed gearing and VR full-wave electronic control.

SPECIFICATIONS	BED 55
Power input	1200 Watt
Power output	700 Watt
Speed under load	350-1000 / 800-2300 /
1st/2nd/3rd gear	1600-4600 rpm
Tool fixture	G 1/2"
Diamond drill bit Ø	12-85 mm
Surface area occupied by stand	420 x 120 mm
Weight (complete unit)	17,2 kg

STANDARD EQUIPMENT

Water collection up to 50 mm Ø	256.370
1 GFCI operator protection circuit breaker in cord	256.790
Stationary drill stand BD 05	254.436

BED 69

254.175



The FLEX core drilling unit for drilling edges in facing slabs

The drilling unit consists of the BSW 1549 VR drilling machine permanently mounted on the stable BD 06 stationary drill stand. Speed range is designed for diamond blind hole drills and drill bits with a diameter of 6 to 14 mm. The drills are screwed directly onto the machine, prevent twisting and enabling precise drilling at right angles.

SPECIFICATIONS	BED 69
Power input	1200 Watt
Power output	700 Watt
Speed under load	3000-9000 rpm
Speed without load	3500-10000 rpm
Tool fixture	M 14
Diamond drill bit Ø	5-14 mm
Weight (complete unit)	15,5 kg

STANDARD EQUIPMENT

1 GFCI operator protection circuit breaker in cord	257.373
Stationary drill stand BD 06	254.186

ADVANTAGES AT A GLANCE

- FLEX triple VR electronics: with consistent speed control by tachometer generator, overload protection, and speed selection
- Integrated water supply: through the gear head
- GFCI operator protector circuit breaker: integrated in cord
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

ADDITIONALLY FOR BED 55

- Stationary drill stand: with precision column guide, drill stroke up to 300 mm
- Water collector with suction cup: for collecting water, even on stairs
- Drill bit connection: G 1/2"
- Safety slip clutch: offers protection if the core drill is jammed

ADDITIONALLY FOR BED 69

- Clamping device: for slab thickness from 20 to 50 mm, with 2 adjustable stops (60/60 cm)
- Tool fixture: M 14



BED 55: Pick up water even on stairs

Fasten the water collector with suction cup up to approx. 50 mm Ø in drilling position, position feed column with drill bit over the water collector, extract water.

Wet core drill bits for the BHW 812 VV and BED 55

Diamond drill bits for marble and granite



wet, G 1/2", external thread, effective length 100 mm, continuous segments for 12-15 mm Ø, divided segments for 18-65 mm Ø

Diameter in mm	QP	Order number
12 Ø	1	254.563
14 Ø	1	254.564
15 Ø	1	258.753
25 Ø	1	254.567
30 Ø	1	254.566
42 Ø	1	254.882
45 Ø	1	258.755

Diamond core drill bits for concrete



wet, G 1/2", external thread, effective length 300 mm

Diameter in mm	QP	Order number
42 Ø	1	258.769
52 Ø	1	258.770
61 Ø	1	252.594



wet, G 1/2", external thread, effective length 400 mm

Diameter in mm	QP	Order number
40 Ø	1	252.592

Wet drills for the BHW 1549 VR, and BED 69

Diamond blind hole drill bit



M 14, wet, for natural stone

D in mm	T in mm	QP	Order number
5 Ø	25	1	250.491
6 Ø	50	1	250.492
8 Ø	50	1	250.493
10 Ø	50	1	250.494

Wet drills for the BED 18

Hollow diamond drill bit



M 14, wet, for natural stone and fine stoneware tiles

D in mm	T in mm	QP	Order number
6 Ø	65	1	315.052
8 Ø	80	1	315.060
10 Ø	95	1	315.079
12 Ø	105	1	315.087
14 Ø	115	1	315.095

Sharpening stone for diamond tools

Sharpening stone for diamond tools



Dimensions in mm	QP	Order number
320 x 160 x 30	1	251.756

Renovation sanders

LD 1709 FR

256.486



LD 3206 C

303.798



The FLEX diamond renovation sander for surfaces

This renovation sander removes layers and concrete slurry coatings really quickly, thanks to the FLEX Thermojet Super diamond grinding pads. It does not rasp or jump, making it ideally suitable for both precision work and large surface removal. The effective turbo vacuum attachment prevents concrete pore clogging. Smearing and sticking is avoided. The surface underground structure is improved during grinding and work accomplished twice as quickly. The innovative dust evacuation guard with a detachable flexible brush ring permits to grind right up to the wall.

The big FLEX renovation sander for surfaces

This renovation sander removes layers and concrete slurry coatings really quickly, thanks to the FLEX Thermojet Super diamond grinding pads. It does not rasp or jump, making it ideally suitable for both precision work and large surface removal. The effective turbo vacuum attachment prevents concrete pore clogging. Smearing and sticking is avoided. The surface underground structure is improved during grinding and work accomplished twice as quickly. The innovative dust evacuation guard with a detachable flexible brush ring permits to grind right up to the wall.

SPECIFICATIONS	LD 1709 FR
Disc Ø	125 mm
Speed without load	10000 rpm
Power input	1400 Watt
Power output	950 Watt
Tool fixture	M 14
Weight	2,9 kg

SPECIFICATIONS	LD 3206 C
Disc Ø	180 mm
Speed without load	6500 rpm
Power input	2500 Watt
Power output	1700 Watt
Tool fixture	M 14
Weight	7,6 kg

STANDARD EQUIPMENT

Thermojet Super 125 Ø	304.727
Clamping nut	100.080
Clamping flange SW 14	191.612
Guard	254.213
Bail handle	236.934
Cable clip	252.188 (3x)
Hose clip	252.050
Vacuum ring	257.246
1 hexagon socket screw key, special tool 4	102.229
Wrench holder	233.943
1 pin wrench	107.492
1 metal carrying case	306.207

STANDARD EQUIPMENT

Thermojet Super 180 Ø	303.461
Clamping nut	100.080
Clamping flange SW 17	191.604
Guard	258.625
Bail handle	302.708
Cable clip	302.538 (3x)
Vacuum ring	258.626
1 hexagon socket screw key, special tool 6	256.832
1 pin wrench	100.110
1 pin spanner	258.629
1 plastic carrying case	329.908

ADVANTAGES AT A GLANCE

- Vacuum dust collection: protects against abrasive dust, reduces disc wear, keeps concrete pores for the new coat open
- Flexible rubber vacuum ring: moves smoothly over the surface and protects against dust and stones flying out
- Vacuum attachment: 32 mm exterior Ø
- Spindle lock: for easy disc changes
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

ADDITIONALLY FOR LD 1709 FR

- FLEX four-fold FR electronic control: with consistent speed control by tachometer generator, soft start, overload protection and temperature monitoring



The durable alternative to the brush ring

Rubber extraction ring with reinforcing steel ring. Because of the rubber it is still flexible for recoil-free gliding and for evening out the wear of the grinding disc.

Auxiliary machines for the stone industry

ADVANTAGES AT A GLANCE

- FLEX four-fold FR electronic control: with consistent speed control by tachometer generator, soft start, overload protection and temperature monitoring
- Vacuum dust collection: protects against abrasive dust, reduces disc wear, keeps concrete pores for the new coat open
- Spindle lock: for easy disc changes
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage
- Protective guard: removable edge segment for close wall grinding
- Vacuum attachment: 32 mm interior Ø (suitable for universal adapter 259.827)

LDB 1709 FR

305.014



The FLEX diamond renovation sander for close wall grinding

Using the FLEX Thermojet Super diamond backing pads this renovation sander removes all coatings and cement slurry coatings super fast. And since it neither grates nor skips it is suitable for punctiform jobs as well as for milling larger surfaces. The effective turbo dust extraction prevents the clogging of concrete pores. Nothing smears - nothing sticks. Thus you refine the base already when you are sanding it off, doing two jobs in one. The new type of extraction hood with flexible, removable brush ring makes it possible to sand right up to the wall when a segment is removed.

SPECIFICATIONS	LDB 1709 FR
Disc Ø	125 mm
Speed without load	10000 rpm
Power input	1400 Watt
Power output	950 Watt
Tool fixture	M 14
Weight	2,9 kg

STANDARD EQUIPMENT

Thermojet Super 125 Ø	304.727
Clamping nut	100.080
Disc guard with removable edge segment	305.235
Bail handle	236.934
Cable clip	252.188 (3x)
Hose clip	252.050
1 hexagon socket screw key, special tool 2.5	162.531
Wrench holder	233.943
1 pin wrench	107.492
1 metal carrying case	306.207



Right up to the wall

The disc guard of the LDB 1709 FR with removable edge segment makes it possible to grind right up to the wall.



Disc guard with removable edge segment

Extractor hood for edge-free grinding also separately available as upgrade set for renovation sander LD 1709 FR. (part no. 305.235)

Quality accessories for renovation sanders

		Dimensions in mm			QP	Order number	LD 1709 FR	LDB 1709 FR	LD 3206 C								
Accessories for renovation sanders LD 1709 FR, LDB 1709 FR and LD 3206 C																	
Dry grinding diamond cups																	
	Thermojet Super for surface grinding on thermo-plastic layers, coated sidewalk plates, for balcony and concrete renovation. The ingenious backing pad with the angled diamond segments in double rows ensure a roughly 30% faster work progress as compared to conventional backing pads. Thanks to the high number of specially shaped segments and the oval and patented turbo extraction bore holes (on the 125 pad) an ultra-strong air suction is created. It extracts the aggressive swarf, prevents the plugging and overheating of the segments and reduces the wear. No pre-sanding necessary. Calm, reduced-vibration operation due to precise balancing. No hooking on rough surfaces. Not suited for working on edges.	125 Ø			1	304.727	■	■	-	-	-	-	-	-	-	-	-
		180 Ø			1	303.461	-	-	■	-	-	-	-	-	-	-	-
	Screed Jet for levelling screed. Accessory for the FLEX cement grinder for levelling and removing screed. For sanding down sandstone. Fast work because of strong diamond segments that are embedded in rip-proof elastic support linings.	125 Ø			1	252.452	■	■	-	-	-	-	-	-	-	-	-
		180 Ø			1	259.248	-	-	■	-	-	-	-	-	-	-	-
	Concrete Jet for surface grinding cement. The strong diamond segments are embedded in rip-proof elastic support linings. For extended service life and reduced vibration run.	125 Ø			1	258.637	■	■	-	-	-	-	-	-	-	-	-
Rubber extraction rings																	
	The flexible rubber vacuum ring moves smoothly over the surface and provides optimum protection against dust and stones flying out.	125 Ø			1	257.246	■	-	-	-	-	-	-	-	-	-	-
		180 Ø			1	258.626	-	-	■	-	-	-	-	-	-	-	-
Disc guard with removable edge segment																	
	Retrofitting kit, consisting of a protective guard with removable edge segment and special clamping flange SW 14 (Order no. 305.022).	125 Ø			1	305.235	■	-	-	-	-	-	-	-	-	-	-
Plastic multi-carrying case																	
	Perfect fitting, impact resistant carrying case, universally adaptable for many different FLEX-machines				1	329.908	-	-	■	-	-	-	-	-	-	-	-

ADVANTAGES AT A GLANCE

- FLEX Metal composite housing: endurance tested and robust
- Plastic grip cover: for a firm hold at high speeds and extreme torque

H 1206

202.754



Low-speed FLEX straight grinder

The big power puts a high torque onto the sanding discs. So that it takes off fast that what should be sanded off. Especially practical: the plastic grip hood for secure handling in any situation.

FLEX Metal composite housing

A classic of sandwich construction design by FLEX: A tough, heat-resistant, light aluminium die-cast outer shell. On the inside a highly insulating plastic shell for electrical protection and motor noise reduction. Plus solid brass carbon holders for optimal heat dissipation.

SPECIFICATIONS	H 1206
Max. disc diameter resin/ceramic up to	150 mm
Tool fixture	M 20
Speed without load	5700 rpm
Power input	1600 Watt
Power output	1040 Watt
Weight	5,4 kg

STANDARD EQUIPMENT	
1 guard	121.878
2 clamping discs	110.299
1 open-ended wrench SW 22	109.398
1 open-ended wrench SW 30/17	110.272
1 hex. nut	110.310

Cordless machines

ALi 10,8

335.509

NEW



The new drill driver with lithium-ion technology

With this compact drill driver all assembly work can be quickly and precisely carried out. Thanks to its high performance lithium-ion batteries this drill driver is always ready for action. No more battery charging before starting work. The built in LED light helps by precision work and when working in dark areas. This handy and light weight drill driver is the perfect partner for continuous working.

SPECIFICATIONS	ALI 10,8
Battery voltage	10,8 V
Battery capacity	1,3 Ah
Torque adjusting range	38 Nm
Torque positions	12
Speed without load	0-500 rpm
Chuck Ø	0,8-10 mm
Weight with battery	1,1 kg

STANDARD EQUIPMENT

Battery pack	336.319 (2 x)
1 rapid battery charger	336.327
1 LED light	336.335
Drill and bit set	1 set
1 plastic carrying case	1 piece

ALi 10,8 S

336.343

NEW



The new hammer drill with lithium-ion technology

With this compact hammer drill all assembly work can be quickly and precisely carried out. Thanks to its high performance lithium-ion batteries this hammer drill is always ready for action. No more battery charging before starting work. The built in LED light helps by precision work and when working in dark areas. This handy and light weight hammer drill is the perfect partner for continuous working.

SPECIFICATIONS	ALI 10,8 S
Battery voltage	10,8 V
Battery capacity	1,3 Ah
Torque adjusting range	52 Nm
Speed without load	0-2300 rpm
Idle blows	0-3000 rpm
Tool fixture	1/4"
Weight with battery	1,2 kg

STANDARD EQUIPMENT

Battery pack	336.319 (2 x)
1 rapid battery charger	336.327
Socket and bit set	1 set
1 plastic carrying case	1 piece

ADVANTAGES AT A GLANCE

- Exchangeable lithium-ion battery 1,3 Ah
- No memory effect
- Integrated LED light
- Externally exchangeable carbon brushes
- Small machine with lots of power
- Anti-slip rubber covered grip, for vibration reduced and tireless working
- Rapid battery charger (charge time 60 min)
- Spacious shock resistant carry case with metal clasps

ADDITIONALLY FOR ALI 10,8

- 11 torque and 1 drill setting
- Quick release chuck with quick stop motor



Accessorie-Ali: holster (337.277)

With this practical holster the machine is always at hand and ready for use.



Accessorie-Ali: LED-light (336.335)

No battery pack included. The standard auxiliary battery pack of ALi 10,8 V can be used.



Benefits of lithium ion rechargeable batteries

This battery pack has three times the energy density of NiCd cells and is therefore capable of storing more energy. It delivers a nearly constant voltage, while the voltage of a NiCd battery pack decreases continuously. Another benefit is the low weight, which facilitates handling.

ADVANTAGES AT A GLANCE

- 700 Watt high-power motor: with powerful 2,9 Joule impact energy
- Hammer mechanism: for effortless drilling and chiselling
- Quick tool change: universal application, with SDS Plus drill chuck or 13 mm quick-release chuck incl. screw adapter
- Right/left rotation: for turning screws in and out
- Accelerator trigger switch: for sensitive working even when wearing work gloves
- Safety ratchet coupling: protects the user in case the drill blocks
- Hammer-stop: for non-hammering when screwing or drilling with the quick-release chuck
- Softgrip handle: made of special plastic-rubber composite material for a non-slip grip and precise, low-vibration drilling
- Depth limit gauge: for precision drilling
- Heavy-duty carrying case: lots of room for standard equipment and accessories

BRL 3501 A

309.907



The 700 Watt rotary hammer drill with double ventilator

Now powered by a 700 Watt motor and powerful 2.9 Joule impact energy. The central grip position of the spade handle and the robust rotary hammer mechanism of the new FLEX rotary hammer drill provide an optimal weight balance and an extremely fast drill advance. Optimal motor and gear cooling by integrated dual ventilator. With turn-stop lock for chiselling work.

SPECIFICATIONS	BRL 3501 A
Speed without load	0-1050 rpm
Idle blows	0-4270 rpm
Max strength of single blow	2,9 J
Tool fixture	SDS-plus
Max. drill hole Ø in steel	13 mm
Max. drill hole Ø in concrete	26 mm
Max. drill hole Ø in wood	30 mm
Power input	700 Watt
Power output	300 Watt
Chuck Ø	13 mm
Weight	3,1 kg

STANDARD EQUIPMENT

1 Softgrip handle	310.301
1 drill depth stop	272.604
1 screw adapter 1/4"	272.620
1 quick-clamp chuck Ø 1.5-13 mm	272.639
1 plastic carrying case	310.409

Mixing machines

R 500 FR

314.587



The handy 1010 Watt single-gear mixer for smaller mixtures

Light powerful single-gear mixing machine with speed control for general mixing jobs. With standard mixing head RS 1 and broad speed range of 0-530 rpm perfect for mixing smaller batches with low viscosity such as paints, dispersion paints, adhesives, jointing mortar, ready mix plaster, and so forth up to about 35 kg.

SPECIFICATIONS	R 500 FR
Speed without load	0-530 rpm
Power input	1010 Watt
Power output	600 Watt
Tool fixture	M 14
Clamping neck Ø	43 mm
Max. mixing head Ø	130 mm
Weight	4,1 kg

STANDARD EQUIPMENT

1 mixing head RS 1, 120 Ø	320.498
1 adapter M 14 x M 14, SW 19	255.195

R 502 FR

314.595



The universal 1010 Watt 2-gear mixer with 2 mixing heads

Compact, power-sustaining 2-gear mixer for pulpy and thin liquid mixtures. 1st gear: With mixing head RS 1 ideal for mixing materials with low viscosity. 2nd gear: The mixing head RS 0 with counter-flow mixing action and the stepless adjustable speed of 0-740 rpm make it possible to blend thin liquid materials especially fast and thoroughly, such as lacquers, enamels, adhesives, primers.

SPECIFICATIONS	R 502 FR
Speed without load 1st gear	0-530 rpm
Speed without load 2nd gear	0-740 rpm
Power input	1010 Watt
Power output	600 Watt
Tool fixture	M 14
Clamping neck Ø	43 mm
Max. mixing head Ø	130 mm
Weight	4,2 kg

STANDARD EQUIPMENT

1 mixing head RS 1, 120 Ø	320.498
1 mixing head RS 0, 120 Ø	254.176
1 adapter M 14 x M 14, SW 19	255.195

ADVANTAGES AT A GLANCE

- 1010 Watt high performance motor: quiet operation, high robustness and long durability
- FLEX full-wave electronics: with soft start-current limitation, temperature monitoring, overload protection, and with stepless speed regulation with the accelerator trigger switch - for a controlled acceleration to the optimal mixing speed. Sustained power in all speed ranges
- Ergonomic handle: light weight, fatigue-free arm posture and erectness for a comfortable and vigour saving handling. With anti-slip coating
- Stable safety and deposit hoop: Protects the machine from dirt and damage
- Dust- and splash-proof housing: ensures a safe operation for machine and operator
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage

ADDITIONALLY FOR R 500 FR

- Robust 1-gear speedbox: generously dimensioned and optimally transformed - for a high torque transmission and long durability
- With 1 mixing head: RS 1

ADDITIONALLY FOR R 502 FR

- Robust 2-gear transmission: generously dimensioned with optimal ratio - for speeds suited to the material, a powerful torque transmission and an especially long service life
- With 2 mixing heads: RS 1 and RS 0



Auxiliary machines for the stone industry

ADVANTAGES AT A GLANCE

- FLEX four-fold full-wave electronic control: with consistent speed control, soft start with acceleration trigger, overload protection and speed pre-selection with adjusting wheel
- Protection frame
- Quality shut-off carbon brushes: if the carbon brushes wear down, the motor will be automatically switched off and thus protected from damage
- not suitable for use in explosive environments

ADDITIONALLY FOR R 600 VV

- With 1 mixing head: RS 3
- Mixing head adapter: M 18

ADDITIONALLY FOR RZ 600 VV

- With 2 mixing heads: I and II
- Mixing head adapter: 2 x 16 mm Ø with keyway



Getting down to business

The R 600 VV is especially suited for larger mixtures because of its powerful construction.

R 600 VV

282.359



The robust FLEX mixer with speed pre-selection

The stepless controllable R 600 VV is ideal for mixing paints, viscous adhesives, solvents, and insulating materials. Its speed selection allows it to be optimally set for any material. The accelerator trigger switch gradually increases the speed, avoiding spraying.

SPECIFICATIONS	R 600 VV
Speed without load	0-500 rpm
Power input	1300 Watt
Power output	850 Watt
Tool fixture	M 18
Clamping neck Ø	63 mm
Max. mixing head Ø	160 mm
Weight	5,4 kg

STANDARD EQUIPMENT

1 handle (long)	259.538
1 mixing head RS 3, 160 Ø	257.745
1 adapter M 18 x M 14	250.484
1 open-ended wrench SW 24	198.781

RZ 600 VV

282.413



The FLEX double positive mixer

This powerful mixer operates with two counter-rotating mixing heads. These counter external torque, making it easy to guide. Mixtures are also mixed particularly thoroughly. Ideal for tough adhesive, insulating material, multi-component resins, varnish and paint. Thanks to the speed pre/selection, it can be adjusted optimally to any material. The speed is slowly boosted by the acceleration trigger and prevents splashing.

SPECIFICATIONS	RZ 600 VV
Speed without load	0-400 rpm
Power input	1300 Watt
Power output	850 Watt
Tool fixture	2 x 16 mm Ø
Clamping neck Ø	63 mm
Max. mixing head Ø	130 mm
Weight	6,3 kg

STANDARD EQUIPMENT

1 handle (long)	257.580
Mixing head I and II	252.200

Quality accessories mixers

Mixing head for R 502 FR

Mixing head RS 0



For low-viscosity material, such as paint, light plaster, resin, etc. Ideally suited for materials in which a flow is created.
Parallel mixing principle: paddle mixer with counter-flow mixing action. Low construction for minimum air pockets.

Equipment

- Shaft with M 14 x 2.0 external thread
- Solid welded steel design with limit nut
- Powder coated
- 600 mm overall length

Mixing head in mm	Mixture in kg	QP	Order number
120 Ø	10 - 50	1	254.176

Mixing head RS 3



For highly-viscous material, such as adhesive and injection casting material, mortar, lime, cement, screed, grouting compound, liquid insulating and thermal insulating material, quartz-filled epoxy resin, shoulder bonding material, paste and granulates.

Mixing principle from bottom to top: the three mixer blades ensure that work progresses rapidly. Maximum mixing effect, thanks to high shear force. Effortless application and ease of motion.

Equipment

- Shaft with M 14 x 2.0 external thread
- Solid welded steel design with limit nut
- Powder coated
- 600 mm overall length

Mixing head in mm	Mixture in kg	QP	Order number
130 Ø	20 - 50	1	258.312
160 Ø	50 - 150	1	257.745

Mixing head for R 500 FR and R 502 FR

Mixing head RS 1



For highly-viscous material, such as adhesive and injection casting material, mortar, lime, cement, screed, grouting compound, liquid insulating and thermal insulating material, quartz-filled epoxy resin, shoulder bonding material, paste and granulates.

Mixing principle from bottom to top: three mixer blades ensure that work progresses rapidly. Maximum mixing effect, thanks to high shear force. Effortless application and easily controlled.

Equipment

- Shaft with M 14 x 2.0 male thread
- Stable, welded steel construction with limit nut
- Galvanized - 600 mm overall length

Mixing head in mm	Mixture in kg	QP	Order number
120 Ø	5-35	1	320.498

Mixing head RS 4



For tough, adhesive, highly-viscous material, such as tile adhesive, thin-bed mortar, ready-mixed mortar, screed, plaster, grouting, etc.

Mixing principle from bottom to top: the mixing head is drawn downwards. This prevents air pockets developing. Two helixes with low shearing force for effortless mixing.

Equipment

- Shaft with M 14 x 2.0 external thread
- Solid welded steel design with limit nut
- Powder coated
- 600 mm overall length

Mixing head in mm	Mixture in kg	QP	Order number
130 Ø	20 - 30	1	258.313
160 Ø	30 - 100	1	258.314

Mixing heads for R 600 VV

Mixing head RS 2



For liquid, low viscosity material, such as paint, facade and dispersion paints, dual-component paint, lead primer, bitumen, insulation material, cement slurry, etc.

Mixing principle from top to bottom: forces the material from the surface downwards with two meshing mixer blades - preventing splashing.

Equipment

- Shaft with M 14 x 2.0 external thread
- Solid welded steel design with limit nut
- Powder coated
- 600 mm overall length

Mixing head in mm	Mixture in kg	QP	Order number
110 Ø	15 - 40	1	258.310
140 Ø	30 - 60	1	258.311

Mixing head RS 5



For liquid, fibrous material, such as dispersion paint, paint, plaster, cement slurry, gypsum lime mortar and thermal resistant plaster. Even mixes fine, creamy plaster without forming lumps.

Mixing principle from top to bottom: forces the material from the surface downwards with three meshing mixer blades, preventing splashing.

Equipment

- Shaft with M 14 x 2.0 external thread
- Solid welded steel design with limit nut
- Powder coated
- 600 mm overall length

Mixing head in mm	Mixture in kg	QP	Order number
160 Ø	30 - 60	1	305.197

Auxiliary machines for the stone industry

Accessories for mixer R 500 FR, R 502 FR, and R 600 VV

M 18 to M 14 adapter



For connecting FLEX mixing head fixtures to FLEX mixing machines R 600 and R 600 VV. All FLEX mixing head fixtures can be combined with any commercially available drive machine with M 18 thread by using this adapter.

QP	Order number
1	250.484

M 14 to M 14 adapter



For connecting FLEX mixing head fixtures to FLEX mixing machines R 500 FR and R 502 FR. All FLEX mixing head fixtures can be combined with any commercially available drive machine with M 14 thread by using this adapter.

QP	Order number
1	255.195

Mixing heads for the RZ 600 VV positive mixer

Mixing head I and II, galvanized version



Ideal for tough mixtures, adhesive, dual and multi-component resins and plastics, varnish and paint, sealing and insulation material, coating material, ready-mixed mortar, plaster, concrete adhesive, etc.

Counter-active mixing: Both mixing heads mesh and blend the mixture with particular intensity.

Equipment:

- Supplied in pairs, adapted for the FLEX positive mixer.
- For insertion in the positive mixer guides.
- 600 mm overall length Please note: the mixing head with marking ring is inserted in fixture I, the mixing head with two marking rings in fixture II.

Mixing head in mm	Mixture in kg	QP	Order number
130 Ø	5 - 60	1	252.200

Laser measuring technology

ALC 311

311.286



The self-levelling crossline laser for interior work

The ideal tool for interior construction: Vertical and horizontal levelling plus right-angles. For drywall, exhibition stand and kitchen constructors, carpenters, plumbers, electricians, tile layers, and other professional craftsmen. For example for lowering ceilings, aligning metal frame walls in drywall construction, aligning doors and windows, transferring of heights, levelling of mirror tiles, for alignments, etc.

SPECIFICATIONS	ALC 311
Precision	± 3 mm/10 m
Self-levelling range	± 3,5°
Operation duration	15 h
Visible laser diodes	3 x 635 nm
Max. working range	20 m
Laser class	2M
Weight	0,7 kg

STANDARD EQUIPMENT

Wall and tripod console	1 piece
Magnetic target panel	315.281
Laser goggles	312.134
Batteries 1,5 V (AA) for measuring device	3 pieces
Padded carrying bag	1 piece

ALC 514

329.460



The self-levelling multi-line laser for visual room layout

The professional multi-line laser with 180° wide angle projection of the laser line. Perpendicular laser point function. With the optional FLEX receiver RC 2 and on/off pulsating beam of the ALC 514, the working distance can be increased up to 50 m. For all complicated grading and levelling projects, e.g. building engineering, interior construction and outdoor area.

SPECIFICATIONS	ALC 514
Precision	± 3 mm/10 m
Self-levelling range	± 3°
Operation duration with battery drive	12 h
Visible laser diodes	5 x 635 / 1 x 650 nm
Max. working range	20 m
Max. range with receiver	50 m
Laser class	2M/2
Weight	1,6 kg

STANDARD EQUIPMENT

Magnetic target panel	315.281
Mains adapter 6 V	1 piece
Laser goggles	312.134
Battery pack 3.6 V	2 pieces
Padded carrying case	1 piece

ADVANTAGES AT A GLANCE

- Cross-laser projection
- Self-levelling with robust magnetic damping
- Optical and acoustical warning signal when self-levelling range is exceeded
- Transportation lock

ADDITIONALLY FOR ALC 311

- Three visible, individually switchable laser lines
- Vertical line 90° to cross laser
- Padded carrying bag

ADDITIONALLY FOR ALC 514

- Three visible single laser lines with 180° wide angle beams individually on/off switchable
- On/Off switchable perpendicular point function
- Pulsating beam for use with receiver
- with universal floor tripod
- Dust- and splash-proof
- Padded carrying case



Multi-line laser for the highest demands

A permanent visible laser line with a 180° wide angle projection simulates the layout of the room. Self-levelling multi-line laser ALC 514

Auxiliary machines for the stone industry

ADVANTAGES AT A GLANCE

- Full automatic horizontal and vertical self-levelling
- Switchable automatic to manual leveling function in combination with grade mount, obtainable as accessory (order no. 329.479)
- Switchable TILT alarm function: safety modus against unintentional disturbance of the unit
- Two step rotation or target point only
- Incremental manuell angle adjustment up to max $\pm 5^\circ$ horizontal and vertical
- Permanent perpendicular beam
- Re-chargable and normal battery operation
- Two-level scanning function
- Automatic switch-off and acoustical signal when limits are exceeded, can be switched off
- Rechargeable battery packs and charger
- Dust- and splash-proof
- Padded carrying case

ALR 512

329.452



The self-levelling rotating laser for vertical and horizontal use

Showerproof full automatic rotation-laser with remote control for universal indoor and outdoor use. With scanning, point and leveling function. Complete with receiver.

SPECIFICATIONS	ALR 512
Precision	$\pm 1 \text{ mm}/10 \text{ m}$
Self-levelling range	$\pm 5^\circ$
Operation duration with battery drive	14 h
Visible laser diodes	635 nm
Max. range with receiver	300 m
Range rotating (without receiver)	ca. 30 m
Range point / scan function (without receiver)	ca. 50 m / ca. 30 m
Rotation speed	500 / 200 rpm
Laser class	2
Weight	1,7 kg

STANDARD EQUIPMENT

Magnetic target panel	315.281
Wall and floor mount	1 piece
Conus for wall and floor use	1 piece
6 V battery pack	324.159
Mains adapter 6 V	1 piece
Battery container	1 piece
Receiver with dual-display	1 piece
Batteries 1,5 V (AA)	2 pieces
bracket	1 piece
Remote control, incl. 1 battery 9 V	1 piece
Padded carrying case	1 piece



Rotation laser with wall and ceiling mount

Lowering of ceilings becomes a breeze thanks to the fully automatic ALR 512 rotation laser with remote control and optimal wall/ceiling mount.

Laser measuring technology



ALC 512

338.435

NEW



The new self-levelling crossline laser with green laser diode

A professional instrument that lives up to all expectations. With the ALC, working in very bright conditions is not a problem thanks to the new green laser diode. The green laser beam is many times more visible than the usual red beam. With vertical and horizontal levelling the ALC is best suitable for interior finishing, for setting out doors, windows, walls, cupboards, and mirror tiles etc. And for many different setting out jobs on the building site.

SPECIFICATIONS

Precision	± 3mm/10 m
Self-levelling range	± 3,5°
Temperature range	0° - 40°C
Operation duration with battery drive	8 h
Visible laser diodes	1 x 532 nm
Max. working range	50 m
Laser class	3R
Weight	0,9 kg

STANDARD EQUIPMENT

Magnetic target panel	338.443
Laser goggles	338.451
Wall and tripod console	1 piece
Mains adapter 6 V	327.786
Battery pack 4,8 V	338.486
Clip belt	1 piece
Padded carrying case	1 piece

ADVANTAGES AT A GLANCE

- Green laser diode
- Cross-laser projection
- Self levelling
- Transportation lock
- Optical and acoustical warning signal when self-levelling range is exceeded
- 360° scale on base
- On/Off switch for self levelling function, so that the laser beam can be adjusted manually
- Multi-purpose, magnetic floor and wall console
- 1/4" and 5/8" thread for camera tripod



2 Measuring in extreme conditions

The green laser beam compared to the normal red beam is many times more visible.



Accessories for laser measuring technology

Clamping post



The five-segment clamping post is clamped between floor and ceiling (max. height 3,4 m). With a holder that is steplessly adjustable in height for attaching laser measuring devices with 5/8" threads, for FLEX Laser ALC 311, ALC 514, ALR 411 M and ALP 305.

Tool fixture	QP	Order number
G 5/8"	1	312.096

Wall and ceiling mount



Stable mount for attaching rotation and line lasers to ceiling profiles or to the wall. With 5/8" thread, e.g. for FLEX Laser ALC 311, ALR 411 M, ALR 511 A, ALR 512 and ALP 305. Equipped with a height fine tuning.

Tool fixture	QP	Order number
G 5/8"	1	312.088

Magnetic target panel



Boosts the projection of the red laserbeam over long distances or in light surroundings.

QP	Order number
1	315.281



Boosts the projection of the green laserbeam over long distances or in light surroundings Für ALC 512.

QP	Order number
1	338.443

Receiver RC 2



For ALC 514. Hand-Receiver to locate the laser beam when it cannot be seen with the human eye. With bracket, as well as optical and acoustic signal.

QP	Order number
1	329.487

Grade mount



For ALR 512. To set the rotation laser in infinite gradings when operating on manual setting.

QP	Order number
1	329.479

Laser goggles



Improves the visibility of the red laser beam especially at greater distances.

QP	Order number
1	312.134



Improves the visibility of the green laser beam especially at greater distances. For ALC 512.

QP	Order number
1	338.451

Industrial vacuum cleaners



Filter-free switch on suction hose

When the flat-fold filter is full it can be shaken out by remote control during the vacuum.



Extra rip-proof filter bags

Even sucked-up bits of stone cause no damage.

S 36

297.003



The versatile FLEX all-round vacuum cleaner with automatic filter cleaning

Thanks to the great suction capacities the all-round vacuum picks up everything: Dust, dirt, swarf, and even liquids. And it is especially well suited for operation with the long-necked grinder FLEX Giraffe® WS 702 VEA: Fine sanding dust that is created when plasterboard panels are sanded is nearly totally filtered out. Should the large-volume flat-fold filter be full it can be shaken down automatically at the press of a button. An when it needs to be replaced - simply pull it out from the outside. If an electrical power tool has been connected to the tool power socket of the vacuum, then the vacuum starts up within 0,5 seconds after the power tool is switched on. And once the machine is switched off the vacuum runs on for 15 more seconds to extract the remaining dust. A deposit surface and a holder for hose and accessories keeps everything neat. Two large wheels and two double-coasters, one with locking brake, makes the vacuum mobile.

SPECIFICATIONS

	S 36
Filter surface	6200 cm ²
Power input	1200 Watt
Max. air flow rate	56 l/sec
Max. vacuum	235 mbar
Container volume	35 l
Weight	10,0 kg

ADVANTAGES AT A GLANCE

- Connection for power tools: up to 2200 Watt power input
- Patented filter vibration: vibration at the press of a button on the vacuum hose
- Suitable for wet vacuuming: with electronic liquid monitoring
- Vacuum hose: 4 m long, 32 mm internal Ø, with minimum flow resistance for maximum vacuuming performance
- 2 connection adapters: adapter for 28 mm vacuum connection and universal adapter for 25-32 mm vacuum connections

STANDARD EQUIPMENT

4 m vacuum hose 32 mm Ø	
with 32/28 mm Ø adapter,	
25-32 mm Ø universal adapter	
and vacuum hose extension	297.011
1 filter bag	1 piece
1 flat folded filter	296.945
0,5 m metal vacuum tube	300.691 (2x)
1 floor nozzle complete	
with carpet combination insert	300.659
1 crevice nozzle	259.627

Auxiliary machines for the stone industry

ADVANTAGES AT A GLANCE

- Safety filter system: Meets the BIA user category G, maximum permeability < 0,1 %, special for health-hazardous materials
- Visual and acoustical flow-rate monitor: Full suction under all conditions
- Exhaust diffusor: Protection against raising dust due to exhausts
- Connection for power tools: up to 2200 Watt power input
- Patented filter vibration: vibration at the press of a button on the vacuum hose
- Suitable for wet vacuuming: with electronic liquid monitoring
- Universal connection adapter: Standard, for 25-32 mm extraction connections



Cover on and close

Suction nozzle closing prevents pathogenic dusts that are harmful to health from escaping during transport.

STANDARD EQUIPMENT

2,5 m vacuum hose 32 mm Ø with snap	1 piece
1 universal adapter with snap 25-32 mm Ø	320.188
1 filter bag	1 piece
1 flat folded filter	296.945
1 elbow	297.038
0,5 m metal vacuum tube	300.691(2 x)

S 36 M

319.252



The FLEX special vacuum for hazardous dusts

Especially constructed for a clean extraction of at least 99,9 percent of health-hazardous dusts and fluids: Granulates, sanding dust and swarf, e.g. from wood and metals, materials containing cement as well as plastics. The diffusor attached outside on the vacuum housing reduces the air exhaust speed and thus avoids swirling up harmful dusts from the floor. And in order to prevent dust from escaping from the refuse container while the vacuum is transported, the suction nozzle can be locked on the device. In case the capacity of the vacuum drops below 20 l/sec this will be indicated by a visual and acoustical warning signal. Just as with the all-purpose vacuum S 36 the filter can be conveniently shaken down at the press of a button using the filter-free switch on the suction hose. The device has the full extraction capacity once more following the shake down. The S 36 M is also equipped with a plug for electrical power tools - with automatic 0,5 sec switch-on and 30 sec. after-running. Remaining dust does not have a chance to get into the surrounding air. Large wheels and double-coasters provide smooth running.

SPECIFICATIONS

	S 36 M
Filter surface	6200 cm²
Power input	1200 Watt
Max. air flow rate	56 l/sec
Max. air flow rate according to EN 60312	35 l/sec
Max. vacuum	235 mbar
Container volume	35 l
Weight	11,0 kg

Industrial vacuum cleaners

S 47

336.912

NEW



The new FLEX special industrial vacuum cleaner with automatic flat fold filter cleaning system

With the new innovative flat fold filter cleaning system, this vacuum cleaner offers the user a definite advantage. This especially effective filter cleaning system allows large amounts of dust to be vacuumed up without having to stop work. The high vacuuming power stays constant, longer working periods are possible as there is no downtime for filter cleaning. The automatic cleaning system helps prolong the life of the vacuum cleaner and also lowers additional service costs. The S 47 is an indispensable all purpose vacuum cleaner that fills all demands, be it on the Building site, in the Workshop, in Industry or in the Automobile trade. The stepless motor speed control allows for an individual setting of the vacuuming power. With the large storage tray on the motor housing, power tools and accessories are always at hand. The vacuum hose and cable can be hanged on the two integrated hooks. So that with one hand a safe and comfortable transportation is possible.

ADVANTAGES AT A GLANCE

- Automatic flat fold filter cleaning system
- Stepless motor speed control
- Suitable for wet vacuuming: with electronic liquid monitoring
- Vacuum hose: 4 m long, 32 mm internal Ø, with minimum flow resistance for maximum vacuuming performance
- Large integrated storage tray
- Connection for power tools: up to 2200 Watt power input
- Solid chassis and carrying handle
- 7 m cable
- Holder for vacuum hose and diverse accessories

SPECIFICATIONS

Filter surface	6200 cm ²
Power input	1380 Watt
Max. air flow rate	61 l/sec
Max. vacuum	230 mbar
Container volume	45 l
Weight	13,5 kg

STANDARD EQUIPMENT

4 m vacuum hose 32 mm Ø with 32/28 mm Ø adapter, 25-32 mm Ø universal adapter and vacuum hose extension	1 piece
1 flat folded filter	337.692
0,5 m metal vacuum tube	300.691 (2x)
1 floor nozzle complete with carpet combination insert	300.659
1 crevice nozzle	259.627

Accessories for FLEX industrial vacuum cleaners S 36 and S 36 M, S 47

Fleece filter bags



Filter bag with FLEX VacuFleece Technologie for the S 36 and S 36 M double volume capacity compared to paper filter bags (Order no. 296.961). Tear resistant 4 layered VacuFleece material offers protection against damage from sharp objects. Resistant to unintentional wet or damp objects.

QP	Order number
5	329.630

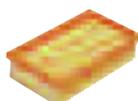
Paper-Filter bags



Filter bag for S 36 and S 36 M

QP	Order number
5	296.961

Flat folded filter



Flat-fold filter for S 36 and S 36 M

QP	Order number
1	296.945

Flat-fold filter for S 47

QP	Order number
1	337.692

Adapter



Adapter 32/28 mm, for connecting machines with 28 mm \emptyset vacuum attachment to 32 mm vacuum hose

QP	Order number
1	251.847

Adapter rotating



Adapter 32/32 mm, for connecting machines with 32 mm \emptyset vacuum attachment (e.g. renovation sanders, angle grinders with cutting guard) to 32 mm vacuum hose. Alternatively as vacuum adapter in connection with part number 882.428

QP	Order number
1	328.308

Adapter



Adapter 32/36 mm, for connecting machines with 36 mm \emptyset extraction connection (e.g. HPI 603) with 32 mm suction hose

QP	Order number
1	257.169



Universal adapter for universal connection of machines with 25-32 mm \emptyset extraction connection with 32 mm suction hose, adapter can be trimmed to 3 different diameters.

QP	Order number
1	259.827



Universal adapter for universal connection of machines with 25-32 mm \emptyset extraction connection with 32 mm suction hose, for adapter with snap connection, can be trimmed to 3 different diameters.

QP	Order number
1	320.188

Cable clip



for fixing power tool cable to vacuum hose, suitable for 27-36 mm external \emptyset

QP	Order number
1	252.188

Vacuum tube



Metal vacuum tube, 0.5 m long, galvanized

QP	Order number
1	300.691

Quality accessories industrial vacuum cleaner

Accessories for FLEX industrial vacuum cleaners S 36 and S 36 M, S 47

Vacuum hose



32 mm internal Ø, with snap coupling, 4.0 m long, temperature resistant to 70°C, incl. coupling bush for vacuum, filter-free switch module with snap coupling, vacuum hose extension, 32/28 mm adapter and universal adapter for S 36 and S 36 M

QP	Order number
1	297.011

Vacuum hose extension



for connecting the vacuum hose snap coupling to the adapters 32/28 mm, 32/32 mm, 32/36 mm and the universal adapter

QP	Order number
1	296.953

Coupling bush



for connecting two FLEX vacuum hoses

QP	Order number
1	296.996

Vacuum hose snap coupling repair kit



Coupling bush for vacuum hose with snap coupling, 3-part

QP	Order number
1	296.988

Elbow



for connecting the vacuum hose and vacuum tube, with snap coupling

QP	Order number
1	297.038

Nozzle



Crevice nozzle

QP	Order number
1	259.627



Upholstery nozzle

QP	Order number
1	259.628



Floor nozzle, complete with carpet and combination insert

QP	Order number
1	300.659



Carpet insert for use with the floor nozzle

QP	Order number
1	300.675



Combination insert for use with the floor nozzle

QP	Order number
1	300.683

For your safety: FLEX safety features and warranty

FLEX machines meet all legal trade and professional association safety regulations. FLEX stands for practical solutions and professional quality down to the last detail. Should there be any faults on a machine, the FLEX manufacturer warrantee will take care of it, quickly and unbureaucratically.



Technical modifications and illustrations. Our FLEX electrical power tools are always brought to the current state of the art. We therefore reserve the right to change technical specifications. Illustrations are also non-binding.

Electrical safety of operation

Faults devices pose a hazard to the user when precautions are not taken that prevent inadmissibly high touch voltage – the electric shock – from occurring. FLEX electrical power tools are insulated according to the safety classes I and II from EN 60745.

Safety class II – shockproof

In these electrical power tools all touchable metal parts are insulated according to the regulations EN 60745 or EN 50144 from the conductive parts not only by the operating insulation, but additionally by the protective insulation. In case of a fault in the operating insulation during malfunction there still is no touch voltage from the machine that is dangerous to the user. The connection of the electrical power tool is done here by a twin-wire cable (H05RN-F or H07RN-F) without protective earth conductor. Standard for all FLEX electrical power tools is 230 Volt/50 Hz AC. FLEX electrical power tools are equipped with universal motors (series connection). The FLEX electrical power tool that do not feature electronics or feature FR/VR-electronic can operate on 50 Hz as well as 60 Hz.

Electrical safety devices

A) Machines with water supply

The safety of FLEX devices with water supply is guaranteed as follows:

a) Isolating transformer

Devices that are equipped with a plug (position of the earth pin: 12h) acc. to IEC 60309-2 are delivered in safety class II and can be operated only in combination with a isolating transformer according to EN 60742.

b) Residual current operated device (GFCI)

Devices with a GFCI in the power supply line (trip circuit 10 mA) are supplied with increased insulation and protective earth conductor (earth connection of the metal parts that can be touched from outside).

B) Transportable motor driven electrical power tools acc. EN 61029-1

Residual current operated device (GFCI)
Devices with a GFCI in the power supply line (trip circuit 30 mA) are supplied with increased insulation and protective earth conductor (earth connection of the metal parts that can be touched from outside).

CE symbol

All FLEX machines with the CE symbol meet the following standards or normative documents: EN 60745, EN 55014, EN 61000, EN 61029, EN 292/91, according to the stipulations of the directives 73/23/EEC, 89/336/ EEC, 98/37 EC.

Radio shielding

FLEX electrical power tools are shielded according to EN 55014 and EN 61000 according to EU directive 89/336/ EEC.

Warranty

When purchasing a new machine FLEX provides a **2-year manufacturer warranty**, beginning on the day of the sale of the machine to the end customer. The warrantee covers only damages that can be traced back to material and/or manufacturing faults as well as the non-compliance of promised features. In case of assertion of claims from this warrantee the original sales receipt that shows the purchase date has to be submitted. Warranty repairs may be made only by shops or service stations authorised by FLEX. An assertion of claims exists only when used appropriately. Excluded from this warrantee are in particular regular operational wear, improper use, partially or completely disassembled power tools, as well as damage due to overload of the machine, the use of non-permitted, defective, or improperly applied tools. Damages caused by the machine on the application tool or workpiece, use of force, consequential damages, that can be traced to improper or insufficient maintenance by the customer or third parties, damaging due to external influence such as sand or stones as well as damages due to nonobservance of the instructions such as connection to wrong voltages or type of electricity.

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Subject to technical modifications.

Your FLEX retailer