

FLEX

**Electrical Power Tools for
Stone Work 2009/2010**

Product features

The key features of our products are identified by the following symbols.



Lithium-ion technology
No self-discharging. No memory effect. FLEX Protection System: protects from overloading, overheating and deep discharge.



GFCI operator protector circuit breaker
Come with a normal type plug for 230 V power outlets.



Carrying case
Rugged metal or plastic case.



Central water feed
For wet grinding of granite and marble.



Guard adjustment
Tool-free guard adjustment from both sides.



Quick-fit coupling
Quick-fit brass coupling for 1/2" water hose.



Patented guard adjustment
Patented tool-free guard adjustment from both sides (Patent No. DE10115635C1).



FixTec quick-lock nut
Tool-free disc change.



Saw blade pendulum action
Pendulum action selectable. Useful for fast sawing in wood.



Cable length
Mains cable



Bail handle
Additional bow handle for a more comfortable grip.



Cable length
Mains cable with flex red plug.



Side handgrip
Hand grip optionally on left or right side.



FR electronic control
Tachogenerator-controlled constant speed, soft-start, overload protection.



SoftVib hand grip
Vibration cushioning hand grip, preventing strain on the wrists.



VR electronic control
Tachogenerator-controlled constant speed, soft-start, overload protection, speed selection with optimized low-speed range.



Dust extraction
Extractor connection



VE electronic control
Continuous speed selection and overload protection.



Hook and loop fasteners
Quick grip for attaching abrasives – without adhesives or clamping.



VV electronic control
Constant speed, soft-start with continuous speed selection trigger and overload protection.



Tool-free tool change
Easy tool change without the need for additional tools.



FV electronic control
Constant speed, soft-start and overload protection.




Spindle lock
Push-button spindle-lock facilitates fast, easy disc change.


Contents

Type	Page
A	
ACH 14,4 <small>NEW</small>	36
ALC 311	42
ALC 514	42
AlI 10,8 G	36
AS 28	29
B	
BED 18	25
BED 55	27
BED 69	27
BHW 812 VR	26
BHW 1549 VR	25
BRL 3501 A	37
C	
CSW 4161 <small>NEW</small>	14
L	
L 1503 VR	19
L 1506 VR	17
L 2106 VC	16
L 3403 VRG	19
L 3406 VRG	17
L 3709/125	16
LG 1704 VR	18
LK 602 VR	20
LK 604	18
LST 803 VR	24
LST 1503 VR	24
LW 802 VR	7
LW 1202	7
LW 1202 S	8
LW 1703	6
LW 1703 S	6
LWW 1506 VR	11
LWW 2106 VR	11
P	
PLW 903 ST	8
R	
R 502 FR	39
R 600 VV	39
S	
S 47	32
S 47 M	33
T	
TT 2602	9
W	
WD 10	9

Page Chapter

	FLEX The Original Location Germany	2 4	
--	---	--------	--

	Stone working machines Wet grinders Accessories for wet grinders Edge milling tools Stone cutter Accessories for stone cutter Dry grinders Polishers Accessories for dry grinders and polishers Bushhammers Blind hole drills Core drilling machines Accessories core drill technology Cleaning technology Accessories for cleaning systems	6 6 10 11 12 15 16 19 21 24 25 26 28 29 30	1
--	--	--	----------

	Auxiliary machines for the stone industry Industrial vacuum cleaners Industrial vacuum cleaner accessories Cordless machines, hammer drill Accessories for cordless power tools Mixing machines Accessories mixers Laser measuring technology Accessories laser measuring technology	32 32 34 36 38 39 40 42 43	2
---	---	--	----------

Information Warranty FLEX Addresses	44 45
--	----------



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

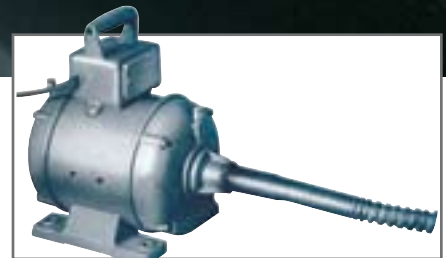
FLEX. The Original.

For more than 85 years, the FLEX brand has been synonymous with innovative solutions.

Our success is based on innovation. That was the case in 1922, when we developed hand-controlled tools powered by stationary electric motors through flexible shafts. It did not change in 1954, when we launched the first high-speed angle grinder, the DL 9 – inventing “FLEXing” in the process.

To make our angle grinders even more reliable, effective, and user-friendly, we continued to develop them. In 1997 we were the first electric power tool manufacturer to introduce the long-neck sander for ceilings and walls – the FLEX-Giraffe® – and the latest Giraffe generation is now available. The WST 700 VV Vario-Giraffe®, with its telescopic function interchangeable sanding heads, and perfect handling, sets new standards.

In continuous dialogue with craftspeople and users from the industries we serve, backed by our many years of experience in the development and manufacture of professional electric power tools, we keep coming up with new, innovative solutions. With our tools and dedicated accessories, we continue to create solutions for better and more economical working.



1922: MS 6 – the first production machine. The electric motor drove the tool through a flexible shaft. The FLEXible shaft gave the name to the brand: FLEX.



1954: FLEX DL 9, the first high-speed angle grinder is presented to the trade world. “Flexing” revolutionizes hand crafts.



2002: FLEX launches the angle grinder generation for the 21st century.



2009: The new generation of the successful FLEX Giraffe® is launched. With innovative telescopic function.

Professional tools for professionals.

You need quality tools to do quality work. But what are quality tools? How do I recognise real quality?

For FLEX it's the craftsman who sets the standard. That is why we visit those sites where tools are used when we develop new machines. On construction sites, in the shops and factories. And that's precisely where we determine the specifications that every FLEX must fulfil. This primarily includes the long life of our power tools and machines, their power and functionality and their design, ergonomics and safety.

All this is made possible by the advanced technology that frequently provides new solutions to problems, revolutionizing the work procedures of entire industries. Our approach is justified by each of the millions of craftsmen who perform outstanding work using their FLEX every day.



1. FLEX product quality

All FLEX power tools are CE-conformant and are subject to a professional quality management system as per DIN EN ISO 9001:2000 throughout their production. Our aim: 100 percent quality. We are so convinced of the quality of our products, that we give our customers a 2-year manufacturer's guarantee on every FLEX electric power tool and accessory. Whichever FLEX you buy: it represents the ultimate in user friendliness and durability. Perfectly balanced, easy to handle and extremely rugged. Try it out! Put a FLEX to the hardest of all tests: your own applications. We take our slogan: "Quality tools from professionals for professionals" seriously.

2. FLEX service quality

Customer service takes top priority for us. FLEX therefore provides an expert all-round service. Our efficient Customer Service Centre is at your disposal, ready to answer all your questions about technical matters and accessories.

If your FLEX needs servicing – no problem: simply send your machine to our Service Centre, and we will perform the service and return your FLEX to you in no time.



3. FLEX loyalty to the trade

FLEX is available only from specialist dealers – for a good reason. Users who place high value on the quality and functionality of their power tools expect professional advice. And that is available only from specially trained and authorized dealers.

Your FLEX specialist dealer has the perfect tool and accessories for your specific requirements.



We proud to have Steinheim as our production location.

Maximum productivity and flexibility in our production heartland, Germany – what many companies see as a contradiction is living reality for FLEX.

By concentrating on our home location in Germany, we remain flexible and are able to react rapidly to the needs of the market and technological developments.

Above all, it is our customers who count most in maintaining Germany as the production location. It is our customers who have the confidence that FLEX products meet the most stringent of quality requirements.

These include ...

- highly qualified engineers and designers
- high innovativity
- many years of in-depth experience of our workforce
- highest standards in manufacture
- high productivity and quality process
- depth of manufacturing expertise

FLEX was and is the trademark for top technological performance, quality and reliability.



Using state-of-the-art technology, our engineers develop power tools for the future.



Assembly of the individual components, including the housing, motor and electronic unit.



Productivity and flexibility.

The heart beating in any original FLEX is created from the outset in our motor manufacturing plant in Steinheim. This is where we produce a wide range of electric motors, perfectly matched to customers needs. From the fully automated winding of the magnetic fields through our state-of-the-art powder-coating line to the precision lathe.

The use of the latest manufacturing systems in motor production and steel and aluminium machining and the continuous quality controls in all other stages of production ensure our high quality standards.

Our state-of-the-art processing machines guarantee a high degree of flexibility in manufacture and enable us to respond rapidly to customers wishes. Quality and functional checks during the entire manufacturing process are standard policy in our company.

In our Research and Development Department, all new and existing products are tested on test stands and in continuous use to ensure they meet our quality and functional requirements. Ongoing staff training is a fundamental requirement for us, to ensure that we remain able to apply the latest manufacturing technologies in the future.

We produce key components and power tools at our facility in Steinheim. From conventional angle grinders to our latest products – the terso AS 28 cleaning machine and the WST 700 VV Vario-Giraffe®. We procure outsourced parts primarily from suppliers within a short distance from us and also from competent manufacturers from all around the world.



Maximum precision: anchors are fully machined in a single chucking operation.



State-of-the-art five-axis machining centre: ultra-precision machining of gear housings.

LW 1703

306.274



950 watt wet stone grinder, 115 mm



- Central water supply through gear shaft: for wet grinding of granite and marble
- Quick-action, brass coupling: for 1/2" water hose
- Contour plug: can be connected only to the isolating transformer. For safety reasons, operation is permitted only connected to the FLEX TT 2602 isolating transformer
- Tool fixture: M 14
- Transmission: well sized and especially robust

SPECIFICATIONS	LW 1703
Max. disc diameter	115 mm
Speed without load	3500 rpm
Power input	950 watt
Power output	600 watt
Weight	2,40 kg

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



Wet grinding with Velcro diamond grinding system

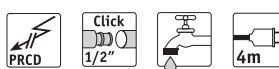
Powerful and enduring grinding – even in arches and curves: The FLEX LW 1703 is at home here.

LW 1703 S

308.773



950 watt wet stone grinder with GFCI circuit breaker, 115 mm



- Central water supply through gear shaft: for wet grinding of granite and marble
- Quick-action, brass coupling: for 1/2" water hose
- GFCI operator protector circuit breaker: integrated in cord
- Transmission: well sized and especially robust
- Tool fixture: M 14
- For portable use without an isolating transformer

SPECIFICATIONS	LW 1703 S
Max. disc diameter	115 mm
Speed without load	3500 rpm
Power input	950 watt
Power output	600 watt
Weight	2,40 kg

STANDARD EQUIPMENT	
Bail handle	293.709
1 open-ended wrench SW 17	106.461



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.

LW 802 VR

258.597

**1800 watt wet stone grinder, 130 mm**

- VR full-wave electronic control: tachogenerator constant speed control, soft start, overload protection and speed selection
- Central water supply through gear shaft: for wet grinding of granite and marble
- Quick-action, brass coupling: for 1/2" water hose
- Contour plug: can be connected only to an isolating transformer. For safety reasons, operation is permitted only connected to the FLEX TT 2602 isolating transformer
- Tool fixture: M 14

SPECIFICATIONS	LW 802 VR
Max. disc diameter	130 mm
Speed without load	800-2400 rpm
Power input	1800 watt
Power output	1200 watt
Weight	4,30 kg

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

LW 1202

276.375

**1600 watt wet stone grinder, 130 mm**

- Central water supply through gear shaft: for wet grinding of granite and marble
- Quick-action, brass coupling: for 1/2" water hose
- Rugged metal composite housing for optimum heat dissipation
- Contour plug: can be connected only to an isolating transformer. For safety reasons, operation is permitted only connected to the FLEX TT 2602 isolating transformer
- Tool fixture: M 14

SPECIFICATIONS	LW 1202
Max. disc diameter	130 mm
Speed without load	1750 rpm
Power input	1600 watt
Power output	1000 watt
Weight	5,10 kg

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

**FLEX-Metal composite housing**

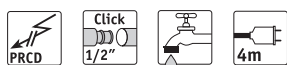
A classic of sandwich construction design by FLEX: A tough, heat-resistant, light aluminium die-cast outer shell. On the inside a highly insulating plastic shell for electrical protection and motor noise reduction. Plus solid brass carbon brush holders for optimal heat dissipation.

LW 1202 S

289.000



1600 watt wet stone grinder with GFCI circuit breaker, 130 mm



- Central water supply through gear shaft: for wet grinding of granite and marble
- Quick-action, brass coupling: for 1/2" water hose
- Rugged metal composite housing for optimum heat dissipation
- GFCI operator protector circuit breaker: integrated in cord
- Tool fixture: M 14
- For portable use without an isolating transformer

SPECIFICATIONS	LW 1202 S
Max. disc diameter	130 mm
Speed without load	1750 rpm
Power input	1600 watt
Power output	1000 watt
Weight	5,10 kg

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

PLW 903 ST

331.848



600 watt pneumatic wet stone grinder, 115 mm



- Central water supply through gear shaft: 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 hose
- 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

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
Air consumption	0,85 m ³ /min
Air-pressure hose with quick-action coupling	10 mm
Weight	2,10 kg

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

WD 10

251.622

**Pressurized water tank, 10 l**

- Working pressure 6 bar
- Ideal for mobile working
- Fits all machines with a quick-fit coupling for a 1/2" water hose

SPECIFICATIONS	WD 10
Capacity	10 l
Weight	4,50 kg

STANDARD EQUIPMENT	
4 m pressure hose	252.317

TT 2602

252.754

**Isolating transformer**

- With contour socket for all FLEX machines with contour plug.
Earth contact in 12 o'clock position
- Including one socket without earthing contact

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	15,20 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.

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

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

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

Adapter plate



For grinding rings with quick-action coupling. Thread M 14.

Dimensions in mm	QP	Order number
100 Ø	1	126.098



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.

LWW 1506 VR

255.121

**1200 watt edge milling tool for marble and granite**

- VR full-wave electronic control: with speed selection and constant speed control, soft start, overload protection
- Central water supply through gear shaft: for wet grinding of granite and marble
- 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 hose
- Tool fixture: G 1/2"
- Ideal combination for milling and grinding holes for sinks, kitchen worktops, counter tops and tables

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	6,00 kg

STANDARD EQUIPMENT	
1 open-ended wrench SW 24	198.781
1 Splash guard	257.456

LWW 2106 VR

253.705

**2200 watt edge milling tool for granite**

- VR full-wave electronic control: with speed selection and constant speed control, soft start, overload protection
- Central water supply through gear shaft: for wet grinding of granite and marble
- 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 hose
- Rugged metal composite housing for optimum heat dissipation
- Tool fixture: G 1/2"
- Ideal for profiling granite slabs

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	13,70 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



Sharp cuts. The new CSW 4161.

Safe, clean and accurate: with its extra powerful 1400 watt high-performance motor, the new FLEX CSW 4161 wet diamond stone cutter cuts effortlessly through the hardest natural stone.

A long service life is guaranteed by the water feed, effectively cooling the diamond cutter, and the rubber end sleeve, protecting the motor from spray water.

The extremely rugged and reliable CSW 4161 is ideal for cutting window sills, work surfaces, facing stones and terrazzo slabs in garden and landscaping, and cleaning up flooring joints.



A long service life: the water feed, which effectively cools the diamond cutter, while the rubber end sleeve protects the motor from spray water ingress. A GFCI operator protector circuit breaker, built into the cable ensures safety when wet cutting.



Right on the mark: the parallel fence allows accurate cutting of marble, granite and washed concrete slabs.



It's all in the set-up: continuous cutting depth adjustment of 15-60 mm. Ideal for cleaning up flooring joints.



Simply push on and let the water flow: quick-fit brass coupling for 1/2" water hose.



First-class results every time: The fence enables accurate, straight cuts to a depth of 54 mm.

CSW 4161

347.507

NEW

Diamond stone cutter for cutting natural and synthetic stone up to 60 mm thick



- High-performance motor: extra powerful for stone cutting and joint milling
- Continuous cutting depth adjustment of 15 - 60 mm
- For straight cuts in natural and synthetic stone slabs up to 60 mm thick, or up to 54 mm depth with a guide fence
- Light alloy guard and guide fence
- Rubber end sleeve prevents ingress of spray water
- Water supply: for an effective cooling of the diamond blade
- Quick-action, brass coupling: for 1/2" water hose
- GFCI operator protector circuit breaker: integrated in cord
- Ideal for window sills, work surfaces, facing stones, terrazzo slabs in garden and landscaping, cleaning up flooring joints
- Spindle lock



SPECIFICATIONS	CSW 4161
Diamond cutting disc diameter / arbor (inside diameter)	170 / 22,2 mm
Cutting depth / with guide fence	60 / 54 mm
Speed without load	6200 rpm
Power input	1400 watt
Power output	840 watt
Weight	4,50 kg

STANDARD EQUIPMENT	
1 diamond cutting disc (170 x 22.2 mm)	347.515
1 Wrench for saw blade change	115.460
1 parallel stop	350.613
1 plastic system case	353.302
1 case insert	353.310

Accessories for stone cutter

Diamond cutting disc



For natural stone and concrete; special diameter of 170 mm for maximum cutting depth.

Dimensions in mm	QP	Order number
170 Ø x 22,2	1	347.515

Guide fence



Made from aluminium – acts as a fence for straight cuts.

Dimensions in mm	QP	Order number
800	1	353.280

Connector for guide fence



For connecting two guide fences.

	QP	Order number
	1	353.272

Plastic system case



	QP	Order number
	1	353.302

L 3709/125

334.987



800 watt angle grinder



- Extensive dust protection for motor and gears
- Lightweight, ergonomic design, short and versatile
- Spindle lock
- Side handgrip
- Tool-free adjustment of safety guard

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	1,80 kg

STANDARD EQUIPMENT	
1 guard 125 Ø	335.266
1 side handle	335.274

L 2106 VC

259.017



2000 watt two-handed angle grinder, 230 mm



- Highly efficient and resilient motor for more power output
- Electrical surge protection: for a soft start without power overloading
- Rugged metal composite housing for optimum heat dissipation
- Side handle: can be used in 3 positions
- Switch: with lock-off / lock-on switch
- Tool-free adjustment of safety guard
- Spindle lock

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	6,10 kg

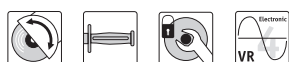
STANDARD EQUIPMENT	
1 guard 230 Ø	265.179
1 side handle	193.356
1 pin wrench	100.110

L 1506 VR

266.930



1200 watt angle grinder, 125 mm



- Highly efficient and resilient motor for more power output
- VR full-wave electronic control: tachogenerator constant speed control, soft start, overload protection and speed selection
- Spindle lock

SPECIFICATIONS	L 1506 VR
Max. disc diameter	125 mm
Speed without load	2200-6800 rpm
Power input	1200 watt
Power output	700 watt
Weight	1,90 kg

STANDARD EQUIPMENT	
1 side handle	194.034
1 guard 125 Ø	267.503
1 pin wrench	100.110
1 grip cover	259.403
1 clamping nut	100.080
1 clamping flange	191.612
1 hook and loop cup	208.817

L 3406 VRG

297.321



Variable-speed 1400 watt angle grinder, 125 mm



- VR microprocessor control: speed selection, tachogenerator constant speed control, soft start, restart protection after power failure, overload protection and temperature monitoring
- Highly efficient and resilient motor for more power output
- Switch: with lock-off / lock-on switch
- Lightweight, ergonomic design with slim grip
- Universal machine with infinitely adjustable speed for sanding, grinding and polishing. For paint we recommend using the L 3403 VRG
- SoftVib handgrip with integrated, patented locknut wrench and vibration damping
- Tool-free adjustment of safety guard
- Spindle lock

SPECIFICATIONS	L 3406 VRG
Max. disc diameter	125 mm
Max. polishing pad diameter	160 mm
Speed without load	2100-7500 rpm
Power input	1400 watt
Power output	880 watt
Tool fixture	M 14
Weight	2,20 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 for heavy-duty grinding jobs, 178 mm



- VR full-wave electronic control: with speed selection and constant speed control, soft start, overload protection
- 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

SPECIFICATIONS	LG 1704 VR
Max. disc diameter	178 mm
Speed without load	1400-4200 rpm
Power input	1500 watt
Power output	1000 watt
Weight	2,70 kg

STANDARD EQUIPMENT	
1 grip cover	253.676
1 side handle	252.721

LK 604

250.346



1200 watt sander for use with abrasive sanding discs, 175 mm



- Highly efficient and resilient motor for more power output
- No guard needed when using the flexible backing pad
- Rubber rest bar protects machine and surface of workpiece
- Spindle lock

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	3,20 kg

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

L 1503 VR

250.280



Polisher with a wide speed range



- Highly efficient and resilient motor for more power output
- VR electronic control: tachogenerator-controlled constant speed, soft-start, overload protection and speed selection
- Powerful, lightweight polisher with variable speed
- Spindle lock

SPECIFICATIONS	L 1503 VR
Max. polishing pad diameter	160 mm
Speed without load	1200-3700 rpm
Power input	1200 watt
Power output	700 watt
Weight	1,90 kg

STANDARD EQUIPMENT	
1 side handle	194.034
1 grip cover	250.234

L 3403 VRG

299.278



Polisher with continuous speed control trigger



- VR microprocessor control: with tachogenerator constant speed control, soft start, continuous speed control trigger, restart protection after power failure, overload protection, temperature monitoring and speed selection
- High-powered motor: can handle extreme loads
- Ergonomic design
- Slim shaft grip with ergonomic bail handle for optimum handling and fatigue-free polishing
- Spindle lock

SPECIFICATIONS	L 3403 VRG
Max. polishing pad diameter	160 mm
Max. back-up pad diameter	125 mm
Speed without load	1100-3700 rpm
Power input	1400 watt
Power output	880 watt
Tool fixture	M 14
Weight	2,20 kg

STANDARD EQUIPMENT	
1 bail handle	298.506
1 side handle	252.721



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.

LK 602 VR

258.580

**Polisher with grip hood for natural stone work**

- VR electronic control: tachogenerator-controlled constant speed, soft-start, overload protection and speed selection
- Integrated air deflection: protects against direct air flow
- Perfect cooling for heavy-duty use.
- Plastic grip guard allows extremely sensitive guiding
- Grip hood: detachable
- Rubber rest bar protects machine and surface of workpiece
- Spindle lock: for easy disc changes
- Ideal for cleaning, conserving, polishing and care of natural stone flooring

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	3,50 kg

STANDARD EQUIPMENT	
1 grip cover	259.508
1 side handle	252.721

Cutting discs

Diamantjet – diamond cutting disc, standard, concrete



Fast, long-life universal cutting disc, suitable for concrete and stone.

Dimensions in mm	QP	Order number
125 Ø x 22,2	1	349.046



Dimensions in mm	QP	Order number
230 Ø x 22,2	1	349.054

Diamantjet – diamond cutting disc, super premium, concrete



Extremely fast, long-life precision cutting disc, suitable for cutting all construction materials, including concrete, granite and natural stone. Low-noise and transparent.

Dimensions in mm	QP	Order number
125 Ø x 22,2	1	348.996



Dimensions in mm	QP	Order number
230 Ø x 22,2	1	349.003

Diamantjet – diamond cutting disc, premium, tile



Fast, long-life tile cutting disc with closed diamond segment. Suitable for cutting all tiles, marble, slate, granite and natural stone. Precision cutting and low-noise.

Dimensions in mm	QP	Order number
115 Ø x 22,2	1	349.011



Dimensions in mm	QP	Order number
125 Ø x 22,2	1	349.038

Safety glasses

Athletic safety glasses



Trendy glasses in a sporty design with replaceable sunshades. The x-press-clip facilitates easy change of the shades. The wrap-around style provides optimum eye protection and a very wide field of vision. Includes grey replacement lenses. In case.

	QP	Order number
	1	343.765
	8	344.524

X-trend safety glasses



With anatomically formed wrap-around lenses and 20% more cover than normal spectacles, these safety glasses provide a high degree of eye protection, together with 100% UV protection. In nylon pouch.







	QP	Order number
	1	350.176
	5	343.773

X-one safety glasses



Sporty and affordable snug-fitting safety glasses, and weighing only 28 g.

	QP	Order number
	1	350.168
	5	343.781

	Dimensions in mm	QP	Order number	L 3709/125	LK 604	L 3406 VRG	LG 1704 VR	L 2106 VC	L 1506 VR
Cutting stones with diamond discs and dust extraction									
125 mm cutting guard									
 <p>With guide block and 32 mm Ø extraction nozzle for cutting discs with 125 mm Ø for flange with groove.</p>	125 Ø	1	283.533	-	-	■	-	-	-
230 mm cutting guard									
 <p>For push and pull cuts with vacuum set and adjustable support, extraction nozzle with 32 mm outer Ø, collar Ø 62 mm, cut depth 65 mm max.</p>	230 Ø	1	252.963	-	-	-	-	■	-
Quick-clamp nut									
FixTec quick clamp nut M 14									
 <p>For tool-free tool changes, approved for discs up to 150 mm Ø.</p>		1	313.459	■	-	■	-	-	■
SDS-Clic quick-clamp nut									
		1	253.049	■	■	■	■	■	■
Carrying case									
Small metal carrying case									
 <p>For all angle grinders with disc Ø up to 125 mm.</p>		1	303.224	■	-	■	-	-	■
Plastic multi-carrying case									
 <p>Perfect fitting, impact resistant carrying case, universally adaptable for many different FLEX Machines.</p>		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 M 14 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 1503 VR

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

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

Hook and loop pad, cushioned



12 mm cellular rubber backing pads ensure uniform pressure distribution when polishing and sealing.

Dimensions in mm	QP	Order number
125 Ø	1	350.737
150 Ø	1	350.745

Velcro lambswool pad



For coarse, aggressive polishing and fast results.

Dimensions in mm	QP	Order number
120 Ø	10	230.626

Velcro TopWool



The pad consists of 90 % lambswool and 10 % polyester. This composition provides for more stability and volume. For great polishing effect in combination with the special sanding polish (342.467) on new and older lacquers.

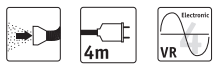
Dimensions in mm	QP	Order number
150 Ø	1	342.521
195 Ø	1	350.265

LST 1503 VR

259.229



Bushhammer for stairs



- VR full-wave electronic control: with speed selection and constant speed control, soft start, overload protection
- Working width adjustable: 3 stages from approx. 40 mm up to 92 mm
- Guide: continuously adjustable for precise work along stone edges
- Dust extraction: for use even in occupied buildings
- Fitted with 60 aggressive carbide tips, the power tool rapidly and precisely copes with all roughening work
- Rotating tool head on rubber bearings, reducing noise and vibration and increasing the life of the drive unit
- The grip guard directly over the tool enables precise guidance of the power tool

SPECIFICATIONS	LST 1503 VR
Speed without load	800-2400 rpm
Power input	1200 watt
Power output	700 watt
Working width	40-92 mm
Weight	5,90 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



Bushhammering prevents slippage

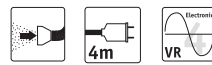
Smooth natural stone floors can turn into slippery danger zones in wet weather. Roughening helps alleviate this problem and ensures better traction. In the past this was difficult once the natural stone slabs had been set. But with the FLEX bushhammers this job is taken care of in just a few minutes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

LST 803 VR

259.639



Bushhammer for stairs and large surfaces



- VR full-wave electronic control: with speed selection and constant speed control, soft start, overload protection
- Working width adjustable: 7 stages from approx. 55 mm to 130 mm
- Guide: continuously adjustable for precise work along stone edges
- Dust extraction: for use even in occupied buildings
- Fitted with 80 aggressive carbide tips, the power tool rapidly and precisely copes with all roughening work
- Sits comfortably in the hand and has a grip guard and a shaft handle, making it easy to guide
- Rotating tool head on rubber bearings, reducing noise and vibration and increasing the life of the drive unit

SPECIFICATIONS	LST 803 VR
Speed without load	800-2400 rpm
Power input	1800 watt
Power output	1200 watt
Working width	55-130 mm
Weight	7,20 kg

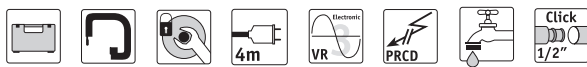
STANDARD EQUIPMENT	
1 grip cover	253.676
1 stop, complete	259.193
1 carbide tipped complete 140 Ø	261.654
1 hexagon socket screw key, special tool 5	115.460
1 pin wrench	100.110

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

BHW 1549 VR

299.197

**Blind hole drill with integrated water feed**

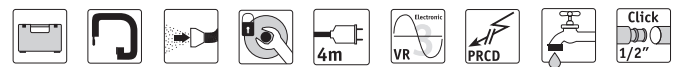
- VR electronic control: with tachogenerator constant speed control, overload protection, and speed selector wheel
- Quick-action, brass coupling: for 1/2" water hose
- Integral water feed through the drive shaft ensures optimum cooling of diamond bits
- For hand operation or for use on our BD 6 and BD 18 drill stands
- Can also be used with FLEX pressurized water tanks
- GFCI operator protector circuit breaker: integrated in cord

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	3,30 kg

STANDARD EQUIPMENT	
1 bail handle	236.934
1 open-ended wrench SW 17	106.461
1 splash guard	255.171
1 metal carrying case	273.686

BED 18

290.300

**Anchor drilling unit with integrated water feed**

- VR electronic control: with tachogenerator constant speed control, overload protection, and speed selector wheel
- Suction cup and vacuum: for fixing to smooth surfaces
- Precise drill centring by accurate positioning with cross-hair registration marks
- Quick-action, brass coupling: for 1/2" water hose
- Adapter for vacuum extraction
- Ideal for hard, fragile materials, including porcelain stoneware tiles, concrete, stone and masonry
- When using FLEX industrial vacuums to extract drilling sludge, an additional vacuum is created to allow vacuum fastening of the drill stand
- Integrated water feed through the drive shaft
- GFCI operator protector circuit breaker: integrated in cord

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	4,10 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 metal carrying case	293.008

BHW 812 VV

277.940



Core drilling machine for wet drilling



- VV electronic control: constant speed control, soft start with continuous speed control trigger, overload protection, temperature monitoring and speed selection
- Long additional handle: turns and latches in pre-set positions to absorb high torque in freehand operation
- Safety slip clutch: offers protection if the core drill is jammed
- Clamping neck: 53 mm, suitable for application in drilling stands
- Quick-action, brass coupling: for 1/2" water hose
- Integrated water feed through the drive shaft
- Suitable for hammer-free drilling of concrete, flush fitting of junction boxes flue connections and cutting breakthroughs
- Also ideal for precise drilling holes to fix heavy-duty anchors
- GFCI operator protector circuit breaker: integrated in cord



Free hand core drilling in concrete with the BHW 812 VV

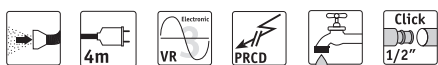
In connection with the FLEX industrial vacuum cleaner and the pressurised water tank WD 10, three finely attuned components function together perfectly. The non-hammering core drilling method allows for precise and fast drilling even in reinforced concrete.

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	4,70 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 plastic carry case	329.908

BED 55

257.081

**Core drilling unit with integrated water feed**

- VR electronic control: with tachogenerator constant speed control, overload protection, and speed selector wheel
- Stationary drill stand: with precision column guide, drill stroke up to 300 mm
- Water collector with suction cup: for collecting water, even on stairs
- Safety slip clutch: offers protection if the core drill is jammed
- Quick-action, brass coupling: for 1/2" water hose
- Sturdy drill stand with side support and long spindle travel
- The spindle drive unit swings, making corners and recesses on parapets, gravestones and in baths accessible
- Integrated water feed through the drive shaft
- GFCI operator protector circuit breaker: integrated in cord

SPECIFICATIONS	BED 55
Power input	1200 watt
Power output	700 watt
Speed under load 1st/2nd/3rd gear	350-1000 / 800-2300 / 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
Stationary drill stand BD 05	254.436

BED 69

254.175

**Core drilling unit for drilling edges in facing slabs**

- VR electronic control: with tachogenerator constant speed control, overload protection, and speed selector wheel
- Clamping device: for slab thickness from 20 to 50 mm, with 2 adjustable stops (60/60 cm)
- Integrated water feed through the drive shaft
- Drilling unit works torsion-free and at an exact right angle
- Quick-action, brass coupling: for 1/2" water hose
- GFCI operator protector circuit breaker: integrated in cord

SPECIFICATIONS	BED 69
Power input	1200 watt
Power output	700 watt
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	
Stationary drill stand BD 06	254.186

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	L in mm	QP	Order number
6 Ø	58	88	1	315.052
8 Ø	73	103	1	315.060
10 Ø	88	118	1	315.079
12 Ø	98	128	1	315.087
14 Ø	113	143	1	315.095

Additional accessories

Sharpening stone for diamond tools



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

Suction hose



Vacuum hose, consisting of: 1 vacuum hose (255.505) and 1 vacuum hose connection (255.507).

QP	Order number
1	255.506

Vacuum hose

QP	Order number
1	255.505

Vacuum hose connection

QP	Order number
1	255.507

AS 28

345.121



FLEX terso: the cleaning machine for small areas, hard-to-reach places and stairs



- High-power rechargeable lithium-ion battery 3,0 Ah
- Four ergonomically positioned hand-grips
- The tilting cleaning head features a full brush skirt and a rotatable hood to protect against splashing water
- Bayonet fitting for tool-free accessory change
- The terso can be connected to an external water supply point
- Universal dry and wet cleaning
- Pressure tank for cleaning liquid
- Ideal for hard-to-reach areas, for cleaning and gentle preparation of various surfaces, including polishing



SPECIFICATIONS	AS 28
Battery voltage	28 V
Battery capacity	3,0 Ah
Power input	800 watt
No load speed 1st gear	0-650 rpm
No load speed 2nd gear	0-1800 rpm
Weight with battery	8,60 kg
Tank volume	1 l

STANDARD EQUIPMENT	
1 cleaning brush with splash guard	345.903
1 double sides backing pad	345.814
1 charger	345.512
Battery pack	345.520 (2x)
1 polstered shoulder strap	345.741
1 padded carrying bag	346.020

Accessories for AS 28

Universal sponge pad



Universal pad for cleaning on smooth surfaces.

Dimensions in mm	QP	Order number
200 Ø	2	345.865

Porcelain stoneware sponge pad



Highly absorbent sponge pad for use on porous surfaces. Only used wet!

Dimensions in mm	QP	Order number
200 Ø	2	350.702

Microfibre pad



For dry and wet cleaning on smooth surfaces.

Dimensions in mm	QP	Order number
200 Ø	2	345.873

Cleaning brush with splash guard



For use on hard surfaces.

Dimensions in mm	QP	Order number
200 Ø	1	345.903

Cleaning brush with spray protection, soft



With soft-care bristles to protect the surface.

Dimensions in mm	QP	Order number
200 Ø	1	350.699

Diamond polishing disc, stage 1



For cleaning and smoothing marble and synthetic stone floors. For smoothing damaged surfaces and removing deep scratching. The result is a finely ground surface. All applications use nothing but water – without any chemical additives.

Dimensions in mm	QP	Order number
200 Ø	1	352.330

Diamond polishing disc, stage 2



For cleaning and smoothing marble and synthetic stone floors. For smoothing damaged surfaces and removing fine scratching. The result is a finely polished surface. All applications use nothing but water – without any chemical additives.

Dimensions in mm	QP	Order number
200 Ø	1	352.349

Diamond polishing disc, stage 3



For cleaning and smoothing marble and synthetic stone floors. For smoothing and regular cleaning of damaged surfaces and removing any residual fine scratching. The result is a polished surface. All applications use nothing but water – without any chemical additives.

Dimensions in mm	QP	Order number
200 Ø	1	352.357

Polishing sponge



For cleaning and smoothing marble and synthetic stone floors and smoothing damaged surfaces. The result is a shining finish. Also suitable for retaining the shine in daily cleaning and removing minor areas of damage. All applications use nothing but water – without any chemical additives.

Dimensions in mm	QP	Order number
200 Ø	1	352.365

K 120 grinding brush



With abrasive bristles. For thorough smoothing of heavily soiled surfaces, including concrete slabs and steps, etc.

Dimensions in mm	QP	Order number
200 Ø	1	352.373

K 500 grinding brush



For thorough smoothing of lightly soiled surfaces. Also suitable for care and cleaning of elastomer coatings (chalking). The ageing resisters (paraffins) are decomposed by UV radiation or frequent use of alkaline and solvent-containing cleaning agents. This creates a chalky surface. The only way to remove this is to grind the chalky layer away, using a fast-running grinder (terso) with a fine grinding brush.

Dimensions in mm	QP	Order number
200 Ø	1	352.381

Polishing pad silver



First step of the diamond polishing system. For pre-polishing and removing smaller scratches and tracks.

Dimensions in mm	Grit	QP	Order number
200 Ø	grit 800	3	345.830

Polishing pad yellow



Second step of the diamond polishing system. For polishing and manufacturing a shining surface.

Dimensions in mm	Grit	QP	Order number
200 Ø	grit 1500	3	345.849

Polishing pad green



Third step of the diamond polishing system. High gloss polishing, gloss preservation, maintenance cleaning.

Dimensions in mm	Grit	QP	Order number
200 Ø	grit 3000	3	345.857

Polishing pad set



For pre-polishing, polishing and high-gloss polishing in three steps. Consisting of polishing pad 1 x silver, 1 x yellow, 1 x green.

Dimensions in mm	QP	Order number
200 Ø	3	346.012

Double sided backing pad



Double-sided carrier for grinding and polishing pad/sponge and microfibre pad – for simple and toolless change.

Dimensions in mm	QP	Order number
200 Ø	1	345.814

Padded carrying bag



The clean holdall for the machine and accessories. Also protects against damage.

QP	Order number
1	346.020

Polstered shoulder strap



Especially for long-term employments.

QP	Order number
1	345.741

Battery pack



Lithium ionen accu with 28 V/3 Ah.

QP	Order number
1	345.520

Charger



Charging time approx. 60 min for Li-Ion battery pack 28 V/3 Ah.

QP	Order number
1	345.512

S 47

336.912



Special industrial vacuum cleaner with automatic filter cleaning system



- Automatic flat-fold filter cleaning system
- Continuous automatic flat filter cleaning ensures no loss of suction
- Full utilization of the container volume ensures problem-free vacuum extraction of large amounts of dust
- Innovative cleaning system brings longer life and reduces maintenance costs
- Stepless motor speed control for individual setting of vacuuming power
- Suitable for wet vacuuming: with electronic liquid level control
- Suction hose with minimum flow resistance for optimal extraction
- Connection for power tools: up to 2200 Watt power input
- Automatic switch-on and 15 seconds run-on
- No paper filter bag necessary. The S 47 and S 47 M industrial vacuum cleaners have been specially developed for use without a paper filter bag, since paper filter bags clog up after only a short time extracting mineral dust and therefore block the airflow. Waste bags can be used for low-dust emptying of the container
- Approved for dust class L

SPECIFICATIONS

	S 47
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	13,50 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
1 elbow	297.038
0,5 m metal vacuum tube	300.691 (2x)
1 floor nozzle complete with carpet combination insert	300.659
1 crevice nozzle	259.627
1 PP waste disposal bag	340.766

S 47 M

341.363

**Special class M vacuum cleaner with automatic filter cleaning system**

- Safety filter system: conforms to dust category M, maximum permeability < 0.1 %, specifically for health-harmful materials
- Automatic flat-fold filter cleaning system: continuous automatic cleaning of flat filter prevents loss of suction under all conditions
- Acoustic flow-rate monitor
- Exhaust diffuser: Protection against raising dust due to exhausts
- Connection for power tools: up to 2200 Watt power input
- Full utilization of the container volume ensures problem-free vacuum extraction of large amounts of dust
- Innovative cleaning system brings longer life and reduces maintenance costs
- Suitable for wet vacuuming: with electronic liquid level control
- Automatic switch-on and 15 seconds run-on
- Antistatic hose elements
- No paper filter bag necessary. The S 47 and S 47 M industrial vacuum cleaners have been specially developed for use without a paper filter bag, since paper filter bags clog up after only a short time extracting mineral dust and therefore block the airflow. Waste bags can be used for low-dust emptying of the container
- We recommend this vacuum cleaner for use with our electrical power tools: LD 1709 FR, LDC 1709 FR, LD 3206 CD, FS 3403 VRG, HPI 603, MS 1706 FR, WST 700 VV, WST 1000 FV, WS 702 VEA, WSK 702 VEA, WS 1505 FR – in all applications in which mineral dust is generated

SPECIFICATIONS	S 47 M
Filter surface	6200 cm ²
Power input	1380 watt
Max. air flow rate	57 l/sec
Max. air flow rate according to EN 60312	35 l/sec
Max. vacuum	235 mbar
Container volume	45 l
Weight	11,50 kg

STANDARD EQUIPMENT	
4 m vacuum hose 32 mm Ø with adapter 32/28 mm Ø. Universal adapter 25-32 mm Ø and antistatic suction hose extension	1 piece
1 flat folded filter	337.692
1 elbow	297.038
0,5 m metal vacuum tube	300.691 (2 x)
1 PP waste disposal bag	340.766

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

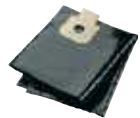
Paper-Filter bags



Filter bag for S 47 and S 47 M.

QP	Order number
5	340.758

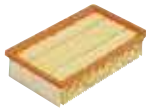
Disposal sack



For S 47.

QP	Order number
10	340.766

Flat folded filter



Sturdy and ultra-strong flat-fold filter with special nano-coating. Extremely long-life filter, superb suction results, ensuring a high level of economy. For S 36, S 36 M, S 47 and S 47 M.

QP	Order number
1	337.692

Adapter



Adapter 32/28 mm, for connecting machines with 28 mm Ø vacuum attachment to 32 mm vacuum hose.

QP	Order number
1	251.847

Adapter rotating



Adapter 32/32 mm, for connecting a machine with 32 mm Ø vacuum cleaner outlet (e.g. renovation sander or angle grinder with cutting guard) with 32 mm vacuum hose.

QP	Order number
1	328.308

Adapter



Adapter 32/36 mm, for connecting machines with 36 mm Ø 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 Ø 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 Ø 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 Ø.

QP	Order number
1	252.188

Vacuum tube



Metal vacuum tube, 0.5 m long, galvanized.

QP	Order number
1	300.691

Vacuum hose



32 mm internal Ø, with snap coupling, 4.0 m long, temperature resistant to 70 °C, incl. coupling bush for vacuum, 32/28 mm adapter and universal adapter for S 47 and S 47 M.

QP	Order number
1	338.508

Anti-static vacuum hose



The anti-static system prevents the generation of electrostatic charges 32 mm internal Ø, with snap coupling, 4.0 m long, temperature resistant to 70 °C, incl. coupling bush for vacuum, 32/28 mm adapter and universal adapter. For S 47 and S 47 M.

QP	Order number
1	341.770

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

ALi 10,8 G

338.583



2 speed cordless drill/screwdriver with lithium-ion technology



- 20 torque and 1 drill set
- Quick-action chuck with spindle lock
- Exchangeable lithium-ion battery 1,3 Ah
- No memory effect
- Integrated LED light
- Rapid battery charger (charge time 60 min)
- Small machine with lots of power
- Ergonomically designed, non-slip, soft grip handle for safe, comfortable working
- Perfect for drilling in wood, plywoods, plastics and metal.
Thanks to its compact design it is especially good when working in restricted spaces

SPECIFICATIONS	ALi 10,8 G
Battery voltage	10,8 V
Battery capacity	1,3 Ah
Torque max.	24 Nm
Torque positions	20+1
No load speed 1st gear	0-345 rpm
No load speed 2nd gear	0-1240 rpm
Chuck Ø	0,8-10 mm
Weight with battery	1,10 kg

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

ACH 14,4

348.430

NEW



2-speed cordless impact drill 14,4 V



- Exchangeable lithium-ion battery 2,6 Ah
- No memory effect
- Integrated LED light
- Quick-action chuck with spindle lock
- 15 torque settings and 1 drill setting
- Clockwise and counterclockwise rotation: middle setting: safety lock
- Hammer drilling function
- Charge indicator
- Rapid battery charger (charge time 60 min)
- Ergonomically designed, non-slip, soft grip handle for safe, comfortable working
- Ideally suited for use on the construction site. Max. torque: soft torque 25 Nm, hard torque 75 Nm
- Two speeds for excellent results in drilling wood, composite wood products, plastic and metal

SPECIFICATIONS	ACH 14,4
Battery voltage	14,4 V
Battery capacity	2,6 Ah
Torque max.	25/75 Nm
No load speed 1st gear	0-500 rpm
No load speed 2nd gear	0-1800 rpm
Impact count	27000 rpm
Chuck Ø	1,5 - 13 mm
Weight with battery	1,90 kg

STANDARD EQUIPMENT	
Battery pack	348.708 (2x)
1 rapid battery charger	348.694
1 plastic carry case	1 piece

BRL 3501 A

309.907



The 700 watt rotary hammer drill with double ventilator



- 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 carry case: lots of room for standard equipment and accessories

SPECIFICATIONS	BRL 3501 A
Speed without load	0-1050 rpm
Idle blows	0-4270 rpm
Single impact energy	2,90 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	3,10 kg

STANDARD EQUIPMENT	
1 Softgrip handle	310.301
1 drill depth stop	272.604
1 screw adapter ¼"	272.620
1 quick-clamp chuck Ø 1.5-13 mm	272.639
1 plastic carry case	310.409

Accessories for cordless machines

Battery pack



Li-Ion battery pack 10.8 V/1.3 Ah for ALi 10.8 series.

QP	Order number
1	336.319



Li-Ion rechargeable battery pack 14.4 V/2.6 Ah for AC and ACH.

QP	Order number
1	348.708

Rapid charger



Charging time 60 min for battery pack 10.8 V/1.3 Ah Li-Ion.

QP	Order number
1	336.327

Rapid charger



Charging time 60 mins. for Li-Ion battery 14.4 V/2.6 Ah.

QP	Order number
1	348.694

LED light



Battery not included. The standard auxiliary battery in the ALi 10.8 V series or battery pack 336.319 can be used.

QP	Order number
1	336.335

Holster



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

QP	Order number
1	337.277

R 502 FR

314.595



1010 watt 2-speed mixer with 2 mixing heads



- FR full-wave electronic control: with soft start, temperature monitoring, overload protection and continuous speed control trigger - for a controlled run-up to the optimum mixing speed. Sustained power in all speed ranges
- Large, rugged 2-speed gear unit with optimum ratios for powerful torque and right speed for different materials
- Ergonomic handles on the drive unit: low weight, fatigue-free arm posture and upright body posture allow comfortable, ergonomic operation. With anti-slip coating
- Stable safety and deposit hoop: Protects the machine from dirt and damage
- 1st speed: with RS 1 mixer paddle, ideal for mixing low-viscosity materials
- 2nd speed: with RS 0 mixer paddle with counter-flow effect for mixing highly fluid materials

SPECIFICATIONS	R 502 FR
No load speed 1st gear	0-530 rpm
No load speed 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	4,20 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

R 600 VV

282.359



1300 watt mixer with speed selection



- VV electronic control: with constant speed control, soft start with continuous speed control trigger, overload protection and speed selector wheel
- 1300 Watt double positive mixer
- Mixing head adapter: M 18, with adapter M 14
- Stable safety and deposit hoop: Protects the machine from dirt and damage
- Long side handgrip for fatigue-free torque take-up
- Spade handle with integrated switch for maximum operator convenience
- Ideal for mixing paint, stiff adhesives, solvents and insulation compounds in continuous use
- Rugged and long-life for heavy-duty use

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	5,40 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



Getting down to business

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

Mixing heads 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
- 600 mm overall length.

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

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 external thread
- Sturdy, welded steel construction with limit nut
- 600 mm overall length.

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

Mixing heads for R 600 WV

Mixing head RS 2



For liquid, low viscosity material, such as paint, masonry and emulsion paints, two-component paint, varnish, 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
- 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 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.

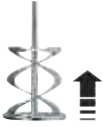
Mixing principle from bottom to top: the three mixer blades ensure that work progresses rapidly. Maximum mixing effect, thanks to high shear force. Effortless application and ease of motion.

Equipment:

- Shaft with M 14 x 2.0 external thread
- Solid welded steel design with limit nut
- 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 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 helices with low shearing force for effortless mixing.

Equipment:

- Shaft with M 14 x 2.0 external thread
- Solid welded steel design with limit nut
- 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 head RS 5



For liquid, fibrous material, such as emulsion, 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
- 600 mm overall length.

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

Accessories for R 502 FR and R 600 WV

M 18 to M 14 adapter



For attaching mixing paddles to R 600 and R 600 WV mixers. This adapter allows all mixing paddles to be attached to any commercially available mixing machine with an M 18 thread.

QP	Order number
1	250.484

M 14 to M 14 adapter



For connecting mixing head fixtures to mixing machines R 500 FR and R 502 FR. All 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

ALC 311

311.286



Self-levelling cross-hair laser



- Three visible, individually switchable laser lines
- Cross-laser projection
- Vertical line 90° to cross laser
- Self-levelling with robust magnetic damping
- Optical and acoustical warning signal when self-levelling range is exceeded
- Transportation lock
- Ideal for interior finishing: suspended ceilings, aligning metal studs in drywall construction, fitting doors and windows, transferring heights, levelling tiles, flush fittings, 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	0,70 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



Self-levelling multi-line laser for visual room layout



- Three visible single laser lines with 180° wide angle beams individually on/off switchable
- Cross-laser projection
- On/Off switchable perpendicular point function
- Pulsating beam for use with receiver
- Self-levelling with robust magnetic damping
- Optical and acoustical warning signal when self-levelling range is exceeded
- Transportation lock
- with universal floor tripod
- Dust- and splash-proof
- Ideal for high-standard levelling and measurement projects, e.g. in civil engineering, interior finishing and outdoors

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	1,60 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 carry case	1 piece



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, ALC 512, 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 laser beam over long distances or in bright surroundings.

QP	Order number
1	315.281

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

Laser goggles



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

QP	Order number
1	312.134

For your safety.

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 warranty will take care of it, quickly and unbureaucratically.



Electrical safety of operation

Faulty tools pose a hazard to the user when precautions are not taken seriously in high voltage areas, to prevent electric shock. FLEX electrical power tools are insulated according to the safety classes I and II from EN 60745.

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 61558.

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).

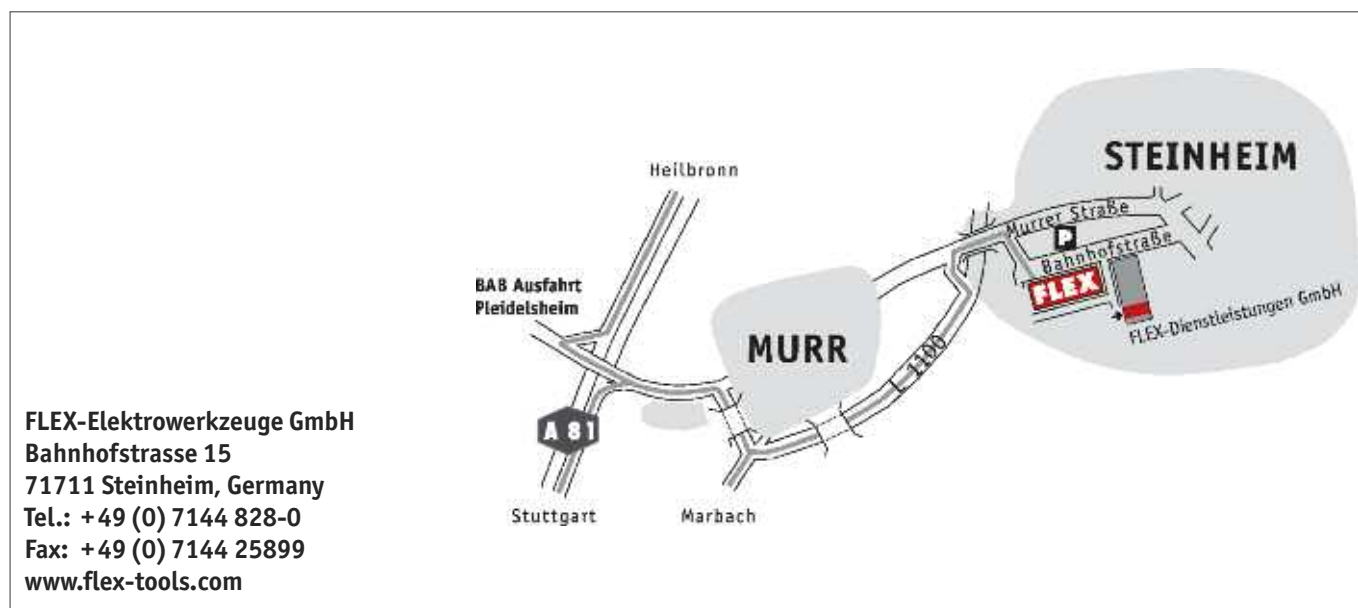
Radio interference suppression

FLEX electrical power tools are shielded according to EN 55014 and EN 61000 according to EU directive 2004/108/EC.

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 warranty 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 warranty 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 warranty 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.

How to find us.



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:
 Tel.: +49 (0) 7144 828-0
 Fax: +49 (0) 7144 25899
 info@flex-tools.com
 www.flex-tools.com

Should you wish to give us your opinion, make suggestions on improving FLEX machines, or tell us how we can expand our program – please 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 local 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.

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Subject to technical modifications.

Your FLEX retailer