FLEX

Das Original

Power Tools 2016/2017

Contents

Product features

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

L-Boxx
FLEX transport and organisation system.

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

Restart protection
Restart protection after power interruption.

Carrying case
Rugged metal or plastic case.

Guard adjustment
Tool-free guard adjustment from both sides.

Dust extraction
Extractor connection

Carrying bag
Sturdy, cushioned, robust and light transport bag.

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

Antistatic equipment
Discharge function prevents static charging.

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

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

Suction hose
Suction hose length.

Lithium-ion technology
No self-discharge, no memory effect.

FixTec quick-lock nut
Tool-free disc change.

Automatic main filter cleaning
Time-controlled filter cleaning. Enables constantly high suction power.

Mains cable
Cable length

Bail handle
Additional bail handle for a more comfortable grip.

Manual main filter cleaning
Manual filter cleaning. Enables constantly high suction power.

Mains cable
Mains cable PUR

Side handgrip
Hand grip optionally on left or right side.

Container volume
Max. gross filling volume.

Mains cable
Mains cable with flex red plug.

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

Dust class
Classification for dust-removing machines.

VE electronic control
Continuous speed selection and overload protection.

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

Max. power consumption
ECO – economic, highly efficient fan motor.

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

Central water feed
For wet-grinding granite and marble.

Dry suction function
Sucking up non-flammable and non-explosive dust/dirt.

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

Quick-fit coupling
Quick-fit brass coupling: for ½" water hose

Wet suction function
Sucking up non-flammable and non-toxic liquids.

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

GFCI operator protector circuit breaker
Integrated GFCI cicuit breaker protection circuit breaker with normal Schuko plug for 230 V sockets.

Connected load
Socket from 100 Watt to ... for connecting power tools.

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

Control electronics with soft start
Reduced start-up current when the vacuum starts.

Electric power tools for professionals

Innovation comes from tradition.

For over 90 years, everyone has heard of it. Many use it every day. But very few people know that "flexen", a common German verb, actually refers back to an invention developed by FLEX, formerly known as Ackermann + Schmitt.

Where does "flexing" actually come from?

In 1922, Hermann Ackermann and Hermann Schmitt started a company in Stuttgart-Bad Cannstatt to produce and sell their new invention: the MS 6 hand-held grinding machine, featuring an electrical motor that drove a flexible shaft. This feature was the inspiration for this brand-new tool's name: FLEX. And this is the origin of today's brand name and a verb that has become an integral part of everyday German vocabulary: "flexen".

In 1996, Ackermann + Schmitt renamed itself FLEX. In 2006, "flexen" was officially added to the Duden spelling dictionary.

From the shaft to today's angle grinder.

In the late 1920s, the engineers succeeded in replacing the flexible shaft with an angle gear set. This was the world's first angle grinder, also sold under the brand name FLEX. FLEX started becoming established as a new word.

In 1935, Ackermann + Schmitt launched a low-speed angle grinder. In 1954, it unveiled the first high-speed angle grinder: the DL 9. By now, FLEX was synonymous with angle grinder, while the verb "flexen" completely replaced the less snappy verb "trennschleifen" ("abrasive cutting") in colloquial German.

The FLEX still uses the same basic approach, but the tool itself continues to evolve and improve. High-tech plastics replaced cast iron, making the tools considerably lighter. Motor power has increased, but motors have grown smaller and smaller. The motor and gears have become better protected against grinding and cutting dust; the tools are now more durable, quieter and more ergonomic.

The basic idea of the angle grinder has proved to be so efficient and successful that it is incorporated into other machines and will continue to drive new innovations.

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 FLEX 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 the 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.

The original "Made in Germany".

The heart beating in any original FLEX is created from the outset in our motor manufacturing plant in Steinheim. This is where a wide range of electric motors are produced, perfectly matched to customer needs. From the fully automated winding of 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, steel and aluminium machining and the continuous quality controls in all other stages of production ensure the high quality standards.

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

In the FLEX Research and Development Department, all new developments 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 FLEX remains able to apply the latest manufacturing technologies in the future.