

EGO

STIHL

FUSIONCORE

**AS
MOTOR**

**You have the batteries —
we have the professional equipment**

WHAT PROFESSIONALS *EXPECT*



AS
MOTOR

PERFORMANCE

ALWAYS FORWARD, NEVER BACKWARDS! In terms of power and performance, a professional cordless tool must perform at least as well as, or better than, a comparable petrol-powered model. Otherwise, there is no point in switching. The unit of measurement for the power of an electric motor is the WATT (W).

RUNTIME

BATTERY CAPACITY DETERMINES RUNTIME. Petrol contains a lot of energy. Unfortunately, it is expensive, used inefficiently and derived from fossil fuels. The latest generation of Li-ion batteries uses electrical energy highly efficiently and provides professional users sufficient runtime. The measure of runtime is the energy content of a battery, i.e. its capacity. The physical unit for the capacity of a battery is WATT-HOURS (Wh).

MULTIPLE BATTERY USABILITY

TRY BEFORE YOU BUY. Choosing a battery system is a long-term decision and should be carefully considered. When you buy high-quality batteries, you are usually committing to a manufacturer's ecosystem. A particular advantage for professional users is the option to use a battery system across different manufacturers as a MULTI-BATTERY on other specialist machines.

AS-MOTOR
ELECTRIC

OUR PARTNERS FOR *EPOWER*

STIHL

Considered a leader among discerning private users and, with the AP system, also among professional users in the landscaping sector. Stihl is renowned for high quality and durability. Stihl batteries are the most widely used batteries in Europe. NEW: Other well-known manufacturers are now also using Stihl's new Allpro battery system.

EGO POWER+

Regarded as one of the most innovative manufacturers and a market leader in the field of 56V battery technology, with strong growth in Europe. Unlike many other manufacturers, EGO has relied on a single battery system from the outset. This enables maximum compatibility between all application tools, right up to ride-on mowers. The EGO Power Unit is also used by many other manufacturers of professional specialist garden machinery.

FUSIONCORE

The FusionCore system is an in-house development by the Ariens Company. It was developed exclusively for use in high-performance professional ride-on mowers. Thanks to its quick-change batteries, you can switch between lawnmowers and the AS 920 SHERPA 2WD in a matter of seconds. When using additional batteries, uninterrupted operation is possible throughout an entire workday.



AS-MOTOR *EVOLUTION*

In 1969, AS-Motor launched its first battery-powered lawnmower, which immediately became a bestseller. Although it was still fitted with a lead-acid battery at the time, users wanted to enjoy the benefits of a cordless lawnmower: quieter operation and low maintenance.

The battery technology of yesteryear bears little resemblance to the latest versions. Currently, the very latest high-performance tabless cells are used. Tabless cells have significantly reduced internal resistance and can therefore deliver higher and more consistent power, charge faster and be recharged over 3,000 times. The new Stihl Allpro battery system uses this high-performance cell type, as does EGO Power+ in its new 8.0 Ah MAX battery.



300 S



500 S



200.0 P



300.0 P



8Ah



10Ah



12Ah



AS 920
ESherpa 2WD



56V



THE RIGHT *ESYSTEM* FOR EVERY APPLICATION

ALL DEPENDS ON THE APPLICATION

Different applications require different engine power ratings. Different engine power ratings require different battery capacities. The higher the power requirement, the larger, more powerful, but also heavier the batteries become.

BASIC RULES FOR CHOOSING A BATTERY SYSTEM

36-volt-systems enable very light and manoeuvrable tools up to the medium power class. Example: hedge trimmers right up to small lawnmowers.

For medium to high power requirements, **56-volt-systems** or two 36-volt batteries connected in series are used, creating a **72-volt-system**. This power class also includes 56-volt or 36-volt backpack batteries. Examples include professional lawnmowers.

In the highest performance class, several **56-volt batteries** are used in parallel. Example: professional tall grass mowers, ride-on mowers and professional ride-on mowers.



COMPARISON OF THE POWER REQUIREMENTS for different devices and tasks

	HOME USERS	SEMI-PROFESSIONAL USERS	PROFESSIONAL USERS
Hedge trimmers	400 - 700 W	700 - 900 W	900 - 1.000 W
Brush cutters	500 - 800 W	800 - 1.000 W	1.000 - 1.200 W
Hand-held leaf blowers	400 - 1200 W	1.200 - 1.400 W	1.400 - 1.600 W
Backpack leaf blowers	1.200 - 1.500 W	1.500 - 1.800 W	1.800 - 2.200 W
Chainsaws	1.000 - 1.500 W	1.500 - 2.000 W	2.000 - 3.000 W
Lawnmowers	1.000 - 2.000 W	2.000 - 2.500 W	2.500 - 3.200 W**
Tall grass mowers		3.200 W**	3.400 W**
Ride-on mowers	medium**	high**	very high**

PERFORMANCE

650 W

1.200 W

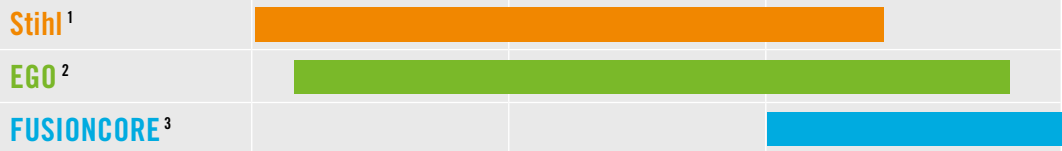
1.500 W

2.400 W

2.900 W

3.500 W

SUITABILITY OF THE BATTERY VOLTAGE for the relevant task



1: Either 1 x 36V battery or 2 x 72V batteries, depending on requirements and the system

2: 1 or 2 EGO handheld batteries, depending on requirements and the system

3: 2 to 4 Ariens FusionCore batteries in parallel, depending on requirements

** several 56V batteries in parallel

AS-MOTOR *EPROCLIP*

TRUE PROFESSIONAL BATTERY-POWERED MULCHING LAWMOWERS ARE RARE. A powerful electric motor alone does not make a professional mower. In daily use, professional lawnmowers are put under heavy strain. Off the trailer, over the kerb and then full throttle – or rather: full wattage. The frame, cutting deck, drive system and bearings are crucial for the longevity of a machine.

PRESERVING PROVEN TECHNOLOGY, ADDING NEW BATTERIES. We didn't need to reinvent our AS 510 E professional mulching mower. For over a decade, the petrol version has built a reputation as a reliable professional mower with perfect cut and mulching quality.

UNSCREW THE ENGINE, INSTALL REAL BATTERY POWER. The AS 510 E is available in two versions with professional battery power. The choice is yours: either 72V Stihl or 56V EGO. Use batteries from the Stihl AP and/or the new Stihl Allpro system on the AS 510 E, or use your EGO Power+ 8/10/12 Ah batteries.

WHETHER YOU CHOOSE ONE OR THE OTHER, THE AS 510 E REMAINS PROFESSIONAL: ➤ A third motor shaft bearing and slip clutch protect the motor in the event of the blade colliding with foreign objects. ➤ Powerful rear-wheel drive via large wheels for high traction. ➤ Variable speed. ➤ Mechanical gearbox, just like on a petrol-powered machine. ➤ Folding handlebar with quick-release fastener. ➤ Rolled "one piece" steel mulching bell. ➤ Extra-narrow, double-ball-bearing front wheels do not push down grass. ➤ Rotated motor with rear-mounted batteries for easy lifting and turning of the mower. ➤ Central cutting height adjustment.



AS 510 *EProClip A*

Cutting width	51 cm
Work rate max.	2.000 m ² /h
Wheel drive	Variomatic
Speed	1,8 – 3,9 km/h
Cutting height adjustment	40 – 90 mm
Weight w/o batteries	44 kg
Dimensions in cm	L 139, B 55, H 100
Item number	G51000113



AS 510 *EProClip A AP*

Cutting width	51 cm
Work rate max.	ca. 2.000 m ² /h
Wheel drive	Variomatic
Speed	ca. 1,8 – 3,9 km/h
Cutting height adjustment	40 – 90 mm
Weight w/o batteries	ca. 44 kg
Dimensions in cm	L 139, B 55, H 100
Item number	G51000114

**AS
MOTOR**

AS-MOTOR *EPROCUT*

ONCE YOU TRY ELECTRIC MOWING, YOU'LL NEVER GO BACK. In hardly any other applications are the advantages of battery technology as clearly noticeable and audible as when blowing leaves, trimming hedges and mowing the lawn. Battery-powered tools impress with their lower weight, greater ease of use and reduced strain on the user.

EVEN THE CUT QUALITY IS BETTER THAN WITH A COMBUSTION ENGINE.

Electric motors automatically adjust their power output to the vegetation. This keeps the blade speed consistently high and prevents it from dropping under load, unlike with a combustion engine. The result is a visibly better cut.

NOISE AND HAND-ARM VIBRATIONS put a strain on the user. The Occupational Safety and Health Regulations have set the trigger value for daily vibration exposure at 2.5 m/s². The AS 531 E-ProCut professional lawnmower achieves a value of just 1.0 m/s².

THE PERCEIVED NOISE LEVEL for the user is reduced by up to 8 dB. This corresponds to almost 50% less perceived noise and is a real benefit for the health of the user and their surroundings.

NO COMPROMISE ON POWER OR PERFORMANCE. The AS-Motor Electric drive system in the AS 531 E-ProCut offers enormous power reserves, even with grass heights of up to 40 cm. Its performance is equivalent to that of a 200 cc 4-stroke engine.



AS
MOTOR

AS 531 E-ProCut B

Cutting width	53 cm
Work rate max.	ca. 2.300 m ² /h
Wheel drive	Variomatic
Speed	2,3 – 4,5 km/h
Cutting height adjustment	30 – 80 mm
Weight w/o batteries	52 kg
Dimensions in cm	L 164, B 59, H 99
Item number	653100116



Low hand-arm vibration of 1.0 m/s² (ahw) and almost 50% lower perceived noise level. As powerful as a professional petrol-powered model.

Comes as standard with a 3-in-1 function: collection, mulching or rear discharge.

AS-MOTOR *EAllmäher*

OUR ALLMOWERS – A SUCCESS STORY SINCE 1959. AS-Motor is the inventor of the allmower. Since 1959, everything we do has revolved around mowing high grass on steep slopes. With our battery-powered electric allmower models, we won the 'Innovation' gold medal at the DemoPark trade fair straight away. The EGO 56V Power Unit provides us with the power and runtime required for high-grass mowers. The technical challenge for high grass mowers lies in the high power and energy requirements when mowing dense, tall grass. The drive unit must deliver maximum performance continuously and be able to cope with sudden power peaks without switching off immediately. The best example of this is the classic molehill on extensively maintained areas.

Whenever you ask yourself: Is there an alternative to professional equipment with a combustion engine? The answer is: **YES!**
Even for high grass and brush!



AS 21 *EAllmäher*

Cutting width	51 cm
Work rate max.	ca. 1.600 m ² /h
Wheel drive	2 gear
Speed	2,7 + 3,2 km/h
Cutting height adjustment	55 – 80 mm
Weight w/o batteries	49 kg
Dimensions in cm	L 200, B 74, H 99
Item number	G06100104



AS 62 *EAllmäher*

Cutting width	61 cm
Work rate max.	ca. 2.400 m ² /h
Wheel drive	Variomatic
Speed	1,8 – 4,0 km/h
Cutting height adjustment	50 – 100 mm
Weight w/o batteries	68 kg
Dimensions in cm	L 191, B 70, H 99
Item number	G60000203



AS 63 *EAllmäher*

Cutting width	61 cm
Work rate max.	ca. 2.200 m ² /h
Wheel drive	Variomatic
Speed	1,6 – 3,4 km/h
Cutting height adjustment	50 – 100 mm
Weight w/o batteries	74 kg
Dimensions in cm	L 191, B 70, H 99
Item number	G60000106

AS
MOTOR

PROFESSIONAL *ERIDE-ON MOWERS*

AS 920 ESHERPA 2WD

FIRST BATTERY-POWERED RIDE-ON BRUSH CUTTER WITH INTERCHANGEABLE BATTERIES.

The performance of the new E-SHERPA surpasses that of its tried-and-tested sibling with a 27 hp combustion engine. The extremely high torque of the 13 kW (peak) blade motor effortlessly tackles even the densest vegetation and undergrowth. An environmentally sensible mowing interval of just one cut per year is achievable with the E-SHERPA. Its quick-change batteries, thanks to their compatibility with ARIENS zero-turn mowers, open up new possibilities for flexible use throughout the entire mowing season.



The FusionCore replaceable batteries for the AS 920 ESHERPA 2WD can be swapped in a matter of seconds and are fully compatible with ...



FUSIONCORE
QUICK SWAP
INTERCHANGEABLE POWER SYSTEM



ARIENS ZENITH E

PROFESSIONAL ZERO-TURN MOWER WITH SWAPPABLE BATTERY SYSTEM.

Zero-turn mowers are becoming increasingly popular with professional service providers. They offer a speed advantage of up to 40 % over conventional lawn tractors. Deep mulching decks and rear or side discharge enable an excellent cut without the need for labour-intensive collection of clippings. The ZENITH E's swappable batteries are compatible across all models and can also be used with the AS 920 E-SHERPA during high grass season. Depending on your needs, the number of batteries can be easily increased to reliably cover even long mowing sessions. With the FusionCore system, you retain full control over your runtime at all times.



... Ariens ZENITH E professional zero-turn mowers ...



... and the Ariens ARROW E professional stand-on zero-turn mower.



FusionCore batteries are charged in the device, or additional batteries can be charged in a portable charging station.



AS-MOTOR *EWeedHex*

MECHANICAL WEED CONTROL, BUT PLEASE BE CONSISTENT. Herbicides were convenient, but never good for people or the environment. Their chemical ingredients often find their way back to the user. The fundamental challenge remains unchanged: weeds continue to grow where you don't want them. Mechanical weed brushes offer an effective alternative without chemicals. The next logical step is to minimise the remaining drawbacks of such machines.

WEED REMOVAL WITHOUT CHEMICALS, WITHOUT EXHAUST FUMES AND WITH LESS NOISE AND VIBRATION. Cordless weed brushes deliver impressive results across the board in practice. In addition to their chemical-free and quiet operation, the electric motor utilises one of its greatest technical advantages: its high torque. Thanks to automatic power adjustment, it maintains the desired speed more consistently than comparable petrol engines. The effective brushing power of such machines is impressive and can even surpass that of petrol-powered models. You'll be surprised at how pleasant it is to work in near-silence without having to compromise on performance. **A real benefit for the user and their surroundings.**



AS 30 EWeedHex

Working width	35 with plate brush 42 cm with brush holder
Wheel drive	—
Weight w/o batteries	38 kg with steel plate brush
Dimensions in cm	L 157, B 61, H 108 – 120
Item number	G07300112



AS 60 EWeedHex

Working width	60 cm
Wheel drive	—
Weight excl. batteries	56 kg
Dimensions in cm	L 178, B 61, H 112
Item number	G07300115



AS 50 EWeedHex

Working width	50 cm
Work rate max.	ca. 800 m ² /h
Wheel drive	Variomatic
Speed	1,2 – 2,5 km/h
Weight w/o batteries	ca. 69 kg
Dimensions in cm	L 192, B 61, H 99
Item number	G07300113



AS 30 EWeedHex AP

Working width	35 with plate brush 42 cm with brush holder
Wheel drive	—
Weight w/o batteries	ca. 38 kg with steel plate brush
Dimensions in cm	L 157, B 61, H 108 – 120
Item number	G07300118



AS 60 EWeedHex AP

Working width	60 cm
Wheel drive	—
Weight w/o batteries	ca. 56 kg
Dimensions in cm	L 178, B 61, H 112
Item number	G07300117



AS
MOTOR



AriensCo GmbH
Ellwanger Straße 15
74424 Bühlertann
Germany

Phone +49 (0) 79 73 / 91 23-0
info-eu@ariensco.com
www.as-motor.de

AS-MOTOR / ELECTRIC



Errors and omissions excepted.
No claims can be derived from
information or illustrations.