

## Definitions

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- 1. Battery Compartment**  
Accommodates the battery in the unit.
- 2. Water Nozzle**  
Supplies the abrasive wheel with water.
- 3. Spindle Lock**  
Must be depressed before the wheel can be mounted or changed.
- 4. Abrasive Wheel**  
Can either be a composite abrasive wheel or a diamond abrasive wheel.
- 5. Water Attachment**  
For connection of water supply for wet cutting.
- 6. Shut-off Valve**  
Allows to shut off/on the water supply.
- 7. Guard**  
Guards the wheel and deflects sparks, dust, cutting debris or wheel fragments.
- 8. Front Thrust Washer**  
Distributes clamping pressure of mounting nut evenly over cutting wheel.
- 9. Front Handle**  
Handlebar for the left hand of the power tool.
- 10. Trigger Switch**  
Switches the motor on and off.
- 11. Trigger Switch Lockout**  
Must be depressed before the trigger switch can be activated.
- 12. Rear Handle**  
The support handle for the right hand.
- 13. Retaining Latch**  
Locks or unlocks the trigger switch.
- 14. Battery Locking Tabs**  
Secure the battery in the unit.
- 15. Battery**  
Supplies the motor with electrical power.
- 16. Push Button**  
For activating light emitting diodes (LEDs) on battery.
- 17. Light Emitting Diodes (LEDs) on Battery**  
Indicate the state of charge and operating condition of the battery.
- 18. Charger**  
Charges the battery.
- 19. Light Emitting Diode (LED) on Charger**  
Indicates charger operating mode and certain problems.
- 20. Power Supply Cord**  
Supplies electric current to charger.

## Specifications

### Battery

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Type: Lithium-Ion

Designation: AP

The machine may be operated only with original STIHL AP rechargeable batteries.

Running time is dependent on the energy content of the battery.

STIHL AP series rechargeable batteries may be charged only with original STIHL AL series chargers.

### Charger

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#### AL 100

Power supply: 120 V / 60 Hz

Rated current: 1.3 A

Power consumption: 75 W

Charge current: 1.6 A

Insulation: II,  (double insulated)


#### AL 300

Power supply: 120 V / 60 Hz

Rated current: 4.7 A

Power consumption: 330 W

Charge current: 6.5 A


Insulation: II,  (double insulated)

#### AL 500

Power supply: 120 V / 60 Hz

Rated current: 4.8 A

English

Power consumption: 570 W  
Charge current: 12 A  
Insulation: II,  (double insulated)

**Abrasive wheels**

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The quoted maximum permissible operating speed of the abrasive wheel must be greater than or equal to the maximum spindle speed of the cut-off machine used.

Max. spindle speed: 6650 rpm  
Outside diameter: 230 mm (9 ")  
Max. thickness: 3 mm  
Bore diameter/spindle diameter: 22.23 mm (7/8 ")  
Tightening torque: 20 Nm (177 lbf. in.)

**Composite resin abrasive wheels**

Minimum outside diameter of thrust washers: 80 mm (3.150 in.)  
Max. depth of cut: 70 mm (2.756 in.)

**Diamond abrasive wheels**

Minimum outside diameter of thrust washers: 80 mm (3.150 in.)  
Max. depth of cut: 70 mm (2.756 in.)

**Weight**

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without battery, without abrasive wheel, with water connection 3.9 kg (8.6 lbs.)

**Water supply**

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Max. pressure of water supply: 4 bar (58 psi)

**Transport**

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STIHL batteries fulfill the requirements stated in UN-Manual ST/SG/AC.10/11/Rev.5 Part III, Subsection 38.3.

The user can transport STIHL batteries by road transport to the place where the machine is to be used without additional requirements.

The lithium ion batteries included are subject to the provisions of the legislation relating to dangerous goods.

When shipped by a third party (e. g. air transport or haulage firm), special packaging and identification requirements must be observed.

When preparing the item for shipment, a dangerous goods expert must be consulted. Please observe any further national regulations.

Pack the battery so that it cannot move inside the packaging.

**Further transport instructions - see [www.stihl.com/safety-data-sheets](http://www.stihl.com/safety-data-sheets)**

**EMC Compliance Statement for power tool and charger**

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This Class B digital apparatus complies with Canadian ICES-003.