



**QAQCLAB**  
[www.qclabequipment.com](http://www.qclabequipment.com)

## Directions for Use



**QAQCLab**  
**Power Powder Sampler**

## English

### General safety requirements

- ▶ Read these directions for use carefully before using.
- ▶ Keep these directions for use where they will be accessible for all users.
- ▶ Failure to comply with the directions for use shall render all warranty conditions null and void and may lead to personal injury and material damage.
- ▶ The instrument must only be used by qualified skilled employees.

### Safety instructions before using

- ▶ Follow the manufacturer's instructions and safety instructions of the medium you are sampling.
- ▶ The instrument must only be used within the confines of applicable material resistance and for its designated purpose. Any other type of use will affect the warranty/guarantee.
- ▶ Do not use any force when operating the instrument.
- ▶ Not suitable for EX areas.

### Safety instructions during and after use

- ▶ The device can be used in the temperature range of 0 - 40 °C.

- ▶ Protect the device from moisture.
- ▶ Pay attention to have sufficient space during use.

#### **NOTE!**

Follow the cleaning and maintenance instructions for the Bosch drive unit.

### Layout and function

- ▶ The instrument is suitable to take samples of bulk goods (free-flowing powders and granulates up to 4 mm in diameter) from containers, silos, big bags and sacks.

#### **NOTE!**

The characteristics of the medium can be changed by sampling (grinding, heating, abrasion of metal particles).

- ▶ The functionality of the instrument depends on the characteristics of the medium.
- ▶ The instrument is only suitable to take samples (sampling quantity max. 1000 ml) and not for continuous operation.
- ▶ Protect the instrument against effects of weather exposure during storage.
- ▶ The lance and spiral screw are maintenance-free and suitable for steam sterilization (up to 121°C).

### Parts in contact with medium

- ▶ Stainless steel 1.4404/AISI 316 L
- ▶ Stainless steel 1.4310/ AISI 302

### Scope of delivery

1 x	Adapter for lance	①
1 x	Spiral screw	⑤
1 x	Lance	⑥
100 x	Sampling bag, 400 ml	⑩
1 x	Bag clip	⑪
1 x	Bosch drive unit	③
2 x	Rechargeable battery	
1 x	Battery charger	
1 x	Zange für Sicherungsring	④
1 x	Cleaning brush	

- ▶ Check delivery for completeness and transport damage.
- ▶ Point out any damage in the packaging to the freight forwarder/supplier immediately.

### Assembly

1. Insert the adapter for the lancing device ① into the drive unit holder ② of the Bosch drive unit ③. Turn the locking ring ④ in the direction  until you hear it snap into place.

#### NOTE!

Follow the safety instructions for the Bosch drive unit.

2. Insert spiral screw ⑤ into lance ①.

#### CAUTION!

Bodily injury due to squeezing the fingers.

- ▶ Insert the spiral screw ⑤ carefully.

3. Screw the lance ⑥ to the adapter for lance ① using the union nut ⑦. (Pay attention to the positioning of the coupling sleeve ⑧ to the spiral holder ⑨. (see pictures below))



4. Insert sampling bag ⑩ into the bag clip ⑪.
5. Attach bag clip ⑪ to sample outlet ⑫.

### Safe sampling

#### CAUTION!

Possibility of electrical shock.

- ▶ Follow the instructions of the drive manufacturer/battery charger manufacturer.

#### CAUTION!

Pointed parts on the instrument. Risk of injury.

- ▶ Do not pierce the instrument completely through the container.
- ▶ Keep persons and body parts out of the danger area.

#### CAUTION!

Entanglement of the sampler by moving parts in the silo.

- ▶ Do not use the instrument, if moving parts in the silo are operating.

1. Set the gear selector switch ⑬ to „Gear 1“ (low speed range) and press the On/Off switch ⑭.

#### ⚠ WARNING!

Bodily injury due to entanglement of hairs or fingers.

- ▶ Keep fingers and hairs away from tip of lance.

#### NOTE!

When sampling from a closed bag, do not switch on the drive until the bag wall has been pierced with the tip of the lance.

2. Insert the lance ⑥ into the sample material.

#### CAUTION!

Possible danger of breakage during operation.

- ▶ Do not perform any lever movements.

3. To end sampling, release the On/Off button ⑭.
4. Pull the instrument out of the sample material.

### After taking the sample

1. Remove the bag clip ⑪ from the sample outlet ⑫.
2. Remove the sampling bag ⑩ from bag clip ⑪ and seal it.
3. Unscrew the lance ⑥ from adapter for lance ① using the union nut ⑦.

4. Turn the adapter for lance ① for unlocking in the direction  and pull it off the holder ②.
5. Clean spiral screw ⑤ and lance ⑥.

**NOTE!**

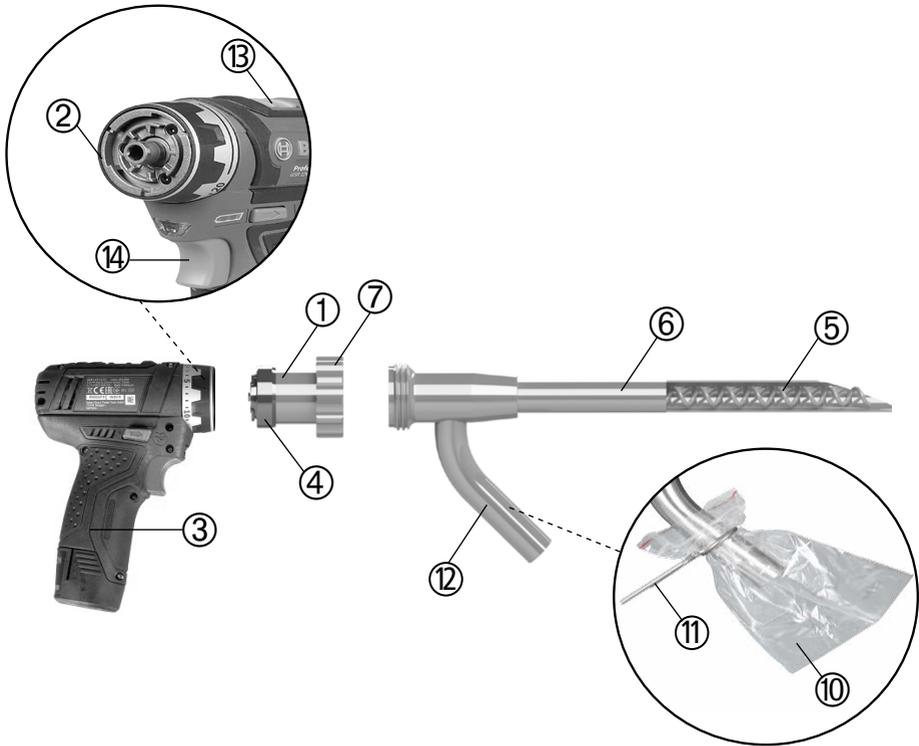
It is recommended to clean the spiral holder ⑨ regularly to ensure proper functioning of the instrument.

- ▶ Loosen the circlip using the pliers for circlip (15) and remove the ball bearing from the spiral holder ⑨ (see pictures on the right).
- ▶ Clean the spiral holder ⑨.
- ▶ Reinstall the circlip using pliers for circlip ⑮.

**Accessories**

Type	Specification	Number	Item No.
Spiral screw PowderProof®	for powders up to 2 mm dia., 300 mm, horizontal	1	711 5302-0316
Spiral screw PowderProof®	for powders up to 2 mm dia., 600 mm, vertical	1	711 53020616
Spiral screw PowderProof®	for powders up to 2 mm dia., 900 mm, vertical	1	711 53020916
Spiral screw PowderProof®	for powders up to 2 mm dia., 1200 mm, vertical	1	711 53021216
Spiral screw PowderProof®	for granules from 2 up to 4 mm dia., 300 mm, horizontal	1	711 53020317
Spiral screw PowderProof®	for granules from 2 up to 4 mm dia., 600 mm, vertical	1	711 53020617
Spiral screw PowderProof®	for granules from 2 up to 4 mm dia., 900 mm, vertical	1	711 53020917
Spiral screw PowderProof®	for granules from 2 up to 4 mm dia., 1200 mm, vertical	1	711 53021217
Transport case	LxWxH 123x25x11 cm (not for 1200 mm)	1	711 36002120
Sampling bottle	LDPE 500 ml	1	711 03180500
Sampling bottle	LDPE 1000 ml	1	711 03181000
Basket for sample bottles 500 ml	Ø 84 mm, incl. holding ring	1	711 53022055
Basket for sample bottles 1000 ml	Ø 100 mm, incl. holding ring	1	711 5302-2105
Bag clip for sampling bags	Ø 25	1	711 53380001
Sampling bag	with closure, 170 x 120 mm, 400 ml	100	711 23480005
Sampling bag	with closure, 220 x 160 mm, 1000 ml	100	711 2348-0006

## Detailed diagram



### Number

- ① Adapter for lance
- ② Drive unit holder
- ③ Bosch drive unit
- ④ Locking ring
- ⑤ Spiral screw
- ⑥ Lance
- ⑦ Union nut
- ⑩ Sampling bag
- ⑪ Bag clip
- ⑫ Sample outlet
- ⑬ Gear selector switch
- ⑭ On/Off switch