Syco Tec

60,000 rpm

8h continuous operation

Higher productivity

HIGH SPEED BATTERY SPINDLE

SPEEDER 60 ER11

THE SOLUTION FOR HIGH SPEED ON EVERY CNC MACHINE

## THE INNOVATIVE DESIGN OF THE SPEEDER 60 ER11 Power supply via rechargeable battery □ Quick battery change > Impressive capacity > Seamless operational transition > Optimal use of resources Power Electronic Toolholder interface Motor spindle with ER11 clamping system Lithium-ion batteries / 220Wh / 32.4V

#### ALL IN ONE

#### HIGH FREQUENCY MOTOR SPINDLE - TOOL HOLDER - POWER ELECTRONICS - DISPLAY - BATTERY

The central component of the **SPEEDER** is a high-frequency motor spindle, which is equipped with a PM synchronous motor and enables machining speeds of up to 60,000 rpm.

Tool shanks up to Ø 7mm can be clamped in the ER11 clamping system used.

The specially developed frequency inverter represents an outstanding technological innovation.

Despite its small size, it offers impressive performance and impresses in particular with highly accurate and stable speed control and an output power of up to 500 watts.

Effortless and intuitive operation of the **SPEEDER** is possible via the info display and the built-in buttons.



The energy supply of the system is provided by a rechargeable battery with a capacity for up to 8 hours of continuous operation. The battery is changed via an easy-to-operate bayonet lock and is done in seconds.

#### PLUG & PLAY



Insert tool



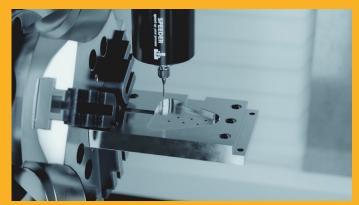
Set rotation speed



Insert into magazine



Replace **SPEEDER** from magazine



Start processing

### **TOOL INTERFACES**

The different tool holder sizes provide flexibility and allow the **SPEEDER** 60 ER11 spindle to be used in a variety of CNC machines and applications.



HSK-63



HSK-80



HSK-100



SK40



SK50



Capto C6

# SPEEDER 60 ER 11 / DIMENSIONS / HIGHLIGHTS 227 mm **SPEEDER HIGHLIGHTS** → High speed cutting up to 60,000 rpm > Reduced machining time ▶ Higher productivity > Reduced tool wear ▶ Better surface quality

#### SPINDLE SERVICE / BATTERY CHANGE

In addition to the simple battery change via the bayonet lock, it is also possible to detach the spindle unit from the base unit using three screws.

This enables fast service.



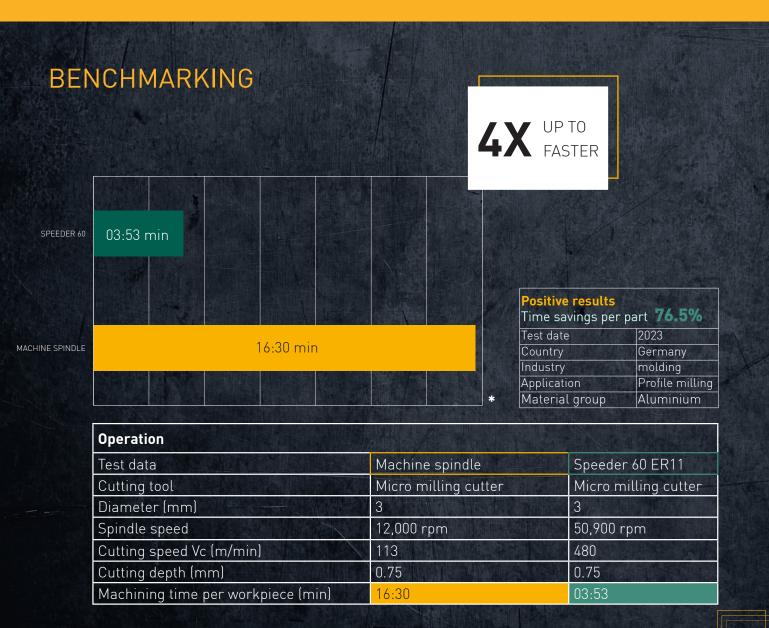
- ➤ Motor replacement via 3 screws
- > Battery replacement without tools

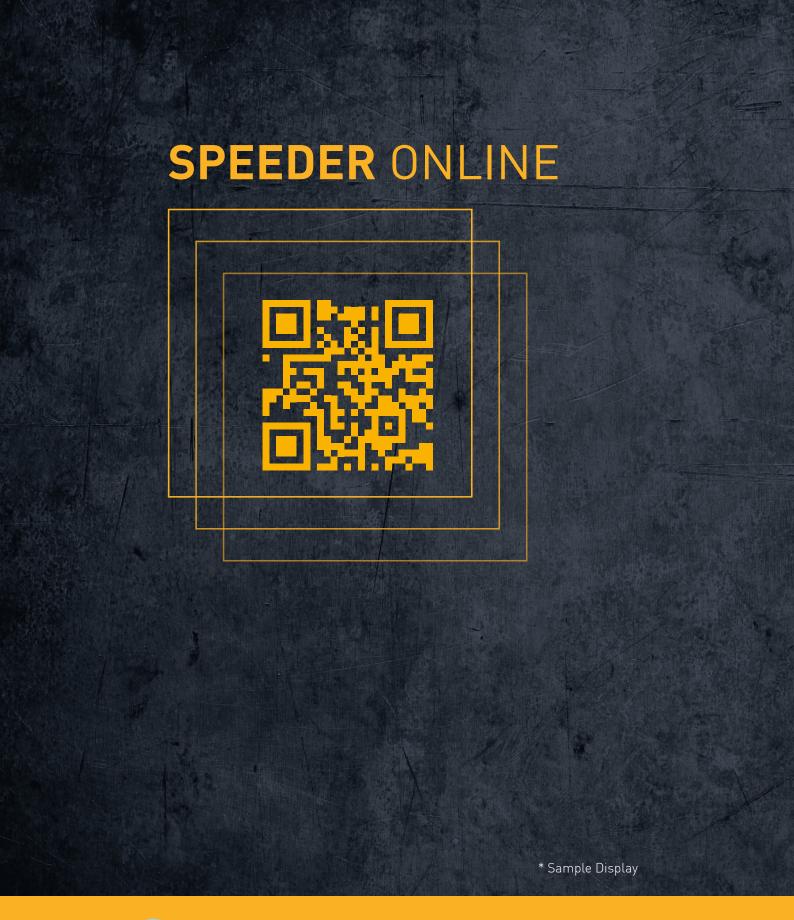


#### TECHNICAL DATA

Speed range	10,000–60,000 rpm
Clamping system	ER11 (max. Ø 7mm)
Cooling	Spray for outer cooling
Milling	Tools up to Ø 4mm
Drilling	Tools up to Ø 3mm
Battery capacity	Up to 8 h continuous working
Tool holder interface	HSK-63, HSK-80, HSK-100, Capto C5, Capto C6, SK40, SK50
Speed setting	via Display
Start / Stop	Internal tool cooling pressurization or slow rotation of main spindle
Output Power	max. 500 W
Weight	3.4 kg

Subject to change without notice







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