

# mimatic®

**Tool Systems**

*Your Partner For Clever Tooling*

HIGH SPEED BATTERY SPINDLE

## miSPEED ER11

Plug & Play  
No Stopblock required!



60.000 rpm

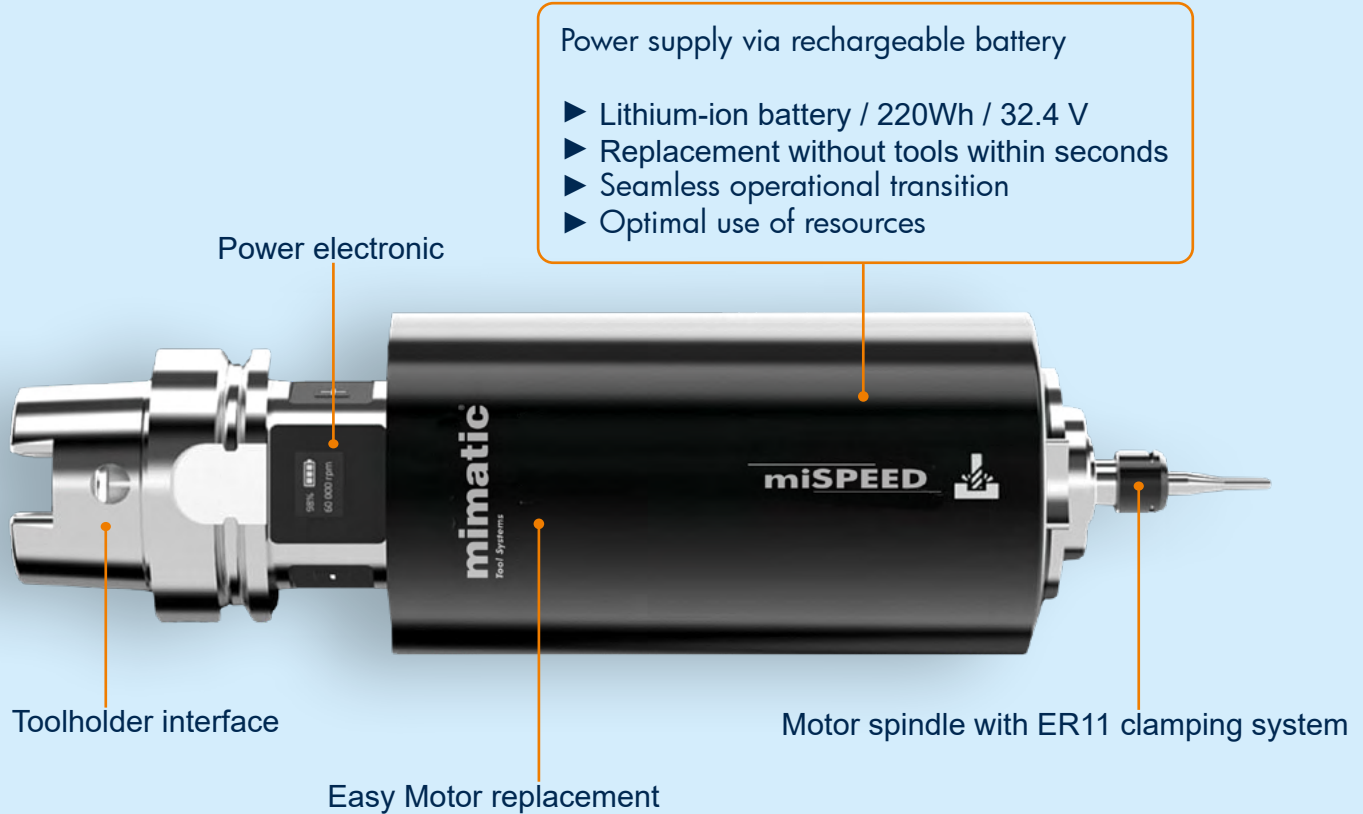
8h continuous operation

Higher productivity

**THE SOLUTION** FOR HIGH SPEED ON EVERY CNC MACHINE

**mimatic - Precision Tools Since 1974**

## THE INNOVATIVE DESIGN OF THE **miSPEED ER11**



### ALL IN ONE

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

### TECHNISCHE DATEN

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 8h continuous working
Tool holder interfaces	HSK63, HSK80, HSK100, C5, C6, SK40, SK50, BT40, BT50,...
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

## PLUG & PLAY



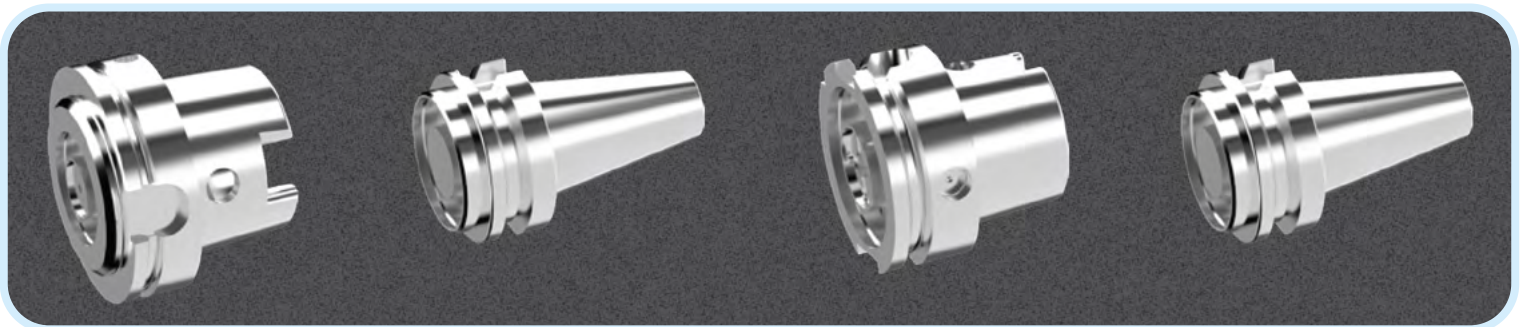
No Stopblock required



Fits into magazine

## TOOL INTERFACES

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



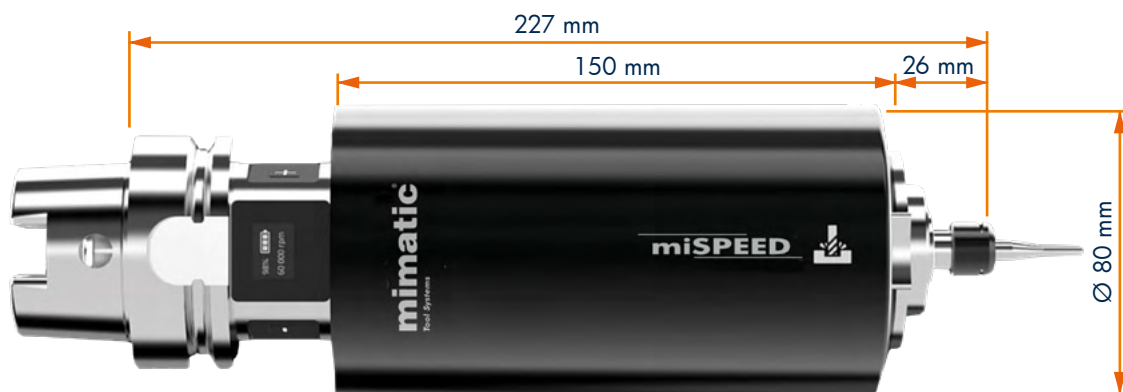
HSK 63/80/100

SK 40/50

Capto C6

BT 40/50, BT 40+/50+

## DIMENSIONS



## HIGHLIGHTS

- ▶ High speed cutting up to 60,000 rpm
- ▶ Reduced machining time
- ▶ Higher productivity
- ▶ Reduced tool wear
- ▶ Better surface quality

# miSPEED ER11

## Keyfacts

Speed	60 000 rpm
Machine Interface	HSK, SK, BT, BT+
Power	S1: 450 W / max. 800 W

## Motorspindle

Speed	60 000 rpm
Motor system	3~ Synchronous (PMSM)
Power	S1: 300 W / max. 500 W
Torque	S1: 0.048 Nm / max. 0.08 Nm
Bearing arrangement	2 x Hybrid, lifetime lubricated
Tool interface	ER11
Max tool shank	Ø 7 mm
Tool change	Manually (wrenches)
Run-out (cone)	≤ 1 µm

## Main-Spindle interface

Typ	HSK, SK, BT, BT+, ...
Internal cooling	Max. 80 bar
Max speed main spindle	400 rpm

## Battery

Voltage	32.4 V
Capacity	7,00 Ah
Energy	226,8 Wh
Type Lithium Ions	Lithium Ions
Life cycle	800 cycles / DOD 80%

## Battery charger

Voltage input	1~220-240 V AC
Voltage output	36 V DC

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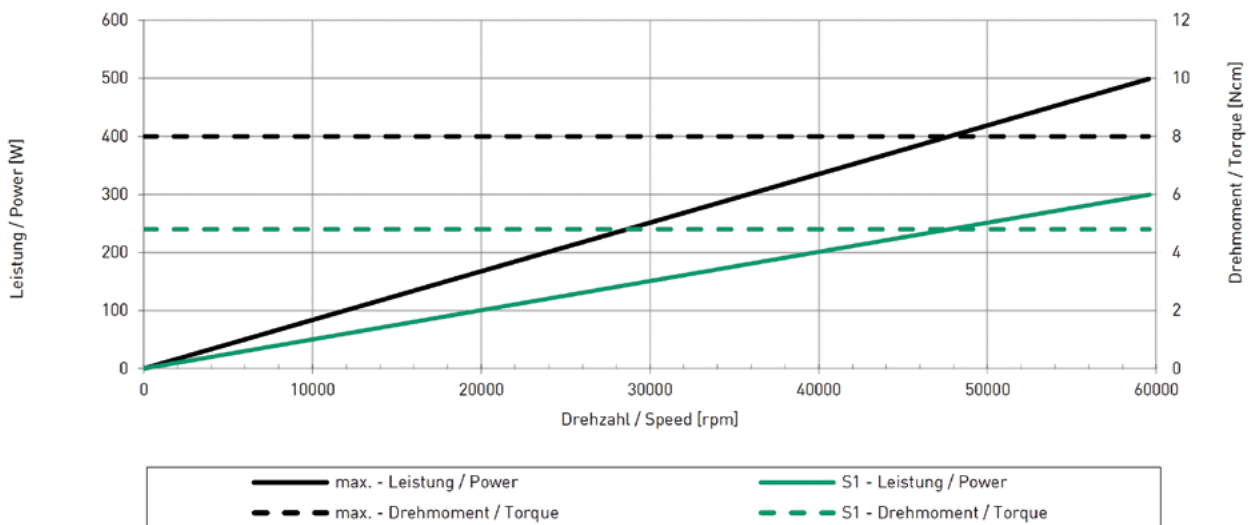
## Additional features

Weight	3 kg ( Battery 1.3 kg, Tool holder 1.2 kg, Spindle 0.5 kg)
Protection category	Battery assembled: IP55 Battery disassembled: IP20

## Applications

Industries	Die & Mold, Automotive, Medical, Aerospace and all others.
Applications	Slot milling, Drilling, Engraving, Profe
Recommended tool size	Milling: Tools up to Ø 4 mm Drilling: Tools up to Ø 3 mm

## Performance diagram



## Scope of supply

Name	QTY
miSPEED ER11 (consisting of: SPEEDER tool holder xx and SPEEDER-Spindle)	1
miSPEED Battery	1 (2)*
miSPEED Charging Station	1
miSPEED Power supply	1
Clamping nut ER11MS	1
Cleaning set ER11	1



\*Speeder set 1 includes 1 battery, Speeder set 2 includes 2 batteries.