

SPEEDER

speed up your process



Worlds first fully autonomous speed increaser for any CNC machine.

An innovative solution by





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
Life cycle	800 cycles / DOD 80%

Battery charger

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

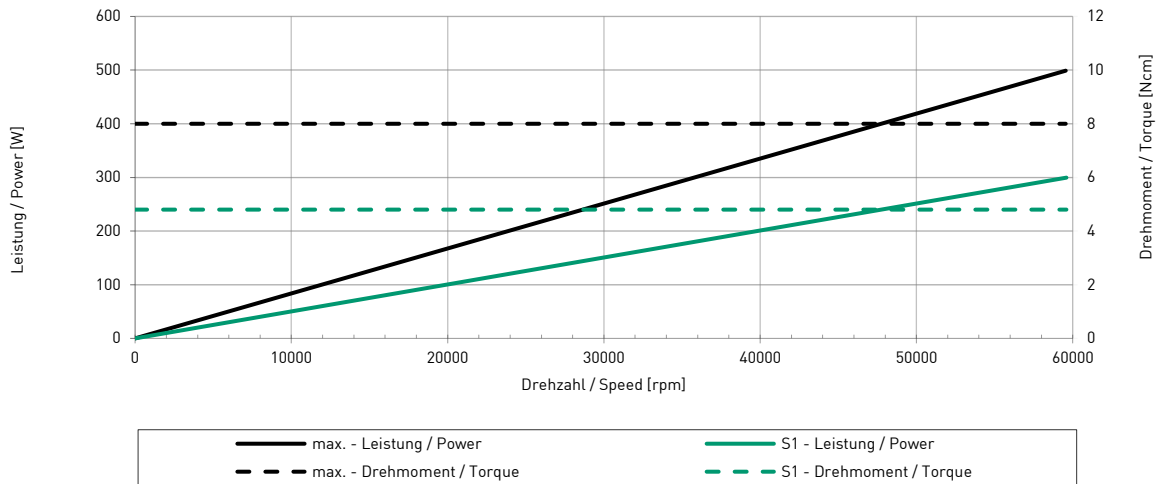
Additional features

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

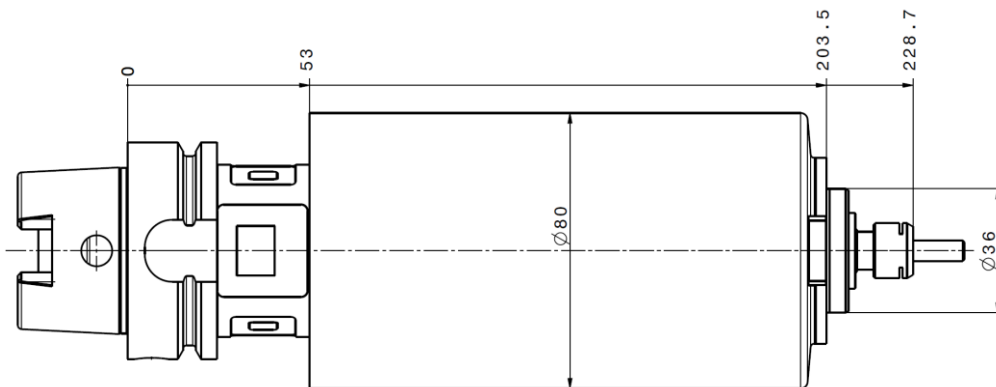
Applications

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



Dimensions



Scope of supply

Name	QTY
PEEDER 60 ER11 (consisting of: SPEEDER tool holder xx and SPEEDER-Spindle)	1
SPEEDER Battery	1 (2)*
SPEEDER Charging Station	1
SPEEDER Ppower supply	1
Clamping nut ER11MS	1
Cleaning set ER11	1



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



PRECISION IN MOTION



www.speeder.sycotec.eu

