





EMUGE

Softsynchro® Technology with Transmission Gearing Particularly for Brother and FANUC Machines

Machining costs Cost-saving potential due to **Higher cutting speeds** In a synchronous thread production machine spindles do not achieve the programmed rotational speeds beyond a certain spindle **Other** speed. The transmission gearing of the Speedsynchro® Mini keeps up with the programmed speeds even with very **Machining time** dynamic synchronous spindles. **Coolant-lubricant** Easy tool setup **Tool change** A simply adaptation of the CNC programme Tool costs - reducing the spindle speed by the transmission factor 4.414 and increasing the feed per revolution - allows to determine the cycle time reduction directly on the component. **High changing speed** High changing speeds are possible thanks to the low weight (< 2 kg) and the compact design. **Longer tool life** The minimal length compensation function reduces the axial force on the tap.

Weitere Informationen zum Speedsynchro Mini

Further information about the Speedsynchro Mini

erhalten Sie im Web

is also available on the web



Solution to increase productivity



Transmission gearing

- ▶ Time savings up to 50%
- Very high energy savings
- Reduced spindle wear



Thread production

- ➡ Simple programming as synchronous cycle
- Determining the time advantages through "simulation"



Minimal length compensation

- ▶ Longer tool life
- Reduced tool change times



EMUGE threading tools

- ▶ Longer tool life
- Reduced tool change times



Near Field Communication (NFC)

 Contactless exchange of operating data between Speedsynchro[®] Mini and NFC-enabled smartphone

Internal transmission gearing

for achieving a high tool speed at a low spindle speed in order to reduce cycle time, to save energy and increase efficiency.

Transmission ratio

1:4.412

Softsynchro® technology

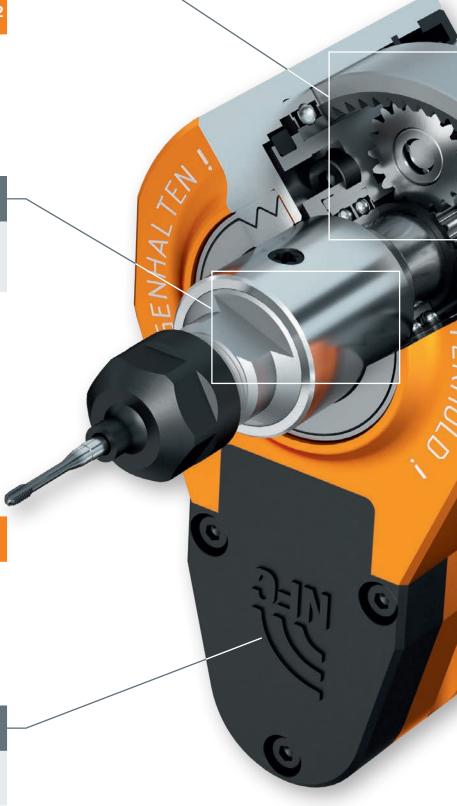
Separate axial transmission of power and torque compensates for arising synchronisation errors for longer tool life.

Rotational speed of threading tool 441%

Near Field Communication

S) NFO

Integrated NFC module stores operating data such as operation time, number of threads, battery status.







Functionality

The Speedsynchro® Mini uses an integrated transmission gearing with a transmission ratio of 1:4.412 and combines it with the Softsynchro® minimal length compensation function.

The Speedsynchro® Mini was specially developed for machines with very dynamic synchronous spindles.

The transmission gearing allows:

- to machine threads in the unproblematic synchronous speed range
- a multiplication of the synchronous spindle speed
- . synchronous thread machining of up to 12,000 rpm

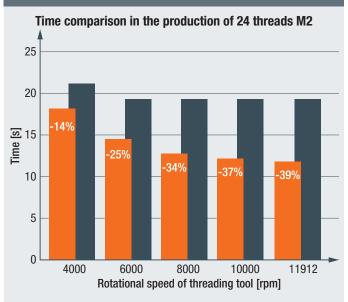
Technical characteristics

Cutting range: M1 - M6
Collet size: ER11
Transmission ratio: 1:4.412
Max. spindle speed: 2,700 rpm
Max. tool speed: 11,912 rpm
Minimum length compensation: ± 0.5 mm

• Weight: < 2 kg

Internal coolant supply

Advantage savings in cycle time



Reduction of thread machining cycles due to achieving the programmed cutting speeds with the integrated transmission gearing in "fast mode"

Advantage reduction of axial force on threading tool





Synchro

Speedsynchro® Mini

Advantage energy savings

- In addition to the time savings due to the transmission gearing, the reduced speeds of the machine spindle result in energy savings compared to synchronous thread production
- The savings are relatively independent of the thread size and are mainly determined by the spindle speed

Advantage economic efficiency

The Speedsynchro $^{\circledR}$ Mini enables time savings of up to 50% in thread production.

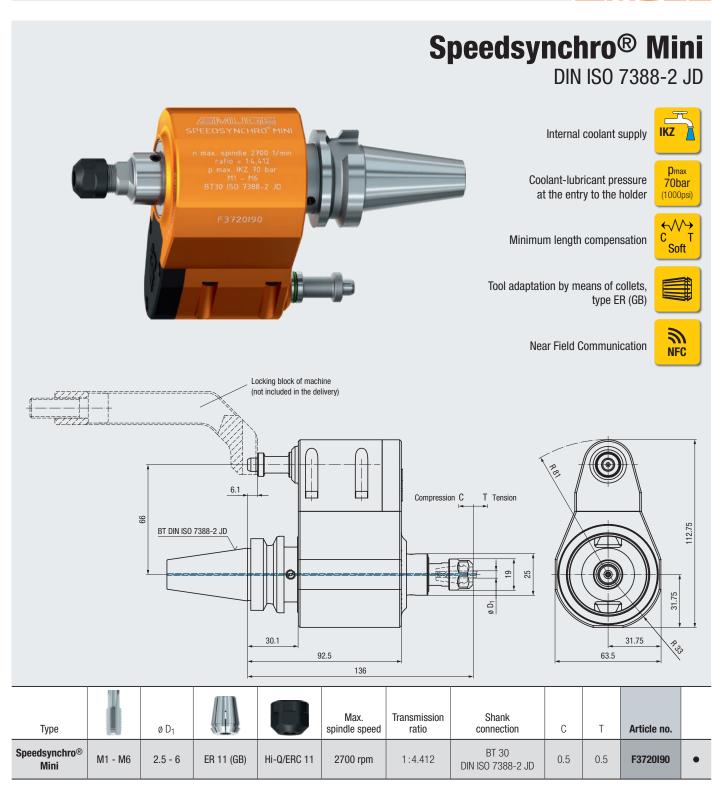
The amortisation of the additional holder costs occurs already after a short period of time.

- · Reduction of thread production time
- Increase in component production
- Reduction of manufacturing costs
- · Reduction of the production machines
- Reduction of spindle maintenance
- Energy saving thanks to short spindle acceleration and constantly low spindle speed



ROI - Calculate your savings





Accessories





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