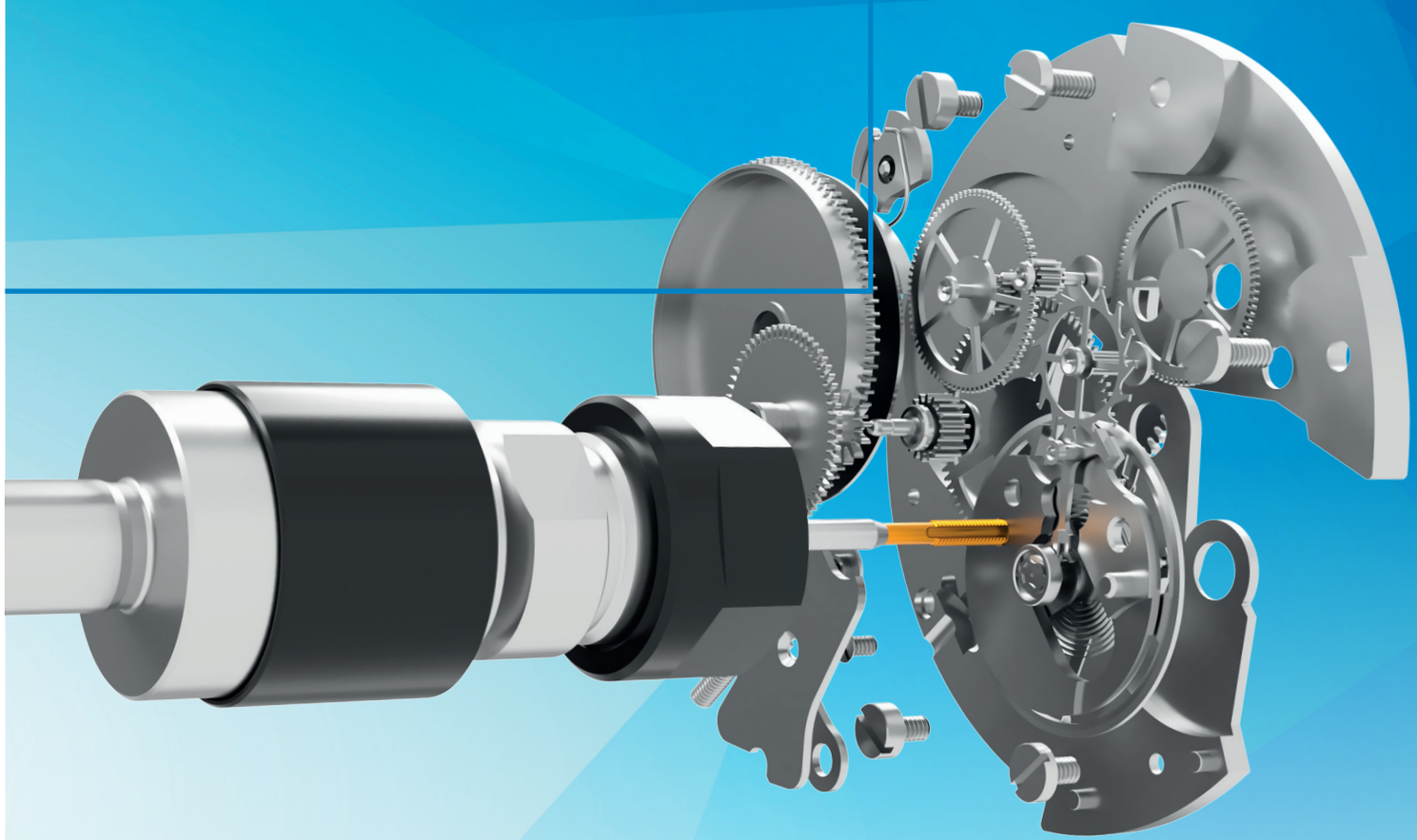
bilz

Nano Synchro

Tapping with both, „Forming and Cutting taps“ M0.5 to M4



Electronic

Visual optics

Precision engineering

Toolmaking

nano

Features

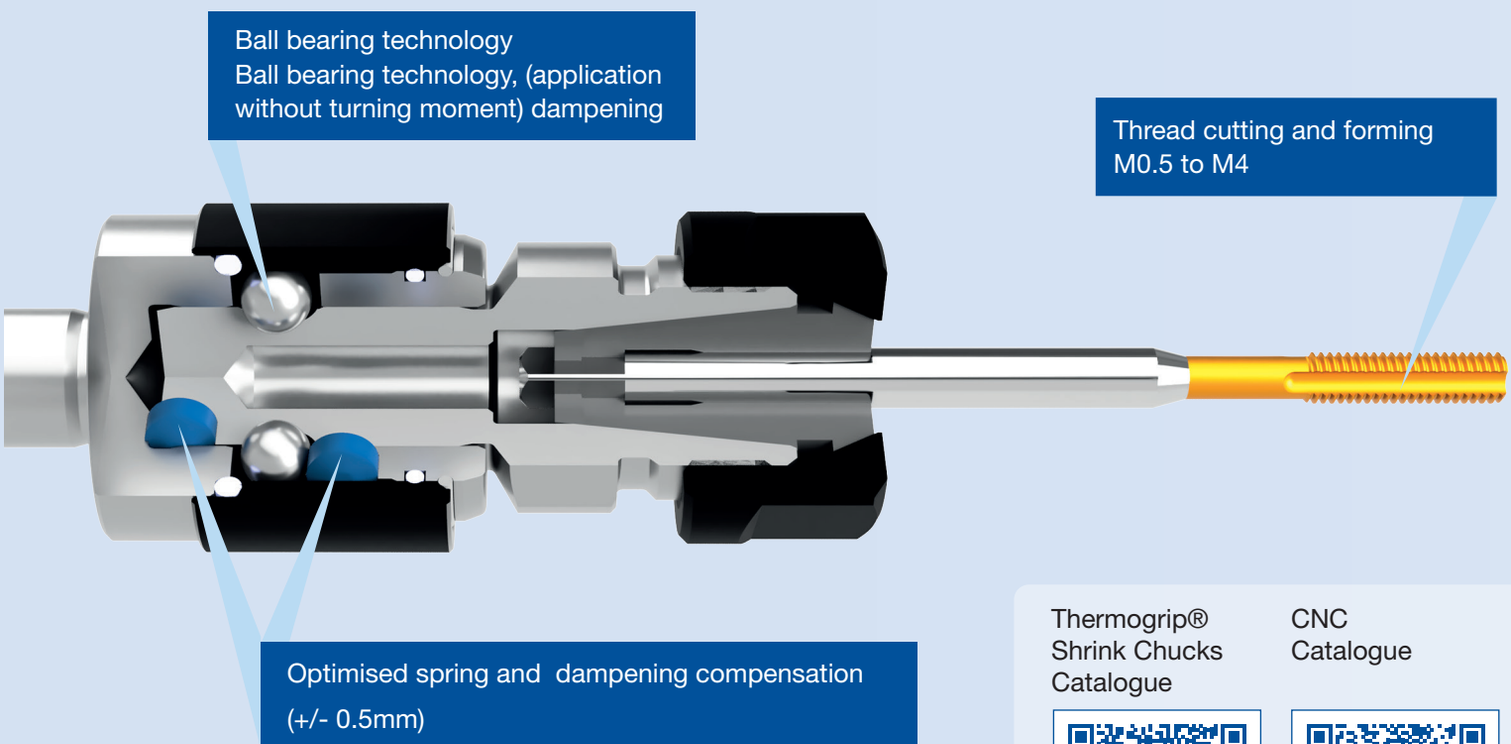
- Minimum tension and compression compensation
- Ball bearing technology, (application without turning moment) dampening
- Suitable for cutting and forming taps
- Suitable for right and lefthand threads
- Optimised spring and dampening compensation (+/- 0,5mm)
- Suited for external coolant supply

Advantages

- Highest process stability
- Extended tapping tool-life
- Improved thread quality
- Reduction of thread flank cutting pressures
- Compensates spindle synchronisation errors.

FINEST TECHNOLOGY IN HIGHEST PRECISION

Extreme short build size, 80mm overall length, this reflects the same build-size as previous synchro chucks, (no reprogramming necessary). Highest technology precision for your applications.

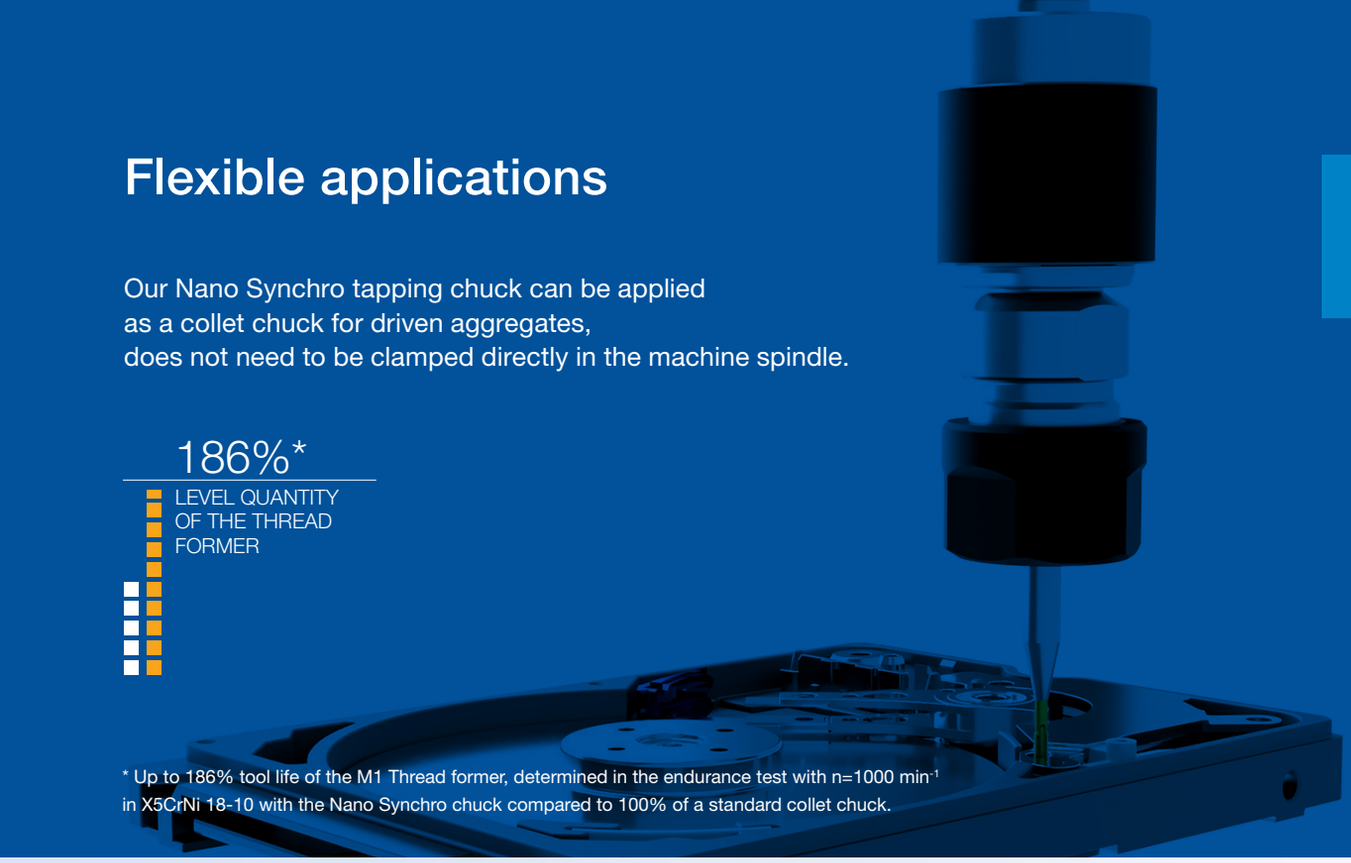


Thermogrip® Shrink Chucks Catalogue

CNC Catalogue

Flexible applications

Our Nano Synchro tapping chuck can be applied
as a collet chuck for driven aggregates,
does not need to be clamped directly in the machine spindle.



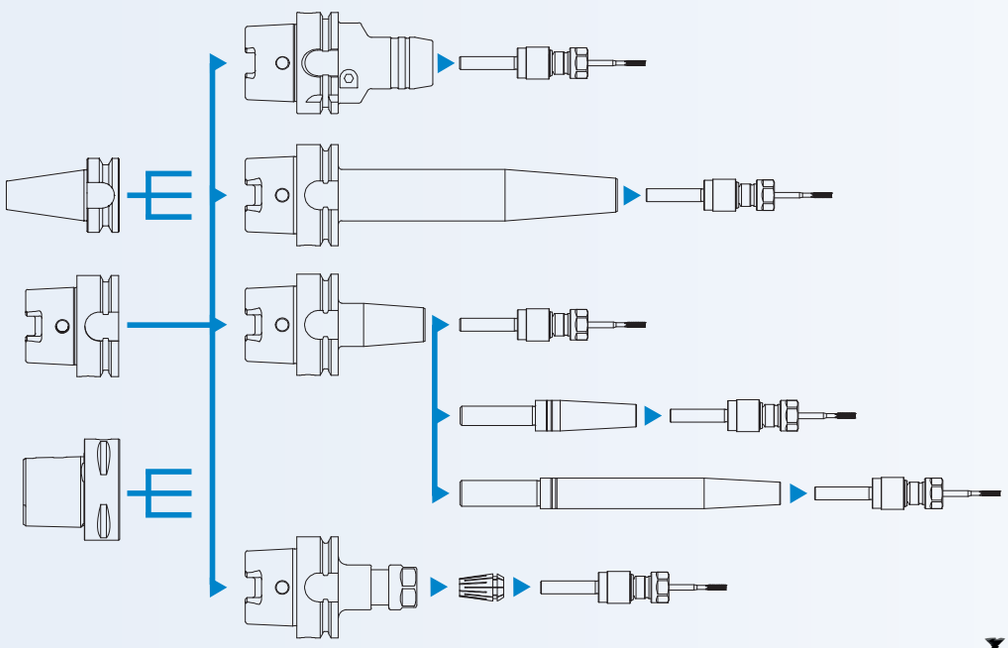
186%*

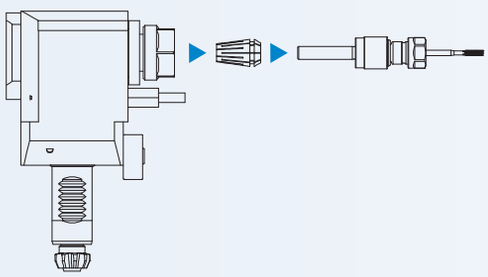
LEVEL QUANTITY
OF THE THREAD
FORMER

* Up to 186% tool life of the M1 Thread former, determined in the endurance test with n=1000 min^{-1} in X5CrNi 18-10 with the Nano Synchro chuck compared to 100% of a standard collet chuck.

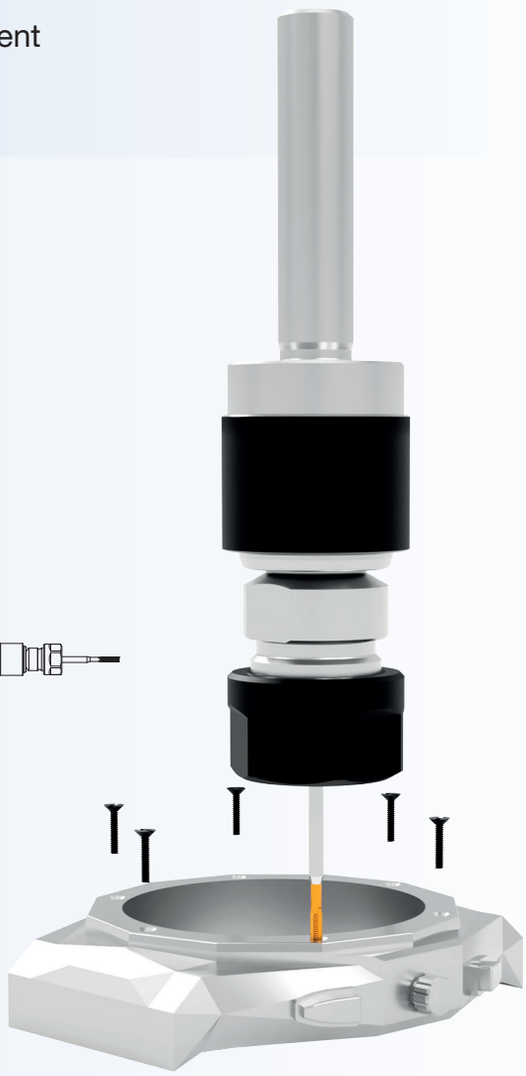
MECHANICAL CLAMPING, SHRINKING OR SELF LOCKING

Many possibilities to use our Nano Synchro chuck in your current process strategy.



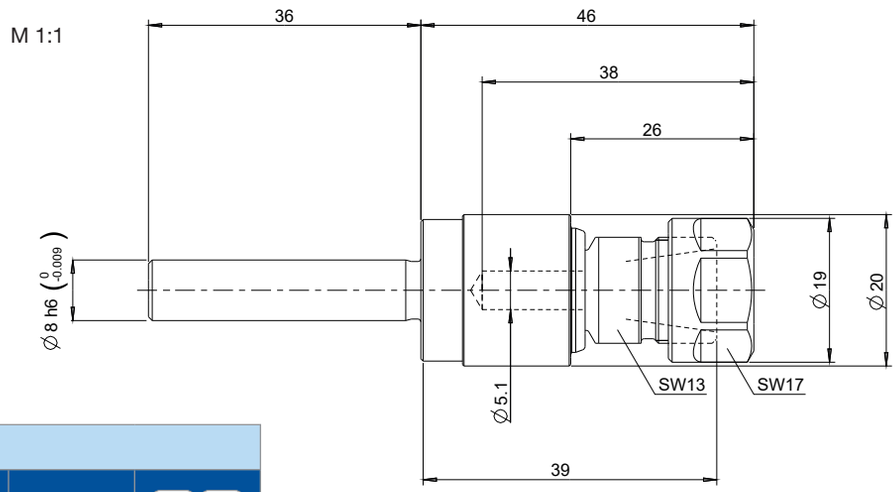


The suitable Clamping devices for our Nano Synchro can be found in our ThermoGrip or CNC catalogue under the following QR Codes



Nano Synchro

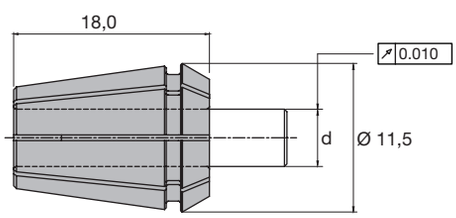
Thread forming and cutting M0.5 to M4

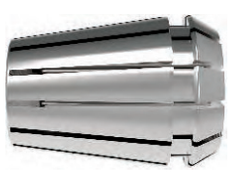


Synchrofutter			
	Description	Ident No.	
M0,5 - M4	S3D0-ER11-44-N-Z0800	5200109	+/-0,5

For further information can be found on www.bilz.com

Accessories:





Tap				Collets DIN 6499 System ER11	
DIN 371	DIN 376	JIS	Shank Ø (mm)	Clamping range d (mm)	Ident No.
				Ø 1.0 - Ø 0.5	5056179
	M1,6-M1,8		Ø 1,2	Ø 2.0 - Ø 1.0	5056181
	M2		Ø 1,4		
	M2,2-M2,3		Ø 1,6		
	M2,5-M2,6		Ø 1,8		
	M3		Ø 2,2	Ø 3.0 - Ø 2.0	5056182
M1-M1,8	M3,5		Ø 2,5 x □ 2,1		
M2-M2,6	M4		Ø 2,8 x □ 2,1		
		M1-M2,6	Ø 3,0 x □ 2,5		
M3			Ø 3,5 x □ 2,7	Ø 4.0 - Ø 3.0	5056184
M3,5			Ø 4,0 x □ 3,0		
		M3	Ø 4,0 x □ 3,2		
M4			Ø 4,5 x □ 3,4	Ø 5.0 - Ø 4.0	5056187
		M4	Ø 5,0 x □ 4,0		

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