

bilz

STA Synchro Tap Adaptor

Used with ER collet chucks and driven tools
ISO 15488 (DIN6499)

Saves considerable time and optimises tool life.



**HIGHEST PRECISION
AND QUALITY
FROM THE FIRST
THREAD**

DIN Norm



Suitable for internal coolant

Short design
Low interference contour

Modular design - Low investment costs

Bilz quick change system - short setup times

Suitable for left and right-hand threads

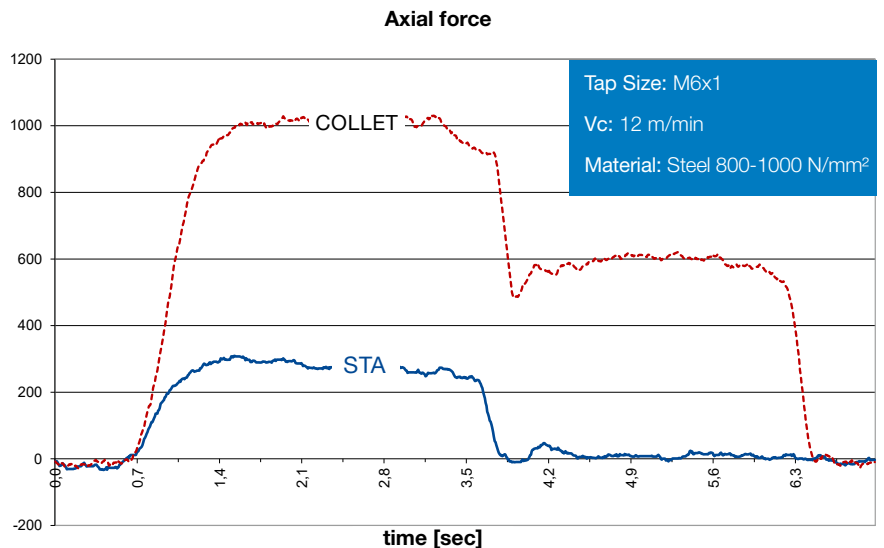
Suitable for taps and formers

Market results STA vs. rigid tapping applications

Process optimisation through reduction of axial forces

Objectively measurable

“better thread quality and higher Life through much reduced axial force“





Advantages

- Compensates for synchronisation errors
- Reduction of axial forces on the thread flanks
- better thread quality
- can be used in tight spaces
- low maintenance

Benefits

- high productivity due to fast tool change times
- significant increase in tool life and process reliability
- reduced risk of tool breakage
- cost savings due to reduced tap inventory
- reduced spindle wear
- increase in process reliability



The new STA Synchron Tapping Adaptor was designed specifically for ER collet chucks and allows for synchronous thread cutting and forming to be achieved with all suitable machines.

Features:

- for all types of tooling with or without internal coolant
- minimal length compensation with tension and compression
- optimal damping
- compact design
- allows quick tap changes
- patent pending

STA saves considerable time when changing taps. Optimises tap tool life and thus improves productivity and quality. Contact us for more.

STA Synchro Tap Adaptor with quick change



STA Synchro Tapping Adaptor

- For ER collet chucks ISO 15488 (DIN6499)
- For synchronised tapping and forming
- Minimal length compensation: + 0,5mm/- 0,2mm

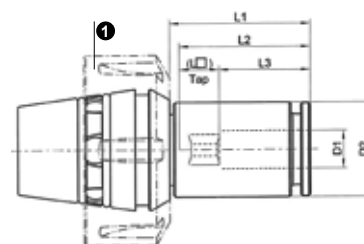
Synchro location STL



Synchro tool head STH



Synchro adaptor STA



| Collet chuck | Designation | D1 x □ [mm] | DIN 371 | DIN 374/376 | Designation | Ident Nr. | D2 [mm] | L1 [mm] | L2 [mm] | L3 [mm] | Mt max. Nm * | Mt max. Nm ** |
|--------------|-------------------------|-------------|-----------|-------------|----------------------|-----------|---------|---------|---------|---------|--------------|---------------|
| ER16 | STL2-K1-ER16 5099865 | 3,5x2,7 | M3 | M5 | STH2-0350X0270-24-K1 | 5100071 | 12,7 | 24 | 26,3 | 20,3 | 40 | 10 |
| | | 4,5x3,4 | M4 | M6 | STH2-0450X0340-24-K1 | 5100078 | 12,7 | 24 | 26,3 | 20,3 | | |
| | | 6x4,9 | M5, M6 | M8 | STH2-0600X0490-32-K1 | 5099868 | 12,7 | 32 | 28,3 | 20,3 | | |
| ER20 | STL3-K1-ER20 5099856 | 6x4,9 | M5, M6 | M8 | STH3-0600X0490-35-K1 | 5113800 | 15,8 | 35 | 31 | 23 | 40 | 18 |
| | | 7x5,5 | M7 | M9, M10 | STH3-0700X0550-35-K1 | 5100015 | 15,8 | 35 | 31 | 23 | | |
| | | 8x6,2 | M8 | M11 | STH3-0800X0620-36-K1 | 5099858 | 15,8 | 36 | 32 | 23 | | |
| ER25 | STL4-K1-ER25 5099833 | 6x4,9 | M5, M6 | M8 | STH4-0600X0490-27-K1 | 5139738 | 19 | 27 | 31 | 23 | 80 | 28 |
| | | 7x5,5 | M7 | M9, M10 | STH4-0700X0550-30-K1 | 5099927 | 19 | 30 | 33,5 | 25,5 | | |
| | | 8x6,2 | M8 | M11 | STH4-0800X0620-30-K1 | 5099948 | 19 | 30 | 34,5 | 25,5 | | |
| | | 9x7 | M9 | M12 ② | STH4-0900X0700-40-K1 | 5099939 | 19 | 40 | 35,5 | 25,5 | | |
| | | 10x8 | M10 | - | STH4-1000X0800-41-K1 | 5099835 | 19 | 41 | 36,5 | 25,5 | | |
| ER32 | STL5-K1-ER32 5092917 | 6x4,9 | M5, M6 | M8 | STH5-0600X0490-8-K1 | 5139735 | 25 | 8 | 31 | 23 | 130 | 50 |
| | | 7x5,5 | M7 | M9, M10 | STH5-0700X0550-19-K1 | 5139731 | 25 | 19 | 33,5 | 25,5 | | |
| | | 8x6,2 | M8 | M11 | STH5-0800X0620-37-K1 | 5100155 | 25 | 37 | 41 | 32 | | |
| | | 9x7 | M9 | M12 | STH5-0900X0700-37-K1 | 5092928 | 25 | 37 | 42 | 32 | | |
| | | 10x8 | M10 | - | STH5-1000X0800-37-K1 | 5100154 | 25 | 37 | 43 | 32 | | |
| | | 11x9 | - | M14 | STH5-1100X0900-37-K1 | 5100157 | 25 | 37 | 44 | 32 | | |
| | | 12x9 | - | M16 ② | STH5-1200X0900-37-K1 | 5100156 | 25 | 37 | 44 | 32 | | |

* Torque for clamping nut

** Transmissible torque

① Only with standard clamping nut. Further clamping nut types on request.

② Thread forming only in soft material

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