

NEW

Member IMC Group
Ingersoll
Cutting Tools

CHIP•SURFER

ER-COLLETS FOR CHIPSURFER SYSTEM

ER-COLLETS FOR CHIP•SURFER EXCHANGEABLE HEAD SYSTEM

- *Mono ER-collets -> robust & flexible*
- *Sizes ER11 - ER32 for ChipSurfer Ts5 - Ts15*
- *ER32 cylindrical with internal coolant supply*
- *Variable lengths available*
- *Shorter design compared to combinations with extensions*
- *Increased process reliability*
- *Shorter set-up and tool exchanging times*



No. 176 E / 10-2019

Product Description

New series of monolithic collets with Ts-connection for Ingersoll's **ChipSurfer** exchangeable head system.

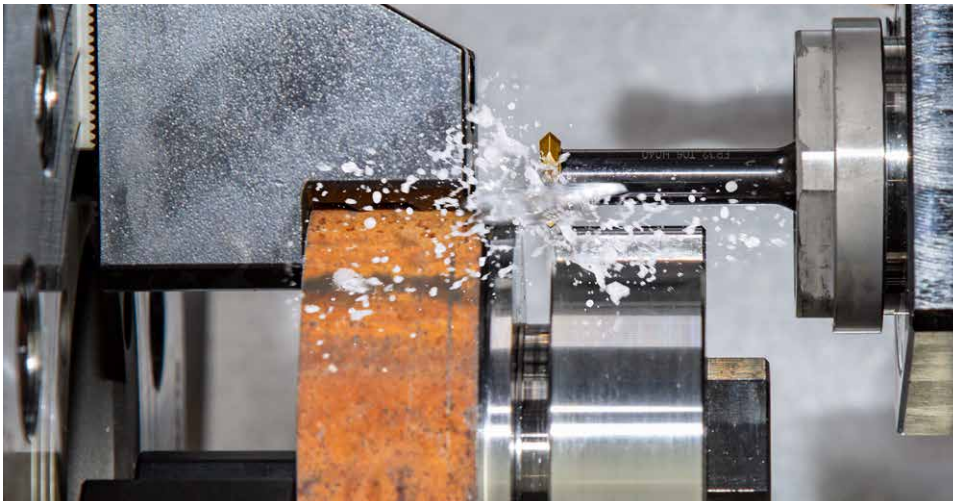
This series will be available for any TS-sizes **Ts05 - Ts15** in standard sizes **ER11/ER16/ER20/ER25** and **ER32**.

ER32-collets with cylindrical design are additionally equipped with **internal coolant supply**.

Application Range

Can be used on all common machine tools such as turning, turn/mill, mill/turn centers as well as long turning machines (sliding headstock lathes) with drive spindles and corresponding ER-collet adaption.

CS-mono-collets can also be used with standard ER-collet adaptations on milling machines and machining centers.



Advantages

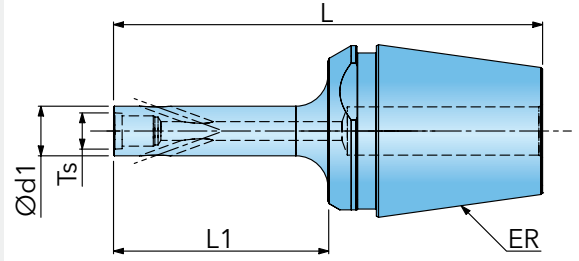
- Mono/solid ER-collets → robust & stable
- Sizes ER11 - ER32
- ER32 with internal coolant supply
- For ChipSurfer with Ts5 - Ts15 connection
- Variable lengths available
- Shorter design compared to combinations with extensions
- Increased process reliability
- Shorter set-up and tool changing times



CHIP SURFER ER..SA_ COLLETS CYLINDRICAL



DIN 6499

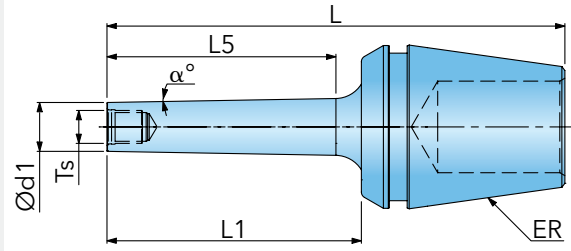


| Designation | d1 | L | L1 | Ts | ER | | |
|--------------|------|------|------|-----|----|---|------|
| ER11T05SA-02 | 7,6 | 22 | 4 | T5 | 11 | | - |
| ER11T05SA-05 | 7,6 | 28,5 | 10,5 | T5 | 11 | | - |
| ER16T05SA-02 | 7,6 | 31,5 | 4 | T5 | 16 | | - |
| ER16T06SA-02 | 9,2 | 31,5 | 4 | T6 | 16 | | - |
| ER16T08SA-02 | 11,6 | 31,5 | 4 | T8 | 16 | | - |
| ER16T05SA-05 | 7,6 | 38 | 10,5 | T5 | 16 | | - |
| ER16T06SA-05 | 9,2 | 38 | 10,5 | T6 | 16 | | - |
| ER16T08SA-06 | 11,6 | 40,5 | 14 | T8 | 16 | | - |
| ER20T05SA-02 | 7,6 | 35,5 | 4 | T5 | 20 | | - |
| ER20T06SA-02 | 9,2 | 35,5 | 4 | T6 | 20 | | - |
| ER20T08SA-02 | 11,6 | 35,5 | 4 | T8 | 20 | | - |
| ER20T10SA-02 | 15,3 | 35,5 | 4 | T10 | 20 | | - |
| ER20T05SA-05 | 7,6 | 42 | 10,5 | T5 | 20 | | - |
| ER20T06SA-05 | 9,2 | 42 | 10,5 | T6 | 20 | | - |
| ER20T08SA-06 | 11,6 | 44,5 | 13 | T8 | 20 | | - |
| ER20T10SA-07 | 15,3 | 47,5 | 16 | T10 | 20 | | - |
| ER25T05SA-02 | 7,6 | 38 | 4 | T5 | 25 | | - |
| ER25T06SA-02 | 9,2 | 38 | 4 | T6 | 25 | | - |
| ER25T06SA-05 | 9,25 | 44,5 | 10,5 | T6 | 25 | | - |
| ER25T08SA-02 | 11,6 | 38 | 4 | T8 | 25 | | - |
| ER25T08SA-05 | 11,6 | 44,5 | 10,5 | T8 | 25 | | - |
| ER25T10SA-02 | 15,3 | 38 | 4 | T10 | 25 | | - |
| ER25T10SA-05 | 15,3 | 44,5 | 10,5 | T10 | 25 | | - |
| ER25T12SA-02 | 18,3 | 38 | 4 | T12 | 25 | | - |
| ER25T12SA-05 | 18,3 | 44,5 | 10,5 | T12 | 25 | | - |
| ER32T05SA-10 | 7,6 | 65 | 25 | T05 | 32 | ✓ | 0,20 |
| ER32T05SA-20 | 7,6 | 80 | 40 | T05 | 32 | ✓ | 0,23 |
| ER32T06SA-10 | 9,2 | 65 | 25 | T06 | 32 | ✓ | 0,23 |
| ER32T06SA-20 | 9,2 | 80 | 40 | T06 | 32 | ✓ | 0,22 |
| ER32T08SA-10 | 11,6 | 65 | 25 | T08 | 32 | ✓ | 0,20 |
| ER32T08SA-20 | 11,6 | 90 | 50 | T08 | 32 | ✓ | 0,23 |
| ER32T10SA-10 | 15,3 | 65 | 25 | T10 | 32 | ✓ | 0,20 |
| ER32T10SA-20 | 15,2 | 90 | 50 | T10 | 32 | ✓ | 0,25 |
| ER32T12SA-10 | 18,3 | 65 | 25 | T12 | 32 | ✓ | 0,22 |
| ER32T12SA-20 | 18,3 | 90 | 50 | T12 | 32 | ✓ | 0,22 |

CHIP SURFER ER32.. COLLETS CONICAL

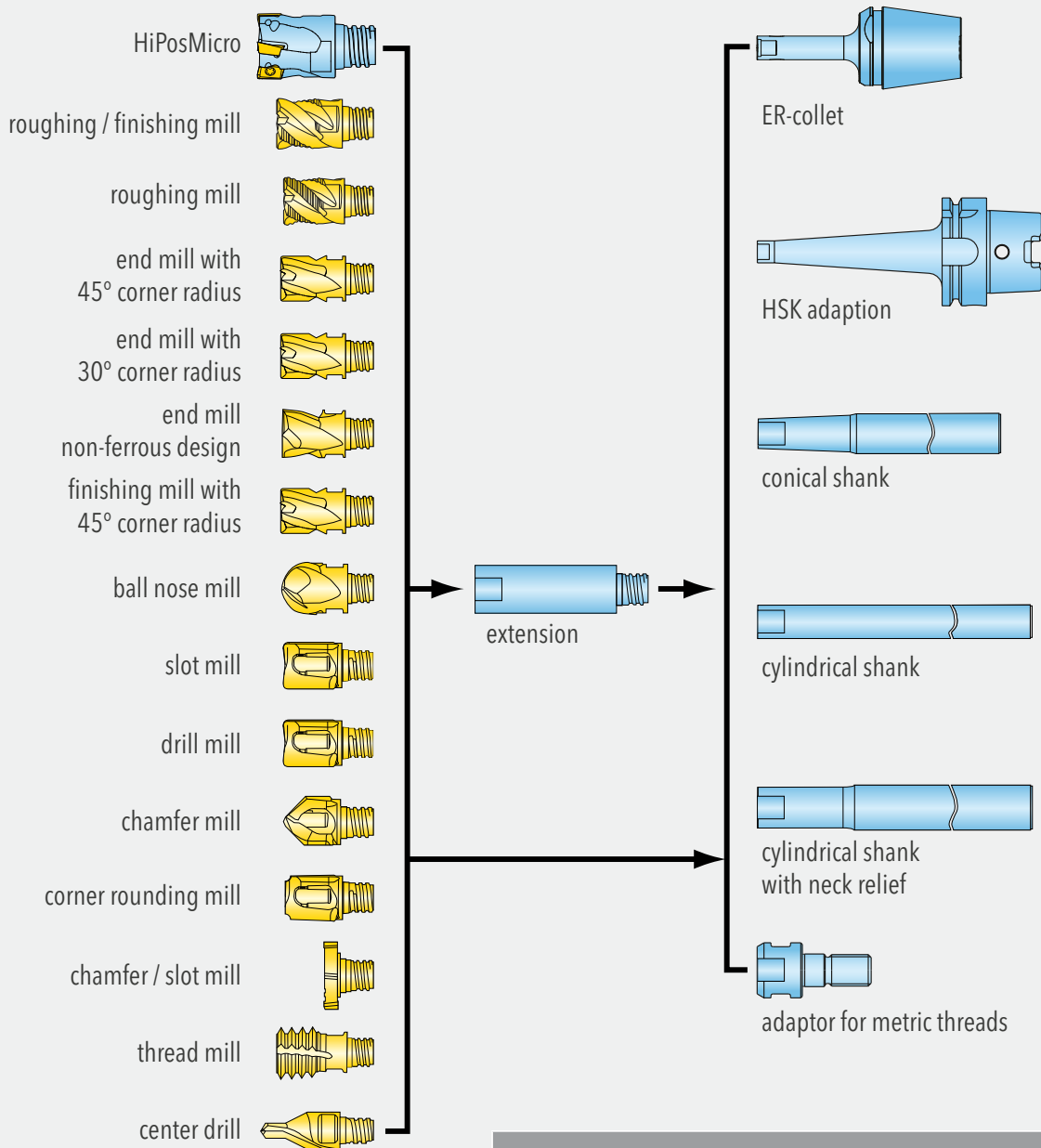


DIN 6499



| Designation | d1 | L | L1 | L5 | α | Ts | ER |
|--------------|-----|-----|----|------|----------|----|----|
| ER32T06SA018 | 9,2 | 65 | 25 | 18 | - | T6 | 32 |
| ER32T06SK022 | 9,6 | 65 | 25 | 22,3 | 5 | T6 | 32 |
| ER32T06SK047 | 9,6 | 90 | 50 | 47,3 | 5 | T6 | 32 |
| ER32T06SK074 | 9,6 | 115 | 75 | 74,1 | 5 | T6 | 32 |
| ER32T06SK045 | 9,6 | 90 | 50 | 45 | 1 | T6 | 32 |

CHIP SURFER EXCHANGEABLE HEAD SYSTEM



| cuter diameter | screw-in type thread | Nm |
|----------------|----------------------|----|
| 6,4 / 8 | T05 | 7 |
| 9,5 | T06 | 10 |
| 12,7 | T08 | 15 |
| 15,9 | T10 | 28 |
| 19 | T12 | 28 |
| 25,4 | T15 | 28 |

The CHIPSURFER belongs to a modular tool series, consisting of a shank with multiple interchangeable heads for a multitude of different applications.

- Roughing and finishing of 2D and 3D contours.
- Shoulder milling with 90° milling heads with close pitch.
- Special slot milling heads for steel and aluminum.
- Custom geometries possible thanks to new sintering technology.
- Rigid screw connections for vibration-free milling and higher feed rates.
- Different tool shanks available for optimal contour adaptation.
- When changing the head take care for proper tightening.
- Contact surfaces of head and holder must be level.
- Before tightening, ensure tools are clean.

Advantages:

- Lightning-fast exchange of milling heads at machine.
- High repeatability and true-running accuracy.

Ingersoll Cutting Tools

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