

# Karl Schüssler GmbH & Co. KG



**SCHÜSSLER Premium Tool Holders –  
Advantage for your production!**

**MachineTool**  
Supplies

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# Hawk-Eye®



## HPC Precision ER Collet Chuck



# Hawk Eye® Quality Features



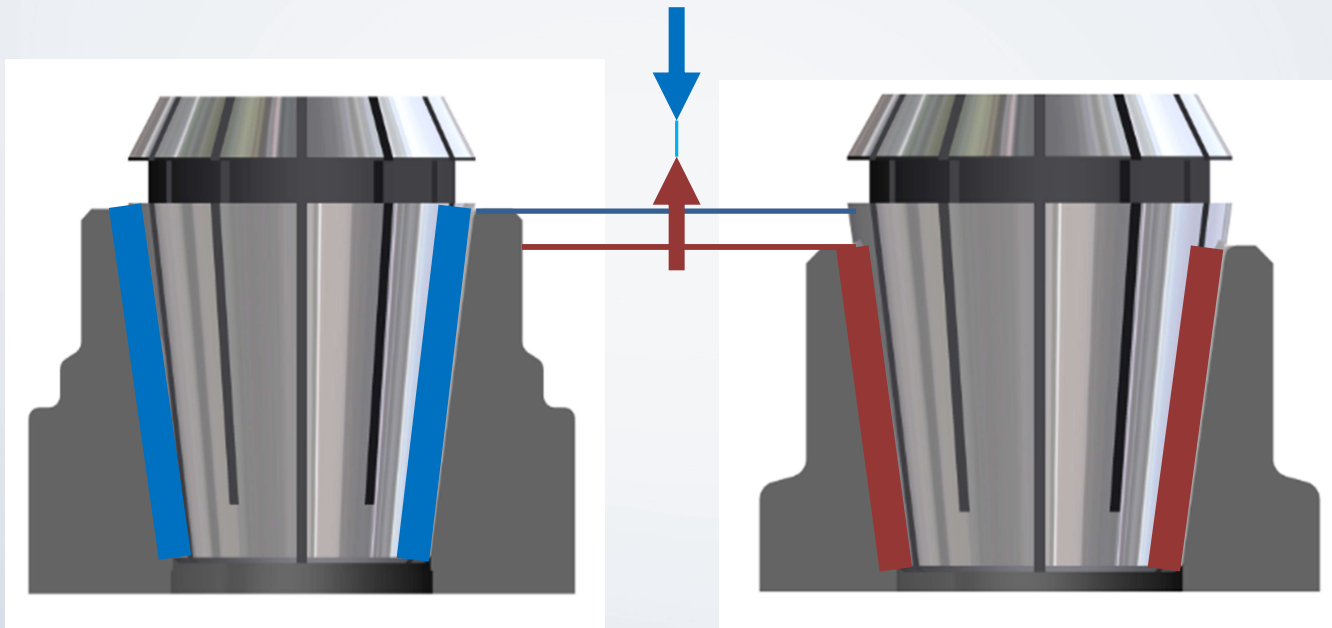
Perfect contact in the chuck body  
= maximum holding force and precision

## Hawk Eye® collet contact in comparison to a standard collet chuck

Deep seat of the collet  
at **Hawk Eye®**

For comparison standard ER chuck –  
Seat of the collet ca. 3mm less

PLUS! > 15%



# Hawk Eye® Quality Features



## Clamping nut with ball bearing

Clamping nut with special  
threaded surface

- Fine pitch thread for  
highest clamping  
forces



Ball bearing clamping nut

- Very smooth  
clamping
- No torsion of the  
collet when clamping

# Hawk Eye®

## Customer advantage



- Double holding force in comparison to a standard collet chuck!
- Efficient machining, especially when i-machining
- Highest cutting speeds and feeds
- Increasing of the tool life upto 30%
- Standard range:

HSK-A63	SK-40	BT40
HSK-A100	SK-50	BT50
PSC (Capto)		



# Hawk-Eye®



The universal tool holder for efficient machining!



## ER Collet TITANIUM

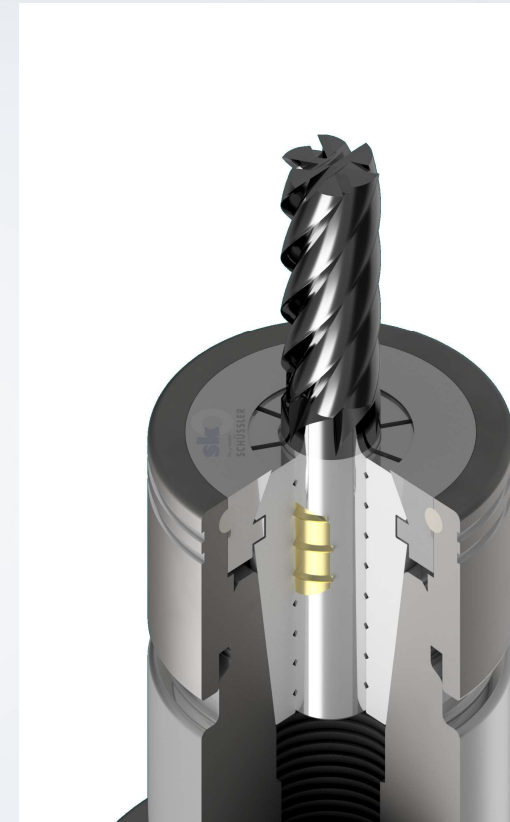
### HPC – Collet with anti-pullout function

#### The problem:

During HPC milling, like i-machining even highest holding forces result in micro-vibrations – micro pull-out of the HPC milling cutter.

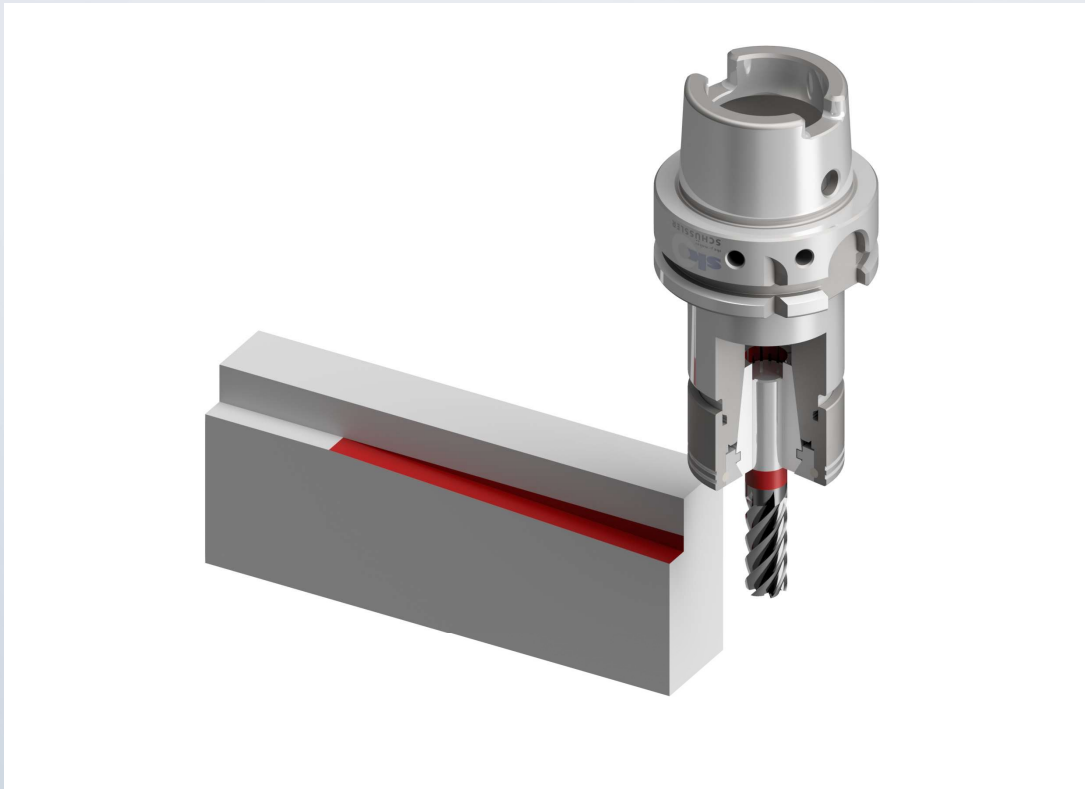
#### The requirement:

Absolute security during rough machining with high chip volume and when machining of high alloy materials like Titanium, Inconel etc. and expensive workpieces for Aerospace, Die & Mould, Medical etc.



## ER Collet TITANIUM

HPC – Collet with anti-pullout function



### The problem:

During HPC milling, like i-machining or full-slot machining, even highest holding forces result in pull-out of the HPC milling cutter which means expensive rework or even scrap parts.



## ER Collet TITANIUM

### HPC – Collet with anti-pullout function

**Weldon** holders are a kind of „old style“ holder with all well known disadvantages like:

Tool will be pushed out of centre, is too rigid and therefore tends to vibrate and even in releasing of the clamping screw, which sometimes therefore will be secured with Loctite.

A perfect dampening incl. good runout and 100 % anti-pullout is provided with the ER HPC collet **TITANIUM**.



## ER Collet TITANIUM

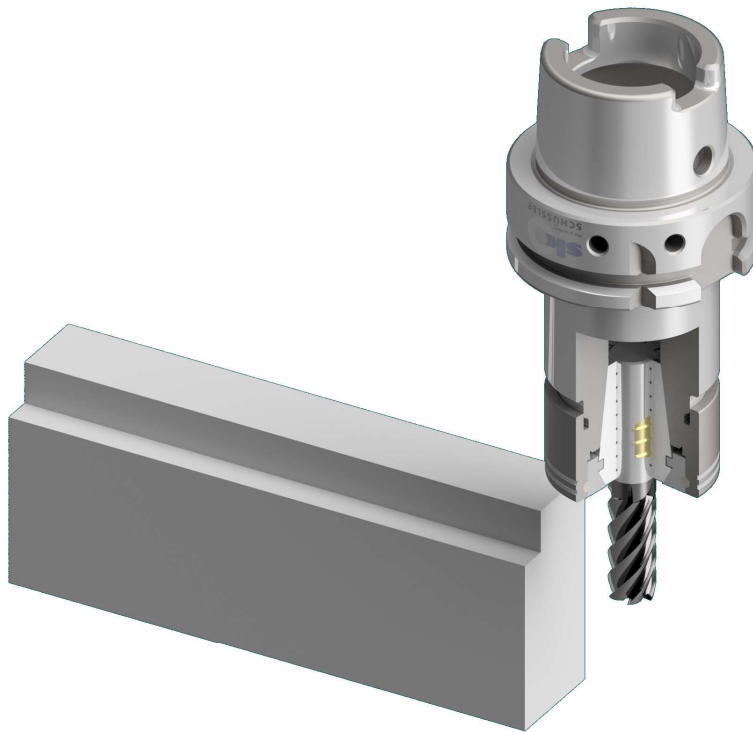
### HPC – Collet with anti-pullout function

- The ER collet **TITANIUM** is having an internal thread,
- You only need a Milling cutter with Weldon flat and the threaded insert
- The threaded insert will be put into the Weldon flat and then screwed-in into the collet.
- The Milling cutter is adjustable  $\pm 10$  mm.  
so regrinding is possible – a Weldon holder is fix and there is no adjustment of the milling cutter possible!



## ER Collet TITANIUM

HPC – Collet with anti-pullout function



### The solution:

HPC – ER Collet  
**Titanium** with anti-pullout function!  
100% process security during HPC Milling!  
Perfect dampening with high runout results in higher tool life up to 30% and a much higher life of the spindle which economises a lot!

# SCHÜSSLER



## μ-Connect – Shrinking units

SG2116-01 μ-connect

SG2132-03 μ-connect



Dia. Ø 3-16 (20) HM  
and HSS  
No cooling  
Manual handling



Dia. Ø 3-32 HM and HSS  
Patented air-contact cooling!  
Automated handling

## Our Service – Your advantage

- Service Level >90% (high stock availability)
- Cad Drawings available
- Application engineer available (on-site)
- Professional partners





Thanks for your interest