

S C H Ü S S L E R
HAWK EYE®



www.k-schuessler.de

sk
the μ -maker
SCHÜSSLER

The HPC-Precision ER-collet chuck **HAWK EYE®**

engineered by SCHÜSSLER

Go for precision in perfection and fully exploit the potential of your machine and tools: high-precision concentricity features, combined with high clamping forces, for highly efficient machining.

New: our **HAWK EYE®** ER-collet chucks “**Mini**” in the versions HSK-A 63 / HSK-E 40 / SK 40 / BT 30 and BT 40.



MADE IN GERMANY

HAWK EYE® – Your benefits at a glance

The deep-seated collet inside the chuck guarantees:

- **precise runout** of cutting tool
 $\leq 3 \mu$ bei $2,5 \times D^*$
- a significant increase of **radial rigidity**
- **maximum contact** in the body of the chuck and double clamping forces compared to a standard ER collet chuck

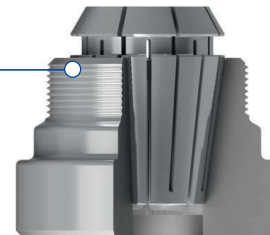
* When using the original SCHÜSSLER collets.

Fine pitch thread
for maximum clamping force

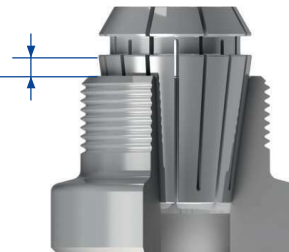


Enforced body of the chuck for ultimate stability and higher radial rigidity

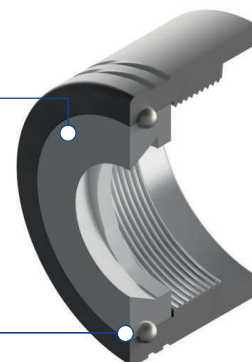
HAWK EYE®
deep seat of the collet inside the body of the chuck



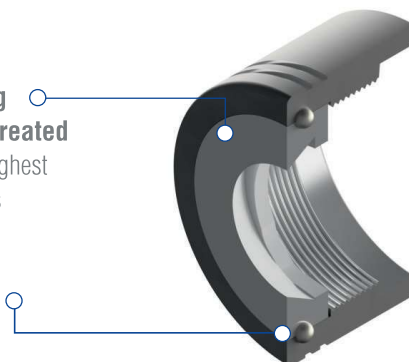
In comparison,
a standard ER-chuck



Clamping ring with special treated surface, for highest clamping forces



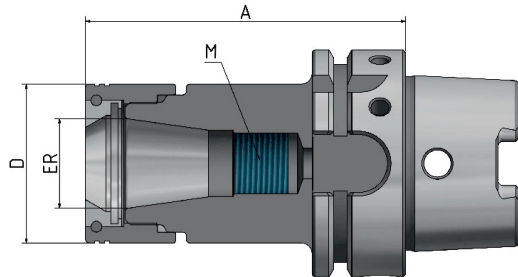
Ball-bearing clamping nut



NEW · NEW · NEW
Available as well with
anti-pull-out device
see p. 13

HSK-A 63

HPC – Precision ER-collet chuck HAWK EYE® / ER “Mini”



FINE BALANCED
G 2,5 at 25.000^{min-1} or
max. residual imbalance
≤ 1 gmm



Fig. shows A = 160

Order No.	HSK	ER	D	A	Clamping range*	M	Version
606332-002	63	16	34	75	1–10	-	Extra short
606332-003	63	20	38	75	1–13	-	Extra short
606332-004	63	25	44	75	1–16	-	Extra short
606332-005	63	32	52	75	2–20	-	Extra short**
606332-006	63	40	62	85	4–26	-	Extra short**
606332-02	63	16	34	100	1–10	M11x1	Short
606332-04	63	25	44	100	1–16	M18x1,5	Short
606332-05	63	32	52	100	2–20	M24x1,5	Short
606332-06	63	40	62	120	4–26	M28x1,5	Short
606332-52	63	16	34	130	1–10	M11x1	Long
606332-54	63	25	44	130	1–16	M18x1,5	Long
606332-55	63	32	52	130	2–20	M24x1,5	Long
606332-62	63	16	34	160	1–10	M11x1	Extra long
606332-64	63	25	44	160	1–16	M18x1,5	Extra long
606332-65	63	32	52	160	2–20	M24x1,5	Extra long

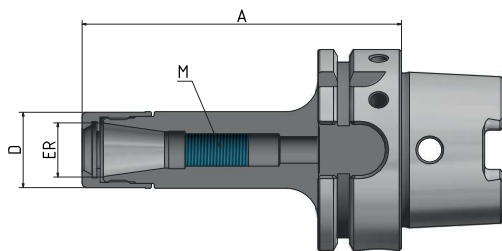


Fig. shows A = 160

HPC – Precision ER-collet chuck HAWK EYE® “Mini”

Order No.	HSK	ER	D	A	Clamping range*	M	Version
606334-01	63	11	16	100	1–7	M8x1	Short
606334-02	63	16	24	100	1–10	M11x1	Short
606334-61	63	11	16	160	1–7	M8x1	Extra long
606334-62	63	16	24	160	1–10	M11x1	Extra long

* The chuck can only clamp the nominal diameter of the collet. Scope of delivery: including clamping nut.

** When using the Titanium collet, the collet stop must be removed.

HPC – Precision ER-collet chuck HAWK EYE®

 **FINE BALANCED**
G 2,5 at 25.000^{min-1} or
max. residual imbalance
≤ 1 gmm

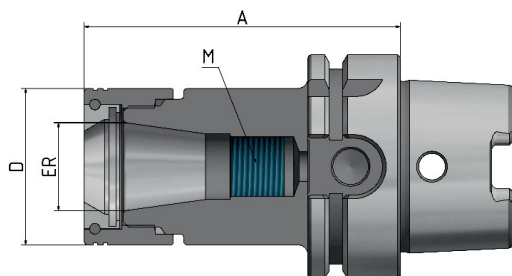


Fig. shows A = 160

Order No.	HSK	ER	D	A	Clamping range*	M	Version
610032-002	100	16	34	75	1–10	-	Extra short
610032-004	100	25	44	75	1–16	-	Extra short
610032-005	100	32	52	75	2–20	-	Extra short
610032-006	100	40	62	85	4–26	-	Extra short
610032-02	100	16	34	100	1–10	M11x1	Short
610032-04	100	25	44	100	1–16	M18x1,5	Short
610032-05	100	32	52	100	2–20	M24x1,5	Short
610032-06	100	40	62	120	4–26	M28x1,5	Short
610032-52	100	16	34	130	1–10	M11x1	Long
610032-54	100	25	44	130	1–16	M18x1,5	Long
610032-55	100	32	52	130	2–20	M24x1,5	Long
610032-56	100	40	62	130	4–26	M28x1,5	Long
610032-62	100	16	34	160	1–10	M11x1	Extra long
610032-64	100	25	44	160	1–16	M18x1,5	Extra long
610032-65	100	32	52	160	2–20	M24x1,5	Extra long
610032-66	100	40	62	160	4–26	M28x1,5	Extra long

* The chuck can only clamp the nominal diameter of the collet. Scope of delivery: including clamping nut.

HSK-E 40

HPC – Precision ER-collet chuck HAWK EYE® / ER “Mini”

 **FINE BALANCED**
G 2,5 at 25.000^{min-1} or
max. residual imbalance
≤ 1 gmm

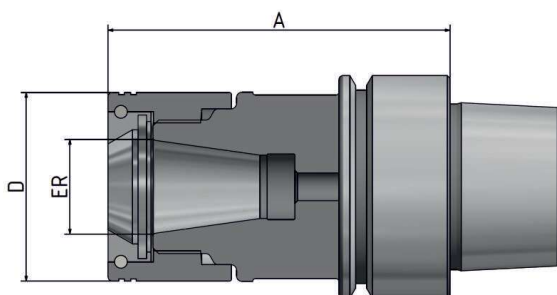


Fig. shows A = 60

Order No.	HSK	ER	D	A	Clamping range*	M
404032-02	40	16	34	60	1-10	-
404032-04	40	25	44	65	1-16	-

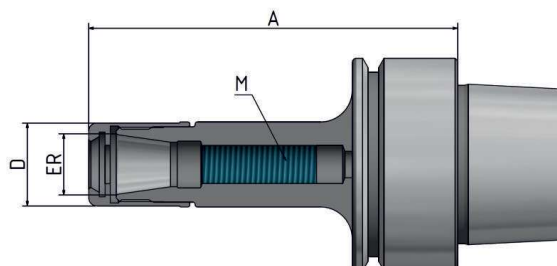


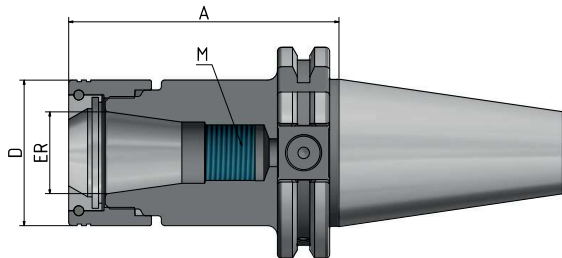
Fig. shows A = 70

HPC – Precision ER-collet chuck HAWK EYE® “Mini”

Order No.	HSK	ER	D	A	Clamping range*	M
404034-001	40	11	16	70	1-7	M8x1
404034-002	40	16	24	70	1-10	M11x1

* The chuck can only clamp the nominal diameter of the collet. Scope of delivery: including clamping nut.

HPC – Precision ER-collet chuck HAWK EYE® / ER “Mini”

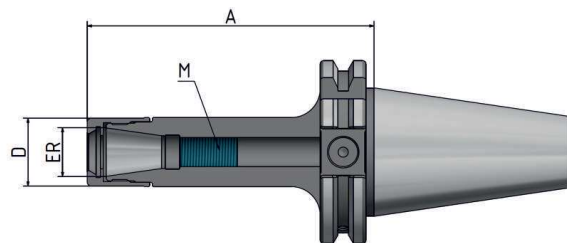


FINE BALANCED
G 2,5 at 25.000^{min-1} or
max. residual imbalance
≤ 1 gmm



Fig. shows A = 160

Order No.	SK	ER	D	A	Clamping range*	M	Version
714032-02	40	16	34	70	1–10	M11x1	Short
714032-03	40	20	38	70	1–13	M14x1	Short
714032-04	40	25	44	70	1–16	M18x1,5	Short
714032-05	40	32	52	70	2–20	M24x1,5	Short
714032-06	40	40	62	70	4–26	M28x1,5	Short
714032-32	40	16	34	100	1–10	M11x1	Long
714032-34	40	25	44	100	1–16	M18x1,5	Long
714032-35	40	32	52	100	2–20	M24x1,5	Long
714032-36	40	40	62	100	4–26	M28x1,5	Long
714032-52	40	16	34	130	1–10	M11x1	Long
714032-54	40	25	44	130	1–16	M18x1,5	Long
714032-55	40	32	52	130	2–20	M24x1,5	Long
714032-62	40	16	34	160	1–10	M11x1	Extra long
714032-64	40	25	44	160	1–16	M18x1,5	Extra long
714032-65	40	32	52	160	2–20	M24x1,5	Extra long



HPC – Precision ER-collet chuck HAWK EYE® “Mini”

Order No.	SK	ER	D	A	Clamping range*	M	Version
714034-31	40	11	16	100	1–7	M8x1	Short
714034-32	40	16	24	100	1–10	M11x1	Short
714034-61	40	11	16	160	1–7	M8x1	Extra long
714034-62	40	16	24	160	1–10	M11x1	Extra long



Fig. shows A = 160

* The chuck can only clamp the nominal diameter of the collet. Scope of delivery: including clamping nut.

SK 50 ISO 7388-1
Form AD/AF

HPC – Precision ER-collet chuck HAWK EYE®

 **FINE BALANCED**
G 2,5 at 25.000^{min-1} or
max. residual imbalance
≤ 1 gmm

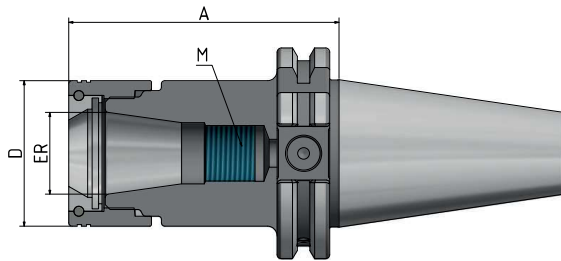


Fig. shows A = 160

Order No.	SK	ER	D	A	Clamping range*	M	Version
715032-04	50	25	44	70	1–16	M18x1,5	Short
715032-05	50	32	52	70	2–20	M24x1,5	Short
715032-06	50	40	62	70	4–26	M28x1,5	Short
715032-34	50	25	44	100	1–16	M18x1,5	Long
715032-35	50	32	52	100	2–20	M24x1,5	Long
715032-36	50	40	62	100	4–26	M28x1,5	Long
715032-54	50	25	44	130	1–16	M18x1,5	Long
715032-55	50	32	52	130	2–20	M24x1,5	Long
715032-56	50	40	62	130	4–26	M28x1,5	Long
715032-64	50	25	44	160	1–16	M18,1,5	Extra long
715032-65	50	32	52	160	2–20	M24x1,5	Extra long
715032-66	50	40	62	160	4–26	M28x1,5	Extra long

* The chuck can only clamp the nominal diameter of the collet. Scope of delivery: including clamping nut.

HPC – Precision ER-collet chuck HAWK EYE® / ER “Mini”

 **FINE BALANCED**
G 2,5 at 25.000^{min-1} or
max. residual imbalance
≤ 1 gmm

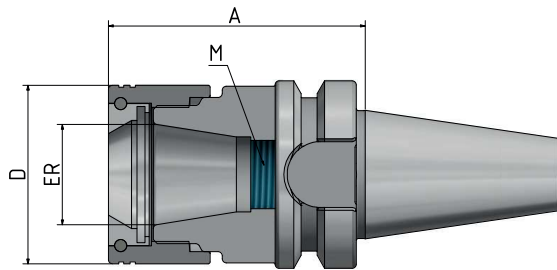


Fig. shows A = 60

Order No.	BT	ER	D	A	Clamping range*	M	Version
753032-02	30	16	34	60	1–10	M11x1	Extra short
753032-04	30	25	44	60	1–16	M18x1,5	Extra short

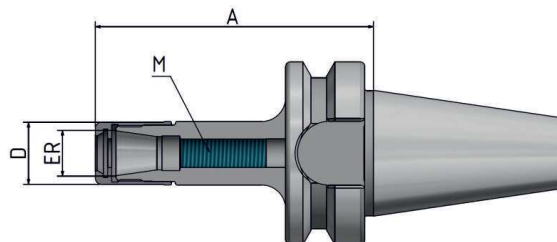


Fig. shows A = 70

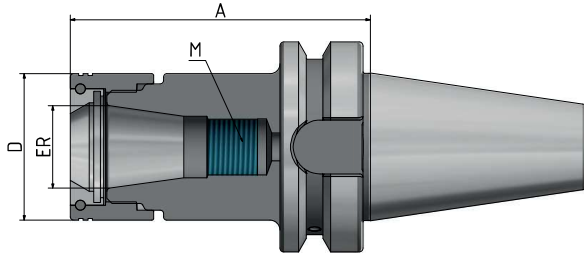
HPC – Precision ER-collet chuck HAWK EYE® “Mini”

Order No.	BT	ER	D	A	Clamping range*	M	Version
753034-01	30	11	16	70	1–7	M8x1	Short
753034-02	30	16	24	70	1–10	M11x1	Short

* The chuck can only clamp the nominal diameter of the collet. Scope of delivery: including clamping nut.

BT 40 ISO 7388-2
Form JD/JF

HPC – Precision ER-collet chuck HAWK EYE® / ER “Mini”



FINE BALANCED
G 2,5 at 25.000^{min-1} or
max. residual imbalance
≤ 1 gmm



Fig. shows A = 160

Order No.	BT	ER	D	A	Clamping range*	M	Version
754032-02	40	16	34	70	1–10	M11x1	Short
754032-03	40	20	38	70	1–13	M18x1	Short
754032-04	40	25	44	70	1–16	M18x1,5	Short
754032-05	40	32	52	70	2–20	M24x1,5	Short
754032-06	40	40	62	70	4–26	M28x1,5	Short
754032-32	40	16	34	100	1–10	M11x1	Long
754032-34	40	25	44	100	1–16	M18x1,5	Long
754032-35	40	32	52	100	2–20	M24x1,5	Long
754032-36	40	40	62	100	4–26	M28x1,5	Long
754032-52	40	16	34	130	1–10	M11x1	Long
754032-54	40	25	44	130	1–16	M18x1,5	Long
754032-55	40	32	52	130	2–20	M24x1,5	Long
754032-62	40	16	34	160	1–10	M11x1	Extra long
754032-64	40	25	44	160	1–16	M18x1,5	Extra long
754032-65	40	32	52	160	2–20	M24x1,5	Extra long

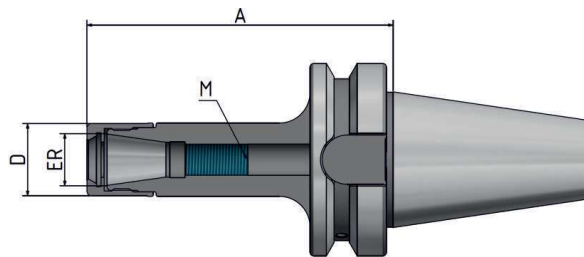


Fig. shows A = 160

HPC – Precision ER-collet chuck HAWK EYE® “Mini”

Order No.	BT	ER	D	A	Clamping range*	M	Version
754034-31	40	11	16	100	1–7	M8x1	Short
754034-32	40	16	24	100	1–10	M11x1	Short
754034-61	40	11	16	160	1–7	M8x1	Extra long
754034-62	40	16	24	160	1–10	M11x1	Extra long

* The chuck can only clamp the nominal diameter of the collet. Scope of delivery: including clamping nut.

HPC – Precision ER-collet chuck HAWK EYE®

 **FINE BALANCED**
G 2,5 at 25.000^{min-1} or
max. residual imbalance
≤ 1 gmm

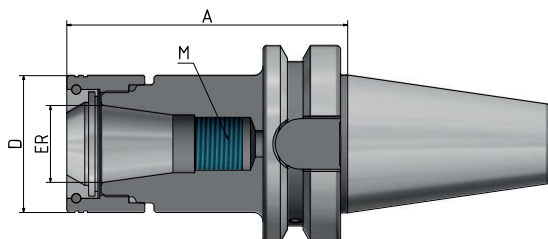


Fig. shows A = 160

Order No.	BT	ER	D	Clamping range*	A	Version
755032-04	50	25	44	1–16	70	Short
755032-05	50	32	52	2–20	70	Short
755032-06	50	40	62	4–26	80	Short
755032-34	50	25	44	1–16	100	Long
755032-35	50	32	52	2–20	100	Long
755032-36	50	40	62	4–26	100	Long
755032-54	50	25	44	1–16	130	Long
755032-55	50	32	52	2–20	130	Long
755032-56	50	40	62	4–26	130	Long
755032-64	50	25	44	1–16	160	Extra long
755032-65	50	32	52	2–20	160	Extra long
755032-66	50	40	62	4–26	160	Extra long

* The chuck can only clamp the nominal diameter of the collet. Scope of delivery: including clamping nut.

CORUM C6

HPC – Precision ER-collet chuck HAWK EYE® / CORUM C6 (Polygonal shank)

 **FINE BALANCED**
G 2,5 at 25.000^{min-1} or
max. residual imbalance
 ≤ 1 gmm

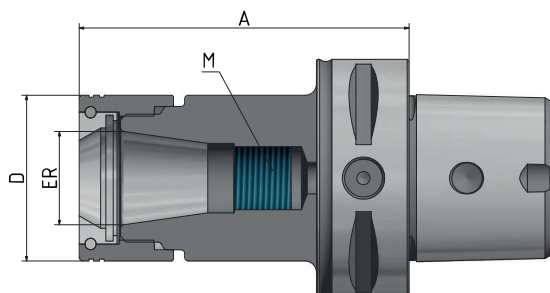


Fig. shows A = 100

Order No.	C	ER	D	A	Clamping range*	M	Version
306332-31	6	16	34	100	1–10	M11x1	Long
306332-32	6	25	44	100	1–16	M18x1,5	Long
306332-33	6	32	52	100	2–20	M24x1,5	Long

* The chuck can only clamp the nominal diameter of the collet. Scope of delivery: including clamping nut.

ER-collets – repeatable accuracy 2μ and 5μ



- High precision design with concentricity and repeat accuracy of 2μ or 5μ.
- All lengthwise edges deburred and rounded additionally. This protects the inner cone of the chuck and provides consistently high concentricity.
- Increased holding forces and rigidity by super-finish-version.

You can find the whole product range of 2 μ and 5 μ collets as well as other versions in our current catalogue!

Roller bearing wrench head HAWK EYE®



Order No.	Square drive	ER	D
163-42	9x12	16	34
163-43	14x18	20	38
163-44	14x18	25	44
163-45	14x18	32	52
163-46	14x18	40	62

Roller bearing wrench HAWK EYE®, one-piece



Order No.	ER	D
163-12	16	34
163-13	20	38
163-14	25	44
163-15	32	52
163-16	40	62

Torque wrench



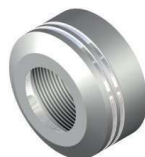
Order No.	VK
163-83	9x12
163-85	14x18

Clamping nut HAWK EYE® with ball bearing



Order No.	ER	D
137-02R	16	34
137-03R	20	38
137-04R	25	44
137-05R	32	52
137-06R	40	62

Clamping nut HAWK EYE®, one-piece



Order No.	ER	D
137-42R	16	34
137-44R	25	44
137-45R	32	52
137-46R	40	62

Clamping nut HAWK EYE® ER "Mini"



Order No.	ER	D
137-01M	11	16
137-02M	16	24

Roller bearing wrench HAWK EYE® ER "Mini", one-piece



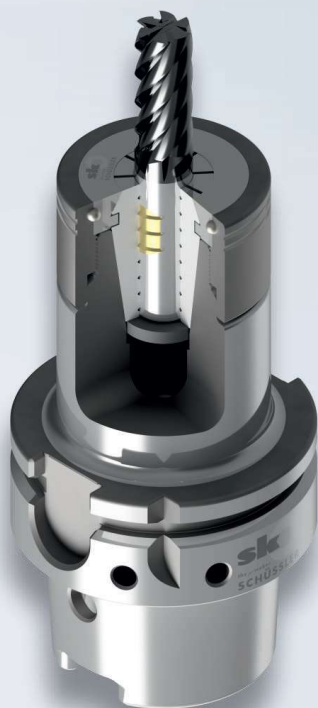
Order No.	ER	D
163-21	11	16
163-22	16	24

Roller bearing wrench head HAWK EYE® ER "Mini"



Order No.	VK	ER	D
163-91	9x12	11	16
163-92	9x12	16	24

S C H Ü S S L E R TITANIUM



The HPC-Precision
ER-collet chuck
HAWK EYE®
in combination with the
ER collet system
TITANIUM –
a 100 %
secure connection!

ER-collet system TITANIUM – secuRgrip®

In HPC milling processes such as iMachining or full-slot milling, even the highest holding forces are often insufficient to prevent tool pull-out. This results in additional costs for amendment or deficient product. To avoid this, we have a powerful solution: the combination of Schüssler's ER-collet chuck HAWK EYE® with our ER-collet system TITANIUM - secuRgrip® for highest concentricity, perfect damping and 100 % protection against tool pull-out.

Your benefits at a glance:

- optimization of process times (metal removal rate)
- safety and precision even with materials that are difficult to machine or with high-quality and time-intensive workpieces
- improvement of tool life
- reduction of tool breakage
- longer lifetime of machine spindle
- ultimate tool pull-out protection

ER-collet
with internal thread



Thread insert
suitable for all tools
with Weldon shank



Order No. ER-collet secuRgrip®	ER	D	Order No. Thread insert secuRgrip®	D
125-410	32	10	136-10	10
125-412	32	12	136-12	12
125-416	32	16	136-16	16
125-516	40	16	136-16	16
125-520	40	20	136-20	20
125-525	40	25	136-25	25

secuRgrip® is a registered and protected brand name of REGO-FIX AG.