

Clamping and balancing technology

and
accessories



grinding deserves SOLUTIONS

GDS[®]
Made in Germany



CONTENT

Status Sept. 2021

Clamping and balancing technology

Optimal grinding solutions require extreme precision paired with an efficient and flexible loading system on your machine.

To meet these requirements, GDS has developed new clamping and balancing systems.

"Our quality for your success"

All clamping and balancing solutions needed for high-precision tool grinding from one source. Customized solutions for your grinding and workpiece spindles are available on request.

GDS - precision is our passion



Competence and Innovation

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Characteristics of GDS clamping and balancing systems:



Highest accuracy by using modern measurement techniques.



Perfect fit and optimum radial and axial runout.



Ruggedness due to use of tempered material and best heating treatments.



Optimum surface finish plus long lasting dimensional stability and precision.



Sustainability by excellent durability and repair options.

SHARK - the 5-Jaw Chuck in high-precision GDS quality!



The modern grinding process is becoming increasingly complex: extreme accuracy, perfect quality and reduction of set-up times under enormous price pressure. To meet these requirements, GDS has developed the SHARK multi-range clamping system.

Specially designed for use in changing clamping ranges, it enables you to directly clamp your workpieces fully automatically, in the diameter range from 3 mm to 20 mm. You need neither collets nor intermediate sleeves and can also clamp special diameters and intermediate dimensions without further ado and with process reliability. Your set-up time is reduced to a minimum and you achieve a set-up cost saving of up to 70 % compared to regular clamping devices.

The SHARK is just as suitable for manufacturing new tools as it is for resharpening.

SHARK - versatile, flexible and highly accurate.

Technical data:

number of slats	max. clamping depth (mm)	min. clamping depth (mm)	clamping range (mm)	clamping force max. (kN)	pressure (MPa)	weight (kg)	speed max. (1/min)	Ø outside (mm)	chuck length (mm)
5	100	2,5 x D	3-20 mm	9,6	min. 6 bar	6,7	1200	148	122,5

Best results - even under the most difficult conditions



With the SHARK, the clamping jaws are in the same axial position at all times. Due to the uniquely newly developed solid jaw guide, the wobble can be reduced to a minimum. Together with the high concentricity and repeatability, as well as low interfering contours, you achieve process reliability and best results even with difficult processes. During operation, the chuck is cleaned with active sealing air. This prevents contamination and maintains absolute precision over the long term.

High compatibility with all common machine manufacturers

The SHARK multi-range clamping system is available for all common machine interfaces by means of an adapter flange. Our trained service personnel will be happy to help you determine the right version for your machine. Let us advise you and find the best solution for your work process.



Your **flexible solution** in the clamping range **3-20 mm**.



The **SHARK 5-Jaw Chuck** is designed exclusively for **automatic operation**.



Flexible clamping range Ø 3 mm - 20 mm

No auxiliary tools required

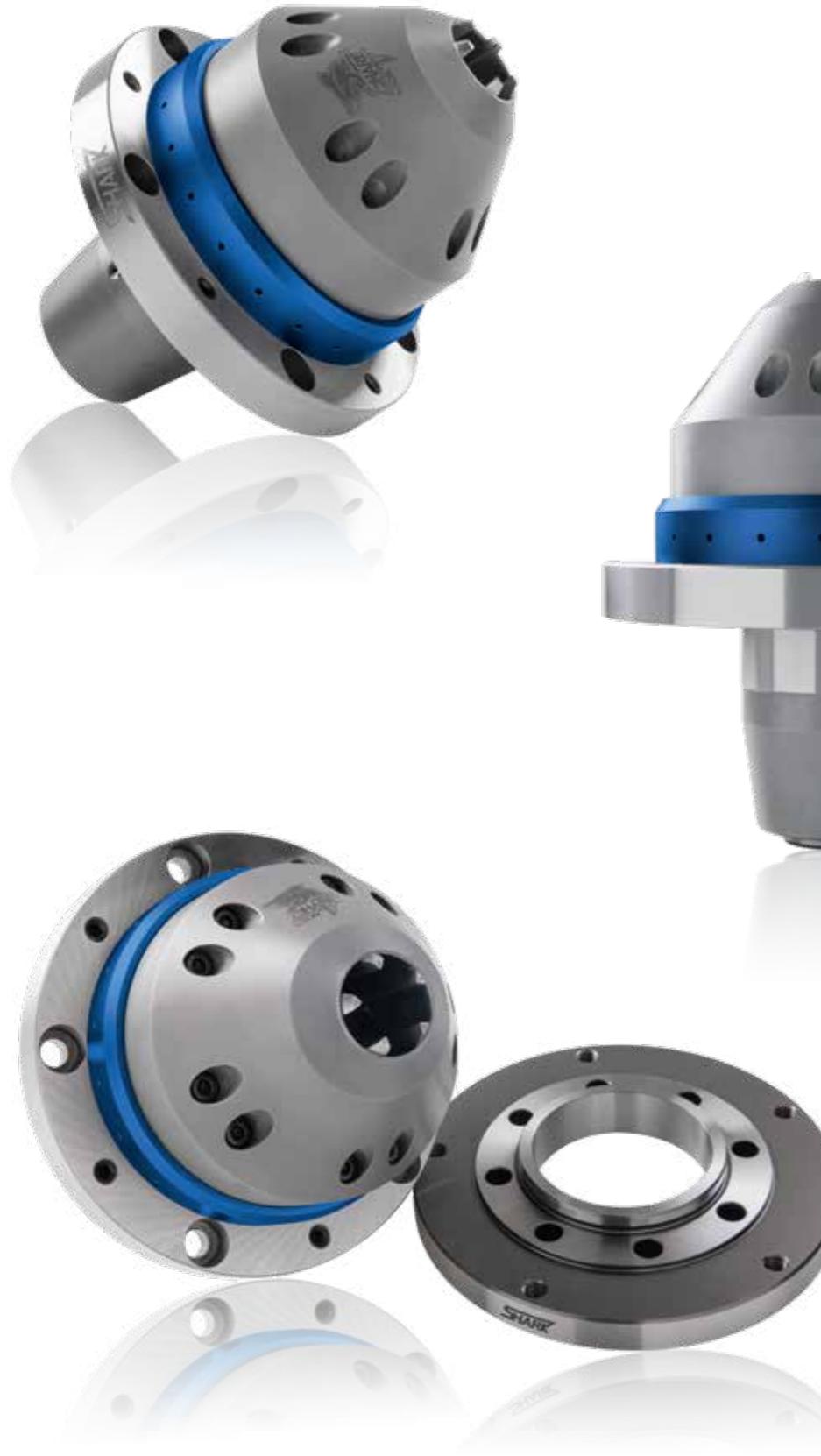
Highest precision < 0.005 mm

Concentricity can be precisely aligned

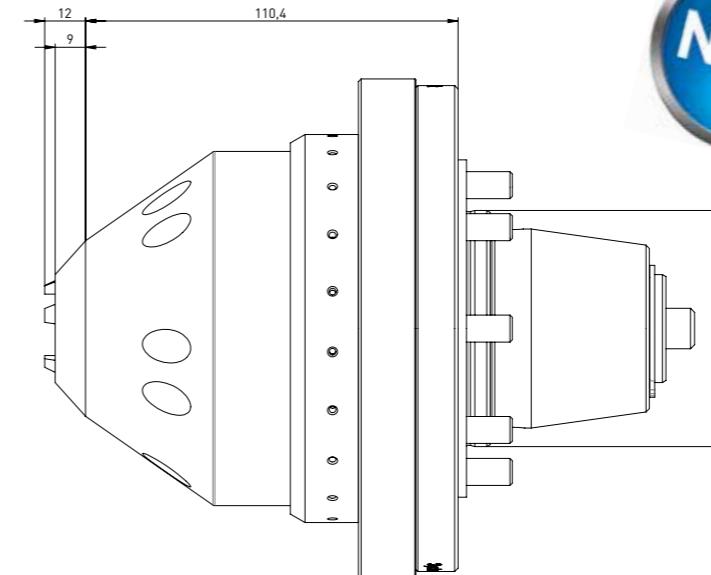
Cost reduction due to time savings



SHARK 5-Jaw Chuck



SHARK 5-Jaw Chuck



Delivery includes:

Case, SHARK 5-Jaw Chuck, tie rod, compression spring, adjusting mandrel D20d12, mounting screws, clamping wrench SW6x350, clamping wrench SW6x150, tapper D30x155 alignment hammer, double socket wrench SW24 x 27 with handle, test certificate

Item No. Name

400008000 SHARK 5-Jaw Chuck Walter

400008001 SHARK 5-Jaw Chuck ANCA

The SHARK multi-range clamping system is only suitable for automatic operation!

Accessories:

Item No. Name

250002915 Stop screw

High compatibility with all common machine manufacturers.

Available for following machines:

ANCA
Walter

Also available for these machines on request:

ISOG
JOERG S-techplus
Reinecker
Saacke
Schütte
Star
TGT
Vollmer



The µGrind HPS 20 **automatic chuck** offers a 2-plane adjustment to eliminate axial and radial runout in just a few minutes.



GDS developed the µGrind series specifically for use on tool grinding machines, which made this series an innovation in the field of high-precision clamping devices for tool grinding.

This series offers accurate concentricity and repeatability, with runout holding under two microns at $2.5 \times D$.

Excellent damping properties for uniform material removal while optimizing feed rates. The workpiece surface finish is perfectly consistent and grinding wheel wear is significantly reduced. This makes your grinding process highly productive and predictable.

Best dimensional stability at the cutting edge. Tapered profile for excellent wheel clearance. Setup with micron-level accuracy in just a few minutes by using two gauges, with absolute repeatability when changing blanks or collets (to change diameters).

GDS -precision is our passion

Quick and easy alignment of axial runout and wobble adjustment – the µGrind yields a **new dimension in grinding precision**.



Tapered profile for optimal wheel clearance.

Accurate concentricity and repeatability. Runout under 0.002 mm at $2.5 \times D$.

Wobble adjustment.

Concentricity alignment.

Wide clamping range due to special collets.

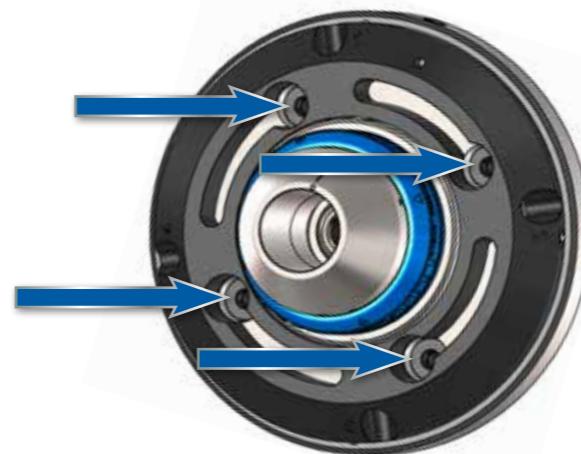
Requires a relatively short clamping length on the blank to achieve constant holding force and concentricity at $2.5 \times D$.

Excellent dampening properties with very low wearout.

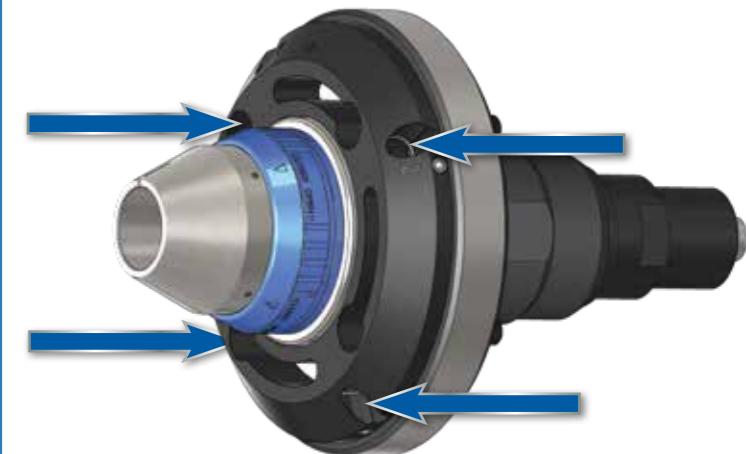
Sustainable investment due to excellent durability and repair options.

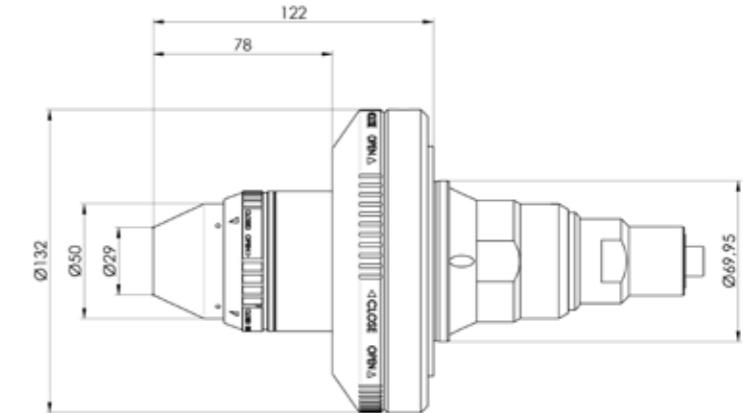
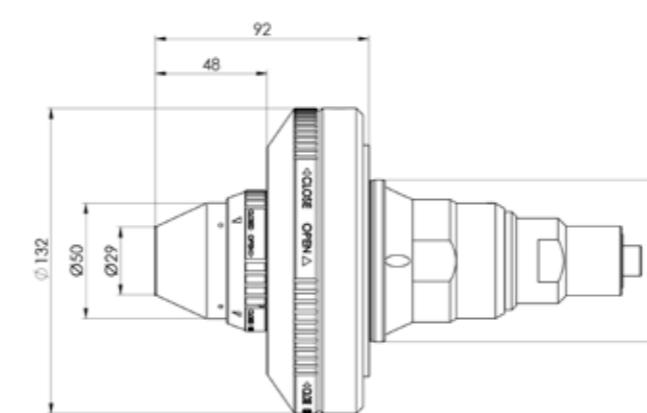


Setup - Concentric with the machine



Setup - Parallel with the machine



μGrind booster HPS 20 / HPS 20 L**μGrind booster HPS 20 / HPS 20 L****Delivery includes:**

Case, push rod, alignment hammer,
clamping wrench, double socket wrench

Item No.	Name	D	L
400001000	μGrind booster HPS 20	69,95	92
400001001	μGrind booster HPS 20 L	69,95	122

HPS collets see on the following pages.

Item No.	Name
350270002	Alignment set HPS (excl. dial gauges) Incl. HPS collets ø8 and ø10, test pin ø8 and ø10 dial gauges available separately
350270003	Dial gauges (2 pcs.)

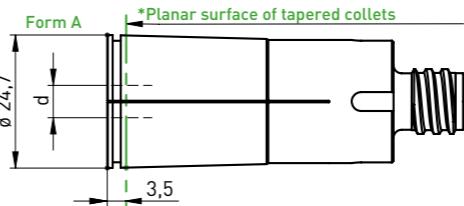
**Available for following machine(s):**

Helitronic Mini Power
(excluding Helitronic Mini Automation)
Helitronic Power
Helitronic Vision
Helitronic Essential
Measuring machines: Helicheck



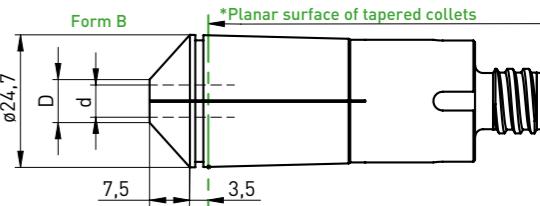
HPS collets for **μGrind booster HPS 20 // HPS 20 L** and **xGrind**

Accessories flat collets:

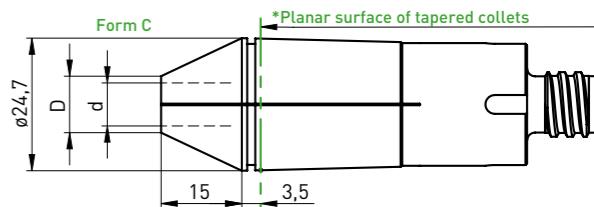


Item No.	Name - ø d	Form
350260003	HPS collet 20 - ø3 mm	A
350260004	HPS collet 20 - ø4 mm	A
350260005	HPS collet 20 - ø5 mm	A
350260006	HPS collet 20 - ø6 mm	A
350260007	HPS collet 20 - ø7 mm	A
350260008	HPS collet 20 - ø8 mm	A
350260009	HPS collet 20 - ø9 mm	A
350260010	HPS collet 20 - ø10 mm	A
350260011	HPS collet 20 - ø11 mm	A
350260012	HPS collet 20 - ø12 mm	A
350260013	HPS collet 20 - ø13 mm	A
350260014	HPS collet 20 - ø14 mm	A
350260015	HPS collet 20 - ø15 mm	A
350260016	HPS collet 20 - ø16 mm	A
350260017	HPS collet 20 - ø17 mm	A
350260018	HPS collet 20 - ø18 mm	A
350260019	HPS collet 20 - ø19 mm	A
350260020	HPS collet 20 - ø20 mm	A
350260201	HPS collet 20 - ø1/8"	A
350260202	HPS collet 20 - ø3/16"	A
350260203	HPS collet 20 - ø1/4"	A
350260204	HPS collet 20 - ø5/16"	A
350260205	HPS collet 20 - ø3/8"	A
350260206	HPS collet 20 - ø7/16"	A
350260207	HPS collet 20 - ø1/2"	A
350260208	HPS collet 20 - ø9/16"	A
350260209	HPS collet 20 - ø5/8"	A
350260210	HPS collet 20 - ø11/16"	A
350260211	HPS collet 20 - ø3/4"	A

Accessories tapered collets:



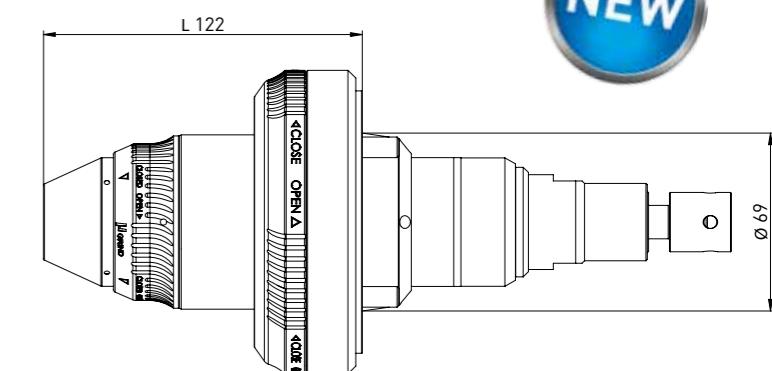
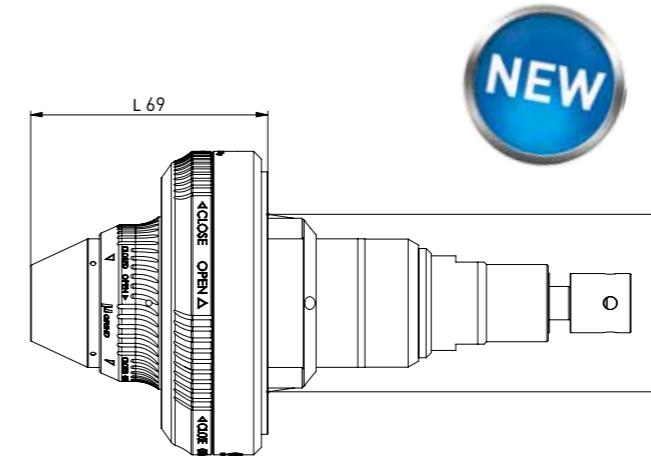
Item No.	Name - ø d	Form
350260130	HPS collet 20K - ø2,35 mm	B
350260103	HPS collet 20K - ø3 mm	B
350260104	HPS collet 20K - ø4 mm	B
350260105	HPS collet 20K - ø5 mm	B
350260106	HPS collet 20K - ø6 mm	B
350260301	HPS collet 20K - ø1/8"	B
350260302	HPS collet 20K - ø3/16"	B
350260303	HPS collet 20K - ø1/4"	B



Item No.	Name - ø d	Form
350260107	HPS collet 20K - ø7 mm	C
350260108	HPS collet 20K - ø8 mm	C
350260109	HPS collet 20K - ø9 mm	C
350260110	HPS collet 20K - ø10 mm	C
350260111	HPS collet 20K - ø11 mm	C
350260112	HPS collet 20K - ø12 mm	C
350260304	HPS collet 20K - ø5/16"	C
350260305	HPS collet 20K - ø3/8"	C
350260306	HPS collet 20K - ø7/16"	C
350260307	HPS collet 20K - ø1/2"	C



Minimum clamping depth of 2,5 x ø from *clamping chuck's plane surface.

μGrind booster ANCA HPS 20 and HPS 20 L**μGrind booster ANCA HPS 20 and HPS 20 L****Delivery includes:**

Case, push rod, alignment hammer D30x155,
clamping wrench SW 5.0x150

Item No.	Name	D	L
400001008	μGrind booster ANCA HPS 20	69	92
400001009	μGrind booster ANCA HPS 20 L	69	122

Available for following machine(s):

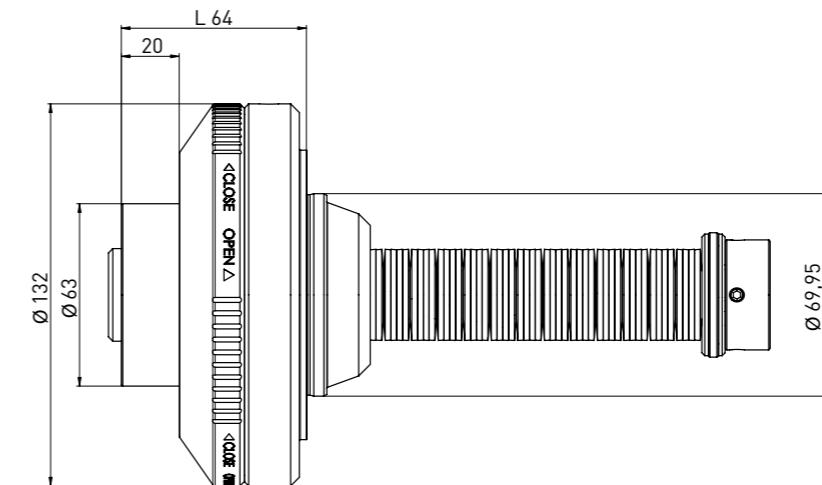
ANCA FX
ANCA MX
ANCA TX



HPS collets can be found on pages 12 and 13.

Item No.	Name
350270002	Alignment set HPS (excl. dial gauges) Incl. HPS collets Ø8 and Ø10, test pin Ø8 and Ø10 dial gauges available separately
350270003	Dial gauges (2 pcs.)



μGrind HSK63**μGrind HSK63****Delivery includes:**

Case, actuating pushrod, adjustment hammer, wrench

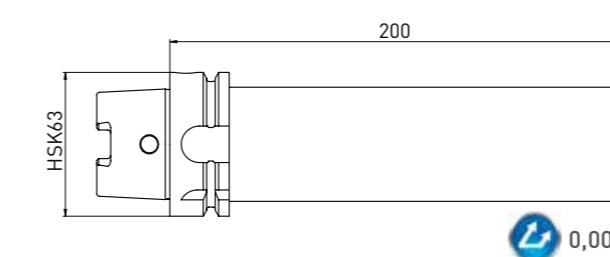
Item No.	Name	D	L
400003000	μGrind HSK63	69,95	64

Available for following machine(s):

Helitronic Mini Power
(excluding Helitronic Mini Automation)
Helitronic Power
Helitronic Vision
Helitronic Essential
Measuring machines: Helicheck

**Accessories:**

Item No.	Name
350090050	Test mandrel HSK63 x Ø50 x 200



Item No.	Name
350290001	Adapter flange ANCA with actuating pushrod



Available for following machine(s):
ANCA MX 5, ANCA MX 7

VIPER is **the powerhouse** of our GDS clamping series.
Precise, fast, versatile and strong – **perfectly equipped for all applications.**



VIPER technology has been developed particularly for use in high-performance grinding centers.

Intense holding forces offer a consistent grinding process. Its versatile applicability paired with high repeatability perfectly meets the requirements of economically optimized manufacturing or re-sharpening of rotationally symmetric tools. Set up on your tool grinding machine quickly, Viper technology is ready for use.

Combined with our CoFix wrench, you reduce set-up times to a minimum as you change your collets easier, quicker and safer as ever before.

VIPER technology – perfectly equipped for all applications.

GDS - precision is our passion

Intense holding forces, versatile applicability and high repeatability at minimal set-up times are basic requirements of economic and cost-efficient manufacturing.



Extreme holding forces.

Very sturdy.

High concentricity and repeatability.

Adjustable run-out.

Mutable clamping range by using standard Nann collets.

Extremely low wear.

Safe and easy collet change within seconds by using GDS' CoFix wrench.



GDS VIPER M
Nann 3409E Micro



VIPER S
Nann 3148E



GDS VIPER S
Nann 3148E Micro



VIPER L
Nann 3718E



VIPER M
Nann 3409E



VIPER XL
Nann 3851E

GDS VIPER M
Nann 3409E Mini/G200

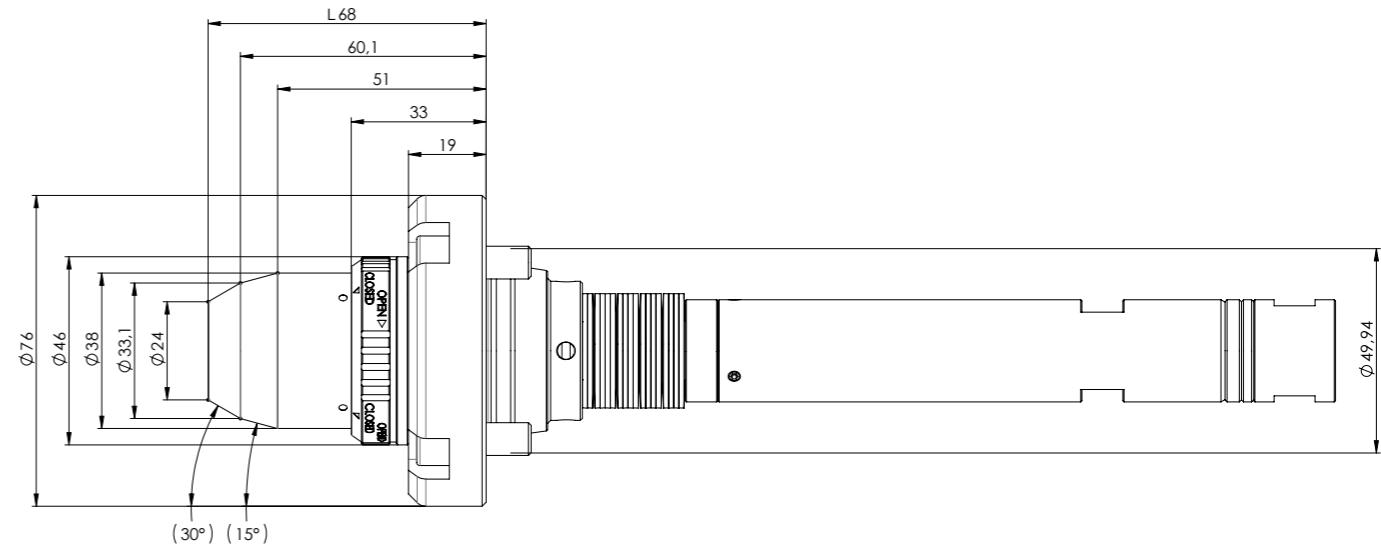


GDS VIPER S
Nann 3148E Mini/G200

VIPER S Nann 3148 E Mini/G200  Collet - maximum bore ø10



VIPER S Nann 3148 E Mini/G200  Collet - maximum bore ø10



Delivery includes:
actuating pushrod

Available for following machine(s):

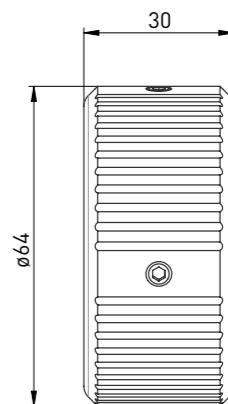


Item No.	Name	D	L
400004018	VIPER S Nann 3148E Mini/G200	49,95	68

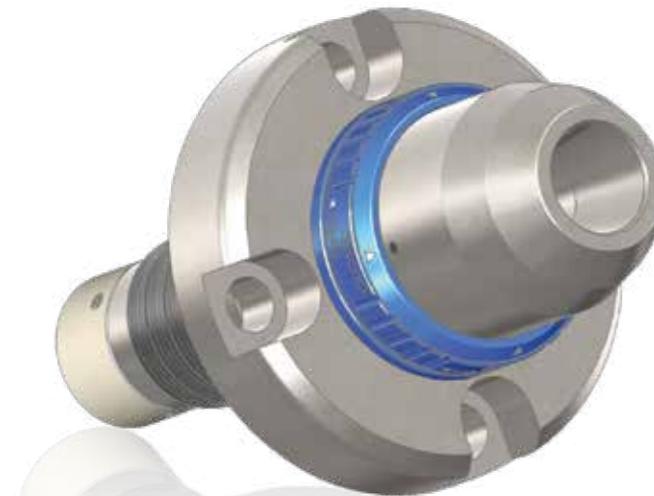
Helitronic Mini Automation

Accessories:

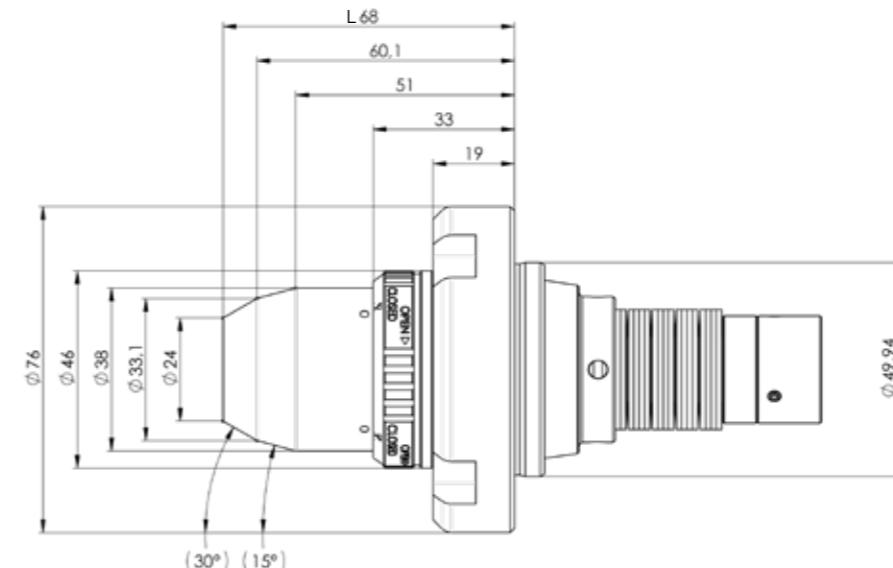
Item No.	Name
350060013	Cofix 12 (for W15 and Nann 3148E) Screw-in tool for collets



VIPER S Nann 3148E Micro  Collet - maximum bore ø10



VIPER S Nann 3148E Micro  Collet - maximum bore ø10



Delivery includes:
actuating pushrod

Available for following machine(s):

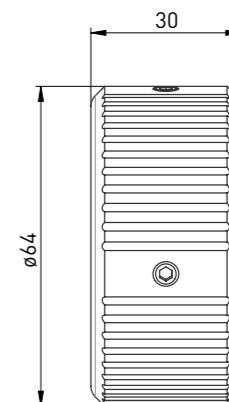


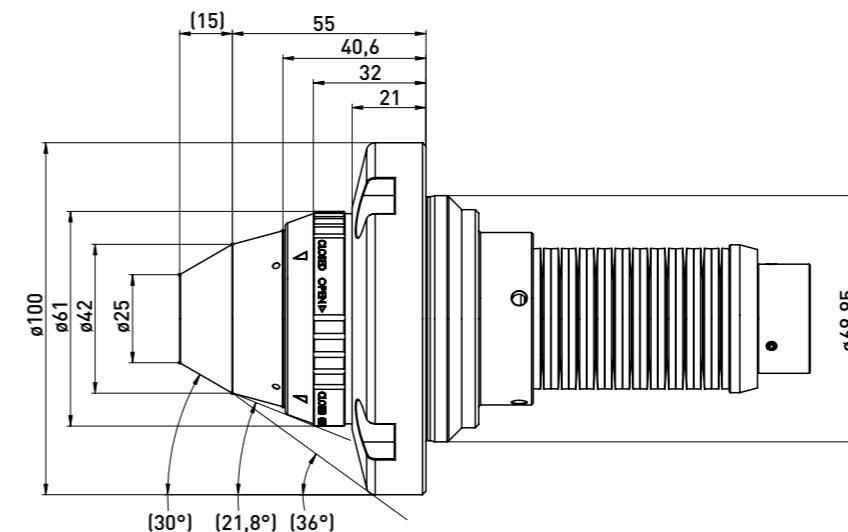
Item No.	Name	D	L
400004019	VIPER S Nann 3148E Micro	49,95	68

Helitronic Micro

Accessories:

Item No.	Name
350060013	Cofix 12 (für W15 und Nann 3148E) Screw-in tool for clamping sleeves



VIPER S Nann 3148E  Collet - maximum bore ø10VIPER S Nann 3148E  Collet - maximum bore ø10

Delivery includes:
actuating pushrod

Available for following machine(s):

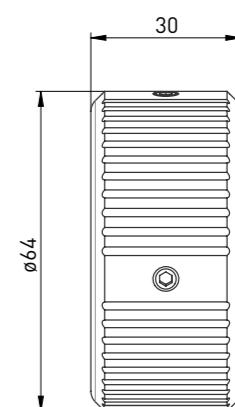


Helitronic Mini Power
(excluding Helitronic Mini Automation)
Helitronic Power
Helitronic Vision
Helitronic Essential
Essential Automation

Item No.	Name	D	L
400004014	VIPER S Nann 3148E	69,95	70

Accessories:

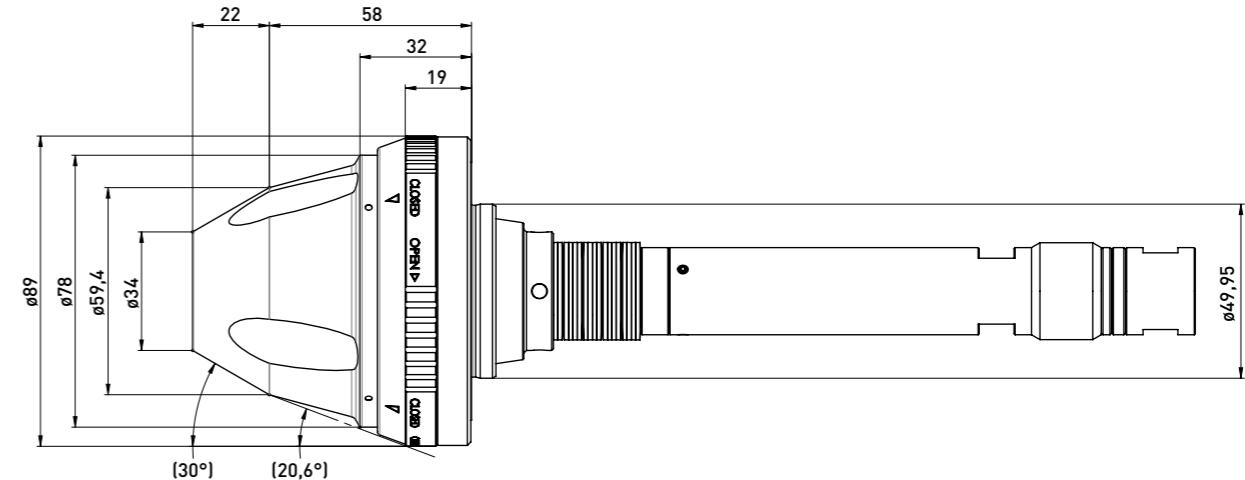
Item No.	Name
350060013	Cofix 12 (for W15 and Nann 3148E) Screw-in tool for clamping sleeves



VIPER M **Nann 3409E** Mini/G200 **NANN** Collet - maximum bore ø16



VIPER M **Nann 3409E** Mini/G200 **NANN** Collet - maximum bore ø16



Delivery includes:
actuating pushrod

Available for following machine(s):

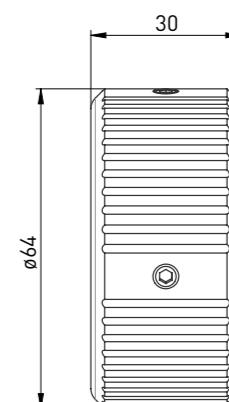


Item No.	Name	D	L
400004003	VIPER M Nann 3409F Mini/G200	49,95	80

Helitronic Mini Automation

Accessories:

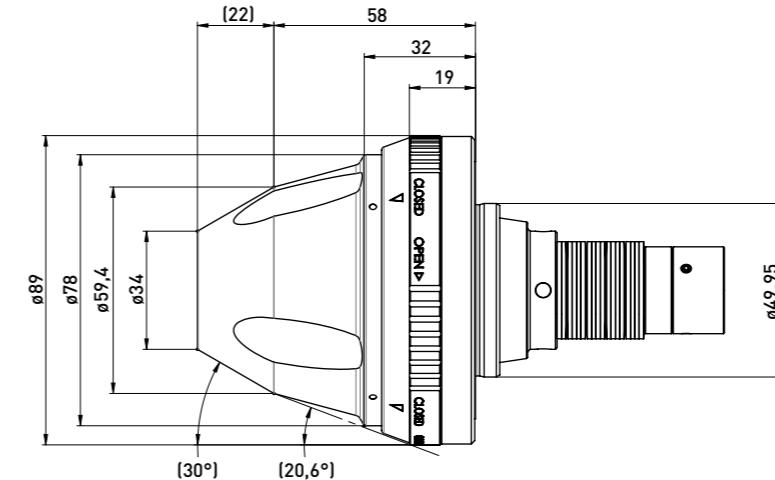
Item No.	Name
350060012	CoFix 20 (for W20 and Nann 3409E) Screw-in tool for clamping sleeves



VIPER M Nann 3409E Micro  Collet - maximum bore ø16



VIPER M Nann 3409E Micro  Collet - maximum bore ø16



Delivery includes:
actuating pushrod

Available for following machine(s):

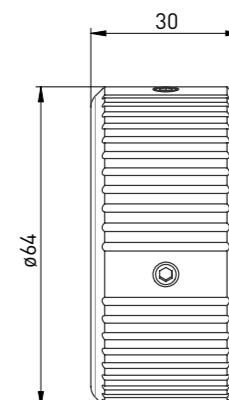


Helitronic Micro

Item No.	Name	D	L
400004002	VIPER M Nann 3409E Micro	49,95	80

Accessories:

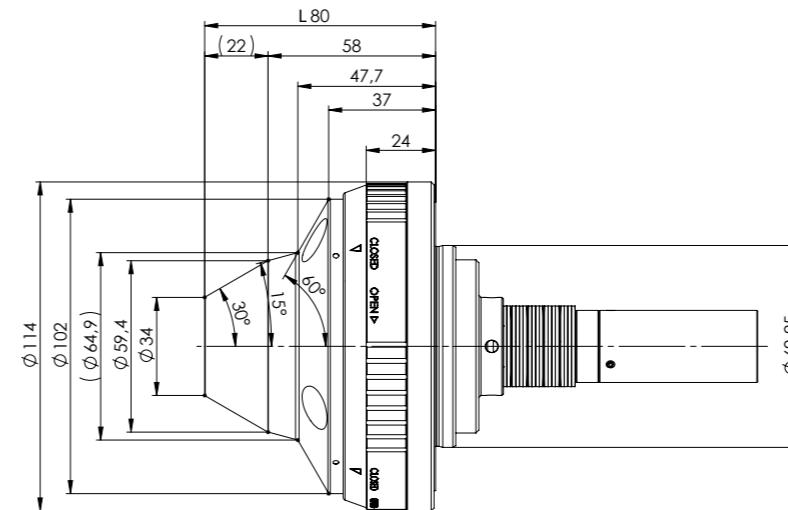
Item No.	Name
350060012	CoFix 20 (for W20 and Nann 3409E) Screw-in tool for clamping sleeves



VIPER M Nann 3409E  Collet - maximum bore ø16



VIPER M Nann 3409E  Collet - maximum bore ø16



Delivery includes:
actuating pushrod

Available for following machine(s):

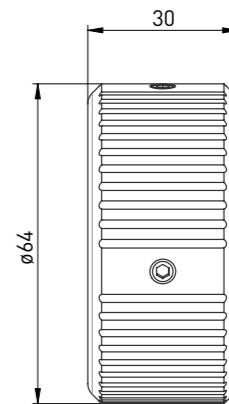


Item No.	Name	D	L
400004017	VIPER M 3409E	69,95	80

Helitronic Mini Power
(excluding Helitronic Mini Automation)
Helitronic Power
Helitronic Vision
Helitronic Essential
Essential Automation

Accessories:

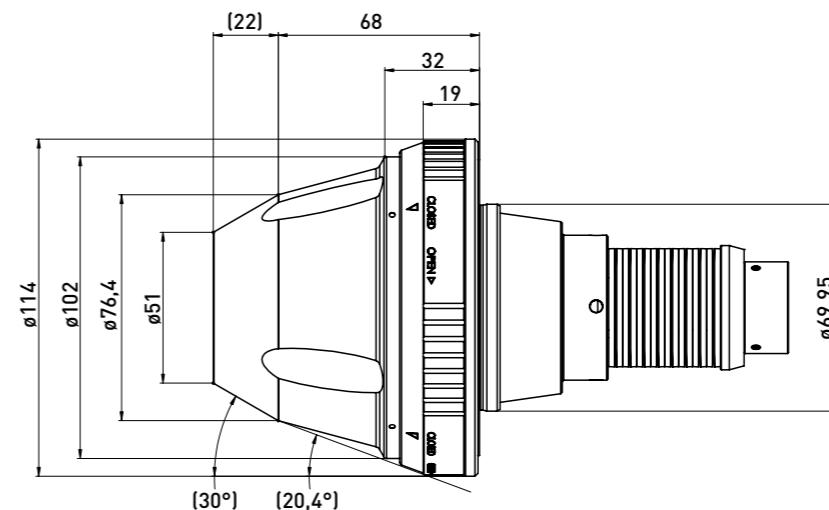
Item No.	Name
350060012	Cofix 20 (for W20 and Nann 3409E) Screw-in tool for clamping sleeves



VIPER L Nann 3718E  Collet - maximum bore ø27



VIPER L Nann 3718E  Collet - maximum bore ø27



Delivery includes:
actuating pushrod

Available for following machine(s):

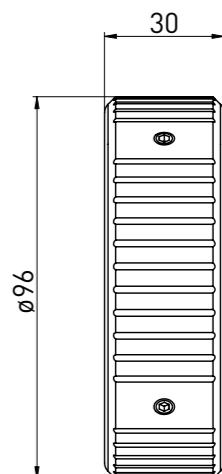


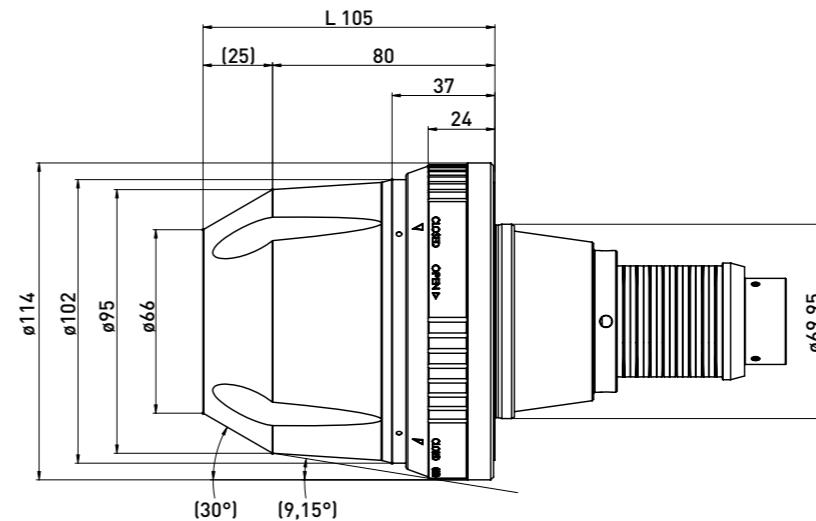
Helitronic Mini Power
(excluding Helitronic Mini Automation)
Helitronic Power
Helitronic Vision
Helitronic Essential

Item No.	Name	D	L
400004012	VIPER L Nann 3718E	69,95	90

Accessories:

Item No.	Name
350060014	Cofix 32 (for Nann 3718E) Screw-in tool for clamping sleeves



VIPER XL Nann 3851E  Collet - maximum bore ø36VIPER XL Nann 3851E  Collet - maximum bore ø36

Delivery includes:
actuating pushrod

Available for following machine(s):

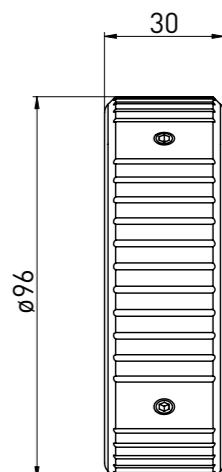


Helitronic Mini Power
(excluding Helitronic Mini Automation)
Helitronic Power
Helitronic Vision
Helitronic Essential

Item No.	Name	D	L
400004013	VIPER XL Nann 3851E	69,95	105

Accessories:

Item No.	Name
350060015	Cofix 45 (for Nann 3851E) Screw-in tool for clamping sleeves



ALLIGATOR - the fully automatic hydraulic expansion precision clamping system in best GDS quality!



The ALLIGATOR series was specially developed by GDS for use in tool grinding machines and is an innovation in the field of hydraulic expansion precision clamping devices for tool grinding machines.

The outstanding damping properties of the ALLIGATOR series, in combination with its precise concentricity and repeatability, enable the production of the best surfaces.

Best geometries, consistent quality, shape and dimensional accuracy on the tool cutting edge are the result with GDS clamping devices from the ALLIGATOR series.

Your **flexible** solution in the clamping range 3-20 mm.



Low interference contours for optimum grinding wheel run-out

Flexible clamping range due to commercially available intermediate sleeves

Excellent concentricity and repeatability

Sustainable through inexpensive repairs and general overhauls

Automatic loading of the workpieces

Automatic bushing change possible



ALLIGATOR Reinecker



ALLIGATOR Saacke
Spindle with flat contact face



ALLIGATOR ANCA



ALLIGATOR Saacke
Spindle with union nut



ALLIGATOR ISOG

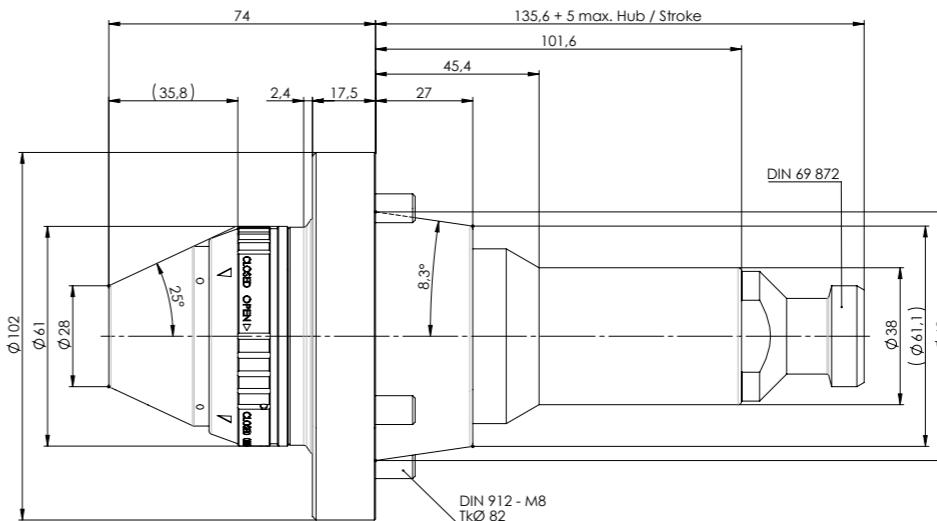


ALLIGATOR Walter

ALLIGATOR **ANCA** for a clamping range from 3 to 20 mm



ALLIGATOR **ANCA** for a clamping range from 3 to 20 mm



Intermediate sleeves with bayonet locking for automatic bushing exchange

Item No. Name

Accessories for ALLIGATOR:

Intermediate sleeves with radial locking

Item No.	Name	d
350111903	Intermediate sleeve RS ø20	3
350111904	Intermediate sleeve RS ø20	4
350111905	Intermediate sleeve RS ø20	5
350111906	Intermediate sleeve RS ø20	6
350111907	Intermediate sleeve RS ø20	7
350111908	Intermediate sleeve RS ø20	8
350111909	Intermediate sleeve RS ø20	9
350111910	Intermediate sleeve RS ø20	10
350111911	Intermediate sleeve RS ø20	11
350111912	Intermediate sleeve RS ø20	12
350111913	Intermediate sleeve RS ø20	13
350111914	Intermediate sleeve RS ø20	14
350111915	Intermediate sleeve RS ø20	15
350111916	Intermediate sleeve RS ø20	16

Item No.	Name	d
350112403	Intermediate sleeve BJ ø20 x 64	3
350112404	Intermediate sleeve BJ ø20 x 64	4
350112405	Intermediate sleeve BJ ø20 x 64	5
350112406	Intermediate sleeve BJ ø20 x 64	6
350112407	Intermediate sleeve BJ ø20 x 64	7
350112408	Intermediate sleeve BJ ø20 x 64	8
350112409	Intermediate sleeve BJ ø20 x 64	9
350112410	Intermediate sleeve BJ ø20 x 64	10
350112411	Intermediate sleeve BJ ø20 x 64	11
350112412	Intermediate sleeve BJ ø20 x 64	12
350112413	Intermediate sleeve BJ ø20 x 64	13
350112414	Intermediate sleeve BJ ø20 x 64	14
350112415	Intermediate sleeve BJ ø20 x 64	15
350112416	Intermediate sleeve BJ ø20 x 64	16
350112416	Intermediate sleeve BJ ø20 x 64	17

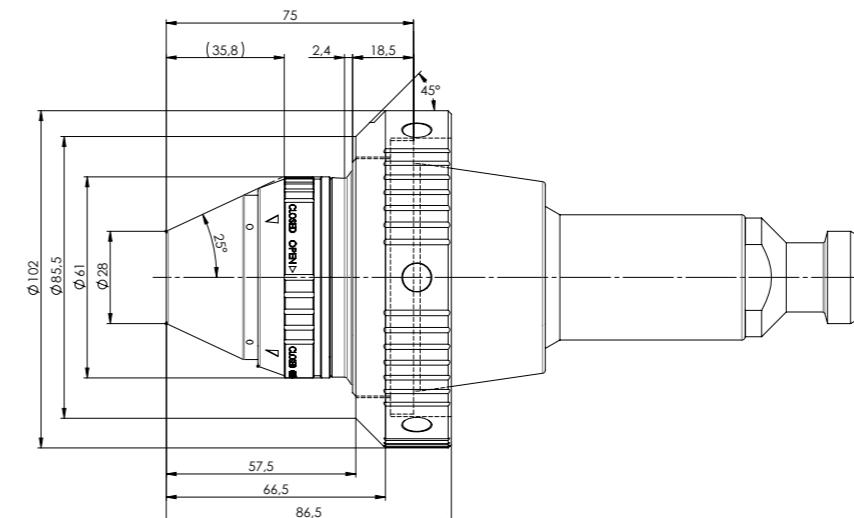
Accessories for intermediate sleeves with bayonet locking:

Best.-Nr.	Bezeichnung	d
250001590	Mounting wrench D20	
250001638	Bayonet insert	

ALLIGATOR **ISOG** for a clamping range from 3 to 20 mm



ALLIGATOR **ISOG** for a clamping range from 3 to 20 mm



Intermediate sleeves with bayonet locking for automatic bushing exchange

Item No.	Name
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400002005 ALLIGATOR ISOG

Accessories for ALLIGATOR:

Intermediate sleeves with radial locking

Item No.	Name	d
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350111903 Intermediate sleeve RS ø20 3

350111904 Intermediate sleeve RS ø20 4

350111905 Intermediate sleeve RS ø20 5

350111906 Intermediate sleeve RS ø20 6

350111907 Intermediate sleeve RS ø20 7

350111908 Intermediate sleeve RS ø20 8

350111909 Intermediate sleeve RS ø20 9

350111910 Intermediate sleeve RS ø20 10

350111911 Intermediate sleeve RS ø20 11

350111912 Intermediate sleeve RS ø20 12

350111913 Intermediate sleeve RS ø20 13

350111914 Intermediate sleeve RS ø20 14

350111915 Intermediate sleeve RS ø20 15

350111916 Intermediate sleeve RS ø20 16

Item No.	Name	d
----------	------	---

350112403 Intermediate sleeve BJ ø20 x 64 3

350112404 Intermediate sleeve BJ ø20 x 64 4

350112405 Intermediate sleeve BJ ø20 x 64 5

350112406 Intermediate sleeve BJ ø20 x 64 6

350112407 Intermediate sleeve BJ ø20 x 64 7

350112408 Intermediate sleeve BJ ø20 x 64 8

350112409 Intermediate sleeve BJ ø20 x 64 9

350112410 Intermediate sleeve BJ ø20 x 64 10

350112411 Intermediate sleeve BJ ø20 x 64 11

350112412 Intermediate sleeve BJ ø20 x 64 12

350112413 Intermediate sleeve BJ ø20 x 64 13

350112414 Intermediate sleeve BJ ø20 x 64 14

350112415 Intermediate sleeve BJ ø20 x 64 15

350112416 Intermediate sleeve BJ ø20 x 64 16

350112416 Intermediate sleeve BJ ø20 x 64 17

Accessories for intermediate sleeves with bayonet locking:

Best.-Nr.	Bezeichnung	d
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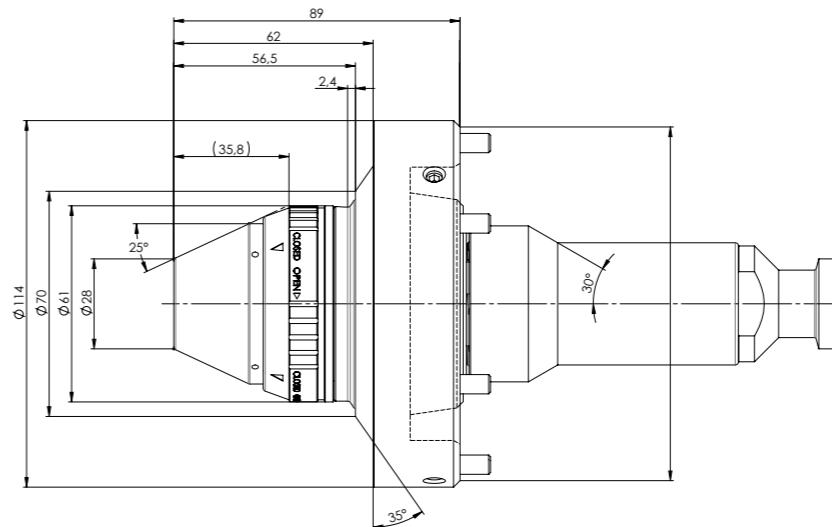
250001590 Mounting wrench D20

250001638 Bayonet insert

ALLIGATOR Reinecker for a clamping range from 3 to 20 mm



ALLIGATOR Reinecker for a clamping range from 3 to 20 mm



Intermediate sleeves with bayonet locking for automatic bushing exchange

Item No. Name

Accessories for ALLIGATOR:

Intermediate sleeves with radial locking

Item No.	Name	d
350111903	Intermediate sleeve RS ø20	3
350111904	Intermediate sleeve RS ø20	4
350111905	Intermediate sleeve RS ø20	5
350111906	Intermediate sleeve RS ø20	6
350111907	Intermediate sleeve RS ø20	7
350111908	Intermediate sleeve RS ø20	8
350111909	Intermediate sleeve RS ø20	9
350111910	Intermediate sleeve RS ø20	10
350111911	Intermediate sleeve RS ø20	11
350111912	Intermediate sleeve RS ø20	12
350111913	Intermediate sleeve RS ø20	13
350111914	Intermediate sleeve RS ø20	14
350111915	Intermediate sleeve RS ø20	15
350111916	Intermediate sleeve RS ø20	16

Item No.	Name	d
350112403	Intermediate sleeve BJ ø20 x 64	3
350112404	Intermediate sleeve BJ ø20 x 64	4
350112405	Intermediate sleeve BJ ø20 x 64	5
350112406	Intermediate sleeve BJ ø20 x 64	6
350112407	Intermediate sleeve BJ ø20 x 64	7
350112408	Intermediate sleeve BJ ø20 x 64	8
350112409	Intermediate sleeve BJ ø20 x 64	9
350112410	Intermediate sleeve BJ ø20 x 64	10
350112411	Intermediate sleeve BJ ø20 x 64	11
350112412	Intermediate sleeve BJ ø20 x 64	12
350112413	Intermediate sleeve BJ ø20 x 64	13
350112414	Intermediate sleeve BJ ø20 x 64	14
350112415	Intermediate sleeve BJ ø20 x 64	15
350112416	Intermediate sleeve BJ ø20 x 64	16
350112416	Intermediate sleeve BJ ø20 x 64	17

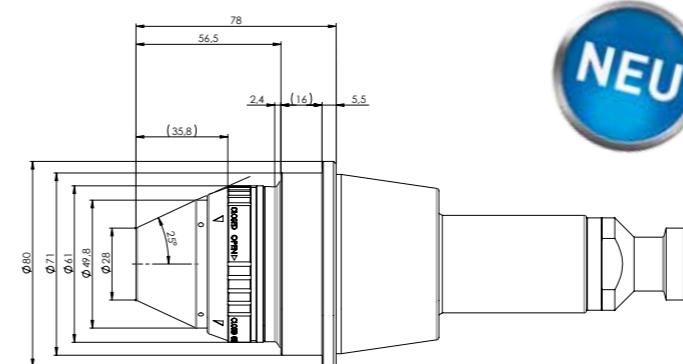
Accessories for intermediate sleeves with bayonet locking:

Best.-Nr.	Bezeichnung	d
250001590	Mounting wrench D20	
250001638	Bayonet insert	

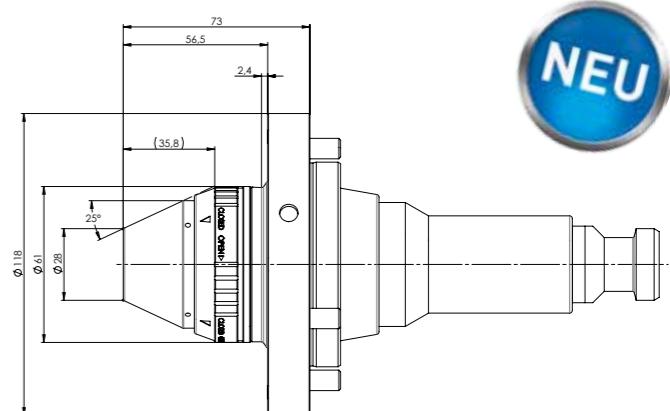
ALLIGATOR **Saake** for a clamping range from 3 to 20 mm



ALLIGATOR **Saacke**



ALLIGATOR Saacke



Intermediate sleeves with bayonet locking for automatic bushing exchange

Item No.	Name	D	L
400002003	ALLIGATOR Saacke Spindle with union nut		
400002004	ALLIGATOR Saacke Spindle with flat contact face		

Accessories for ALLIGATOR:

Intermediate sleeves with radial locking

Item No.	Name	d
350111903	Intermediate sleeve RS ø20	3
350111904	Intermediate sleeve RS ø20	4
350111905	Intermediate sleeve RS ø20	5
350111906	Intermediate sleeve RS ø20	6
350111907	Intermediate sleeve RS ø20	7
350111908	Intermediate sleeve RS ø20	8
350111909	Intermediate sleeve RS ø20	9
350111910	Intermediate sleeve RS ø20	10
350111911	Intermediate sleeve RS ø20	11
350111912	Intermediate sleeve RS ø20	12
350111913	Intermediate sleeve RS ø20	13
350111914	Intermediate sleeve RS ø20	14
350111915	Intermediate sleeve RS ø20	15
350111916	Intermediate sleeve RS ø20	16

Item No.	Name	d
350112403	Intermediate sleeve BJ ø20 x 64	3
350112404	Intermediate sleeve BJ ø20 x 64	4
350112405	Intermediate sleeve BJ ø20 x 64	5
350112406	Intermediate sleeve BJ ø20 x 64	6
350112407	Intermediate sleeve BJ ø20 x 64	7
350112408	Intermediate sleeve BJ ø20 x 64	8
350112409	Intermediate sleeve BJ ø20 x 64	9
350112410	Intermediate sleeve BJ ø20 x 64	10
350112411	Intermediate sleeve BJ ø20 x 64	11
350112412	Intermediate sleeve BJ ø20 x 64	12
350112413	Intermediate sleeve BJ ø20 x 64	13
350112414	Intermediate sleeve BJ ø20 x 64	14
350112415	Intermediate sleeve BJ ø20 x 64	15
350112416	Intermediate sleeve BJ ø20 x 64	16
350112416	Intermediate sleeve BJ ø20 x 64	17

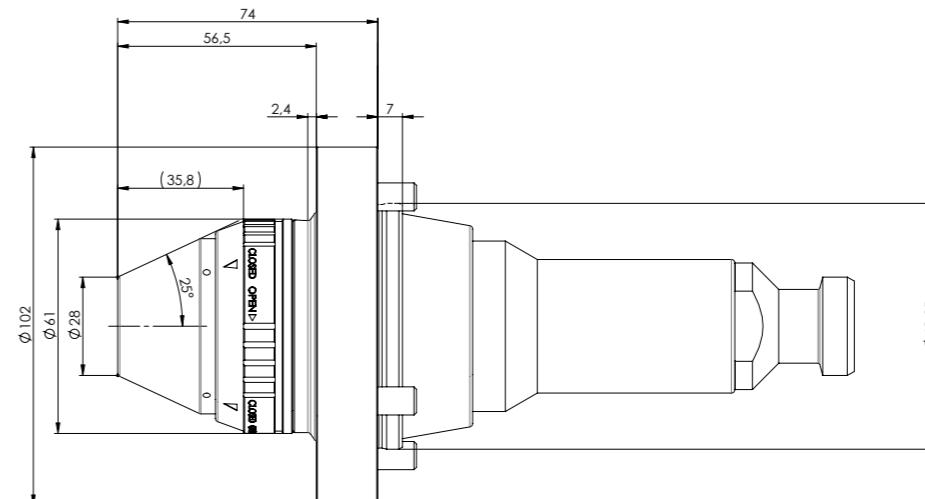
Accessories for intermediate sleeves with bayonet locking:

Best.-Nr.	Bezeichnung	d
250001590	Mounting wrench D20	
250001638	Bayonet insert	

ALLIGATOR **Walter** for a clamping range from 3 to 20 mm



ALLIGATOR **Walter** for a clamping range from 3 to 20 mm



Intermediate sleeves with bayonet locking for automatic bushing exchange

Item No. Name

Accessories for ALLIGATOR:

Intermediate sleeves with radial locking

Item No.	Name	d
350111903	Intermediate sleeve RS ø20	3
350111904	Intermediate sleeve RS ø20	4
350111905	Intermediate sleeve RS ø20	5
350111906	Intermediate sleeve RS ø20	6
350111907	Intermediate sleeve RS ø20	7
350111908	Intermediate sleeve RS ø20	8
350111909	Intermediate sleeve RS ø20	9
350111910	Intermediate sleeve RS ø20	10
350111911	Intermediate sleeve RS ø20	11
350111912	Intermediate sleeve RS ø20	12
350111913	Intermediate sleeve RS ø20	13
350111914	Intermediate sleeve RS ø20	14
350111915	Intermediate sleeve RS ø20	15
350111916	Intermediate sleeve RS ø20	16

Item No.	Name	d
350112403	Intermediate sleeve BJ ø20 x 64	3
350112404	Intermediate sleeve BJ ø20 x 64	4
350112405	Intermediate sleeve BJ ø20 x 64	5
350112406	Intermediate sleeve BJ ø20 x 64	6
350112407	Intermediate sleeve BJ ø20 x 64	7
350112408	Intermediate sleeve BJ ø20 x 64	8
350112409	Intermediate sleeve BJ ø20 x 64	9
350112410	Intermediate sleeve BJ ø20 x 64	10
350112411	Intermediate sleeve BJ ø20 x 64	11
350112412	Intermediate sleeve BJ ø20 x 64	12
350112413	Intermediate sleeve BJ ø20 x 64	13
350112414	Intermediate sleeve BJ ø20 x 64	14
350112415	Intermediate sleeve BJ ø20 x 64	15
350112416	Intermediate sleeve BJ ø20 x 64	16
350112416	Intermediate sleeve BJ ø20 x 64	17

Accessories for intermediate sleeves with bayonet locking:

Best.-Nr.	Bezeichnung	d
250001590	Mounting wrench D20	
250001638	Bayonet insert	

COBRA: The two-part clamping system in high-precision GDS quality!



Modern grinding processes become more and more complex, forcing you to achieve extreme precision and perfect quality while minimizing setup and tool-changing times, due to pricing pressure.

COBRA, the two-part clamping system, has been especially developed for high-performance grinding centers.

Excellent repeatability when changing blanks or collets is a key factor for optimal grinding results. Collets can be changed quickly and in just a few simple steps. You can also adjust radial concentricity in just a few minutes.

COBRA - the economical clamping system from GDS.

GDS - precision is our passion

An excellent solution at an affordable price.



Tapered profile for optimal wheel clearance.

Good concentricity and repeatability.

Adjustable radial concentricity.

Handles a range of diameters using widely available Nann and Schaublin collets.

Very durable.

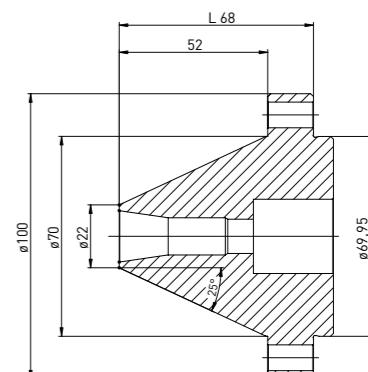
For **NANN** collets. Can be used for Walter machines.



Item No. Name

400007010 Collet chuck SK50 3148E L68

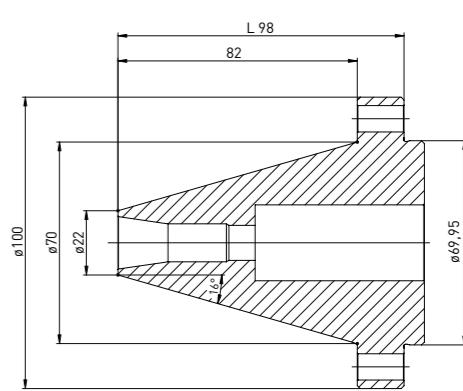
350300010 Pull rod for Collet chuck



Item No. Name

400007020 Collet chuck SK50 3148E L98

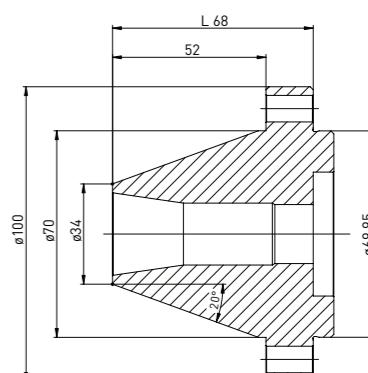
350300020 Pull rod for Collet chuck



Item No. Name

400007030 Collet chuck SK50 3409E L68

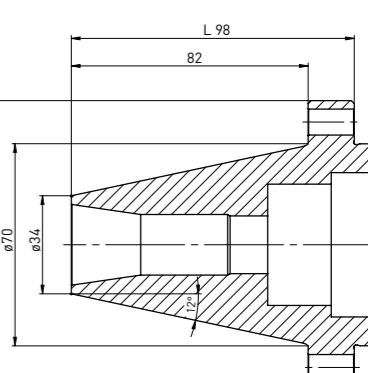
350300030 Pull rod for Collet chuck



Item No. Name

400007040 Collet chuck SK50 3409E L98

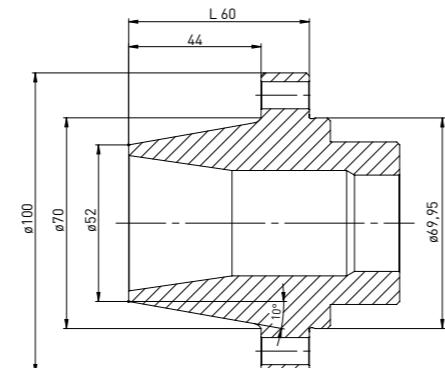
350300040 Pull rod for Collet chuck



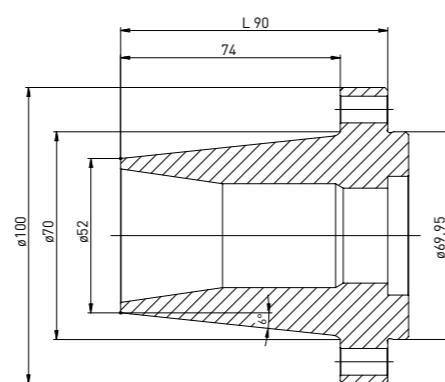
For **NANN**  **collets**. Can be used for Walter machines.



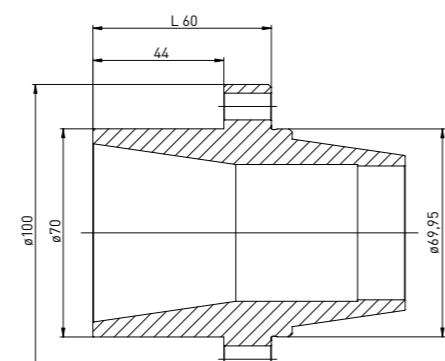
Item No.	Name
400007050	Collet chuck SK50 3718E L60
350300050	Pull rod for Collet chuck



Item No.	Name
400007060	Collet chuck SK50 3718E L90
350300060	Pull rod for Collet chuck



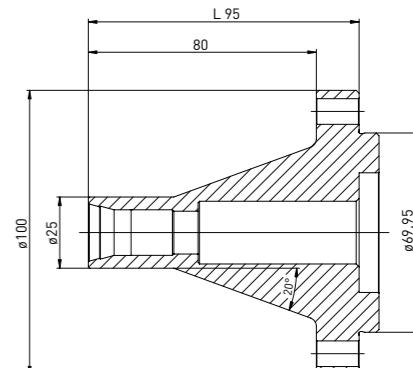
Item No.	Name
400007070	Collet chuck SK50 3851E L60
350300070	Pull rod for Collet chuck



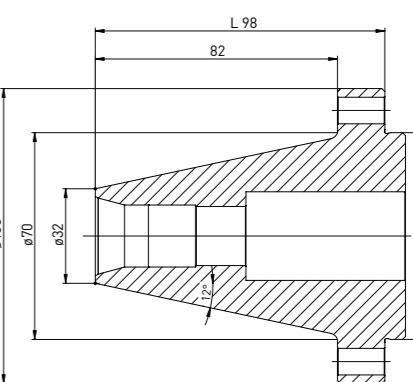
For Schaublin **collets**. Can be used for Walter machines.



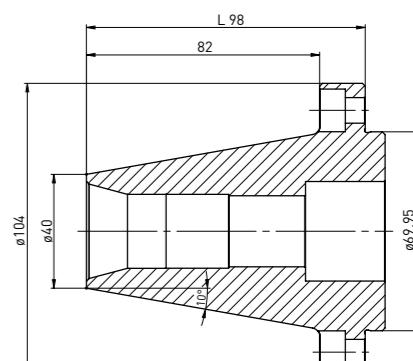
Item No.	Name
400007110	Collet chuck SK50 W15 L95
350300110	Pull rod for Collet chuck



Item No.	Name
400007120	Collet chuck SK50 W20 L98
350300120	Pull rod for Collet chuck



Item No.	Name
400007130	Collet chuck SK50 W25 L98
350300130	Pull rod for Collet chuck



The xGrind HPS 20 manual chuck is the **high-precision chuck** of our xGrind series.



GDS developed the innovative xGrind series for precision clamping on tool grinding machines.

Due to the excellent dampening properties of our xGrind HPS 20, vibrations during the grind are attenuated.

Workpiece surface quality is absolutely consistent and ensures that you can meet tight manufacturing tolerances. Abrasion and wear of your grinding wheel is reduced.

The xGrind HPS also provides consistent clamping force and accurate concentricity even with a relatively short clamping length of $2.5 \times D$.

The xGrind HPS 20 creates perfect conditions for a predictable and stable grinding operation.

GDS -precision is our passion



High concentricity and repeatability.

Very economical due to excellent durability.

Slim profile for optimal wheel clearance.

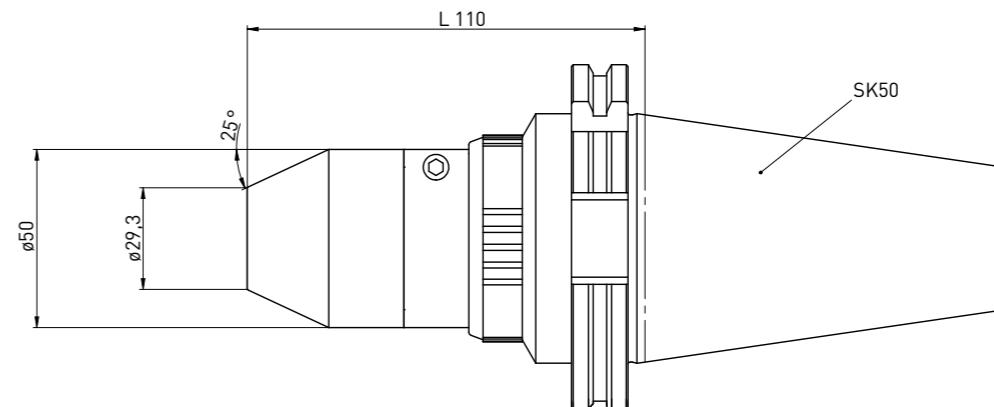
Wide clamping range for outstanding versatility.

Easy handling saves time – 45% less than conventional clamping techniques.

Our collet wrench ensures safe operation.

Very low long-term operating cost due to excellent durability and affordable overhaul and repair options.

xGrind HPS 20 SK50



Delivery includes:

wrench

Item No.	Name	d	L
400005000	xGrind HPS SK50 29,3	110	
400005100	xGrind HPS SK50 29,3 complete set (incl. collets ø3-20mm)	110	

HPS collets see on the following pages.

Accessories:

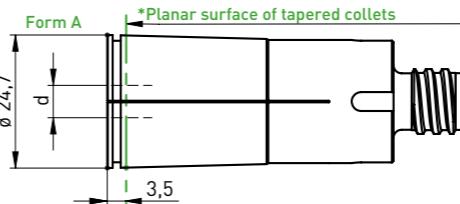
Item No.	Name
350270002	Alignment set HPS (excl. dial gauges) Incl. HPS collets ø8 and ø10, test pin ø8 and ø10, dial gauges available separately
350270003	Dial gauges (2 pcs.)

Item No.	Name
350270004	Torque screwdriver xGrind HPS



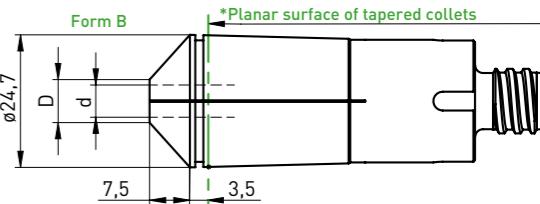
HPS collets for xGrind and μ Grind booster HPS 20 // HPS 20 L

Accessories flat collets:

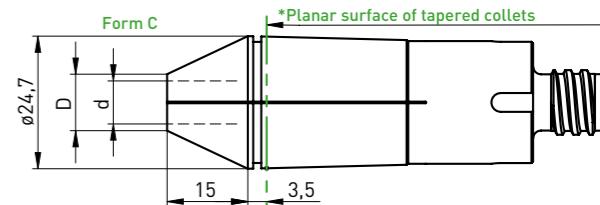


Item No.	Name - \varnothing d	Form
350260003	HPS collet 20 - \varnothing 3 mm	A
350260004	HPS collet 20 - \varnothing 4 mm	A
350260005	HPS collet 20 - \varnothing 5 mm	A
350260006	HPS collet 20 - \varnothing 6 mm	A
350260007	HPS collet 20 - \varnothing 7 mm	A
350260008	HPS collet 20 - \varnothing 8 mm	A
350260009	HPS collet 20 - \varnothing 9 mm	A
350260010	HPS collet 20 - \varnothing 10 mm	A
350260011	HPS collet 20 - \varnothing 11 mm	A
350260012	HPS collet 20 - \varnothing 12 mm	A
350260013	HPS collet 20 - \varnothing 13 mm	A
350260014	HPS collet 20 - \varnothing 14 mm	A
350260015	HPS collet 20 - \varnothing 15 mm	A
350260016	HPS collet 20 - \varnothing 16 mm	A
350260017	HPS collet 20 - \varnothing 17 mm	A
350260018	HPS collet 20 - \varnothing 18 mm	A
350260019	HPS collet 20 - \varnothing 19 mm	A
350260020	HPS collet 20 - \varnothing 20 mm	A
350260201	HPS collet 20 - \varnothing 1/8"	A
350260202	HPS collet 20 - \varnothing 3/16"	A
350260203	HPS collet 20 - \varnothing 1/4"	A
350260204	HPS collet 20 - \varnothing 5/16"	A
350260205	HPS collet 20 - \varnothing 3/8"	A
350260206	HPS collet 20 - \varnothing 7/16"	A
350260207	HPS collet 20 - \varnothing 1/2"	A
350260208	HPS collet 20 - \varnothing 9/16"	A
350260209	HPS collet 20 - \varnothing 5/8"	A
350260210	HPS collet 20 - \varnothing 11/16"	A
350260211	HPS collet 20 - \varnothing 3/4"	A

Accessories tapered collets:



Item No.	Name - \varnothing d	Form
350260130	HPS collet 20K - \varnothing 2,35 mm	B
350260103	HPS collet 20K - \varnothing 3 mm	B
350260104	HPS collet 20K - \varnothing 4 mm	B
350260105	HPS collet 20K - \varnothing 5 mm	B
350260106	HPS collet 20K - \varnothing 6 mm	B
350260301	HPS collet 20K - \varnothing 1/8"	B
350260302	HPS collet 20K - \varnothing 3/16"	B
350260303	HPS collet 20K - \varnothing 1/4"	B



Item No.	Name - \varnothing d	Form
350260107	HPS collet 20K - \varnothing 7 mm	C
350260108	HPS collet 20K - \varnothing 8 mm	C
350260109	HPS collet 20K - \varnothing 9 mm	C
350260110	HPS collet 20K - \varnothing 10 mm	C
350260111	HPS collet 20K - \varnothing 11 mm	C
350260112	HPS collet 20K - \varnothing 12 mm	C
350260304	HPS collet 20K - \varnothing 5/16"	C
350260305	HPS collet 20K - \varnothing 3/8"	C
350260306	HPS collet 20K - \varnothing 7/16"	C
350260307	HPS collet 20K - \varnothing 1/2"	C



Minimum clamping depth of 2,5 x \varnothing from *clamping chuck's plane surface.

The xGrind Hydro is our **hydraulic chuck with SK taper**.



The xGrind series was developed by GDS especially for use in all high-performance grinding centers with the SK50 interface.

GDS' xGrind Hydro is a new manual hydraulic chuck available in three diameter variations (12, 20 & 32 mm). Our goal was to develop a chuck that yields the highest speed, accuracy, and flexibility.

Outstanding repeatability combined with excellent damping properties of hydraulic clamping technology offers you best surfaces for optimum concentricity.

With the SK50 interface, the xGrind is nearly universally applicable.

GDS - precision is our passion



NEW: SafeGrip

Easy and safe removal of the chuck from your machine. SafeGrip prevents injuries and slipping off in daily handling.

Slim profile for optimal grinding wheel clearance

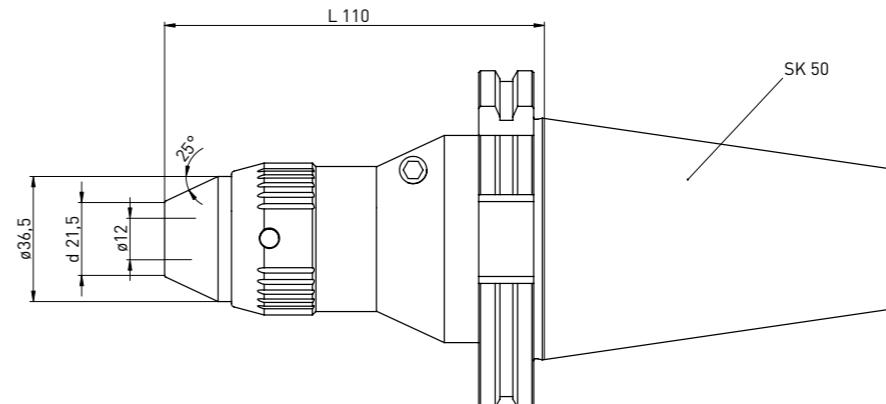
Excellent concentricity and repeatability.

Wide clamping range by the use of GDS intermediate sleeves.

Reduced risk of injury by optimized angle of tensioning screw.

Economical repair and overhaul options.

xGrind Hydro SK50 ø12



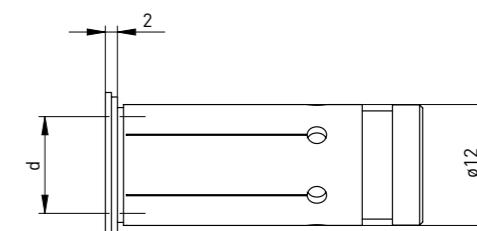
Delivery includes:

wrench

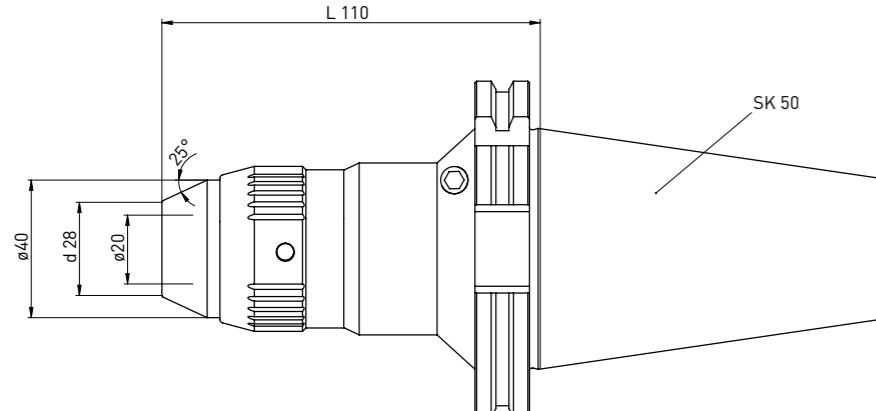
Item No.	Name	d	L
400005001	xGrind Hydro SK50 ø12	21,5	110

Accessories:

Item No.	Name	d
350110601	GDS intermediate sleeve ø12	3
350110602	GDS intermediate sleeve ø12	4
350110603	GDS intermediate sleeve ø12	5
350110604	GDS intermediate sleeve ø12	6
350110605	GDS intermediate sleeve ø12	8



xGrind Hydro SK50 ø20



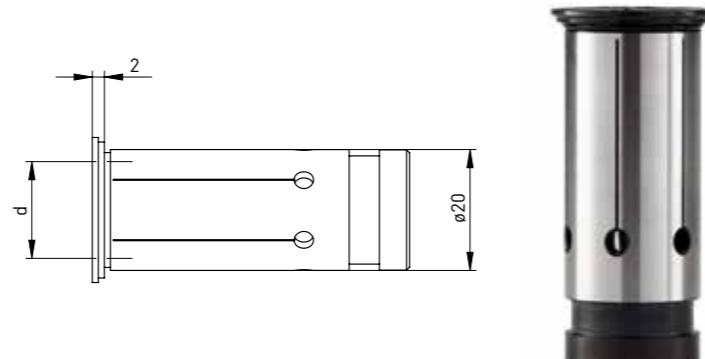
Delivery includes:

wrench

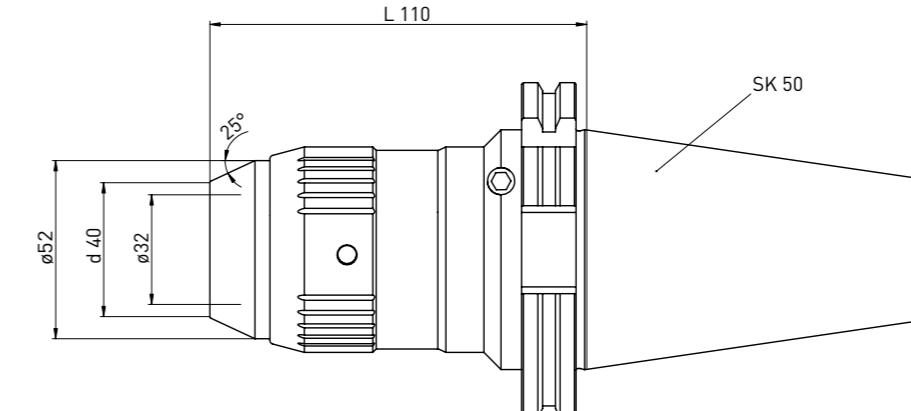
Item No.	Name	d	L
400005002	xGrind Hydro SK50 ø20	28	110

Accessories:

Item No.	Name	d
350110606	GDS intermediate sleeve ø20	3
350110607	GDS intermediate sleeve ø20	4
350110608	GDS intermediate sleeve ø20	5
350110609	GDS intermediate sleeve ø20	6
350110610	GDS intermediate sleeve ø20	7
350110611	GDS intermediate sleeve ø20	8
350110612	GDS intermediate sleeve ø20	9
350110613	GDS intermediate sleeve ø20	10
350110614	GDS intermediate sleeve ø20	11
350110615	GDS intermediate sleeve ø20	12
350110616	GDS intermediate sleeve ø20	13
350110617	GDS intermediate sleeve ø20	14
350110618	GDS intermediate sleeve ø20	15
350110619	GDS intermediate sleeve ø20	16



xGrind Hydro SK50 ø32



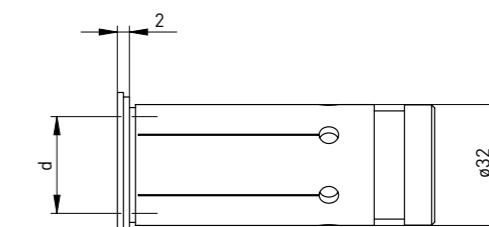
Delivery includes:

wrench

Item No.	Name	d	L
400005003	xGrind Hydro SK50 ø32	40	110

Accessories:

Item No.	Name	d
350110707	GDS intermediate sleeve ø32	6
350110708	GDS intermediate sleeve ø32	8
350110709	GDS intermediate sleeve ø32	10
350110710	GDS intermediate sleeve ø32	12
350110711	GDS intermediate sleeve ø32	14
350110712	GDS intermediate sleeve ø32	16
350110713	GDS intermediate sleeve ø32	18
350110714	GDS intermediate sleeve ø32	20
350110715	GDS intermediate sleeve ø32	25



Clamp stick is our product line for **clamping tools with an internal bore**.



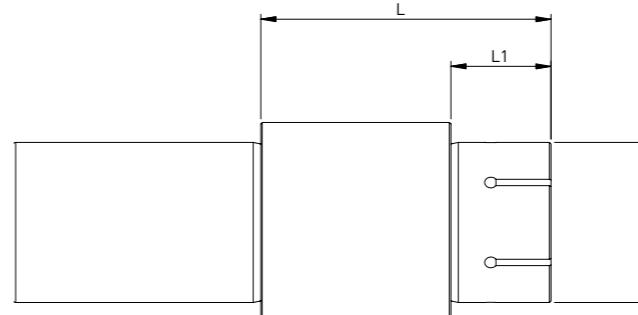
GDS clamp sticks are expanding mandrels with extremely tight concentricity and runout tolerances. These properties allow you to manufacture and resharpen tools with high precision.

Its fast and easy handling offers you enormous flexibility.

Best geometries, highest manufacturing precision, and consistent quality are the prominent features of the GDS clamp stick series.

GDS - precision is our passion

Clamp Stick **expanding mandrel with cylindrical shank**



Shank tolerance: $\leq H7$
Concentricity: $\leq 5\mu$
Maximum expansion: 0,1

L: Overall length beyond the flange face // L1: Clamping length // D: Clamping diameter

Item No.	Name	L1	D
303001013	Mandrel $\varnothing 20 \times L53 \times \varnothing 13$	15	13
303001016	Mandrel $\varnothing 20 \times L53 \times \varnothing 16$	15	16
303001022	Mandrel $\varnothing 20 \times L56 \times \varnothing 22$	18	22
303001027	Mandrel $\varnothing 20 \times L58 \times \varnothing 27$	20	27
303001032	Mandrel $\varnothing 20 \times L62 \times \varnothing 32$	24	32
303001040	Mandrel $\varnothing 20 \times L64 \times \varnothing 40$	26	40

Item No.	Name	L1	D
303002013	Mandrel $\varnothing 32 \times L53 \times \varnothing 13$	15	13
303002016	Mandrel $\varnothing 32 \times L53 \times \varnothing 16$	15	16
303002022	Mandrel $\varnothing 32 \times L56 \times \varnothing 22$	18	22
303002027	Mandrel $\varnothing 32 \times L58 \times \varnothing 27$	20	27
303002032	Mandrel $\varnothing 32 \times L62 \times \varnothing 32$	24	32
303002040	Mandrel $\varnothing 32 \times L64 \times \varnothing 40$	26	40



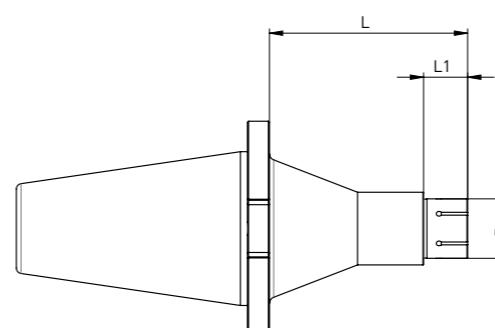
Slim profile for optimal grinding wheel clearance and selection flexibility.

Excellent concentricity and runout properties.

Various clamping diameters available.

Available with cylindrical shank, or with SK50 interface.

Clamp Stick **expanding mandrel with SK50 taper**



Shank tolerance: $\leq H7$
Concentricity: $\leq 5\mu$
Maximum expansion: 0,1

L: Overall length beyond the flange face // L1: Clamping length // D: Clamping diameter

Item No.	Name	L2	D
303003016	Mandrel SK50 x L98 x $\varnothing 16$	15	16
303003022	Mandrel SK50 x L101 x $\varnothing 22$	18	22
303003027	Mandrel SK50 x L103 x $\varnothing 27$	20	27
303003032	Mandrel SK50 x L105 x $\varnothing 32$	24	32
303003040	Mandrel SK50 x L107 x $\varnothing 40$	26	40

FIRETIGER - interchangeable, universal robot pallets
for Fanuc robot loaders and top loaders



The **FIRETIGER tool pallets** from GDS have been developed for standard tool automation with the FANUC robot loader. They allow the use of a fully automated and highly productive robot loader, which ensures a smooth automated and flexible production flow. Various 3-layer FIRETIGER tool pallets are available for workpiece diameters from 3 to 25 mm. If you need an individual solution, we will be happy to produce a 1-layer FIRETIGER individual tool pallet on request, tailored to your process.

FIRETIGER tool pallets 3-ply

Order No.	Name
350310011	FIRETIGER tool pallet, D = Ø 3 for tool diameter 3 mm, 3-ply
350310012	FIRETIGER tool pallet, D = Ø 4 for tool diameter 4 mm, 3-ply
350310013	FIRETIGER tool pallet, D = Ø 5 for tool diameter 5 mm, 3-ply
350310014	FIRETIGER tool pallet, D = Ø 6 for tool diameter 6 mm, 3-ply
350310015	FIRETIGER tool pallet, D = Ø 8 for tool diameter 8 mm, 3-ply
350310016	FIRETIGER tool pallet, D = Ø 10 for tool diameter 10 mm, 3-ply
350310017	FIRETIGER tool pallet, D = Ø 12 for tool diameter 12 mm, 3-ply
350310018	FIRETIGER tool pallet, D = Ø 16 for tool diameter 16 mm, 3-ply
350310019	FIRETIGER tool pallet, D = Ø 20 for tool diameter 20 mm, 3-ply
350310020	FIRETIGER tool pallet, D = Ø 25 for tool diameter 25 mm, 3-ply



Accessories for FIRETIGER tool pallets

Order No.	Name
350311001	Gripper finger, D = Ø 1-3 for tool diameter 1-3 mm 2 pieces necessary!
350311002	Gripper finger, D = Ø 3-7 for tool diameter 3-7 mm 2 pieces necessary!
350311003	Gripper finger, D = Ø 7-10 for tool diameter 7-10 mm 2 pieces necessary!
350311004	Gripper finger, D = Ø 10-13 for tool diameter 10-13 mm 2 pieces necessary!
350311005	Gripper finger, D = Ø 13-16 for tool diameter 13-16 mm 2 pieces necessary!
350311006	Gripper finger, D = Ø 16-19 for tool diameter 16-19 mm 2 pieces necessary!
350311007	Gripper finger, D = Ø 19-22 for tool diameter 19-22 mm 2 pieces necessary!
350311008	Gripper finger, D = Ø 22-25 for tool diameter 22-25 mm 2 pieces necessary!
350311009	Gripper finger, D = Ø 28-31 for tool diameter 28-31 mm 2 pieces necessary!
350311010	Gripper finger, D = Ø 31-33 for tool diameter 31-33 mm 2 pieces necessary!
350311011	Gripper finger, for production loader cylindrical for all tool diameters 2 pieces necessary!
350311012	Gripper finger fixed



FIRETIGER individual tool pallets 1-ply
- the individual solution for you



*Individually configurable

Order No.	Name
350310001	FIRETIGER tool pallet, D = Ø 3 for tool diameter 3 mm, 1-ply
350310002	FIRETIGER tool pallet, D = Ø 4 for tool diameter 4 mm, 1-ply
350310003	FIRETIGER tool pallet, D = Ø 5 for tool diameter 5 mm, 1-ply
350310004	FIRETIGER tool pallet, D = Ø 6 for tool diameter 6 mm, 1-ply
350310005	FIRETIGER tool pallet, D = Ø 8 for tool diameter 8 mm, 1-ply
350310006	FIRETIGER tool pallet, D = Ø 10 for tool diameter 10 mm, 1-ply
350310007	FIRETIGER tool pallet, D = Ø 12 for tool diameter 12 mm, 1-ply
350310008	FIRETIGER tool pallet, D = Ø 16 for tool diameter 16 mm, 1-ply
350310009	FIRETIGER tool pallet, D = Ø 20 for tool diameter 20 mm, 1-ply
350310010	FIRETIGER tool pallet, D = Ø 25 for tool diameter 25 mm, 1-ply

Eliminate last obstacles in high precision production – work efficient and cost effective by using **balanced grinding wheel adapters**.



GDS' balancing system Equi'Z enables you to ensure consistent tool machining quality while preventing grinding wheel wear and machine repairs.

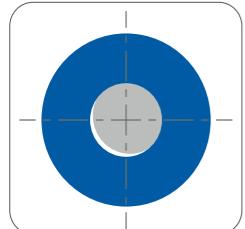
Protect your spindles and increase grinding wheel's service life with our perfectly harmonized balancing system. With a precise balanced grinding wheel, you work cost effective and preventive. You increase your units per wheel, improve your surface quality and avoid chatter marks. GDS' Equi'Z improves your grinding machine's mechanical stability and reduces stress at the spindle-bearing.

Our balancing system is available in different versions and perfectly adjusted to each application.

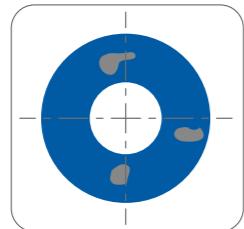
GDS - precision is our passion

Imbalance factors:

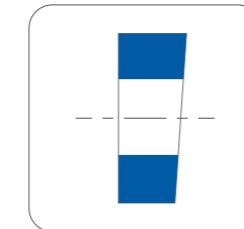
Tolerance of grinding wheel bore



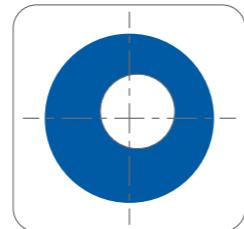
Homogeneity of grinding wheel



Parallelism of the grinding wheel



Concentricity of the grinding wheel



Consequences of imbalance:

Reduced dimensional accuracy of workpiece (dressing costs increase).

Reduced dimensional accuracy of workpiece (dressing costs increase).

High grinding wheel wear (short service life).

Headstock wear (unnecessary repairs and machine downtime).



Excellent balancing quality:

The Equi'Z balancing machines easily detect an imbalance of less than 0.1 g on all parts, whether their weight is 50 g or 8 kg.

Due to its light weight, the soft-bearing balancing machine is easy to move without special equipment.

Stand-alone device. No additional computer required.

Requires no PC or programming knowledge to operate.

Balances every tool or wheel set.

Prevent headstock and spindle-bearing repairs using the Equi'Z balancing system.

Wheel balancing increases wheel life and produces better surface finish and cutting edge on the tools you grind.

Equi'Z balancing accessories for tool grinding machines

Order No.	Name
400006001	Equi'Z Competition to HSK63 or SK40 for Tablet // Notebook // PC
400006004	Equi'Z Competition Stand Alone 1 plane, to HSK63 / SK40 / PSC 5, BMT200-1.0P40
400006005	Equi'Z Competition Stand Alone 1+2 plane, to HSK63 / SK40 / PSC 5, BMT200-2.0P40

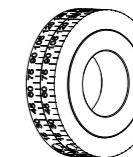
Order No.	Name
400006003	Equi'Z Ultimate to HSK100 or SK50 for Tablet // Notebook // PC
400006006	Equi'Z Ultimate Stand Alone 1 plane, to HSK125 / SK50 / PSC 8, BMT200-1.0P100
400006007	Equi'Z Ultimate Stand Alone 1+2 plane, to HSK125 / SK50 / PSC 8, BMT200-2.0P100

For balancing machine:

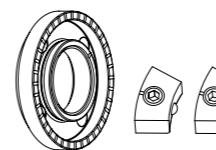


Order No.	Name
350080120	Balancing ring without scale 3-part 80gmm ø60 x ø20 x 12
350080130	Balancing ring without scale 3-part 80gmm ø45 x ø20 x 12

Order No.	Name
350080100	Balancing ring with scale 3-part 80gmm ø60 x ø20 x 12
350080110	Balancing ring with scale 3-part 80gmm ø45 x ø20 x 12

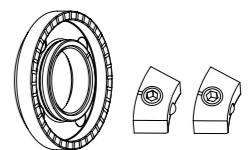


For grinding wheel adapters:



Order No.	Name
350020080	Clamping nut with balancing option ø35 x ø40 x 8 x M20x1 (without weights)
350020081	Balancing weight pair for clamping nut ø35 40gmm
350040040	Clamping nut wrench PC29 for ø20

Order No.	Name
350020020	Clamping nut with balancing option ø50 x 8,5 M20x1,0 (without weights)
350020021	Balancing weight pair for clamping nut ø50 100gmm
350040010	Clamping nut wrench PC 27 for ø20



Order No.	Name
350020026	Clamping nut with balancing option ø47 x 12 M31,5x1,5 (without weights)
350020027	Balancing weight pair for clamping nut ø47 70gmm
350040030	Clamping nut wrench PC39 for ø47

Order No.	Name
350020022	Clamping nut with balancing option ø60 x 9 M32x1,5 (without weights)
350020023	Balancing weight pair for clamping nut ø60 200gmm
350040030	Clamping nut wrench PC39 for ø47

Balancing machines for highest balancing accuracy < 0.5 gmm

Operating options: Tablet, Notebook, PC (Windows 10)
or with integrated display (Stand Alone)

Accessories Competition and Competition Stand Alone:

Item No.	Name
350080221	Equi'Z Adapter Perfect Arbor Standard // Competition
350080250	Equi'Z Adapter HSK63-A Standard // Competition
350080252	Equi'Z Adapter HSK63-F Standard // Competition
350080260	Equi'Z Adapter HSK50-A Standard // Competition
350080262	Equi'Z Adapter HSK50-F Standard // Competition
350080270	Equi'Z Adapter HSK40-A Standard // Competition
350080272	Equi'Z Adapter HSK40-F Standard // Competition
350080280	Equi'Z Adapter HSK32-F Standard // Competition
350080285	Equi'Z Adapter HSK25-A Standard // Competition
350080286	Equi'Z Adapter HSK32-A Standard // Competition
350080290	Equi'Z Adapter SK30-A Standard // Competition
350080300	Equi'Z Adapter SK40-A Standard // Competition
350080399	Equi'Z Adapter BT30/ANSI Standard // Competition
350080400	Equi'Z Adapter BT30/PT45 Standard // Competition
350080401	Equi'Z Adapter BT30/PT60 Standard // Competition
350080402	Equi'Z Adapter BT40/PT15 Standard // Competition
350080403	Equi'Z Adapter BT40/PT30 Standard // Competition
350080404	Equi'Z Adapter BT40/PT45 Standard // Competition
350080405	Equi'Z Adapter BT40/PT60 Standard // Competition
350080406	Equi'Z Adapter BT40/PT75 Standard // Competition
350080407	Equi'Z Adapter BT40/PT90 Standard // Competition

Accessories Ultimate and Ultimate Stand Alone:

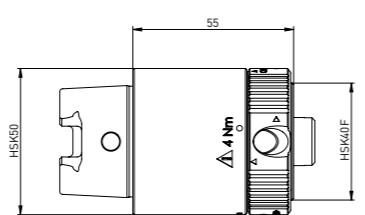
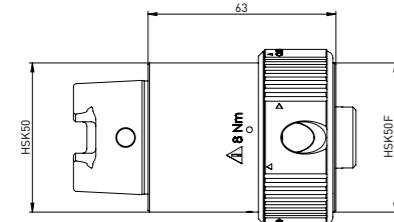
Item No.	Name
350080222	Equi'Z Adapter Perfect Arbor Power // Ultimate
350080251	Equi'Z Adapter HSK63-A Power // Ultimate
350080255	Equi'Z Adapter HSK80-A Power // Ultimate
350080256	Equi'Z Adapter HSK100-A Power // Ultimate
350080263	Equi'Z Adapter HSK50-A Power // Ultimate
350080271	Equi'Z Adapter HSK40-A Power // Ultimate
350080287	Equi'Z Adapter HSK32-A Power // Ultimate
350080310	Equi'Z Adapter SK50-A Power // Ultimate
350080311	Equi'Z Adapter SK40-A Power // Ultimate
350080312	Equi'Z Adapter SK30-A Power // Ultimate
350080410	Equi'Z Adapter BT30/PT30 Power // Ultimate
350080411	Equi'Z Adapter BT30/PT45 Power // Ultimate
350080413	Equi'Z Adapter BT40/PT30 Power // Ultimate
350080414	Equi'Z Adapter BT40/PT45 Power // Ultimate
350080415	Equi'Z Adapter BT40/PT90 Power // Ultimate
350080416	Equi'Z Adapter BT50/PT30 Power // Ultimate
350080417	Equi'Z Adapter BT50/PT45 Power // Ultimate
350080418	Equi'Z Adapter BT50/PT90 Power // Ultimate

Accessories Competition and Ultimate:

Item No.	Name
400006075	Equi'Z tablet stand
400006076	Equi'Z tablet tray

Adapters for dressing, presetting etc.

Adapter piece for **tool grinding machines, dressing machines, presetting devices, balancing machines**

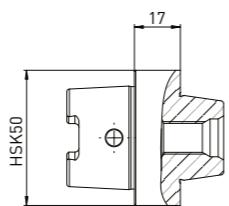
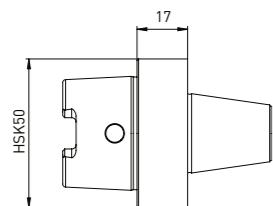


Order No. Name

350130020 Adapter piece HSK50 on HSK40 A/C/E HSK50 B/D/F

Order No. Name

350130021 Adapter piece HSK50 on HSK32 A/C/E HSK40 B/D/F

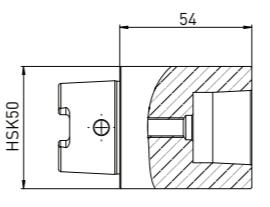
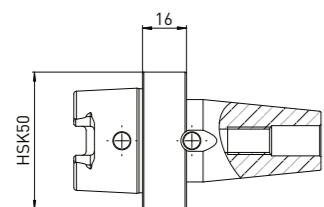


Order No. Name

350130034 Adapter piece HSK50 on ANCA taper ø30

Order No. Name

350130032 Adapter piece HSK50 on Haas/Walter taper

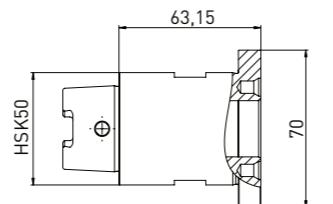
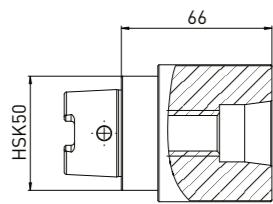


Order No. Name

350130030 Adapter piece HSK50 on Strausak Fleximat

Order No. Name

350130031 Adapter piece HSK50 on Strausak Promat



Order No. Name

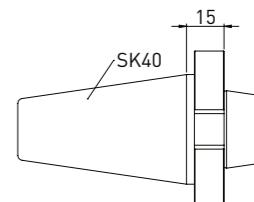
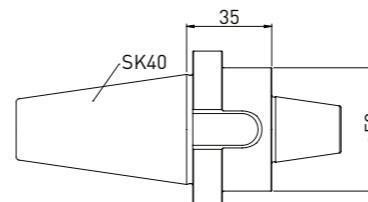
350130033 Adapter piece HSK50 on Saacke short taper

Order No. Name

350130048 Adapter HSK50 x ø25 on Rollowmatic

Adapter for dressing, presetting, balancing

Adapters fine balanced SK40 an SK50 for **tool grinding machines, dressing machines, presetting devices, balancing machines**

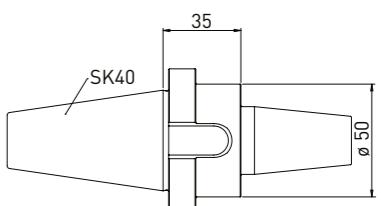
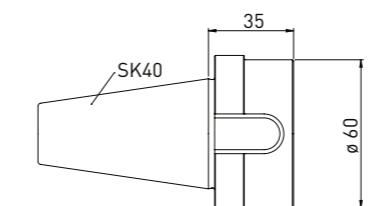


Order No. Name

350130035 Adapter SK40 on ANCA taper ø30

Order No. Name

350130014 Adapter SK40 on Haas/Walter taper

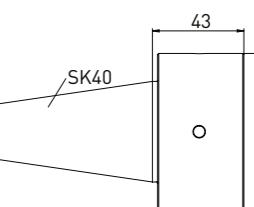
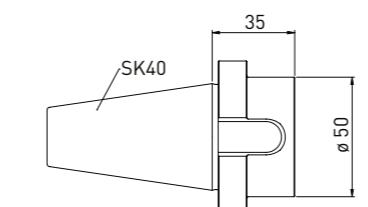


Order No. Name

350130040 Adapter SK40 on Saacke short taper

Order No. Name

350130043 Adapter SK40 on Strausak Fleximat

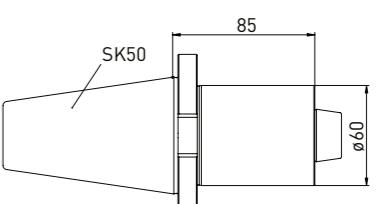
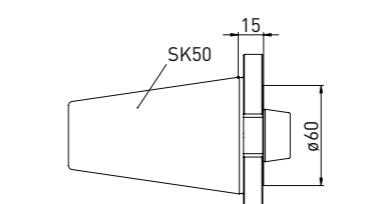


Order No. Name

350130042 Adapter SK40 on Strausak Promat

Order No. Name

350130039 Adapter SK40 on Rollowmatic ø25



Order No. Name

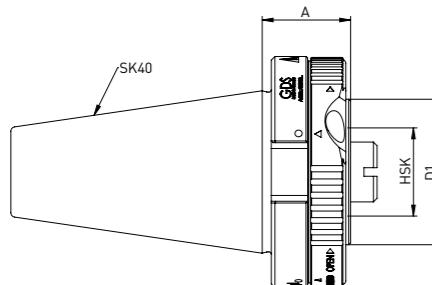
350130044 Adapter SK50 on Haas/Walter taper L15

Order No. Name

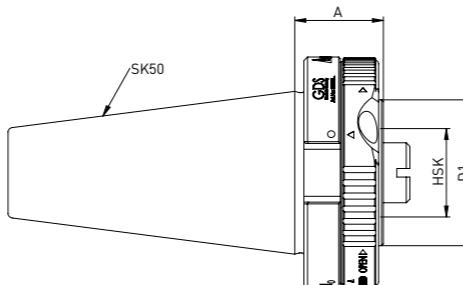
350130045 Adapter SK50 on Haas/Walter taper L85

Adapters SK40 and SK50 on HSK tool adapters

Adapter SK40 on HSK



Adapter SK50 on HSK

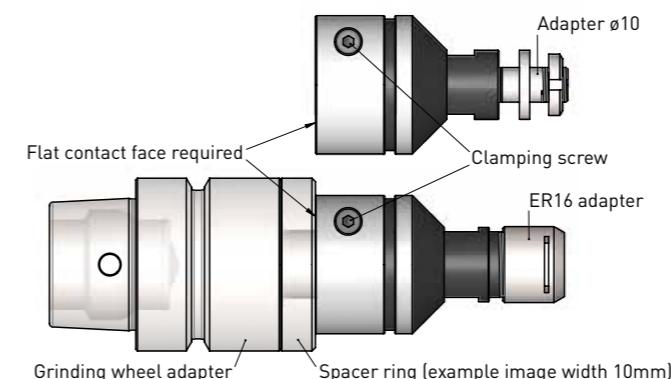


Order No.	A/C/E HSK shape	B/D/F HSK shape	A	D1
350130011	HSK32	HSK40	25	40
350130012	HSK40	HSK50	35	50
350130013	HSK50	HSK63	45	63

Order No.	A/C/E HSK shape	B/D/F HSK shape	A	D1
350130001	HSK32	HSK40	30	40
350130002	HSK40	HSK50	33	50
350130003	HSK50	HSK63	45	63

Reduction adapters for grinding wheel adapters

Adapters for grinding wheel adapters from $\varnothing 20$ to $\varnothing 10$ // and $\varnothing 20$ to ER16 collet chuck



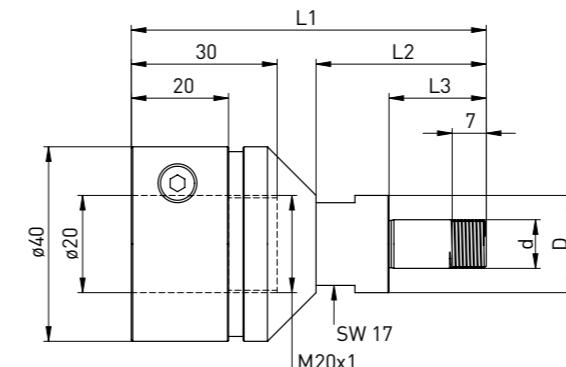
Assembly example

Twist adapter onto M20x1 screw and bring to rear to flat contact face.

If needed, lay spacers down first so that the adapter meets the flat contact face.

Subsequently, tighten using spanner flat and secure with clamping screw.

Adapter $\varnothing 20$ on $\varnothing 10$



Delivered equipped:
Clamping nut (350020114), Spacer rings 4pc. (350016004)

Order No.	D	d	L1	L2	L3
350130046	20	10	73	35	20

Accessories Adapter $\varnothing 20$ on $\varnothing 10$

Order No. Name -ø

350016004 Spacer ring $\varnothing 20 \times \varnothing 10 \times 3$



350020114 Clamping nut $\varnothing 18 \times 4 - M10 \times 0,75$



350040050 Hook wrench 16-20 mm

Accessories Adapter $\varnothing 20$ on ER16

Order No. Name

350125116 Mini clamping nut SILENT ER16



350126116 Clamping wrench for Mini clamping nut SILENT ER16



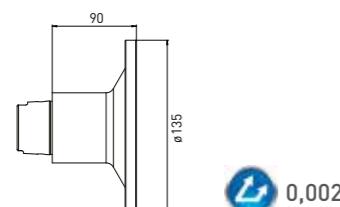
Order No. Name

3501217** Collet DIN 6499 ER16 **ø1-10mm

**(Please complete the order number with the two-digit number that defines the diameter!) e.g. for ø1 -> last digit 01 (350121701) for ø10 last digit -> 10 (350121710)

Test and adjusting mandrels

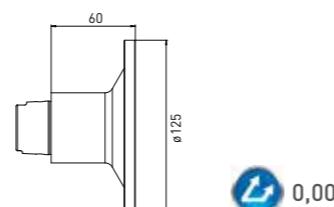
HSK50 Test and angle dial



Order No. Name

350090010 Test and angle dial HSK50

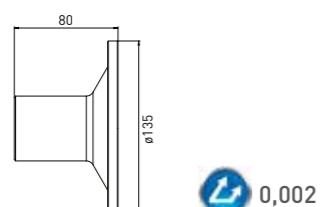
HSK40 Test and angle dial



Order No. Name

350090020 Test and angle dial HSK40

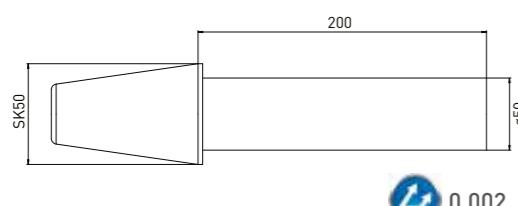
Test and angle dial



Order No. Name

350090030 Angle dial Haas/Walter taper 31.75

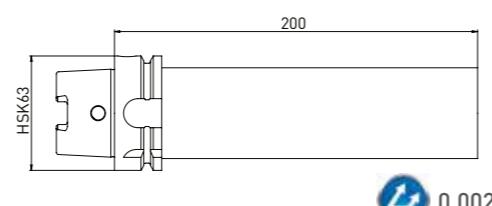
SK Test mandrel



Order No. Name

350090040 Test mandrel SK50 x Ø50 x 200

HSK Test mandrel



Order No. Name

350090050 Test mandrel HSK63 x Ø50 x 200

Universal swing prism for measuring machines



Universal swing prism



Item No.: 350250102



GDS local sales and service partners Germany

Our certified partners **take care of you**, where we can't be in person, providing optimal support and answers to your questions.



Local GDS partners offer the complete line of original GDS grinding wheel adaptors as well as clamping and balancing solutions for tool grinding.

From consulting to order processing, please contact your local GDS partners.

GDS - precision is our passion



D- PLZ 0 - 6
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 Fax: +49 (0) 881 - 90 11 55-100
 Email: vertrieb@muedia.de
 Web: www.muedia.de

D- PLZ 0 - 6 (Clamping and balancing technology)
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 Fax: +49 (0) 82 96 - 90 98 96
 Email: info@balletshofer.com
 Web: www.balletshofer.com

D- PLZ 6 + 7
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 Email: info@hf-fischer.de
 Web: www.hf-fischer.de

D- PLZ 8 + 9
Balletshofer Schleiftechnik
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 Fax: +49 (0) 82 96 - 90 98 96
 Email: info@balletshofer.com
 Web: www.balletshofer.com



Of course, you can purchase our products from the trading partner of your choice.

GDS local sales and service partners Europe

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BELGIUM
oelheld technologies SAS
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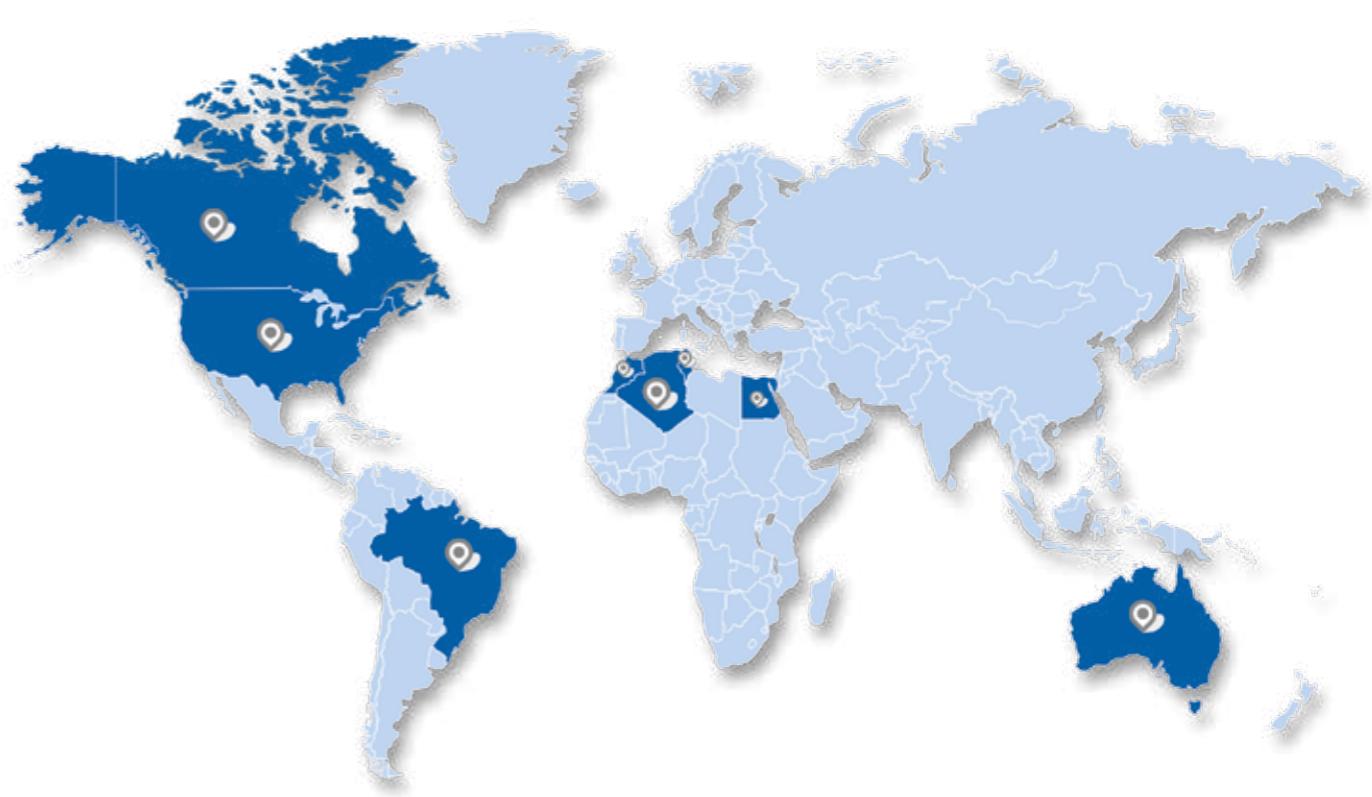
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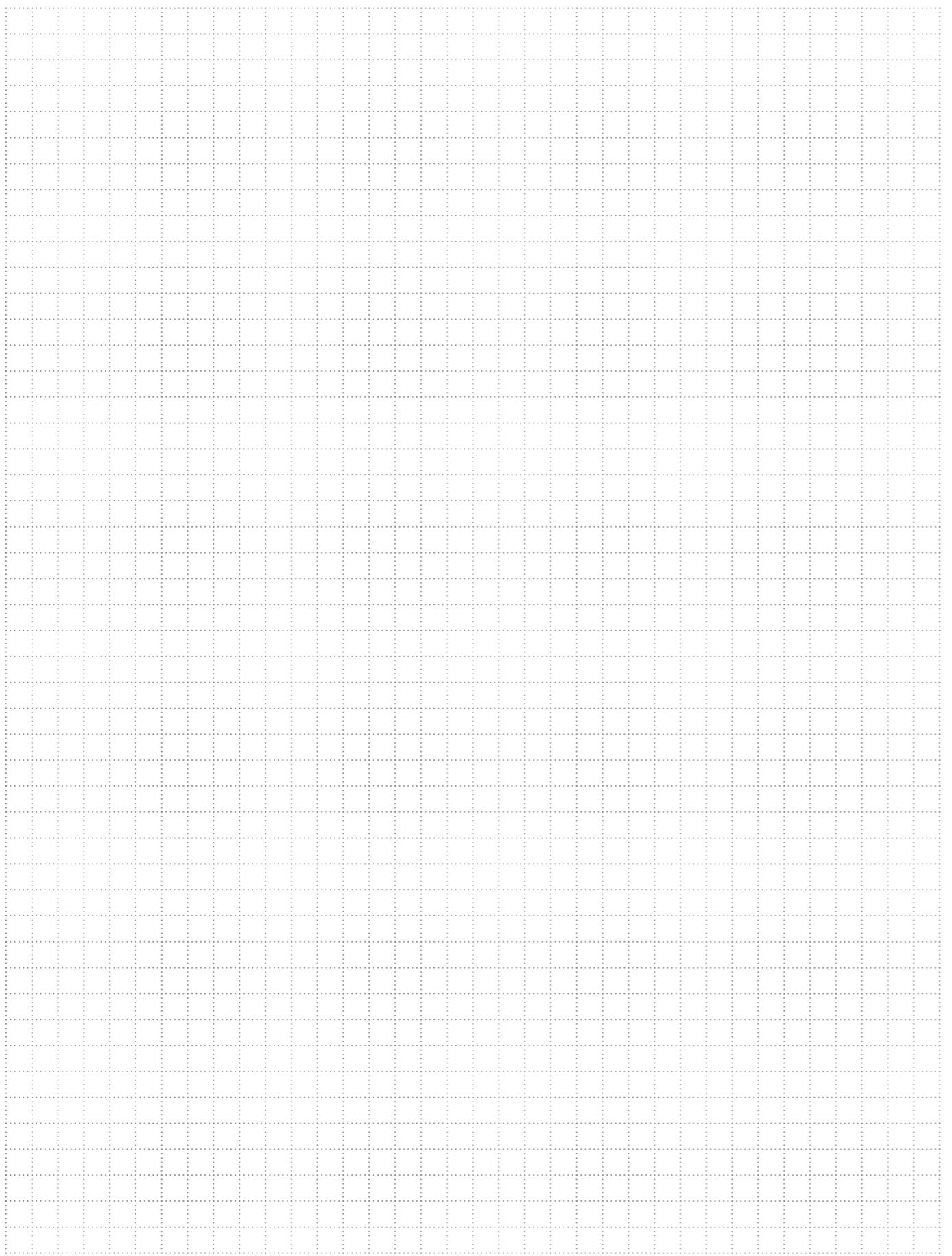
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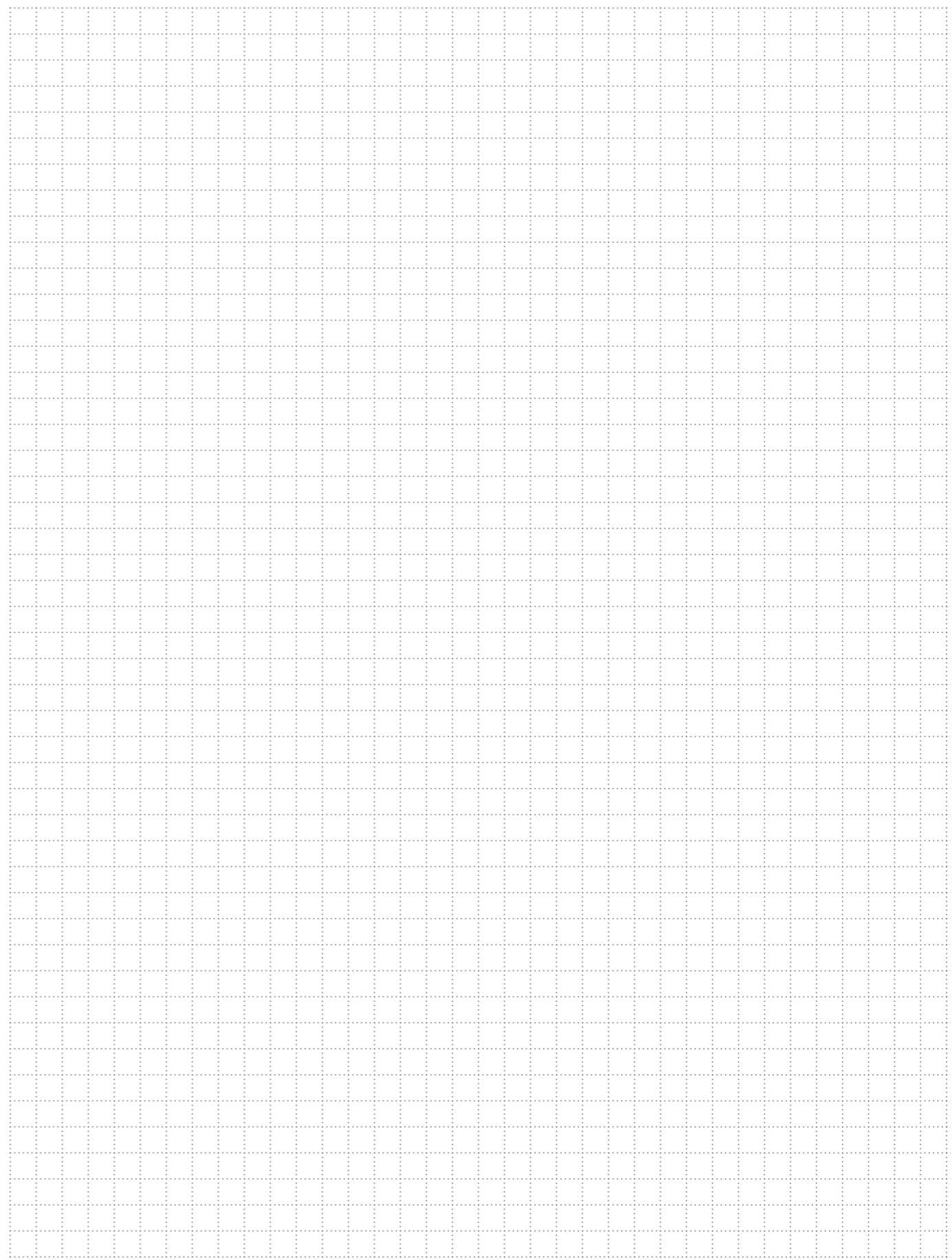
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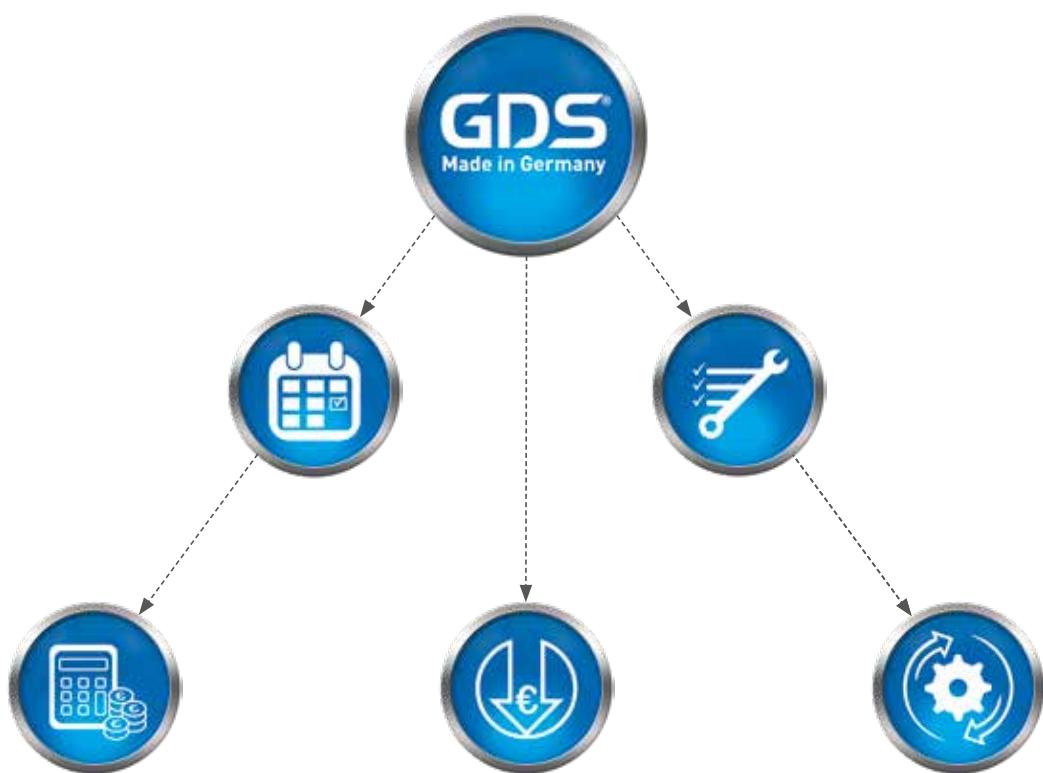
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