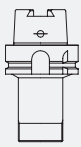
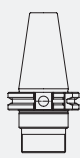
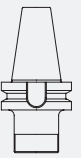
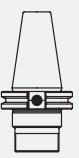
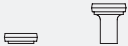


Experience high-precision toolholding

Standard				Cylindrical collets
HSK/MR HSK/MRM	SK/ MR	BT/ MR	CAT/ MR	CYL/MR CYL/MRM
				
page 185	page 190	page 192	page 194	page 196

Collets
MR

page 199

Standard	Mini nut	Sealing and coolant flush disks
MR MRC	MRM MRMC	DS/MR KS/MR
		
page 204 page 204	page 204 page 204	page 244 page 252

Standard				Cylindrical colletholders
HSK/MR HSK/MRM	SK/ MR	BT/ MR	CAT/ MR	CYL/MR CYL/MRM
				
page 185	page 190	page 192	page 194	page 196



Toolholders in Swiss quality



	HSK/MR	BT/MR	SK/MR	CAT/MR	CYL/MR	CYL/MRM
Norm	DIN 69893 ISO 12164	MAS 403 JIS B 6339 DIN-ISO 7388-2	DIN 69871 DIN ISO 7388-1	DIN 6871 DIN ISO 7388-1	–	–
Balancing	G 2.5 @ 25,000 min ⁻¹	G 2.5 @ 25,000 min ⁻¹	G 2.5 @ 25,000 min ⁻¹	G 2.5 @ 25,000 min ⁻¹	–	–
Chip hole	•	–	•	–	–	–
Runout TIR	≤0.003 mm	≤0.003 mm	≤0.003 mm	≤0.003 mm	≤0.003 mm	≤0.003 mm
Taper accuracy	DIN ISO	AT3	AT3	AT3	–	–
Form A + AD	–	•	•	–	–	–
Form AD + B	–	•	•	–	–	–
Shank tolerance	–	–	–	–	h6	h6

HSK toolholders

Designed for rotating applications, all our HSK toolholders are suited for high-speed applications where a consistent performance is key.

DIN 69893 / ISO 12164

Features and benefits

Total system runout TIR $\leq 3\mu\text{m}$ @ 3xD

Our holistic system consists of an micRun® toolholder, collet and clamping nut. All components together ensure best runout and accuracy.

Toolholder runout TIR $\leq 1\mu\text{m}$

Measured from inner taper to outer taper.

Surface finish max. Ra 0.25

Achieve high clamping force and high transferable torque.

Balancing

100% balanced to G 2.5 @ 25,000 rpm/<1gmm.

MR clamping nut included in delivery

Guarantees highest clamping force and best balancing.

Vibration dampening

Our holders offer good vibration dampening to sustain a high surface finish and can help prevent chatter.

Accessories are not included in delivery

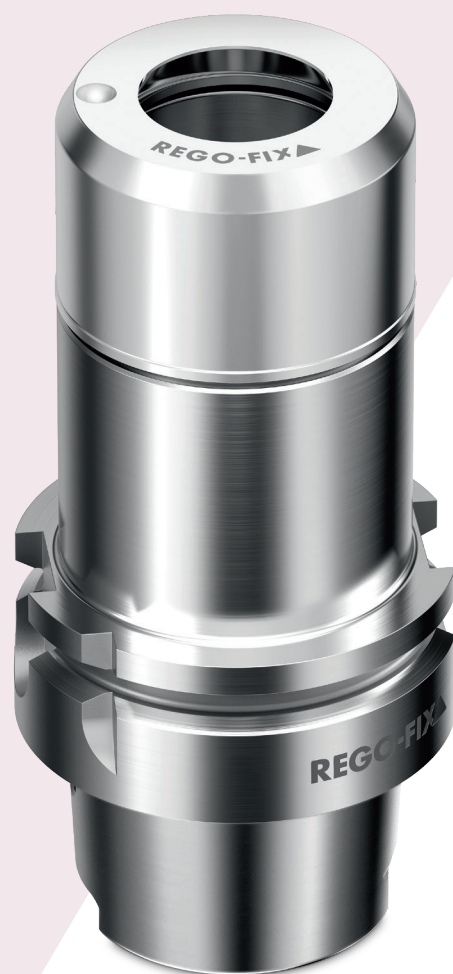
Expert advice

For all HSK-A and HSK-E form toolholders a range of coolant tubes (KSR) is available.

For KSR part numbers please refer to page 265.

Balancing specifications

HSK 25	balanced to 90,000 min ⁻¹
HSK 32	balanced to 60,000 min ⁻¹
HSK 40	balanced to 45,000 min ⁻¹
HSK 50	balanced to 36,000 min ⁻¹
HSK 63	G 2.5 @ 25,000 min ⁻¹
HSK 80	G 2.5 @ 25,000 min ⁻¹
HSK 100	G 2.5 @ 25,000 min ⁻¹
HSK 125	G 2.5 @ 25,000 min ⁻¹



HSK-A toolholders

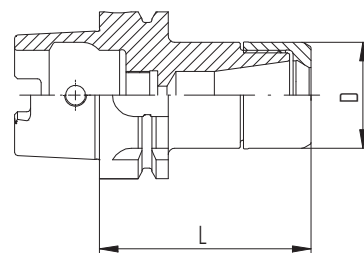
HSK-A

DIN 69893

ISO 12164

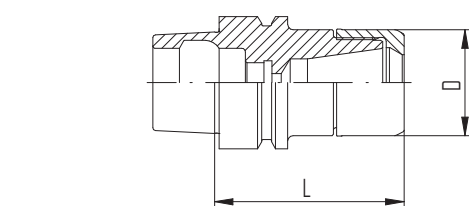
Type	Part no.	Dimensions [mm]		Accessory
		D	L	Freewheel wrench head
HSK-A 32				
HSK-A 32/MRM 16 x 060	5532.11620	24	60	A-FLS Ø 24 /MRM 16
HSK-A 32/MRM 16 x 100	5532.11650	24	100	A-FLS Ø 24 /MRM 16
HSK-A 40				
HSK-A 40/MR 16 x 060	5540.11620	28	60	A-FLS Ø 28 /MR 16
HSK-A 40/MR 16 x 100	5540.11650	28	100	A-FLS Ø 28 /MR 16
HSK-A 40/MR 25 x 080	5540.12540	40	80	A-FLS Ø 40 /MR 25
HSK-A 50				
HSK-A 50/MR 16 x 100	5550.11650	28	100	A-FLS Ø 28 /MR 16
HSK-A 50/MR 25 x 080	5550.12540	40	80	A-FLS Ø 40 /MR 25
HSK-A 63				
HSK-A 63/MR 11 x 100	5563.11150	16	100	A-FLS Ø 16 /MR 11
HSK-A 63/MR 11 x 160	5563.11180	16	160	A-FLS Ø 16 /MR 11
HSK-A 63/MR 16 x 100	5563.11650	28	100	A-FLS Ø 28 /MR 16
HSK-A 63/MRM 16 x 100	5563.11657	24	100	A-FLS Ø 28 /MR 16
HSK-A 63/MRM 16 x 160	5563.11687	24	160	A-FLS Ø 28 /MR 16
HSK-A 63/MR 25 x 080	5563.12540	40	80	A-FLS Ø 40 /MR 25
HSK-A 63/MR 25 x 160	5563.12580	40	160	A-FLS Ø 40 /MR 25
HSK-A 63/MR 32 x 070	5563.13230	50	70	A-FLS Ø 50 /MR 32
HSK-A 63/MR 32 x 100	5563.13250	50	100	A-FLS Ø 50 /MR 32

Included in delivery: MR toolholders come with HI-Q®/MR clamping nut
 HSK-A: Hole for data carrier DIN STD 69873 in the flange available on request



Type	Part no.	Dimensions [mm]		Accessory
		D	L	Freewheel wrench head
HSK-E 25				
HSK-E 25/MR 11 x 045	5525.11114	16	45	A-FLS Ø 16/MR 11
HSK-E 25/MRM 16 x 045	5525.11618	24	45	A-FLS Ø 24/MRM 16
HSK-E 32				
HSK-E 32/MR 11 x 060	5532.11124	16	60	A-FLS Ø 16/MR 11
HSK-E 32/MRM 16 x 055	5532.11618	24	55	A-FLS Ø 24/MRM 16
HSK-E 40				
HSK-E 40/MR 11 x 050	5540.11114	16	50	A-FLS Ø 16/MR 11
HSK-E 40/MR 11 x 100	5540.11154	16	100	A-FLS Ø 16/MR 11
HSK-E 40/MRM 16 x 055	5540.11618	24	55	A-FLS Ø 24/MRM 16
HSK-E 40/MRM 16 x 080	5540.11648	24	80	A-FLS Ø 24/MRM 16
HSK-E 40/MR 25 x 065	5540.12520	40	65	A-FLS Ø 40/MR 25
HSK-E 50				
HSK-E 50/MR 16 x 100	5550.11654	28	100	A-FLS Ø 28/MR 16
HSK-E 50/MR 25 x 070	5550.12534	40	70	A-FLS Ø 40/MR 25

Included in delivery: MR toolholders come with Hi-Q® /MR clamping nut





Steep taper toolholders SK

Universally suitable for different machining applications.

DIN 69871 / DIN ISO 7388-1

Features and benefits

Total system runout TIR $\leq 3 \mu\text{m}$ @ 3xD

Our holistic system consists of an micRun® toolholder, collet and clamping nut. All components together ensure best runout and accuracy.

Toolholder runout TIR $\leq 1 \mu\text{m}$

Measured from inner taper to outer taper.

Taper accuracy AT3

Better spindle-to-holder fit and accuracy.

Surface finish max. Ra 0.25

Achieve high clamping force and high transferable torque.

Balancing

100% balanced to G 2.5 @ 25,000 rpm / <1gmm.

MR clamping nut included in delivery

Guarantees highest clamping force and best balancing.

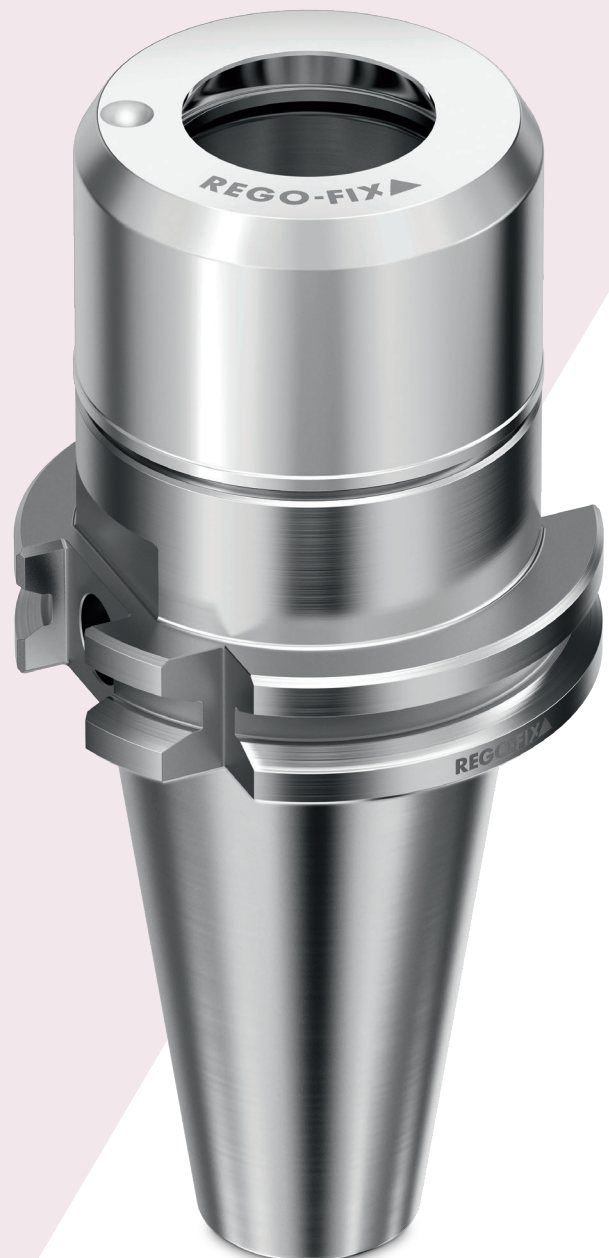
Vibration dampening

Our holders offer good vibration dampening to sustain a high surface finish and can help prevent chatter.

Accessories are not included in delivery

Balancing specifications

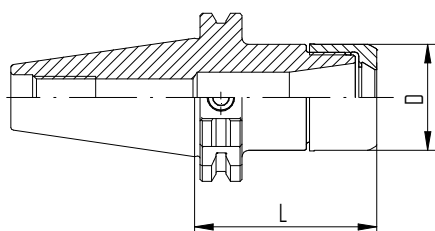
SK 30	balanced to 30,000 min ⁻¹
SK 40	G 2.5 @ 25,000 min ⁻¹
SK 50	G 2.5 @ 25,000 min ⁻¹



Type	Part no.	Dimensions [mm]		Accessory
		D	L	Freewheel wrench head
SK 30				
SK 30/MR 16 x 050	5230.11610	28	50	A-FLS Ø 28/MR 16
SK 30/MR 16 x 100	5230.11650	28	100	A-FLS Ø 28/MR 16
SK 30/MR 25 x 070	5230.12530	40	70	A-FLS Ø 40/MR 25

SK 40				
SK 40/MR 11 x 100	5240.11150	16	100	A-FLS Ø 16/MR 11
SK 40/MR 16 x 070	5240.11630	28	70	A-FLS Ø 28/MR 16
SK 40/MR 16 x 100	5240.11650	28	100	A-FLS Ø 28/MR 16
SK 40/MR 16 x 160	5240.11680	28	160	A-FLS Ø 28/MR 16
SK 40/MR 25 x 070	5240.12530	40	70	A-FLS Ø 40/MR 25
SK 40/MR 25 x 100	5240.12550	40	100	A-FLS Ø 40/MR 25
SK 40/MR 25 x 160	5240.12580	40	160	A-FLS Ø 40/MR 25
SK 40/MR 32 x 070	5240.13230	50	70	A-FLS Ø 50/MR 32
SK 40/MR 32 x 100	5240.13250	50	100	A-FLS Ø 50/MR 32
SK 40/MR 32 x 160	5240.13280	50	160	A-FLS Ø 50/MR 32

Included in delivery: MR toolholders come with Hi-Q®/MR clamping nut



SK / MR (Form A+AD)

Expert advice

We recommend tightening the clamping nuts with our TORCO-BLOCK or torque wrench.
Get the best accuracy by respecting the suitable tightening forces.

For recommended REGO-FIX accessories, please refer to page 262.

Steep taper toolholders BT

Universally suitable different machining applications, the BT interface toolholders cater to different machining needs.

MAS 403 / JIS B 6339 / DIN ISO 7388-2

Features and benefits

Total system runout TIR $\leq 3 \mu\text{m}$ @ 3xD

Our holistic system consists of an micRun® toolholder, collet and clamping nut. All components together ensure best runout and accuracy.

Toolholder runout TIR $\leq 1 \mu\text{m}$

Measured from inner taper to outer taper.

Taper accuracy AT3

Better spindle-to-holder fit and accuracy.

Surface finish max. Ra 0.25

Achieve high clamping force and high transferable torque.

Balancing

100% balanced to G 2.5 @ 25,000 rpm / <1gmm.

MR clamping nut included in delivery

Guarantees highest clamping force and best balancing.

Vibration dampening

Our holders offer good vibration dampening to sustain a high surface finish and can help prevent chatter.

Accessories are not included in delivery

Balancing specifications

BT 30	balanced to 30,000 min ⁻¹
BT 40	G 2.5 @ 25,000 min ⁻¹



BT toolholders

BT

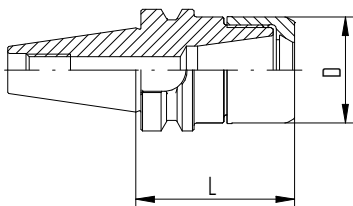
MAS 403

JIS B 6339

DIN ISO 7388-2

Type	Part no.	Dimensions [mm]		Accessory
		D	L	Freewheel wrench head
BT 30				
BT 30/MR 11 x 050	5130.11110	16	50	A-FLS Ø 16/MR 11
BT 30/MR 11 x 100	5130.11150	16	100	A-FLS Ø 16/MR 11
BT 30/MR 16 x 050	5130.11610	28	50	A-FLS Ø 28/MR 16
BT 30/MR 16 x 080	5130.11640	28	80	A-FLS Ø 28/MR 16
BT 30/MR 16 x 100	5130.11650	28	100	A-FLS Ø 28/MR 16
BT 30/MR 25 x 060	5130.12520	40	60	A-FLS Ø 40/MR 25
BT 30/MR 25 x 100	5130.12550	40	100	A-FLS Ø 40/MR 25
BT 30/MR 32 x 060	5130.13220	50	60	A-FLS Ø 50/MR 32
BT 40				
BT 40/MR 11 x 100	5140.11150	16	100	A-FLS Ø 16/MR 11
BT 40/MR 16 x 070	5140.11630	28	70	A-FLS Ø 28/MR 16
BT 40/MR 16 x 100	5140.11650	28	100	A-FLS Ø 28/MR 16
BT 40/MR 25 x 070	5140.12530	40	70	A-FLS Ø 40/MR 25
BT 40/MR 25 x 100	5140.12550	40	100	A-FLS Ø 40/MR 25
BT 40/MR 32 x 070	5140.13230	50	70	A-FLS Ø 50/MR 32
BT 40/MR 32 x 100	5140.13250	50	100	A-FLS Ø 50/MR 32

Included in delivery: MR toolholders come with Hi-Q®/MR clamping nut



BT/MR (Form A+AD)

Expert advice

We recommend tightening the clamping nuts with our TORCO-BLOCK or torque wrench.
For recommended REGO-FIX accessories, please refer to page 237.

Steep taper toolholders CAT

Universally suitable for different machining applications.

ASME B5.50

Features and benefits

Total system runout TIR $\leq 0.0001"$ (3 μm)

Our holistic system consists of an micRun® toolholder, collet and clamping nut. All components together ensure best runout and accuracy.

Toolholder runout TIR $\leq 1 \mu\text{m}$

Measured from inner taper to outer taper.

Taper accuracy AT3

Better spindle-to-holder fit and accuracy.

Surface finish max. Ra 0.25

Achieve high clamping force and high transferable torque.

Balancing

100% balanced to G 2.5 @ 22,000 rpm.

MR clamping nut included in delivery

Guarantees highest clamping force and best balancing.

Vibration dampening

Our holders offer good vibration dampening to sustain a high surface finish and can help prevent chatter.

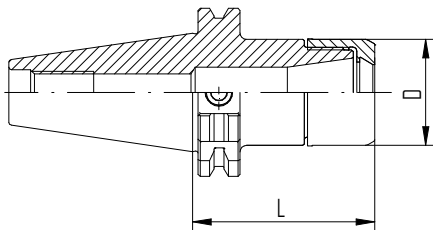
Accessories are not included in delivery



Type	Part no.	Dimensions [mm]		Accessory
		D	L	Freewheel wrench head
CAT 40*				
CAT 40/MR 16 x 3"	5340.11631	28	3"	A-FLS Ø 28/MR 16
CAT 40/MR 16 x 6"	5340.11671	28	6"	A-FLS Ø 28/MR 16
CAT 40/MR 32 x 3"	5340.13231	50	3"	A-FLS Ø 50/MR 32

*USA only

Included in delivery: MR toolholders come with Hi-Q®/MR clamping nut



CAT / MR (form A+AD)

Cylindrical shank toolholders CYL

CYL

Features and benefits

Total system runout TIR $\leq 3\mu\text{m}$ @ 3xD

Our holistic system consists of an micRun® toolholder, collet and clamping nut. All components together ensure best runout and accuracy.

Toolholder runout TIR $\leq 1\mu\text{m}$

Measured from inner taper to cylindrical shank.

Surface finish max. Ra 0.25

Achieve high clamping force and high transferable torque.

Sizes

CYL/MR 11 and CYL/MRM 16

Application

CYL/MR is suited for Swiss automatic machines, machining centers and conventional machines.

MR clamping nut included in delivery

Guarantees maximum precision combined with slimmest diameter.

Vibration dampening

Our holders offer good vibration dampening to sustain a high surface finish and can help prevent chatter.

Accessories are not included in delivery

Expert advice

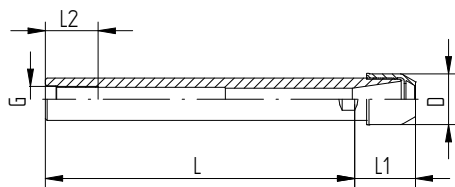
We recommend tightening the clamping nuts using a torque wrench. Get the best accuracy by respecting the suitable tightening forces.

For tightening torque recommendations, please refer to page 293.



Type	Part no.	Dimensions [mm]				G	Accessory
		D	L	L1	L2		Freewheel wrench head
CYL 16							
CYL 16 x 150/MR 11	5616.11190	16	150	17.2	20	M 8 x 1	A-FLS Ø 16/MR 11
CYL 16 x 200/MR 11	5616.11100	16	200	17.2	20	M 8 x 1	A-FLS Ø 16/MR 11
CYL 20							
CYL 20 x 150/MRM 16	5620.21690	24	150	25.2	25	M 12 x 1	A-FLS Ø 24/MRM 16
CYL 20 x 200/MRM 16	5620.21600	24	200	25.2	25	M 12 x 1	A-FLS Ø 24/MRM 16

Included in delivery: MR toolholders come with Hi-Q® /MR clamping nut



CYL/MR



Collets

MR



page 199



Swiss quality MR collets

MR collets

Type	Part no.	[mm]	[inch]
MR 11 [mm]			
Ø 1.0 mm	1111.01006	1.0	–
Ø 2.0 mm	1111.02006	2.0	–
Ø 3.0 mm	1111.03006	3.0	–
Ø 4.0 mm	1111.04006	4.0	–
Ø 5.0 mm	1111.05006	5.0	–
Ø 6.0 mm	1111.06006	6.0	–
MR 11 [inch]			
Ø 1/8"	1111.03186	3.175	1/8"
Ø 3/16"	1111.04766	4.763	3/16"
Ø 1/4"	1111.06356	6.35	1/4"
MR 16 [mm]			
Ø 1.0 mm	1116.01006	1.0	–
Ø 2.0 mm	1116.02006	2.0	–
Ø 3.0 mm	1116.03006	3.0	–
Ø 4.0 mm	1116.04006	4.0	–
Ø 5.0 mm	1116.05006	5.0	–
Ø 6.0 mm	1116.06006	6.0	–
Ø 8.0 mm	1116.08006	8.0	–
Ø 10.0 mm	1116.10006	10.0	–
MR 16 [inch]			
Ø 1/8"	1116.03186	3.175	1/8"
Ø 3/16"	1116.04766	4.763	3/16"
Ø 1/4"	1116.06356	6.35	1/4"
Ø 5/16"	1116.07946	7.938	5/16"
Ø 3/8"	1116.09536	9.525	3/8"

Expert advice

The micRun® MR collet represents the benchmark in precision: With a runout at (maximum) 2µm, it is the most accurate collet in the REGO-FIX lineup. MR collets are compatible with genuine REGO-FIX ER toolholders and increase the TIR of the entire system.

Type	Part no.	Ø [mm]	Ø [inch]
MR 25 [mm]			
Ø 1.0 mm	1125.01006	1.0	–
Ø 2.0 mm	1125.02006	2.0	–
Ø 3.0 mm	1125.03006	3.0	–
Ø 4.0 mm	1125.04006	4.0	–
Ø 5.0 mm	1125.05006	5.0	–
Ø 6.0 mm	1125.06006	6.0	–
Ø 8.0 mm	1125.08006	8.0	–
Ø 10.0 mm	1125.10006	10.0	–
Ø 12.0 mm	1125.12006	12.0	–
Ø 14.0 mm	1125.14006	14.0	–
Ø 16.0 mm	1125.16006	16.0	–

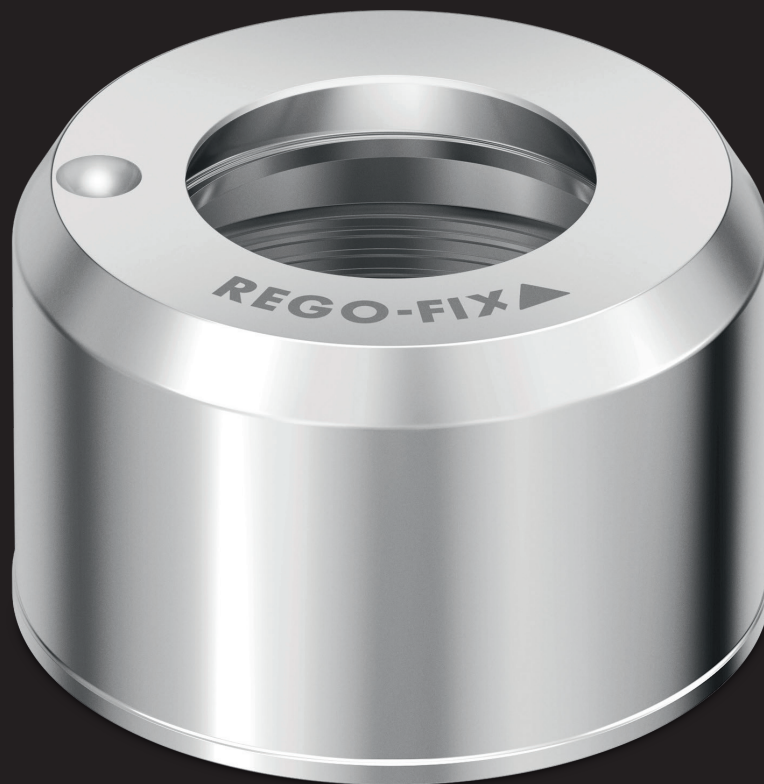
MR 25 [inch]			
Ø 1/8"	1125.03186	3.175	1/8"
Ø 1/4"	1125.06356	6.35	1/4"
Ø 5/16"	1125.07946	7.938	5/16"
Ø 3/8"	1125.09536	9.525	3/8"
Ø 7/16"	1125.11116	11.113	7/16"
Ø 1/2"	1125.12706	12.7	1/2"
Ø 9/16"	1125.14296	14.288	9/16"
Ø 5/8"	1125.15886	15.875	5/8"

MR 32 [mm]			
Ø 2.0 mm	1132.02006	2.0	–
Ø 3.0 mm	1132.03006	3.0	–
Ø 4.0 mm	1132.04006	4.0	–
Ø 5.0 mm	1132.05006	5.0	–
Ø 6.0 mm	1132.06006	6.0	–
Ø 8.0 mm	1132.08006	8.0	–
Ø 10.0 mm	1132.10006	10.0	–
Ø 12.0 mm	1132.12006	12.0	–
Ø 14.0 mm	1132.14006	14.0	–
Ø 16.0 mm	1132.16006	16.0	–
Ø 18.0 mm	1132.18006	18.0	–
Ø 20.0 mm	1132.20006	20.0	–

Type	Part no.	Ø	
		[mm]	[inch]
MR 32 [inch]			
Ø 1/4"	1132.06356	6.35	1/4"
Ø 5/16"	1132.07946	7.938	5/16"
Ø 3/8"	1132.09536	9.525	3/8"
Ø 7/16"	1132.11116	11.113	7/16"
Ø 1/2"	1132.12706	12.7	1/2"
Ø 9/16"	1132.14296	14.288	9/16"
Ø 5/8"	1132.15886	15.875	5/8"
Ø 11/16"	1132.17466	17.463	11/16"
Ø 3/4"	1132.19056	19.05	3/4"



MR 32



Standard		Mini nut		Sealing and coolant flush disks	
MR	MRC	MRM	MRMC	DS/MR	KS/MR
					
page 204	page 204	page 204	page 204	page 244	page 252

C: cooling M: mini thread DS: sealing disk KS: coolant flush disk

Grooveless MR nuts for high-end machining



	Hi-Q/MR	Hi-Q/MRC	Hi-Q/MRM	Hi-Q/MRMC
Main feature	Standard micRun® nut	micRun® nut for coolant through	micRun® mini nut	micRun® mini nut for coolant through
Sizes	MR 11/16/25/32	MR 11/16/25/32	MRM 16	MRM 16
Minimal outer diameter	–	–	•	•
Grooveless	•	•	•	•
Suitable wrench	A-FLS	A-FLS	A-FLS	A-FLS
Compatible with DS	–	•	–	•
Compatible with KS	–	•	–	•

Expert advice

Due to the thread, micRun® MR-clamping nuts are only compatible with MR-toolholders.

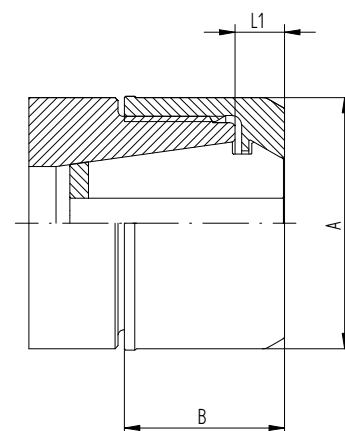
MR Clamping nuts

MR nuts

MRM Mini clamping nuts

MRC and MRMC clamping nuts for coolant through tools (DS/KS)

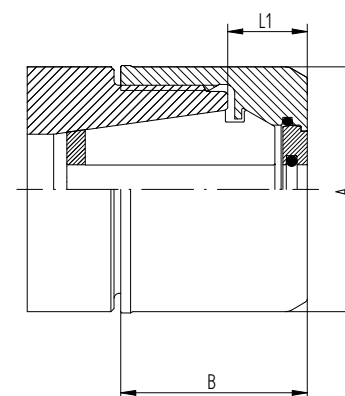
Type	Part no.	Dimensions [mm]		
		A	B	L1
MR 11				
Hi-Q/MR 11	3611.00000	16	16.2	4.5
MR 16				
Hi-Q/MR 16	3616.00000	28	23.1	6.7
MR 25				
Hi-Q/MR 25	3625.00000	40	25.5	8.1
MR 32				
Hi-Q/MR 32	3632.00000	50	31.8	9.1



MR

Type	Part no.	Dimensions [mm]		
		A	B	L1
MRM 16				
Hi-Q/MRM 16	3616.80000	24	23.1	6.7

Type	Part no.	Dimensions [mm]		
		A	B	L1
MRC 16				
Hi-Q/MRC 16	3616.20000	28	28.1	11.7
MRC 25				
Hi-Q/MRC 25	3625.20000	40	30.5	13.1
MRC 32				
Hi-Q/MRC 32	3632.20000	50	36.8	14.1



MRC

Type	Part no.	Dimensions [mm]		
		A	B	L1
MRMC 16				
Hi-Q/MRMC 16	3616.90000	24	28.1	11.7



Accessories

powRgrip® accessories	238
Balancing rings	241
Sealing disks	244
Coolant flush disks	252
Wrenches	255
Torque wrenches	258
Toolholding fixtures	260
Mobile workbench for PGU 9500	261
TORCO-BLOCK	262
Taper cleaner	264
Coolant tubes KSR	265
Trays for collets	266

The colored dots show the system affiliation.
Various products can be used with multiple systems.

- powRgrip® System
- ER System
- micRun® System
- Multi Line System



powRgrip® taper cleaner TKCP

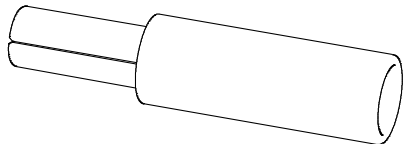
Cleaning paper set CPS

Type	Part no.	Use for
Taper cleaner TKCP		
TKCP 6	7657.06000	PG 6
TKCP 10	7657.10000	PG 10
TKCP 15	7657.15000	PG 15
TKCP 25	7657.25000	PG 25
TKCP 32	7657.32000	PG 32

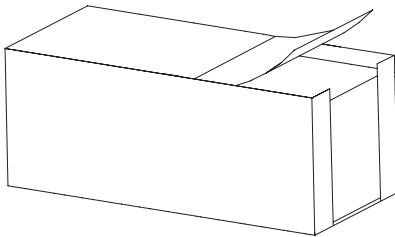
Includes taper cleaner and cleaning paper set

Type	Part no.
Cleaning paper set CPS	
CPS 6	7658.06000
CPS 10	7658.10000
CPS 15	7658.15000
CPS 25	7658.25000
CPS 32	7658.32000

Each CPS contains 250 sheets. For single use only



TKCP

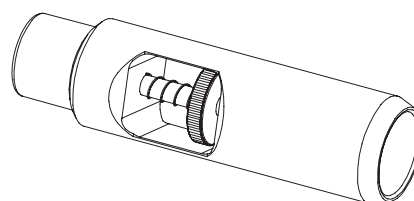
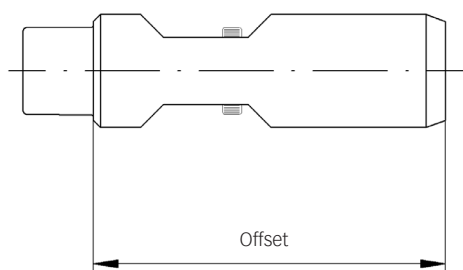


CPS



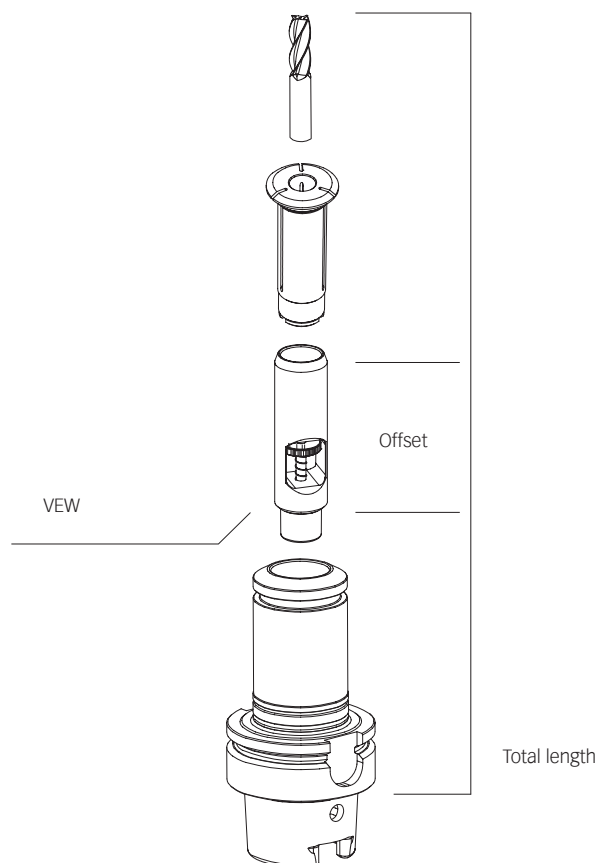
Type	Part no.	Offset
Length-presetting tool VEW		[mm]
VEW 6	7619.06000	80
VEW 10	7619.10000	100
VEW 15	7619.15000	100
VEW 25	7619.25000	100
VEW 32	7619.32000	100

Precise tool adjusting The powRgrip® presetting tool accommodates the powRgrip® collet and is inserted into the toolholder. The presetting tool has an adjustment wheel for precise tool adjustments.



VEW

Length-presetting tool VEW



How it works

- // Insert the length-presetting tool VEW into the powRgrip® toolholder
- // Insert the powRgrip® collet into the length presetting tool
- // Insert the cutting tool into the powRgrip® collet
- // Adjust the tool length by turning the adjustment wheel
- // Measure the total length of the cutting tool and subtract the length of the VEW (80 mm / 100 mm) from the total length
- // Remove the length-presetting tool VEW
- // Clamp collet and cutting tool into the powRgrip® toolholder with the powRgrip® clamping unit

Hi-Q® balancing rings FWR Torque screwdriver TSD

FWR

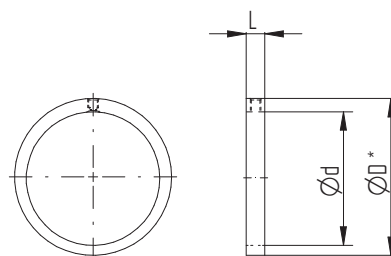
TSD

Type	Part no.	Dimensions [mm]			Balancing capacity [gmm]		max. rpm	System
		D	d	L	FWR SET	single FWR		
Hi-Q® balancing rings FWR								
SET FWR 225	7490.22500	30.5	22.5	6	16	8	80 000	
SET FWR 285	7490.28500	36.5	28.5	6	32	16	70 000	
SET FWR 325	7490.32500	40.5	32.5	6	44	22	60 000	
SET FWR 405	7490.40500	48.5	40.5	6	52	26	50 000	
SET FWR 505	7490.50500	60.5	50.5	7	130	65	42 000	

Included in set: two Hi-Q® balancing rings per set



Balancing rings SET FWR



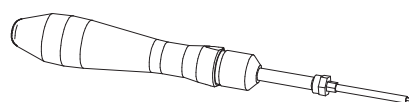
Single balancing ring

*Rotational diameter

Type Part no.

TSD TORX 8 for balancing rings

TSD 0.9 Nm 7159.09000



TSD

Expert advice

The torque screwdriver is a special TORX style wrench that is preset to the recommended torque rating of 0.9 Nm for tightening the REGO-FIX Hi-Q® balancing rings.



Effective solution for internal cooling

Our sealing disks allow you to use your regular collet for internal cooling, saving the need for new collets.

Key advantages

Swiss quality product

Sealing range

0.5 mm

ER 11 has no sealing range and can only be used nominally. Assembling with mounting tool MWZ.

High pressure

For applications up to 150 bar / 2100 PSI.

Protection

Protects against all kind of dirt and chips entering the slots of the collet.

Matched tooling system for best fit

Our long-lasting machining experience results in a well-engineered system. All components are fitted together to one system to maximize your machining potential.

Coolant resistant

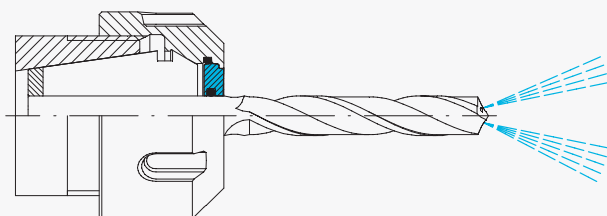
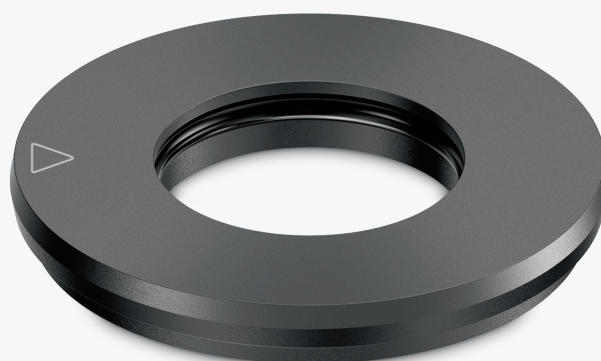
O-ring for aggressive coolant (VITON®-quality).

Interchangeable

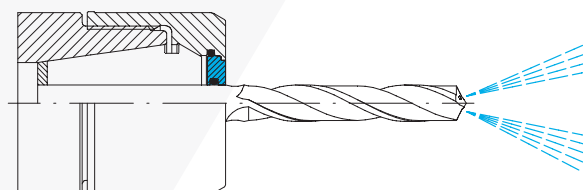
Quick change of sealing disks according to required tool shank diameter.

Coolant through

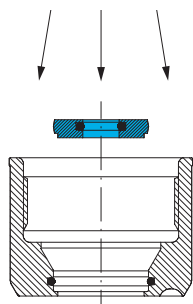
For better cooling and lubrication. Extends tool life and supports chip removal.



DS/ER



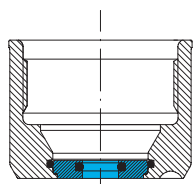
DS/MR



Assembling

Assembling Insert the small diameter of the disk into the center of the coolant nut. Apply an even pressure until the disk is properly seated into the nut.

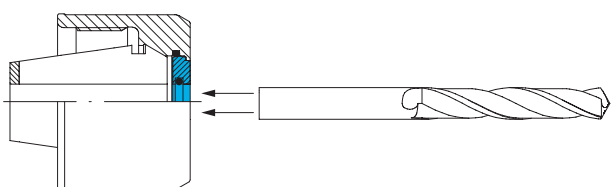
Removing To remove the disk, simply press on the outside of the disk evenly until it snaps out.



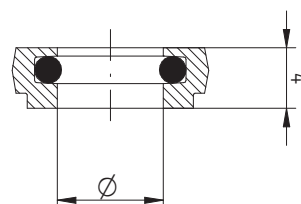
Inserted DS

Expert advice

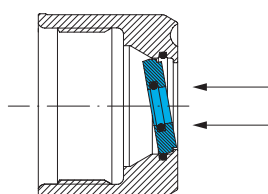
Insert tool with the shank side first. O-ring might be damaged if cutting tool is inserted from the back with the cutting edge side.



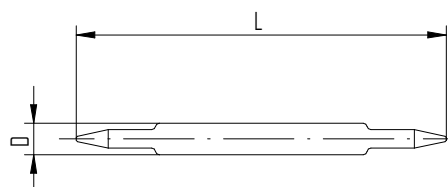
Insert tool



DS/ER



Disk removal



MWZ 11

Type	Part no.	D [mm]	L [mm]
MWZ 11 mounting tool for sealing disks			
MWZ 11	3911.88888	12	140



Sealing disks for ER/MR

DS/ER

DS/MR

Type	Part no.	Tool diameter			Incl. in set	System
		Ø [inch]	[mm]	[decimal inch]		
DS/ER 11						
Ø 3.0 mm	3911.00300	–	3.0	–	–	●
Ø 1/8"	3911.00318	1/8"	–	–	–	●
Ø 4.0 mm	3911.00400	5/32"	4.0	–	–	●
Ø 3/16"	3911.00476	3/16"	–	–	–	●
Ø 5.0 mm	3911.00500	–	5.0	–	–	●
Ø 6.0 mm	3911.00600	–	6.0	–	–	●
Ø 1/4"	3911.00635	1/4"	–	–	–	●
BLANK DS/ER 11	3911.09999	–	–	–	–	●

ER 11 has no sealing range and can only be used nominally. Assembling with mounting tool MWZ.

DS/ER 16						
DS/ER 16 SET (14 pcs.)	3916.00000	–	3.0–10.0	0.1378–0.3937	–	••
Ø 3.0 mm	3916.00300	3/32"	3.0–2.5	0.1181–0.0984	–	••
Ø 3.5 mm	3916.00350	1/8"	3.5–3.0	0.1378–0.1181	•	••
Ø 4.0 mm	3916.00400	5/32"	4.0–3.5	0.1575–0.1378	•	••
Ø 4.5 mm	3916.00450	–	4.5–4.0	0.1772–0.1575	•	••
Ø 5.0 mm	3916.00500	3/16"	5.0–4.5	0.1969–0.1772	•	••
Ø 5.5 mm	3916.00550	7/32"	5.5–5.0	0.2165–0.1969	•	••
Ø 6.0 mm	3916.00600	–	6.0–5.5	0.2362–0.2165	•	••
Ø 6.5 mm	3916.00650	1/4"	6.5–6.0	0.2559–0.2362	•	••
Ø 7.0 mm	3916.00700	–	7.0–6.5	0.2756–0.2559	•	••
Ø 7.5 mm	3916.00750	9/32"	7.5–7.0	0.2953–0.2756	•	••
Ø 8.0 mm	3916.00800	5/16"	8.0–7.5	0.315–0.2953	•	••
Ø 8.5 mm	3916.00850	–	8.5–8.0	0.3346–0.315	•	••
Ø 9.0 mm	3916.00900	11/32"	9.0–8.5	0.3543–0.3346	•	••
Ø 9.5 mm	3916.00950	3/8"	9.5–9.0	0.374–0.3543	•	••
Ø 10.0 mm	3916.01000	–	10.0–9.5	0.3937–0.374	•	••
BLANK DS/ER 16	3916.09999	–	–	–	–	••

Included in the DS/ER sets are all marked disks within that ER size and the matching disk try DSR

DS/ER 20						
SET DS/ER 20 (20 pcs.)	3920.00000	–	3.0–13.0	0.1378–0.5118	–	•
Ø 3.0 mm	3920.00300	3/32"	3.0–2.5	0.1181–0.0984	–	•
Ø 3.5 mm	3920.00350	1/8"	3.5–3.0	0.1378–0.1181	•	•
Ø 4.0 mm	3920.00400	5/32"	4.0–3.5	0.1575–0.1378	•	•
Ø 4.5 mm	3920.00450	–	4.5–4.0	0.2165–0.1969	•	•
Ø 5.0 mm	3920.00500	3/16"	5.0–4.5	0.1969–0.1772	•	•
Ø 5.5 mm	3920.00550	7/32"	5.5–5.0	0.1772–0.1575	•	•
Ø 6.0 mm	3920.00600	–	6.0–5.5	0.2362–0.2165	•	•
Ø 6.5 mm	3920.00650	1/4"	6.5–6.0	0.2559–0.2362	•	•
Ø 7.0 mm	3920.00700	–	7.0–6.5	0.2756–0.2559	•	•
Ø 7.5 mm	3920.00750	9/32"	7.5–7.0	0.2953–0.2756	•	•
Ø 8.0 mm	3920.00800	5/16"	8.0–7.5	0.315–0.2953	•	•
Ø 8.5 mm	3920.00850	–	8.5–8.0	0.3346–0.315	•	•

Sealing disks for ER/MR

DS/ER

DS/MR

Type	Part no.	Tool diameter			Incl. in set	System
		Ø [inch]	[mm]	[decimal inch]		
Ø 9.0 mm	3920.00900	11/32"	9.0–8.5	0.3543–0.3346	•	•
Ø 9.5 mm	3920.00950	3/8"	9.5–9.0	0.374–0.3543	•	•
Ø 10.0 mm	3920.01000	–	10.0–9.5	0.3937–0.374	•	•
Ø 10.5 mm	3920.01050	13/32"	10.5–10.0	0.4134–0.3937	•	•
Ø 11.0 mm	3920.01100	–	11.0–10.5	0.433–0.4134	•	•
Ø 11.5 mm	3920.01150	7/16"	11.5–11.0	0.4528–0.4331	•	•
Ø 12.0 mm	3920.01200	15/32"	12.0–11.5	0.4724–0.4528	•	•
Ø 12.5 mm	3920.01250	–	12.5–12.0	0.4921–0.4724	•	•
Ø 13.0 mm	3920.01300	1/2"	13.0–12.5	0.5118–0.4921	•	•
BLANK DS/ER 20	3920.09999	–	–	–	–	•

Included in the DS/ER sets are all marked disks within that ER size and the matching disk try DSR

DS/ER 25

SET DS/ER 25 (26 pcs.)	3925.00000	–	3.0–16.0	0.1181–0.6299	–	••
Ø 3.0 mm	3925.00300	3/32"	3.0–2.5	0.1181–0.0984	–	••
Ø 3.5 mm	3925.00350	1/8"	3.5–3.0	0.1378–0.1181	•	••
Ø 4.0 mm	3925.00400	5/32"	4.0–3.5	0.1575–0.1378	•	••
Ø 4.5 mm	3925.00450	–	4.5–4.0	0.1772–0.1575	•	••
Ø 5.0 mm	3925.00500	3/16"	5.0–4.5	0.1969–0.1772	•	••
Ø 5.5 mm	3925.00550	7/32"	5.5–5.0	0.2165–0.1969	•	••
Ø 6.0 mm	3925.00600	–	6.0–5.5	0.2362–0.2165	•	••
Ø 6.5 mm	3925.00650	1/4"	6.5–6.0	0.2559–0.2362	•	••
Ø 7.0 mm	3925.00700	–	7.0–6.5	0.2756–0.2559	•	••
Ø 7.5 mm	3925.00750	9/32"	7.5–7.0	0.2953–0.2756	•	••
Ø 8.0 mm	3925.00800	5/16"	8.0–7.5	0.315–0.2953	•	••
Ø 8.5 mm	3925.00850	–	8.5–8.0	0.3346–0.315	•	••
Ø 9.0 mm	3925.00900	11/32"	9.0–8.5	0.3543–0.3347	•	••
Ø 9.5 mm	3925.00950	3/8"	9.5–9.0	0.374–0.3543	•	••
Ø 10.0 mm	3925.01000	–	10.0–9.5	0.3937–0.374	•	••
Ø 10.5 mm	3925.01050	13/32"	10.5–10.0	0.4134–0.3937	•	••
Ø 11.0 mm	3925.01100	–	11.0–10.5	0.433–0.4134	•	••
Ø 11.5 mm	3925.01150	7/16"	11.5–11.0	0.4528–0.433	•	••
Ø 12.0 mm	3925.01200	15/32"	12.0–11.5	0.4724–0.4528	•	••
Ø 12.5 mm	3925.01250	–	12.5–12.0	0.4921–0.4724	•	••
Ø 13.0 mm	3925.01300	1/2"	13.0–12.5	0.2118–0.4921	•	••
Ø 13.5 mm	3925.01350	17/32"	13.5–13.0	0.5315–0.5118	•	••
Ø 14.0 mm	3925.01400	–	14.0–13.5	0.5512–0.5315	•	••
Ø 14.5 mm	3925.01450	9/16"	14.5–14.0	0.5709–0.5512	•	••
Ø 15.0 mm	3925.01500	–	15.0–14.5	0.5906–0.5709	•	••
Ø 15.5 mm	3925.01550	19/32"	15.5–15.0	0.6102–0.5906	•	••
Ø 16.0 mm	3925.01600	5/8"	16.0–15.5	0.6299–0.6102	•	••
BLANK DS/ER 25	3925.09999	–	–	–	–	••

Included in the DS/ER sets are all marked disks within that ER size and the matching disk try DSR



Sealing disks for ER/MR

DS/ER

DS/MR

Type	Part no.	Tool diameter			Incl. in set	System
		Ø [inch]	[mm]	[decimal inch]		
DS/ER 32						
DS/ER 32 SET (34 pcs.)	3932.00000	–	3.0–20.0	0.1181–0.7874	–	 
Ø 3.0 mm	3932.00300	3/32"	3.0–2.5	0.1181–0.0984	–	 
Ø 3.5 mm	3932.00350	1/8"	3.5–3.0	0.1378–0.1181		 
Ø 4.0 mm	3932.00400	5/32"	4.0–3.5	0.1575–0.1378		 
Ø 4.5 mm	3932.00450	–	4.5–4.0	0.1772–0.1575		 
Ø 5.0 mm	3932.00500	3/16"	5.0–4.5	0.1969–0.1772		 
Ø 5.5 mm	3932.00550	7/32"	5.5–5.0	0.2165–0.1969		 
Ø 6.0 mm	3932.00600	–	6.0–5.5	0.2362–0.2165		 
Ø 6.5 mm	3932.00650	1/4"	6.5–6.0	0.2559–0.2362		 
Ø 7.0 mm	3932.00700	–	7.0–6.5	0.2756–0.2559		 
Ø 7.5 mm	3932.00750	9/32"	7.5–7.0	0.2953–0.2756		 
Ø 8.0 mm	3932.00800	5/16"	8.0–7.5	0.315–0.2953		 
Ø 8.5 mm	3932.00850	–	8.5–8.0	0.3346–0.315		 
Ø 9.0 mm	3932.00900	11/32"	9.0–8.5	0.3543–0.3346		 
Ø 9.5 mm	3932.00950	3/8"	9.5–9.0	0.374–0.3543		 
Ø 10.0 mm	3932.01000	–	10.0–9.5	0.3937–0.374		 
Ø 10.5 mm	3932.01050	13/32"	10.5–10.0	0.4134–0.3937		 
Ø 11.0 mm	3932.01100	–	11.0–10.5	0.4331–0.4134		 
Ø 11.5 mm	3932.01150	7/16"	11.5–11.0	0.4528–0.4331		 
Ø 12.0 mm	3932.01200	15/32"	12.0–11.5	0.4724–0.4528		 
Ø 12.5 mm	3932.01250	–	12.5–12.0	0.4921–0.4724		 
Ø 13.0 mm	3932.01300	1/2"	13.0–12.5	0.5118–0.4921		 
Ø 13.5 mm	3932.01350	17/32"	13.5–13.0	0.5315–0.5118		 
Ø 14.0 mm	3932.01400	–	14.0–13.5	0.5512–0.5315		 
Ø 14.5 mm	3932.01450	9/16"	14.5–14.0	0.5709–0.5512		 
Ø 15.0 mm	3932.01500	–	15.0–14.5	0.5905–0.5709		 
Ø 15.5 mm	3932.01550	19/32"	15.5–15.0	0.6102–0.5906		 
Ø 16.0 mm	3932.01600	5/8"	16.0–15.5	0.6299–0.6102		 
Ø 16.5 mm	3932.01650	–	16.5–16.0	0.6496–0.6299		 
Ø 17.0 mm	3932.01700	21/32"	17.0–16.5	0.6693–0.6496		 
Ø 17.5 mm	3932.01750	11/16"	17.5–17.0	0.689–0.6693		 
Ø 18.0 mm	3932.01800	–	18.0–17.5	0.7087–0.689		 
Ø 18.5 mm	3932.01850	23/32"	18.5–18.0	0.7283–0.7087		 
Ø 19.0 mm	3932.01900	3/4"	19.0–18.5	0.748–0.7283		
Ø 19.5 mm	3932.01950	–	19.5–19.0	0.7677–0.748		
Ø 20.0 mm	3932.02000	25/32"	20.0–19.5	0.7874–0.7677		
BLANK DS/ER 32	3932.09999	–	–	–	–	

Included in the DS/ER sets are all marked disks within that ER size and the matching disk try DSR

Sealing disks for ER

DS/ER

Type	Part no.	Tool diameter			Incl. in set	System
		Ø [inch]	[mm]	[decimal inch]		
DS/ER 40						
DS/ER 40 SET (46 pcs.)	3940.00000	–	3.0–26.0	0.1181–1.0236	–	
Ø 3.0 mm	3940.00300	3/32"	3.0–2.5	0.1181–0.0984	–	
Ø 3.5 mm	3940.00350	1/8"	3.5–3.0	0.1378–0.1181		
Ø 4.0 mm	3940.00400	5/32"	4.0–3.5	0.1575–0.1378		
Ø 4.5 mm	3940.00450	–	4.5–4.0	0.1772–0.1575		
Ø 5.0 mm	3940.00500	3/16"	5.0–4.5	0.1969–0.1772		
Ø 5.5 mm	3940.00550	7/32"	5.5–5.0	0.2165–0.1969		
Ø 6.0 mm	3940.00600	–	6.0–5.5	0.2362–0.2165		
Ø 6.5 mm	3940.00650	1/4"	6.5–6.0	0.2559–0.2362		
Ø 7.0 mm	3940.00700	–	7.0–6.5	0.2756–0.2559		
Ø 7.5 mm	3940.00750	9/32"	7.5–7.0	0.2953–0.2756		
Ø 8.0 mm	3940.00800	5/16"	8.0–7.5	0.315–0.2953		
Ø 8.5 mm	3940.00850	–	8.5–8.0	0.3347–0.315		
Ø 9.0 mm	3940.00900	11/32"	9.0–8.5	0.3543–0.3347		
Ø 9.5 mm	3940.00950	3/8"	9.5–9.0	0.374–0.3543		
Ø 10.0 mm	3940.01000	–	10.0–9.5	0.3937–0.374		
Ø 10.5 mm	3940.01050	13/32"	10.5–10.0	0.4134–0.3937		
Ø 11.0 mm	3940.01100	–	11.0–10.5	0.433–0.4134		
Ø 11.5 mm	3940.01150	7/16"	11.5–11.0	0.4528–0.433		
Ø 12.0 mm	3940.01200	15/32"	12.0–11.5	0.4724–0.4528		
Ø 12.5 mm	3940.01250	–	12.5–12.0	0.4921–0.4724		
Ø 13.0 mm	3940.01300	1/2"	13.0–12.5	0.5118–0.4921		
Ø 13.5 mm	3940.01350	17/32"	13.5–13.0	0.5315–0.5118		
Ø 14.0 mm	3940.01400	–	14.0–13.5	0.5512–0.5315		
Ø 14.5 mm	3940.01450	9/16"	14.5–14.0	0.5709–0.5512		
Ø 15.0 mm	3940.01500	–	15.0–14.5	0.5905–0.5709		
Ø 15.5 mm	3940.01550	19/32"	15.5–15.0	0.6102–0.5905		
Ø 16.0 mm	3940.01600	5/8"	16.0–15.5	0.6299–0.6102		
Ø 16.5 mm	3940.01650	–	16.5–16.0	0.6496–0.6299		
Ø 17.0 mm	3940.01700	21/32"	17.0–16.5	0.6693–0.6496		
Ø 17.5 mm	3940.01750	11/16"	17.5–17.0	0.689–0.6693		
Ø 18.0 mm	3940.01800	–	18.0–17.5	0.7087–0.689		
Ø 18.5 mm	3940.01850	23/32"	18.5–18.0	0.7283–0.7087		
Ø 19.0 mm	3940.01900	3/4"	19.0–18.5	0.748–0.7283		
Ø 19.5 mm	3940.01950	–	19.5–19.0	0.7677–0.748		
Ø 20.0 mm	3940.02000	23/32"	20.0–19.5	0.7874–0.7677		
Ø 20.5 mm	3940.02050	–	20.5–20.0	0.8071–0.7874		
Ø 21.0 mm	3940.02100	13/16"	21.0–20.5	0.8268–0.8071		
Ø 21.5 mm	3940.02150	25/32"	21.5–21.0	0.8465–0.8268		



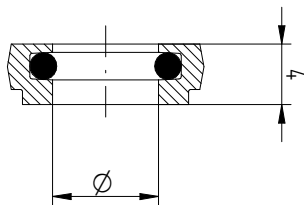
Type	Part no.	Tool diameter			Incl. in set	System
		Ø [inch]	[mm]	[decimal inch]		
Ø 22.0 mm	3940.02200	–	22.0–21.5	0.8661–0.8465	•	•
Ø 22.5 mm	3940.02250	7/8"	22.5–22.0	0.8858–0.8268	•	•
Ø 23.0 mm	3940.02300	29/32"	23.0–22.5	0.9055–0.8858	•	•
Ø 23.5 mm	3940.02350	–	23.5–23.0	0.9252–0.9055	•	•
Ø 24.0 mm	3940.02400	15/16"	24.0–23.5	0.9449–0.9252	•	•
Ø 24.5 mm	3940.02450	–	24.5–24.0	0.9646–0.9449	•	•
Ø 25.0 mm	3940.02500	31/32"	25.0–24.5	0.9843–0.9646	•	•
Ø 25.5 mm	3940.02550	1"	25.5–25.0	1.0039–0.9843	•	•
Ø 26.0 mm	3940.02600	–	26.0–25.5	1.0236–1.0039	•	•
BLANK DS/ER 40	3940.09999	–	–	–	–	•

Included in the DS/ER sets are all marked disks within that ER size and the matching disk try DSR

DS/ER 50

ADP ER 50–DS/ER 40*	3950.40000	–	3.0–26.0	0.1181–1.0236	–	•
Ø 22.0 mm	3950.02200	–	22.0–21.5	0.8661–0.8465	–	•
Ø 25.0 mm	3950.02500	–	25.0–24.5	0.9842–0.9645	–	•
Ø 28.0 mm	3950.02800	–	28.0–27.5	1.1023–1.0827	–	•
Ø 32.0 mm	3950.03200	–	32.0–31.5	1.2598–1.2402	–	•
Ø 36.0 mm	3950.03600	–	36.0–35.5	1.4173–1.3976	–	•

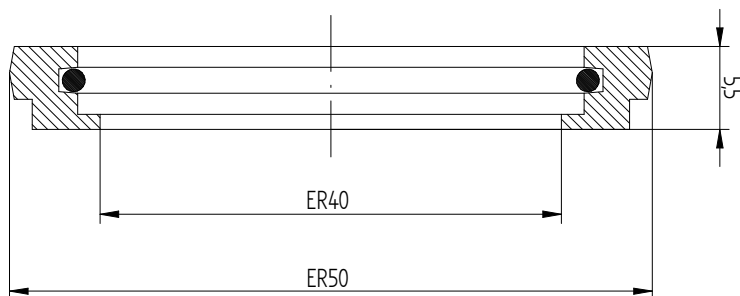
*The ADP ER 50–DS/ER 40 only works in combination with a sealing disk DS/ER 40. DS/ER 40 is not included in delivery



DS/ER

Expert advice

The BLANK DS/ER is used as machining blank for specific sizes or as sealing disk for double-sided driven tools.



ADP ER 50–DS/ER 40

Expert advice

The adapter ADP ER 50–DS/ER 40 allows the use of DS/ER-40 sealing disks in ER-50 clamping nuts.



Our solution for peripheral cooling

The design of our coolant flush disks leads the coolant along the edge of the cutting tool, providing you with an easy way to achieve peripheral cooling.

Key advantages

Swiss quality product

Universal use

For all REGO-FIX collets and coolant nuts with interchangeable disk.

Interchangeable

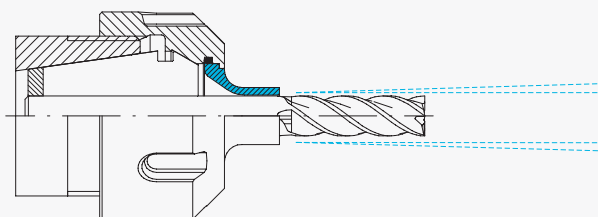
Quick change of coolant flush disks according to required tool shank diameter.

Peripheral cooling

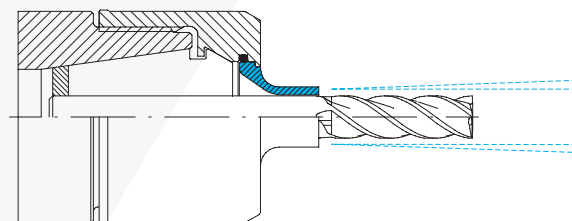
For better cooling and lubrication.
Extends tool life and supports chip removal.

Original REGO-FIX

Our long-lasting machining experience results in a well-engineered system. When buying ER coolant flush disks please pay attention to the REGO-FIX quality seal on the coolant flush disk: The triangle is our seal for outstanding quality made in Switzerland.



KS/ER

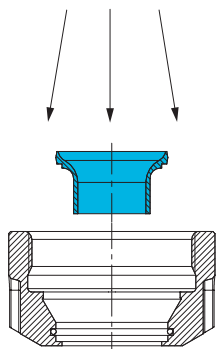


KS/MR

Coolant flush disks for ER/MR

KS/ER

KS/MR

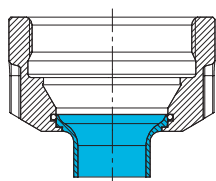


Assembling

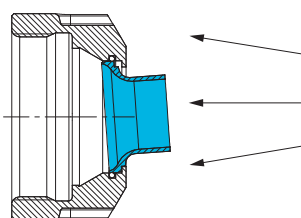
Assembling Insert the small diameter of the disk into the center of the coolant nut. Apply an even pressure until the disk is properly seated into the nut.

The disk must be flush with the outside of the nut and the marking on the disk must be visible inside of the nut.

Removing To remove the disk, simply press on the outside of the disk evenly until it snaps out.



Inserted KS/ER



Removing



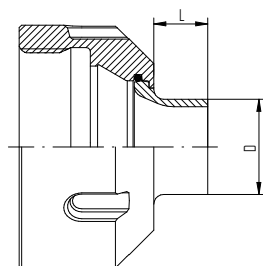
Coolant flush disks for ER/MR

KS/ER

DS/MR

Type	Part no.	Dimensions [mm]		Ø		System
		D	L	[mm]	[inch]	
KS/ER 11 [mm]/[inch]						
Ø 3.0 mm / 1/8"	3911.30318	5.6	5.5	3	1/8"	●
Ø 4.0 mm	3911.20400	6.4	5.5	4	–	●
Ø 5.0 mm / 3/16"	3911.20500	7.5	5.5	5	3/16"	●
Ø 6.0 mm / 1/4"	3911.30635	7.5	5.5	6	1/4"	●
BLANK KS/ER 11 Ø 7.5 x 8	3911.29999	7.5	8	–	–	●
KS/ER 16 [mm]						
Ø 3.0 mm	3916.20300	6.4	11	3	–	●●
Ø 4.0 mm	3916.20400	7.4	11	4	–	●●
Ø 5.0 mm	3916.20500	8.4	11	5	–	●●
Ø 6.0 mm	3916.20600	9.4	11	6	–	●●
Ø 7.0 mm	3916.20700	11	11	7	–	●●
Ø 8.0 mm	3916.20800	11	11	8	–	●●
Ø 9.0 mm	3916.20900	11	2	9	–	●●
Ø 10.0 mm	3916.21000	11	2	10	–	●●
BLANK KS/ER 16 Ø 11 x 12*	3916.29999	11	12	–	–	●●
KS/ER 16 [inch]						
Ø 1/8"	3916.30318	6.6	11	3.175	1/8"	●●
Ø 3/16"	3916.30476	8.2	11	4.763	3/16"	●●
Ø 1/4"	3916.30635	9.7	11	6.35	1/4"	●●
Ø 5/16"	3916.30794	11	11	7.938	5/16"	●●
Ø 3/8"	3916.30953	11	2	9.525	3/8"	●●
KS/ER 20 [mm]						
Ø 3.0 mm	3920.20300	6.4	11	3	–	●
Ø 4.0 mm	3920.20400	7.4	11	4	–	●
Ø 5.0 mm	3920.20500	8.4	11	5	–	●
Ø 6.0 mm	3920.20600	9.4	11	6	–	●
Ø 7.0 mm	3920.20700	10.4	11	7	–	●
Ø 8.0 mm	3920.20800	11.4	11	8	–	●
Ø 9.0 mm	3920.20900	12.4	11	9	–	●
Ø 10.0 mm	3920.21000	14	11	10	–	●
Ø 12.0 mm	3920.21200	14	3	12	–	●
BLANK KS/ER 20 Ø 14 x 12*	3920.29999	14	12	–	–	●

*Work material: 42CrMoS4 (1.7227)



KS/ER

Coolant flush disks for ER/MR

KS/ER

DS/MR

Type	Part no.	Dimensions [mm]		Ø		System
		D	L	[mm]	[inch]	
KS / ER 20 [inch]						
Ø 1/8"	3920.30318	6.6	11	3.175	1/8"	●
Ø 3/16"	3920.30476	8.2	11	4.763	3/16"	●
Ø 1/4"	3920.30635	9.7	11	6.35	1/4"	●
Ø 5/16"	3920.30794	11.3	11	7.983	5/16"	●
Ø 3/8"	3920.30953	14	11	9.525	3/8"	●
Ø 7/16"	3920.31111	14	11	11.113	7/16"	●
Ø 1/2"	3920.31270	14	3	12.7	1/2"	●

KS/ER 25 [mm]						
Ø 3.0 mm	3925.20300	6.4	11	3	–	• •
Ø 4.0 mm	3925.20400	7.4	11	4	–	• •
Ø 5.0 mm	3925.20500	8.4	11	5	–	• •
Ø 6.0 mm	3925.20600	9.4	11	6	–	• •
Ø 7.0 mm	3925.20700	10.4	11	7	–	• •
Ø 8.0 mm	3925.20800	11.4	11	8	–	• •
Ø 9.0 mm	3925.20900	12.4	11	9	–	• •
Ø 10.0 mm	3925.21000	13.4	11	10	–	• •
Ø 12.0 mm	3925.21200	15.4	11	12	–	• •
Ø 14.0 mm	3925.21400	17.4	11	14	–	• •
Ø 16.0 mm	3925.21600	19	11	16	–	• •
BLANK KS/ER 25 Ø 19 x 12*	3925.29999	19	12	–	–	• •

KS/ER 25 [inch]						
Ø 1/8"	3925.30318	6.6	11	3.175	1/8"	• •
Ø 3/16"	3925.30476	8.2	11	4.763	3/16"	• •
Ø 1/4"	3925.30635	9.7	11	6.35	1/4"	• •
Ø 5/16"	3925.30794	11.3	11	7.938	5/16"	• •
Ø 3/8"	3925.30953	12.9	11	9.525	3/8"	• •
Ø 7/16"	3925.31111	14.5	11	11.113	7/16"	• •
Ø 1/2"	3925.31270	16.1	11	12.7	1/2"	• •
Ø 9/16"	3925.31429	17.7	11	14.288	9/16"	• •
Ø 5/8"	3925.31588	19	11	15.875	5/8"	• •

*Work material: 42CrMoS4 (1.7227)



Coolant flush disks for ER/MR

KS/ER

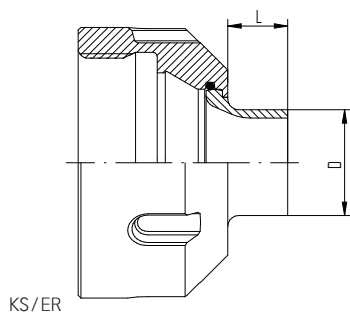
KS/MR

Type	Part no.	Dimensions [mm]		Ø		System
		D	L	[mm]	[inch]	
KS/ER 32 [mm]						
Ø 3.0 mm	3932.20300	6.4	11	3	–	 
Ø 4.0 mm	3932.20400	7.4	11	4	–	 
Ø 5.0 mm	3932.20500	8.4	11	5	–	 
Ø 6.0 mm	3932.20600	9.4	11	6	–	 
Ø 7.0 mm	3932.20700	10.4	11	7	–	 
Ø 8.0 mm	3932.20800	11.4	11	8	–	 
Ø 9.0 mm	3932.20900	12.4	11	9	–	 
Ø 10.0 mm	3932.21000	13.4	11	10	–	 
Ø 12.0 mm	3932.21200	15.4	11	12	–	 
Ø 14.0 mm	3932.21400	17.4	11	14	–	 
Ø 16.0 mm	3932.21600	19.4	11	16	–	 
Ø 18.0 mm	3932.21800	21.4	11	18	–	 
Ø 20.0 mm	3932.22000	24	11	20	–	 
BLANK KS/ER 32 Ø 24 x 12*	3932.29999	24	12	–	–	 

KS/ER 32 [inch]						
Ø 1/8"	3932.30318	6.6	11	3.175	1/8"	••
Ø 3/16"	3932.30476	8.2	11	4.763	3/16"	••
Ø 1/4"	3932.30635	9.7	11	6.35	1/4"	••
Ø 5/16"	3932.30794	11.3	11	7.938	5/16"	••
Ø 3/8"	3932.30953	12.9	11	9.525	3/8"	••
Ø 7/16"	3932.31111	14.5	11	11.113	7/16"	••
Ø 1/2"	3932.31270	16.1	11	12.7	1/2"	••
Ø 9/16"	3932.31429	17.7	11	14.288	9/16"	••
Ø 5/8"	3932.31588	19.3	11	15.875	5/8"	••
Ø 3/4"	3932.31905	24	11	19.05	3/4"	••

*Work material: 42CrMoS4 (1.7227).

KS/ER 40						
ADP ER 40 KS/ER 32	3940.32000	–	–	3-20	1/8" - 3/4"	•



Wrenches

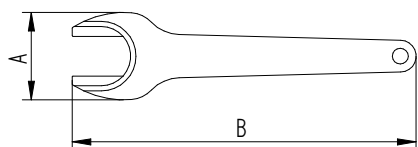
E MS

E AX

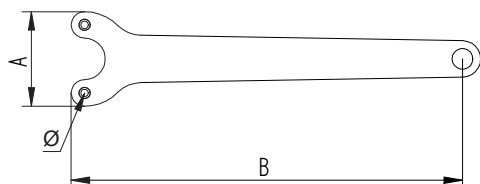
E A

Type	Part no.	A [mm]	B [mm]	Suited wrench for Hi-Q®			System
				ER MS	ERAX	ERAXC	
E MS							
E 8 MS	7114.08000	19	76	•	–	–	•
E 11 MS	7114.11000	22	100	•	–	–	•
E 16 MS	7114.16000	33	130	•	–	–	•
E 20 MS	7114.20000	42	140	•	–	–	•
E AX							
E 11 AX	7117.11000	16	108	–	•	–	•
E 16 AX	7117.16000	22	131	–	•	•	•
E 20 AX	7117.20000	26	148	–	•	•	•
E 25 AX	7117.25000	30	165	–	•	•	•
E 32 AX	7117.32000	37	196	–	•	•	•
E 40 AX	7117.40000	47	220	–	•	•	•
Ø [mm]							
E A							
E 11 A	7115.11000	18.6	96	–	–	–	3
E 16 A	7115.16000	25	108	–	–	–	3
E 20 A	7115.20000	28	123	–	–	–	3
E 25 A	7115.25000	30.5	139	–	–	–	4
E 32 A	7115.32000	42	182	–	–	–	4

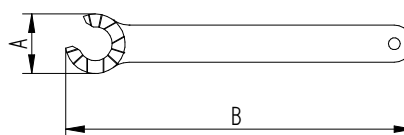
Ø [mm]



E MS



E A



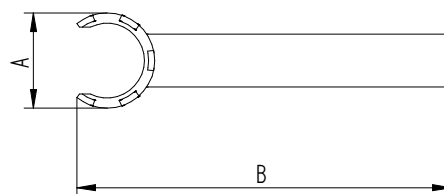
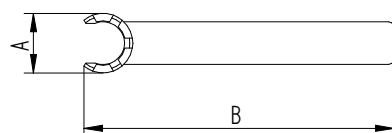
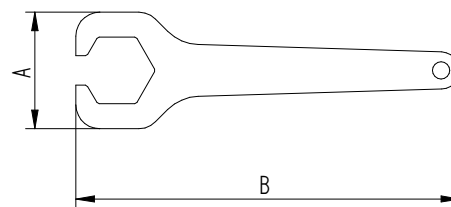
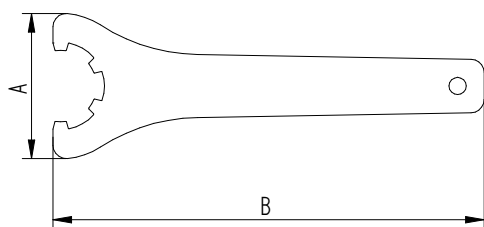
E AX



Wrenches

E
E P
E M
E MX

Type	Part no.	A [mm]	B [mm]	SW [mm]	Suited wrench for Hi-Q®							System
					ER	ERC	ERB	ERBC	ERMC	ERMX	ERMXC	
E												
E 16	7111.16000	55	163		—	—	—	—	—	—	—	●
E 20	7111.20000	60	183		—	—	—	—	—	—	—	●
E 25	7111.25000	70	203		●	●	●	●	—	—	—	●
E 32	7111.32000	80	253		●	●	●	●	—	—	—	●
E 40	7111.40000	96	283		●	●	●	●	—	—	—	●
E 50	7111.50000	111	350		●	—	●	—	—	—	—	●
E P												
E 11 P	7112.11010	32	95	19	●	●	—	—	—	—	—	●
E 16 P	7112.16010	44	145	28	●	●	●	●	—	—	—	●
E 20 P	7112.20010	52	170	34	●	●	●	●	—	—	—	●
E M												
E 8 M	7113.08000	12	74		—	—	—	—	—	—	—	●
E 11 M	7113.11000	17	95		—	—	—	—	●	—	—	●
E 16 M	7113.16000	22	117		—	—	—	—	●	—	—	●
E 20 M	7113.20000	29	129		—	—	—	—	●	—	—	●
E 25 M	7113.25000	36	141		—	—	—	—	●	—	—	●
E MX												
E 8 MX	7118.08000	12	74		—	—	—	—	—	●	—	●
E 11 MX	7118.11000	17	95		—	—	—	—	—	●	●	●
E 16 MX	7118.16000	22.5	117		—	—	—	—	—	●	●	●
E 20 MX	7118.20000	29	129		—	—	—	—	—	●	●	●
E 25 MX	7118.25000	36	141		—	—	—	—	—	●	●	●



Wrench heads

A-E

A-E P

A-E M

A-E MX

A-E MS

A-E AX

Type	Part no.	A [mm]	B [mm]	SW [mm]	
A-E					
A-E 16	7151.16000	55	62		•
A-E 20	7151.20000	60	62		•
A-E 25	7151.25000	70	72		•
A-E 32	7151.32000	80	72		•
A-E 40	7151.40000	96	82		•
A-E 50	7151.50000	111	94		•

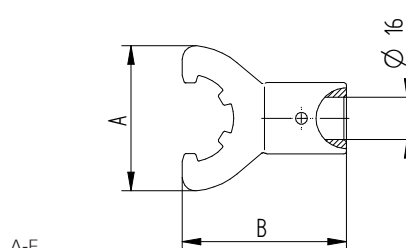
A-E P					
A-E 11 P	7152.11010	32	57	19	•
A-E 16 P	7152.16010	44	70	28	•
A-E 20 P	7152.20010	52	80	34	•

A-E M					
A-E 8 M	7153.08000	12	53		•
A-E 11 M	7153.11000	17	54		•
A-E 16 M	7153.16000	22	56		•
A-E 20 M	7153.20000	29	68		•
A-E 25 M	7153.25000	36	70		•

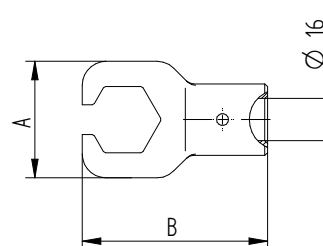
A-E MX					
A-E 8 MX	7158.08000	12	53		•
A-E 11 MX	7158.11000	17	54		•
A-E 16 MX	7158.16000	22	56		•
A-E 20 MX	7158.20000	29	68		•
A-E 25 MX	7158.25000	36	70		•

A-E MS					
A-E 8 MS	7154.08000	19	51		•
A-E 11 MS	7154.11000	22	57		•
A-E 16 MS	7154.16000	33	60		•
A-E 20 MS	7154.20000	42	73		•

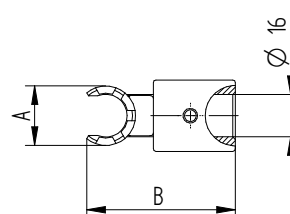
A-E AX					
A-E 11 AX	7157.11000	16	62		•
A-E 16 AX	7157.16000	22	63		•
A-E 20 AX	7157.20000	26	64		•
A-E 25 AX	7157.25000	29	93		•
A-E 32 AX	7157.32000	37	95		•
A-E 40 AX	7157.40000	47	99		•



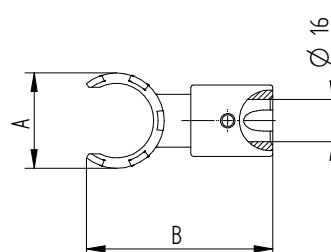
A-E



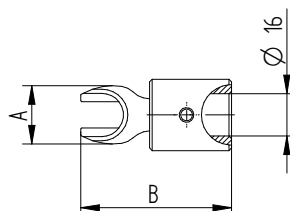
A-E P



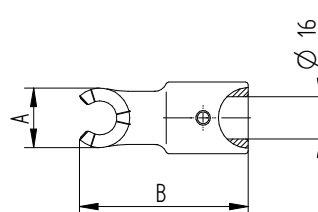
A-E M



A-E MX



A-E MS



A-E AX



Torque wrenches TORCO-FIX

Freewheel wrench heads A-FLS

Grip bar for wrench heads G-A

TORCO-FIX

A-FLS

G-A

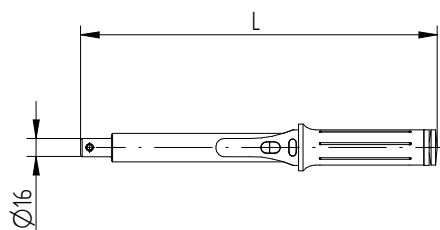
Type	Part no.	L1 [mm]	Range [Nm]	Range [ft-lbs]	System
TORCO-FIX					
TORCO-FIX 0	7150.02025	290	5–25	3.5–18	●●●
TORCO-FIX I	7150.05050	335	10–50	7.5–36.5	●●●
TORCO-FIX II	7150.20200	465	40–200	26.5–147	●●●●
TORCO-FIX III	7150.60300	565	60–300	44.5–221	●●●●

Type	Part no.	D [mm]	D1 [mm]	System
Freewheel wrench heads A-FLS				
A-FLS Ø 16/MR 11	7855.11000	16	34	●
A-FLS Ø 24/MRM 16	7855.16800	24	47	●
A-FLS Ø 28/MR 16/SG 15	7855.16000	28	47	●●
A-FLS Ø 40/MR 25	7855.25000	40	61	●
A-FLS Ø 46/SG 25	7655.25000	46	68	●
A-FLS Ø 50/MR 32	7855.32000	50	77	●
A-FLS Ø 55/SG 32	7655.32000	55	77	●

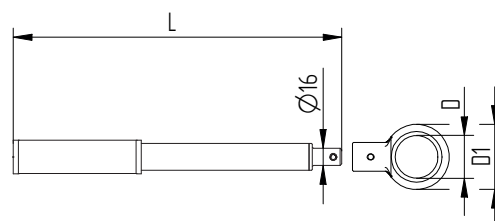
Type	Part no.	L1 [mm]	System
Grip bar for wrench heads G-A			
G-A	7655.99900	308	●●●
G-AS	7655.99500	120	●

Expert advice

Grip bar short G-AS is specially designed to be used with:
A-FLS Ø 16/MR 11
A-FLS Ø 24/MRM 16
A-FLS Ø 28/MR 16



TORCO-FIX



G-A/G-AS with A-FLS

Slip-off proof extension V-E AX for E AX and A-E AX

Slip-off proof extension V-E MX for E MX and A-E MX

Wrenches for universal shell / face mill holders FDS

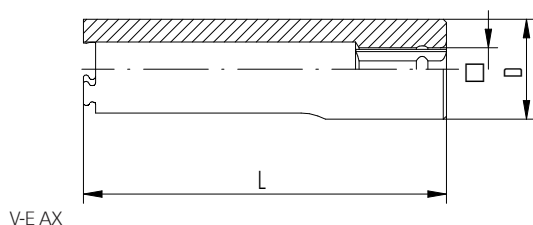
V-E AX

V-E MX

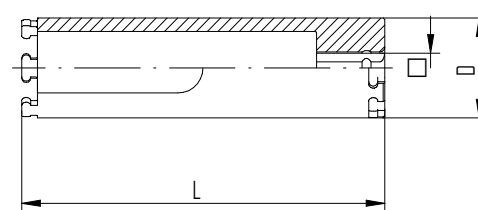
FDS

Type	Part no.	D [mm]	L [mm]	Square ☐		System
				[mm]	[inch]	
V-E AX						
V-E 11 AX	7155.11000	16.5	60	6.35	1/4"	
V-E 16 AX	7155.16000	22.5	80	6.35	1/4"	
V-E 20 AX	7155.20000	26	95	9.525	3/8"	
V-E 25 AX	7155.25000	29.5	105	12.7	1/2"	
V-E 32 AX	7155.32000	37.5	115	12.7	1/2"	

Type	Part no.	D [mm]	L [mm]	Square 		System
				[mm]	[inch]	
V-E MX						
V-E 8 MX	7159.08000	17	60	6.35	1/4"	
V-E 11 MX	7159.11000	17	60	6.35	1/4"	
V-E 16 MX	7159.16000	22.5	80	6.35	1/4"	
V-E 20 MX	7159.20000	29	95	12.7	1/2"	
V-E 25 MX	7159.25000	35	105	19.05	3/4"	

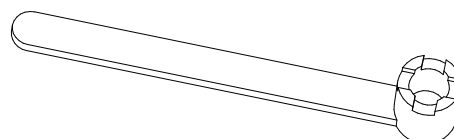


V-E AX



V-E MX

Type	Part no.	System
Wrenches FDS		
FDS 16	7711.16000	•
FDS 22	7711.22000	•
FDS 27	7711.27000	•
FDS 32	7711.32000	•
FDS 40	7711.40000	•
FDS 50	7711.50000	•



FDS

Toolholding fixtures

WMH
WA / SK
WA / HSK
WA / C

Type	Part no.	Fits this interface
Tool assembly WMH		
WMH-AC 45°	7813.00000	—
WMH-AC 90°	7813.00100	—

Tool adapter WA / SK		
WA / SK 30	7814.30100	BT / CAT / SK 30
WA / SK 40	7814.40100	BT / CAT / SK 40
WA / SK 50	7814.50100	BT / CAT / SK 50

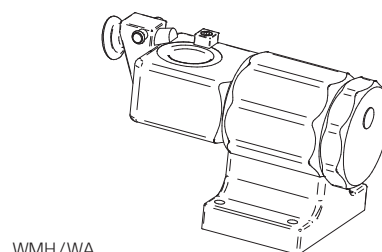
Tool adapter WA / HSK-A / C / E		
WA / HSK-A / C / E 25	7814.25300	HSK-A / C / E 25

Tool adapter WA / HSK-A		
WA / HSK-A 32	7814.32200	HSK-A 32
WA / HSK-A 40	7814.40200	HSK-A 40
WA / HSK-A 50	7814.50200	HSK-A 50
WA / HSK-A 63	7814.63200	HSK-A 63
WA / HSK-A 80	7814.80200	HSK-A 80
WA / HSK-A 100	7814.00200	HSK-A 100

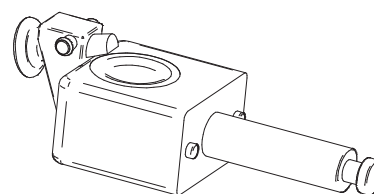
Tool adapter WA / HSK-C / E		
WA / HSK-C / E 32	7814.32500	HSK-C / E 32
WA / HSK-C / E 40	7814.40500	HSK-C / E 40
WA / HSK-C / E 50	7814.50500	HSK-C / E 50
WA / HSK-C / E 63	7814.63500	HSK-C / E 63

Tool adapter WA / HSK-B / D / F		
WA / HSK-B / D / F 63	7814.63400	HSK-B / D / F 63

Tool adapter WA / C		
WA / C3	7814.03700	CAPTO C3
WA / C4	7814.04700	CAPTO C4
WA / C5	7814.05700	CAPTO C5
WA / C6	7814.06700	CAPTO C6
WA / C8	7814.08700	CAPTO C8



WMH/WA



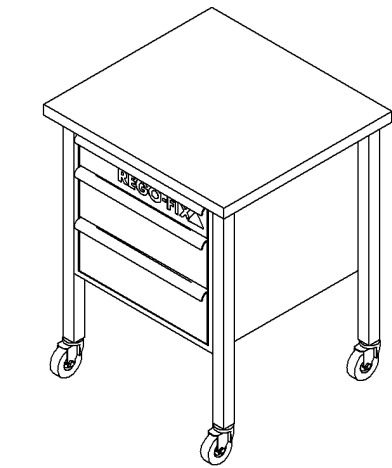
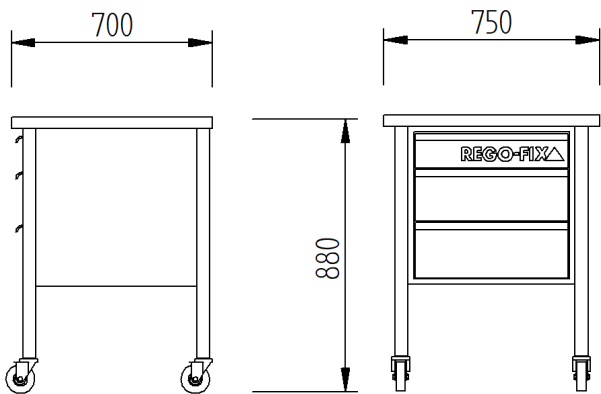
WA

Mobile workbench for PGU 9500

Description Mobile workbench for PGU 9500 with drawer-insert for APG and taper cleaner.

Type	Part no.	Width	Height	Depth
Mobile workbench for PGU 9500				
MWB	7688.00000	750 mm	880 mm	700 mm

Back panel on request



MWB

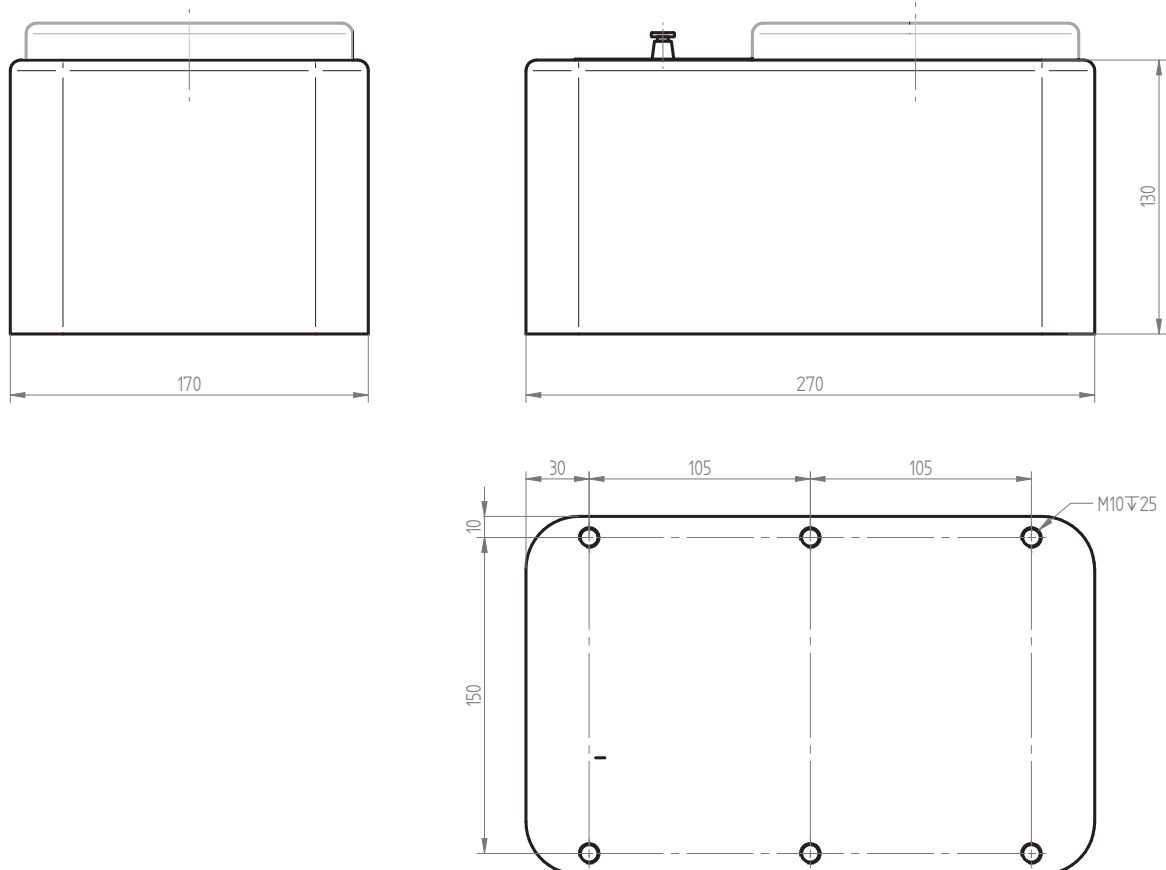


Achieve perfect torque with any wrench

TORCO-BLOCK The only tool assembly device in the market that is comfortable and safe to use with integrated torque measuring. Usability is given for all collet based systems and available for all standard machine interfaces.

TORCO-BLOCK provides

- // Use any wrench and still be able to correctly measure tightening torque
 - // Minimal effort for toolclamping needed
 - // Toolholder will not be overtorqued
 - // Correct tightening torque guaranteed, no bad runout due to overtorquing
 - // Quick-change function for different taper interfaces with only one 4 mm Allen-key within seconds
 - // Safe assembling of cutting tools
 - // Easy and quick toolholder and adapter handling
 - // Required footprint 170 x 270 mm
 - // Correct installation of pull studs with standard wrenches
 - // Full or overhang mounting on a workbench possible
 - // TORCO-BLOCK supplied inclusive 10 indicator rings TB / IR
- Unit needs a stable workbench to be attached to with at least four M10 screws.*



TORCO-BLOCK and components

Type	Part no.
Tool assembly with torque measurement	
TORCO-BLOCK	7815.00000
<i>Included in delivery: TORCO-BLOCK and 10 indicator ring set (no tool adapters)</i>	

Indicator ring set/ 10 rings	
SET TB/IR	7816.99999

Tool adapter for CAT spindle interfaces	
TB/BT 30 & CAT 30	7816.30100
TB/SK 40 & CAT 40	7816.40200
TB/CAT 50	7816.50300

Tool adapter for SK spindle interface	
TB/SK 30	7816.30200
TB/SK 40 & CAT 40	7816.40200
TB/SK 50	7816.50200

Tool adapter for BT spindle interface	
TB/BT 30 & CAT 30	7816.30100
TB/HSK 63 & C6 & BT 40	7816.63500
TB/HSK 100 & BT 50	7816.00500

Type	Part no.
Tool adapter for HSK & REGO-FIX CAPTO	
TB/HSK 25	7816.25500
TB/HSK 32 & C3	7816.32500
TB/HSK 40 & C4	7816.40500
TB/HSK 50 & C5	7816.50500
TB/HSK 63 & C6 & BT 40	7816.63500
TB/HSK 100 & BT 50	7816.00500

REGO-FIX CAPTO – licensed by Sandvik Coromant



Taper cleaner

The REGO-FIX Taper cleaning device is designed to clean toolholder interfaces from oil, emulsion and other impurities with interchangeable brush head canopies mounted on a base motor.

- // Maintain runout accuracy of cutting tool
- // Protect machine spindle
- // Maintain lasting precision of interface



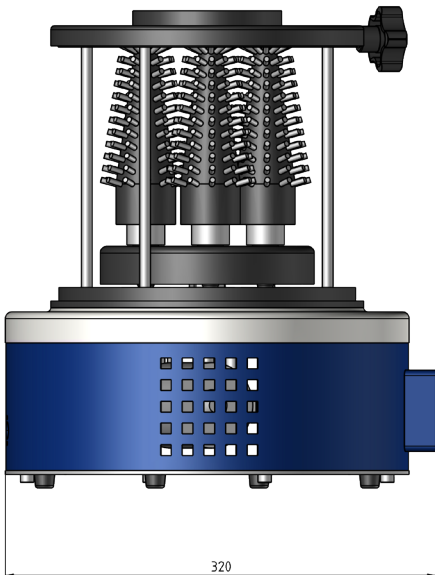
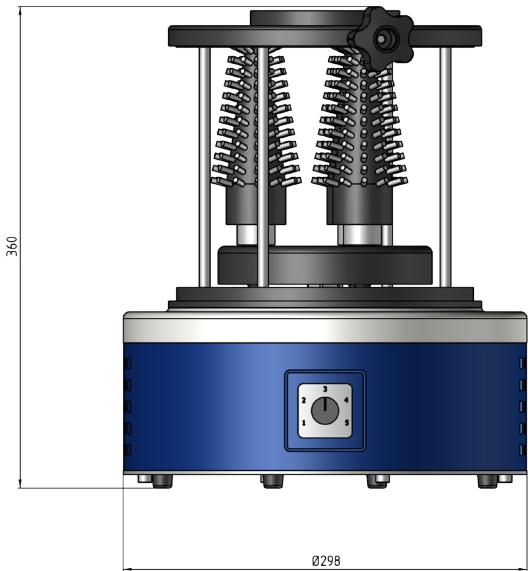
Cleaning Adapter



Base Unit

Type	Part no.
Taper Cleaning Device (Base Unit)	
TCD-BU	7821.00000
Cleaning Adapter (Brush Head)	
TCD / SK 30	7822.30100
TCD / SK 40	7822.40100
TCD / SK 50	7822.50100
TCD / HSK-A/C/E 40	7822.40300
TCD / HSK-A/C/E 63	7822.63300
TCD / HSK-A/C/E 100	7822.00300

Other cleaning adapters available on request



Coolant tubes KSR

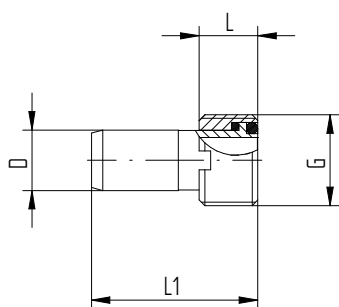
KSR

SKR

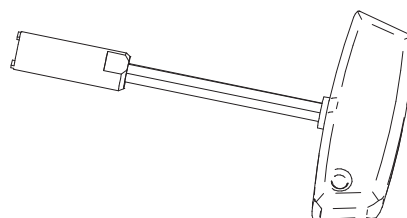
Wrenches for coolant tubes SKR

Type	Part no.	Dimensions [mm]			G	System
		D	L	L1		
Coolant tubes KSR						
KSR 25	7211.25000	5	4.5	17	M 8 x 1	
KSR 32	7211.32000	6	5.5	25.7	M 10 x 1	
KSR 40	7211.40000	8	7.5	29.2	M 12 x 1	
KSR 50	7211.50000	10	9.5	32.7	M 16 x 1	
KSR 63	7211.63000	12	11.5	36.2	M 18 x 1	
KSR 80	7211.80000	14	13.5	39.7	M 20 x 1.5	
KSR 100	7211.00000	16	15.5	43.6	M 24 x 1.5	
KSR 125	7211.12500	16	15.5	43.6	M 24 x 1.5	

Type	Part no.	System
Wrenches SKR		
SKR 25	7212.25000	● ● ● ●
SKR 32	7212.32000	● ● ● ●
SKR 40	7212.40000	● ● ● ●
SKR 50	7212.50000	● ● ● ●
SKR 63	7212.63000	● ● ● ●
SKR 80	7212.80000	● ● ● ●
SKR 100	7212.00000	● ● ● ●
SKR 125	7212.12500	● ● ● ●



KSR



SKR

Trays for ER collet sets ZWT

Trays for ER collet sets ZZT [inch]

Trays for sealing disk sets DSR

Trays for PG collets CTPG

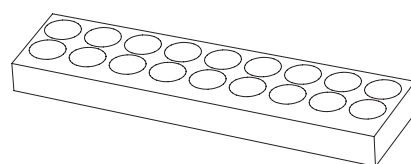
ZWT

ZZT

DSR

CTPG

Type	Part no.	fits ... items	System
Trays for ER collet sets ZWT			
ZWT 8	7121.08000	9	●
ZWT 11	7121.11000	13	● ●
ZWT 16	7121.16000	10	● ●
ZWT 20	7121.20000	12	●
ZWT 25	7121.25000	15	● ●
ZWT 32	7121.32000	18	● ●
ZWT 40	7121.40000	23	●
ZWT 50	7121.50000	12	●

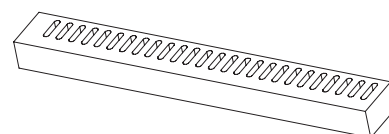


ZWT / ZZT

Trays for ER collet sets ZZT*			
ZZT 8	7121.08300	9	●
ZZT 11	7121.11300	13	● ●
ZZT 16	7121.16300	10	● ●
ZZT 20	7121.20300	12	●
ZZT 25	7121.25300	15	● ●
ZZT 32	7121.32300	18	● ●
ZZT 40	7121.40300	23	●

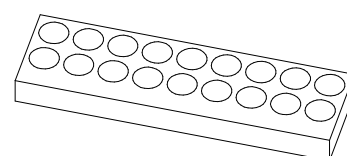
*USA only

Trays for sealing disk sets DSR			
DSR 16	7122.16000	14	● ●
DSR 20	7122.20000	20	●
DSR 25	7122.25000	26	● ●
DSR 32	7122.32000	34	● ●
DSR 40	7122.40000	46	●



DSR

Trays for PG collets CTPG			
CTPG 6	7698.06000	20	●
CTPG 10	7698.10000	14	●
CTPG 15	7698.15000	15	●
CTPG 25	7698.25000	16	●
CTPG 32	7698.32000	12	●



CTPG