



**KTA SPINDLE TOOLINGS**

(A Tool Holder Company since 1985)

**World's most preferred Indian Toolholding Company**



# Precision Hydraulic Expansion Chucks






**2022**



Precision At Its Best







## INDEX

Sr. No.	Contents		Page No.
1	<p><b>Precision Hydraulic Expansion Chucks BT (MAS 403) (DIN ISO 7388 - 2)</b></p> <ul style="list-style-type: none"> <li>• Technical Information</li> <li>• Heavy Duty</li> <li>• Standard Series</li> <li>• Short GP</li> <li>• Slim 3 Degree</li> <li>• Run Out Adjustment</li> <li>• Anti - Vibration (HC-AD/AV)</li> <li>• Face Mill Holder</li> </ul>		1 - 17
2	<p><b>Precision Hydraulic Expansion Chucks KBT (MAS 403) (DIN ISO 7388 - 2)</b></p> <ul style="list-style-type: none"> <li>• Technical Information</li> <li>• Heavy Duty</li> <li>• Standard Series</li> <li>• Short GP</li> <li>• Slim 3 Degree</li> <li>• Run Out Adjustment</li> <li>• Anti - Vibration (HC-AD/AV)</li> <li>• Face Mill Holder</li> </ul>		18 - 33
3	<p><b>Precision Hydraulic Expansion Chucks SK (DIN 69871) (DIN ISO 7388 - 1)</b></p> <ul style="list-style-type: none"> <li>• Technical Information</li> <li>• Heavy Duty</li> <li>• Standard Series</li> <li>• For Tool &amp; Cutter CNC Grinding Machine</li> <li>• Short GP</li> <li>• Slim 3 Degree</li> <li>• Run Out Adjustment</li> <li>• Anti - Vibration (HC-AD/AV)</li> <li>• Face Mill Holder</li> </ul>		34 - 46

## INDEX

Sr. No.	Contents		Page No.
<p style="text-align: center;">4</p>	<p style="text-align: center;"><b>Precision Hydraulic Expansion Chucks HSK Series</b></p> <ul style="list-style-type: none"> <li>• Technical Information HSK-A (DIN 69893-1)</li> <li>• HSK-A (DIN 69893-1) Heavy Duty</li> <li>• HSK-A (DIN 69893-1) Standard Series</li> <li>• Slim 3 Degree</li> <li>• Run Out Adjustment</li> <li>• Anti - Vibration (HC-AD/AV)</li> <li>• Face Mill Holder</li> <li>• Technical Information HSK-C (DIN 69893-1)</li> <li>• HSK-C (DIN 69893-1) Standard Series</li> <li>• Technical Information HSK-E (DIN 69893-5)</li> <li>• HSK-E (DIN 69893-1) Standard Series</li> <li>• Slim 3 Degree</li> <li>• Technical Information HSK-F (DIN 69893-6)</li> <li>• HSK-F (DIN 69893-1) Standard Series</li> </ul>		<p style="text-align: center;"><b>47 - 74</b></p>
<p style="text-align: center;">5</p>	<p style="text-align: center;"><b>Precision Hydraulic Expansion Chucks CAT (ANSI B 5.50)</b></p> <ul style="list-style-type: none"> <li>• Technical Information</li> <li>• Heavy Duty</li> <li>• Standard Series</li> <li>• Short GP</li> <li>• Slim 3 Degree</li> <li>• Run Out Adjustment</li> <li>• Anti - Vibration (HC-AD/AV)</li> <li>• Face Mill Holder</li> </ul>		<p style="text-align: center;"><b>75 - 88</b></p>

## INDEX

Sr. No.	Contents		Page No.
6	<p><b>Precision Hydraulic Expansion</b></p> <ul style="list-style-type: none"> <li>• Cylindrical Shank</li> <li>• VDI Shank</li> <li>• Flange Type</li> <li>• ER Type</li> </ul>		89 - 95
7	<p>Reduction Sleeve Seal (RS Seal)</p> <ul style="list-style-type: none"> <li>• For Hydraulic Expansion Chuck</li> <li>• Non pullout</li> </ul>		96 - 102
8	<p>Hydraulic Expansion Chuck Run Out Test Mandrells &amp; Accessories</p>		103
9	<p>Hydraulic Expansion Chuck KIT</p>		104
10	<p>Technical Information</p> <ul style="list-style-type: none"> <li>• Values</li> <li>• RS Seal</li> </ul>		105 - 108

### Declaration

The information in this catalogue is believed to be correct. KTA Spindle Toolings, however, assumes no responsibility for any errors, inaccuracies or omissions that may appear in this catalogue. Information in this catalogue is subject to change without notice and should not be taken as a commitment by KTA Spindle Toolings or its subsidiaries.

Proprietor  
KTA Spindle Toolings  
Hinjawadi, Pune (INDIA)





## ◇ Features:

- "KTA" Hydraulic Expansion Chuck is a very precision & high technology product
- Maintenance free design & easy to use, along with Reduction Sleeves (RS Seal).
- Best suitable for Drilling , Reaming & Milling Operations.
- Most Recommended for Die & Mould making industries & machining of precision automobile components, as well as in Aerospace Field.
- Hydraulic Expansion chuck in slim 3 degree design most suitable for machining of cavities difficult to reach.
- Anti-vibration hydraulic chucks designed with extended heavy metal core construction, helps to improve the surface finish & reduce vibration tendency.
- The tool runs true less than 5 micron on 3D / Max 50 mm, hence the tool life & machinability increases drastically. You can achieve the highest accuracy & Repeatability & High transferable Torque.
- Best operating temperature (20°C/40°C).

## ◇ Available in mountings:

### For Heavy Duty Series & Standard Series Hydraulic Expansion Chucks

- BT(MAS 403) (DIN ISO 7388 -2)
- KBT(MAS 403) (DIN ISO 7388-2) (Face & Tapper Contact)
- SK(DIN 69871) (DIN ISO 7388 -1)
- HSK - A (DIN 69893 -1)
- HSK - C (DIN 69893 -1)
- HSK - E (DIN 69893 -5)
- HSK - F (DIN 69893 -6)
- CAT (ANSI - B 5.50)
- Cylindrical Shank
- VDI Shank
- Flange Type
- ER Type

### For Slim 3 Degree Series Hydraulic Expansion Chucks

- BT(MAS 403) (DIN ISO 7388 -2)
- KBT(MAS 403) (DIN ISO 7388 -2)(Face & Tapper Contact)
- SK(DIN 69871) (DIN ISO 7388 -1)
- HSK - A (DIN 69893 -1)
- HSK - E (DIN 69893 -5)
- CAT (ANSI B 5.50)

## ◇ Capacity

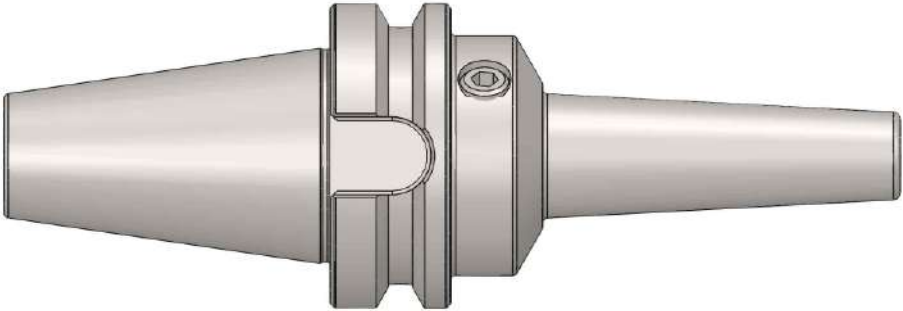
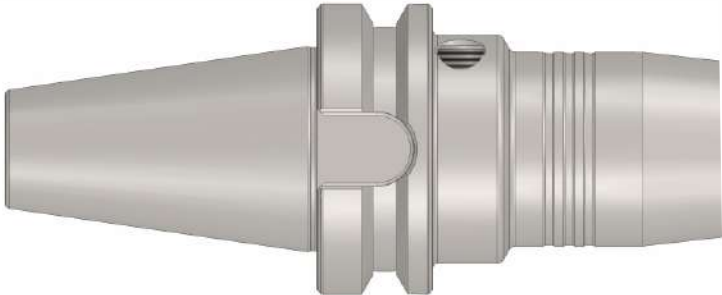
Heavy Duty - ● HC12S ● HC20S ● HC32S | HC 1/2"S ● HC 1/2"S ● HC 3/4"S ● HC 1-1/4"S  
Standard Series from Sizes: HC 06 to HC 32 | HC 1/2" to HC 1-1/4"  
Slim 3° series: HC03 slim 3° to HC20 slim 3° | HC 1/8" to HC 1-1/4"

## ◇ Balancing

- Balanced to 2.5G 25000 RPM



**BT - DIN ISO 7388 - 2  
(MAS 403)**

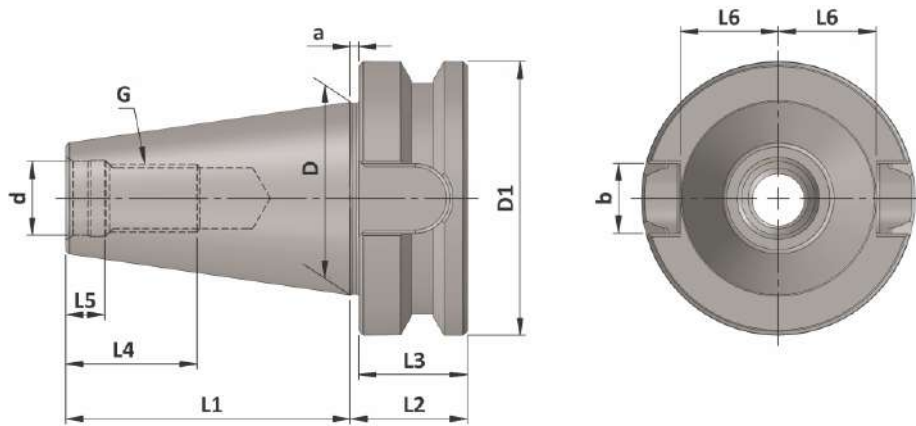




# BT (MAS 403) (DIN ISO 7388 - 2) Technical Information



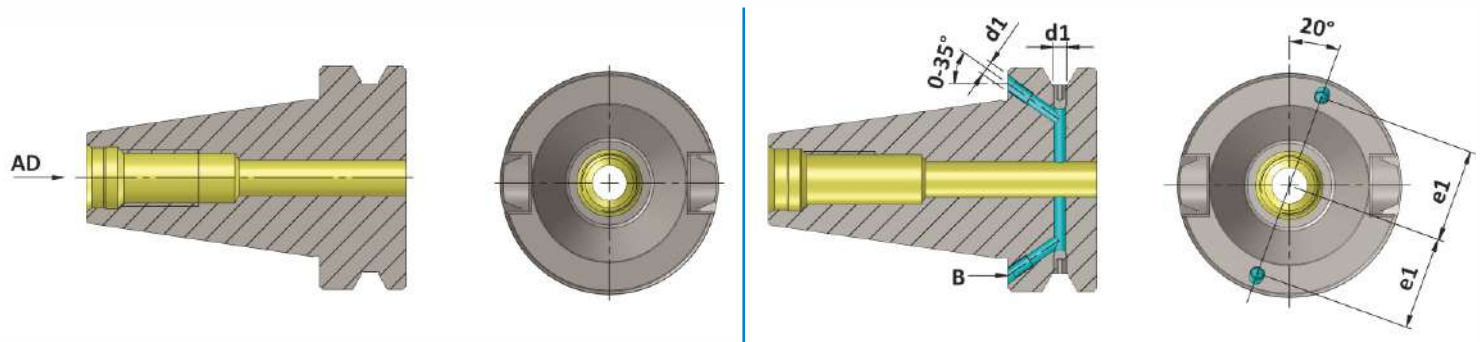
## BT (MAS 403) Form A



ISO	d	d1	D	D1	a	b	e1	G	L1	L2	L3	L4	L5	L6
30	12.5	-	31.75	46	2	16.1	-	M12	48.4	22	20	24	7.0	16.3
40	17	M4	44.45	63	2	16.1	27	M16	65.4	27	25	32	9.0	22.6
50	25	M6	69.85	100	3	25.7	42	M24	101.8	38	35	47	13.0	35.4

Old Name : BT (MAS 403) Form AD  
New Name : BT (MAS 403) DIN ISO7388 - 2 JD  
(Coolant Supply Through Center)

Old Name : BT (MAS 403) Form AD+B  
New Name : BT (MAS 403) DIN ISO7388 - 2 JD/JF  
(Coolant Supply Through Flange)

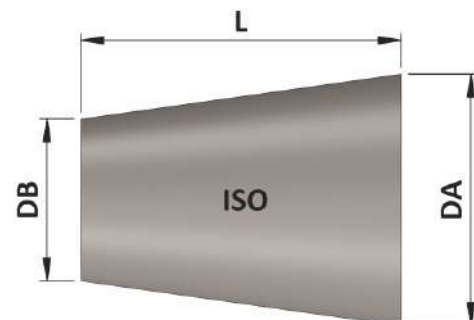


Material :- Case hardened steel, tensile strength in the core min. 950 N/mm<sup>2</sup>

Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish.

Accuracy :- 7:24 Taper Angle Class AT 3 As per DIN 2080

Taper Class AT 3 Details			
ISO	L	DA-DB	AT 3
30	42	12.280	+0.002
40	59	17.208	+0.003
50	92	26.833	+0.004

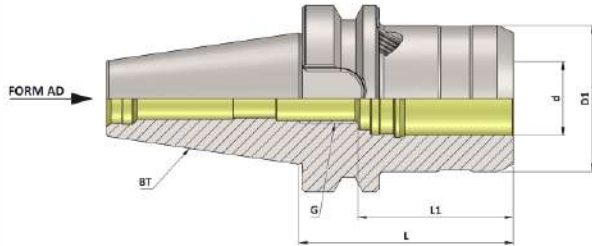


# BT (MAS 403) (DIN ISO 7388 - 2) Hydraulic Expansion Chuck

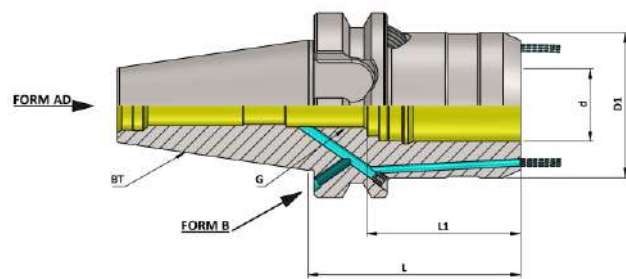


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

**HEAVY DUTY**



**BT (MAS 403) Hydraulic Expansion Chuck (AD)**



**BT (MAS 403) Hydraulic Expansion Chuck (FCC - AD+B)**

## BT (MAS 403) Hydraulic Expansion Chuck (AD) (JD)

(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	ISO	d	D1	G	L	L1
BT30 HC12S 069 AD/ 2.5G 25000 SL	K10101629616282	30	12	42	M10	69	40
BT30 HC20S 090 AD/ 2.5G 25000 SL	K10101168140282	30	20	50	M16	90	42
BT40 HC12S 058 AD/ 2.5G 25000 SL	K10102629617282	40	12	42	M10	58	40
BT40 HC20S 72.5 AD/ 2.5 G 25000 SL	K10102168126235	40	20	50	M16	72.5	42
BT50 HC12S 069 AD/ 2.5G 25000 SL	K10103629616282	50	12	42	M10	69	40
BT50 HC20S 083 AD/ 2.5G 25000 SL	K10103168618282	50	20	50	M16	83	42
BT50 HC32S 090 AD/ 2.5G 25000 SL	K10103272140282	50	32	72	M16	90	55
BT30 HC1/2"S 069 AD/ 2.5G 25000 SL	K10101953616282	30	1/2"	42	M10	69	40
BT30 HC3/4"S 090 AD/ 2.5G 25000 SL	K10101954140282	30	3/4"	50	M16	90	42
BT40 HC1/2"S 058 AD/ 2.5G 25000 SL	K10102953617282	40	1/2"	42	M10	58	40
BT40 HC3/4"S 72.5 AD/ 2.5G 25000 SL	K10102954126282	40	3/4"	50	M16	72.5	42
BT50 HC1/2"S 069 AD/ 2.5G 25000 SL	K10103953616282	50	1/2"	42	M10	69	40
BT50 HC3/4"S 083 AD/ 2.5G 25000 SL	K10103954618282	50	3/4"	50	M16	83	42
BT50 HC1-1/4"S 090 AD/ 2.5G 25000 SL	K10103955140282	50	1-1/4"	72	M16	90	55

## BT (MAS 403) Hydraulic Expansion Chuck (FCC - AD+B) (JD/JF)

(Balanced to 2.5 G 25000 RPM)

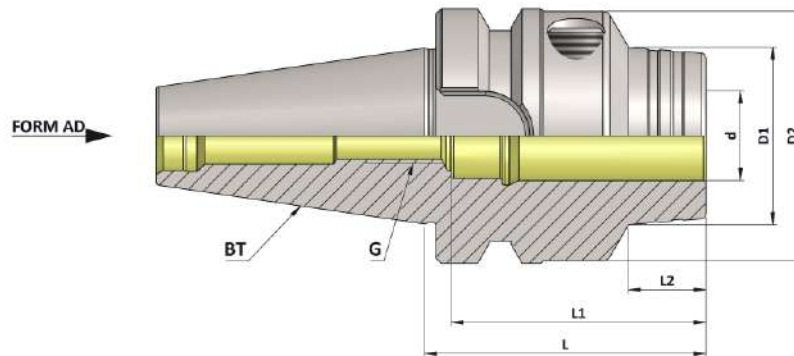
Item Name	Item Code	ISO	d	D1	G	L	L1
BT30 HC12S 069 FCC AD 2.5G 25000 SL	K10101629135227	30	12	42	M10	69	40
BT30 HC20S 090 FCC AD/2.5G 25000 SL	K10101168135129	30	20	50	M16	90	42
BT40 HC12S 058 FCC AD+B/2.5G 25000 SL	K10102629140230	40	12	42	M10	58	40
BT40 HC20S 72.5 FCC AD+B/2.5G 25000 SL	K10102168126140	40	20	50	M16	72.5	42
BT50 HC12S 069 FCC AD+B/2.5G 25000 SL	K10103629338255	50	12	42	M10	69	40
BT50 HC20S 083 FCC AD+B/2.5G 25000 SL	K10103168140140	50	20	50	M16	83	42
BT50 HC32S 090 FCC AD+B/2.5G 25000 SL	K10103272140140	50	32	72	M16	90	55

Note: All Dimensions are in mm

# BT (MAS 403) (DIN ISO 7388 - 2) (JD) Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## BT (MAS 403) Hydraulic Expansion Chuck (AD) (JD) (Balanced to 2.5 G 25000 RPM)

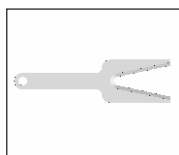
Item Name	Item Code	ISO	d	D1	D2	G	L	L1	L2
BT30 HC06 50.8 AD/ 2.5G 25000 SL	K10101642619282	30	6	26	45	M5	50.8	37	12
BT30 HC08 50.8 AD/ 2.5G 25000 SL	K10101643619282	30	8	28	45	M6	50.8	37	12.5
BT30 HC10 50.8 AD/ 2.5G 25000 SL	K10101644619282	30	10	30	45	M8	50.8	41	13
BT30 HC12 50.8 AD/ 2.5G 25000 SL	K10101636619282	30	12	32	45	M8	50.8	46	14
BT30 HC14 090 AD/ 2.5G 25000 SL	K10101645140282	30	14	34	45	M8	90	46	45
BT30 HC16 090 AD/ 2.5G 25000 SL	K10101646140282	30	16	38	45	M8	90	49	50
BT30 HC18 090 AD/ 2.5G 25000 SL	K10101647140282	30	18	40	45	M8	90	49	50
BT30 HC20 090 AD/ 2.5G 25000 SL	K10101637140277	30	20	42	45	M8	90	51	50

BT30 HC1/4" 50.8 AD/ 2.5G 25000 SL	K10101649619282	30	1/4"	26	45	M5	50.8	37	12
BT30 HC5/16" 50.8 AD/ 2.5G 25000 SL	K10101956619282	30	5/16"	28	45	M6	50.8	37	12.5
BT30 HC3/8" 50.8 AD/ 2.5G 25000 SL	K10101650619282	30	3/8"	30	45	M8	50.8	41	13
BT30 HC1/2" 50.8 AD/ 2.5G 25000 SL	K10101652619282	30	1/2"	32	45	M8	50.8	46	14
BT30 HC5/8" 090 AD/ 2.5G 25000 SL	K10101651140282	30	5/8"	38	45	M8	90	49	50
BT30 HC3/4" 090 AD/ 2.5G 25000 SL	K10101653140282	30	3/4"	42	45	M8	90	51	50

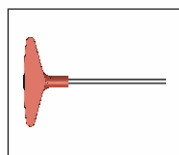
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



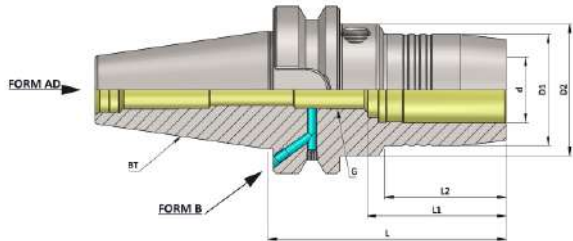
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# BT (MAS 403) (DIN ISO 7388 - 2) (JD/JF) Hydraulic Expansion Chuck

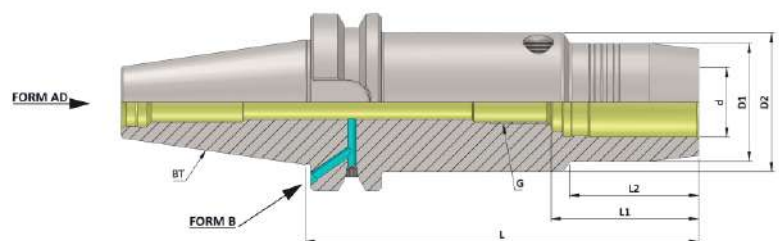


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**

**BT (MAS 403) Hydraulic Expansion Chuck (AD+B)**



**Long GP**

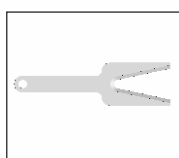
**BT (MAS 403) Hydraulic Expansion Chuck (AD+B)**

BT (MAS 403) Hydraulic Expansion Chuck (FCC-AD+B) (JD/JF)										(Balanced to 2.5 G 25000 RPM)
Item Name	Item Code	ISO	d	D1	D2	G	L	L1	L2	
BT40 HC06 090 AD+B/ 2.5G 25000 SL	K10102642140280	40	6	26	49.5	M5	90	37	29	
BT40 HC06 140 AD+B/ 2.5G 25000 SL	K10102642169280	40	6	26	49.5	M5	140	37	29	
BT40 HC08 090 AD+B/ 2.5G 25000 SL	K10102643140280	40	8	28	49.5	M6	90	37	30	
BT40 HC08 140 AD+B/ 2.5G 25000 SL	K10102643169280	40	8	28	49.5	M6	140	37	30	
BT40 HC10 090 AD+B/ 2.5G 25000 SL	K10102644140280	40	10	30	49.5	M8	90	41	35	
BT40 HC10 140 AD+B/ 2.5G 25000 SL	K10102644169280	40	10	30	49.5	M8	140	41	35	
BT40 HC12 090 AD+B/ 2.5G 25000 SL	K10102636140276	40	12	32	49.5	M10	90	46	40	
BT40 HC12 140 AD+B/ 2.5G 25000 SL	K10102636169276	40	12	32	49.5	M10	140	46	40	
BT40 HC14 090 AD+B/ 2.5G 25000 SL	K10102645140280	40	14	34	49.5	M10	90	46	40	
BT40 HC14 140 AD+B/ 2.5G 25000 SL	K10102645169280	40	14	34	49.5	M10	140	46	40	
BT40 HC16 090 AD+B/ 2.5G 25000 SL	K10102646140280	40	16	38	49.5	M12	90	49	45	
BT40 HC16 140 AD+B/ 2.5G 25000 SL	K10102646169280	40	16	38	49.5	M12	140	49	45	
BT40 HC18 090 AD+B/ 2.5G 25000 SL	K10102647140280	40	18	40	49.5	M12	90	49	46	
BT40 HC18 140 AD+B/ 2.5G 25000 SL	K10102647169280	40	18	40	49.5	M12	140	49	46	
BT40 HC20 090 AD+B/ 2.5G 25000 SL	K10102637140276	40	20	42	49.5	M16	90	51	47	
BT40 HC20 140 AD+B/ 2.5G 25000 SL	K10102637169276	40	20	42	49.5	M16	140	51	47	
BT40 HC25 090 AD+B/ 2.5G 25000 SL	K10102648140280	40	25	52	55	M16	90	57	50	
BT40 HC25 140 AD+B/ 2.5G 25000 SL	K10102648169280	40	25	52	55	M16	140	57	75	
BT40 HC32 090 AD+B/ 2.5G 25000 SL	K10102638140276	40	32	62	70	M16	90	61	25.5	
BT40 HC32 140 AD+B/ 2.5G 25000 SL	K10102638169276	40	32	59	63	M16	140	61	61	

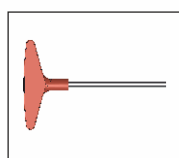
**Accessories:**



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



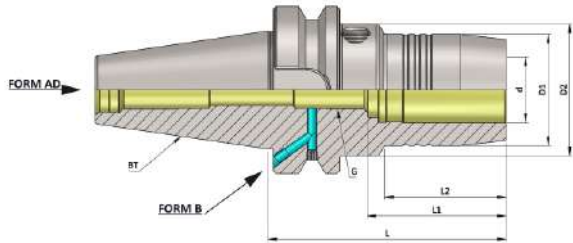
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

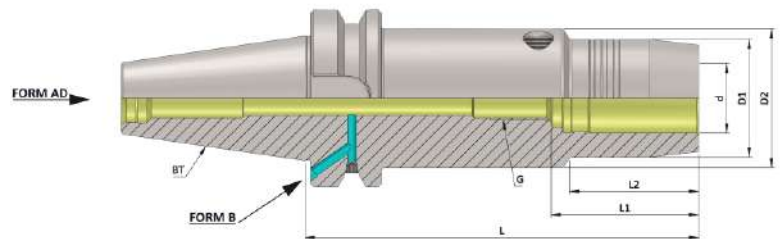
# BT (MAS 403) (DIN ISO 7388 - 2) (JD/JF) Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**  
**BT (MAS 403) Hydraulic Expansion Chuck (AD+B)**



**Long GP**  
**BT (MAS 403) Hydraulic Expansion Chuck (AD+B)**

## BT (MAS 403) Hydraulic Expansion Chuck (AD+B) (JD/JF)

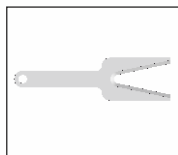
(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	ISO	d	D1	D2	G	L	L1	L2
BT40 HC1/4" - 90 AD+B/2.5G 25000 SL	K10102649628230	40	1/4"	26	49.5	M5	90	37	29
BT40 HC1/4" - 140 AD+B/2.5G 25000 SL	K10102649169230	40	1/4"	26	49.5	M5	140	37	29
BT40 HC5/16" - 090 AD+B/2.5G 25000 SL	K10102956917230	40	5/16"	28	49.5	M6	90	37	30
BT40 HC5/16" - 140 AD+B/2.5G 25000 SL	K10102956918230	40	5/16"	28	49.5	M6	140	37	30
BT40 HC3/8" - 90 AD+B/2.5G 25000 SL	K10102650628230	40	3/8"	30	49.5	M8	90	41	35
BT40 HC3/8" - 140 AD+B/2.5G 25000 SL	K10102650918230	40	3/8"	30	49.5	M8	140	41	35
BT40 HC1/2" - 90 AD+B/2.5G 25000 SL	K10102652628230	40	1/2"	32	49.5	M10	90	46	40
BT40 HC1/2" - 140 AD+B/2.5G 25000 SL	K10102652918230	40	1/2"	32	49.5	M10	140	46	40
BT40 HC5/8" - 90 AD+B/2.5G 25000 SL	K10102651628230	40	5/8"	38	49.5	M12	90	49	45
BT40 HC5/8" - 140 AD+B/2.5G 25000 SL	K10102651918230	40	5/8"	38	49.5	M12	140	49	45
BT40 HC3/4" - 90 AD+B/2.5G 25000 SL	K10102653628230	40	3/4"	42	49.5	M16	90	51	47
BT40 HC3/4" - 140 AD+B/2.5G 25000 SL	K10102653918230	40	3/4"	42	49.5	M16	140	51	47
BT40 HC1" - 090 AD+B/2.5G 25000 SL	K10102957140230	40	1"	52	55	M16	90	57	50
BT40 HC1" - 140 AD+B/2.5G 25000 SL	K10102957169230	40	1"	52	55	M16	140	57	75
BT40 HC1-1/4" - 090 AD+B/2.5G 25000 SL	K10102951917230	40	1-1/4"	62	70	M16	90	61	25.5
BT40 HC1-1/4" - 140 AD+B/2.5G 25000 SL	K10102951918230	40	1-1/4"	59	63	M16	140	61	61

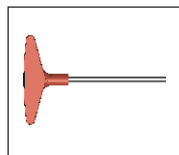
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



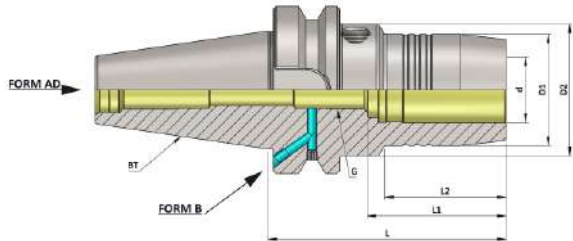
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

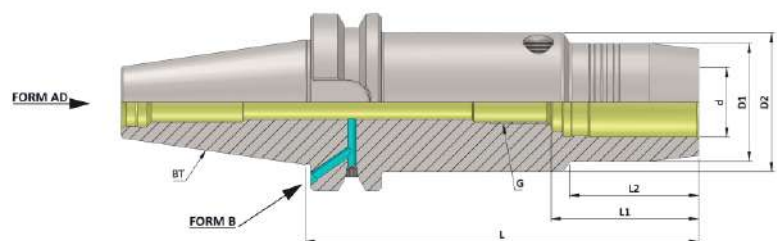
# BT (MAS 403) (DIN ISO 7388 - 2) (JD/JF) Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**  
**BT (MAS 403) Hydraulic Expansion Chuck (AD+B)**



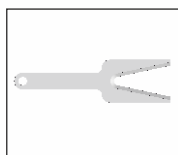
**Long GP**  
**BT (MAS 403) Hydraulic Expansion Chuck (AD+B)**

BT (MAS 403) Hydraulic Expansion Chuck (AD+B) (JD/JF)							(Balanced to 2.5 G 25000 RPM)			
Item Name	Item Code	ISO	d	D1	D2	G	L	L1	L2	
BT50 HC06 090 AD+B/ 2.5G 25000 SL	K10103642156280	50	6	26	49.5	M5	90	37	29	
BT50 HC06 140 AD+B/ 2.5G 25000 SL	K10103642169280	50	6	26	49.5	M5	140	37	29	
BT50 HC08 090 AD+B/ 2.5G 25000 SL	K10103643156280	50	8	28	49.5	M6	90	37	30	
BT50 HC08 140 AD+B/ 2.5G 25000 SL	K10103643169280	50	8	28	49.5	M6	140	37	30	
BT50 HC10 090 AD+B/ 2.5G 25000 SL	K10103644156280	50	10	30	49.5	M8	90	41	34	
BT50 HC10 140 AD+B/ 2.5G 25000 SL	K10103644169280	50	10	30	49.5	M8	140	41	35	
BT50 HC12 090 AD+B/ 2.5G 25000 SL	K10103636156276	50	12	32	49.5	M10	90	46	34	
BT50 HC12 140 AD+B/ 2.5G 25000 SL	K10103636169276	50	12	32	49.5	M10	140	46	40	
BT50 HC14 090 AD+B/ 2.5G 25000 SL	K10103645156280	50	14	34	49.5	M10	90	46	34	
BT50 HC14 140 AD+B/ 2.5G 25000 SL	K10103645169280	50	14	34	49.5	M10	140	46	40	
BT50 HC16 090 AD+B/ 2.5G 25000 SL	K10103646156280	50	16	38	49.5	M12	90	49	35	
BT50 HC16 140 AD+B/ 2.5G 25000 SL	K10103646169280	50	16	38	49.5	M12	140	49	45	
BT50 HC18 090 AD+B/ 2.5G 25000 SL	K10103647156280	50	18	40	49.5	M12	90	49	35	
BT50 HC18 140 AD+B/ 2.5G 25000 SL	K10103647169280	50	18	40	49.5	M12	140	49	46	
BT50 HC20 090 AD+B/ 2.5G 25000 SL	K10103637156276	50	20	42	49.5	M16	90	51	35	
BT50 HC20 140 AD+B/ 2.5G 25000 SL	K10103637169276	50	20	42	49.5	M16	140	51	42	
BT50 HC25 110 AD+B/ 2.5G 25000 SL	K10103648156280	50	25	55	63	M16	110	57	48	
BT50 HC25 140 AD+B/ 2.5G 25000 SL	K10103648169280	50	25	55	63	M16	140	57	48	
BT50 HC32 110 AD+B/ 2.5G 25000 SL	K10103638159276	50	32	63	70	M16	110	61	50	
BT50 HC32 140 AD+B/ 2.5G 25000 SL	K10103638169276	50	32	63	70	M16	140	61	50	

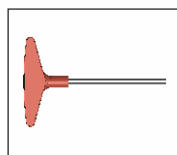
**Accessories:**



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



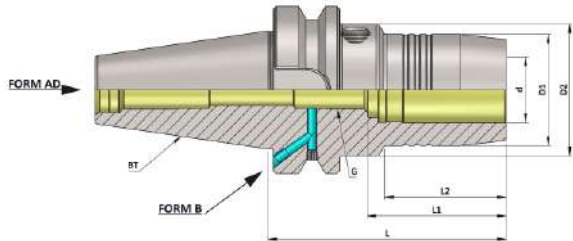
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# BT (MAS 403) (DIN ISO 7388 - 2) (JD/JF) Hydraulic Expansion Chuck

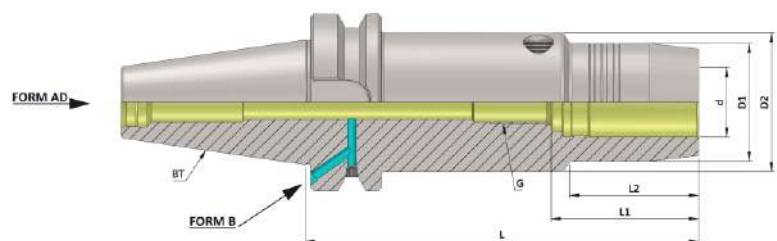


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**

**BT (MAS 403) Hydraulic Expansion Chuck (AD+B)**



**Long GP**

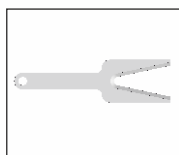
**BT (MAS 403) Hydraulic Expansion Chuck (AD+B)**

BT (MAS 403) Hydraulic Expansion Chuck (AD+B) (JD/JF)										(Balanced to 2.5 G 25000 RPM)
Item Name	Item Code	ISO	d	D1	D2	G	L	L1	L2	
BT50 HC1/4" - 090 AD+B/2.5G 25000 SL	K10103649917230	50	1/4"	26	49.5	M5	90	37	29	
BT50 HC1/4" - 140 AD+B/2.5G 25000 SL	K10103649918230	50	1/4"	26	49.5	M5	140	37	29	
BT50 HC5/16" - 090 AD+B/2.5G 25000 SL	K10103956917230	50	5/16"	28	49.5	M6	90	37	30	
BT50 HC5/16" - 140 AD+B/2.5G 25000 SL	K10103956918230	50	5/16"	28	49.5	M6	140	37	30	
BT50 HC3/8" - 090 AD+B/2.5G 25000 SL	K10103650917230	50	3/8"	30	49.5	M8	90	41	34	
BT50 HC3/8" - 140 AD+B/2.5G 25000 SL	K10103650918230	50	3/8"	30	49.5	M8	140	41	35	
BT50 HC1/2" - 090 AD+B/2.5G 25000 SL	K10103652917230	50	1/2"	32	49.5	M10	90	46	34	
BT50 HC1/2" - 140 AD+B/2.5G 25000 SL	K10103652918230	50	1/2"	32	49.5	M10	140	46	40	
BT50 HC5/8" - 090 AD+B/2.5G 25000 SL	K10103651917230	50	5/8"	38	49.5	M12	90	49	35	
BT50 HC5/8" - 140 AD+B/2.5G 25000 SL	K10103651918230	50	5/8"	38	49.5	M12	140	49	45	
BT50 HC3/4" - 090 AD+B/2.5G 25000 SL	K10103653917230	50	3/4"	42	49.5	M16	90	51	35	
BT50 HC3/4" - 140 AD+B/2.5G 25000 SL	K10103653918230	50	3/4"	42	49.5	M16	140	51	42	
BT50 HC1" - 110 AD+B/2.5G 25000 SL	K10103957917230	50	1"	55	63	M16	110	57	48	
BT50 HC1" - 140 AD+B/2.5G 25000 SL	K10103957918230	50	1"	55	63	M16	140	57	48	
BT50 HC1-1/4" - 110 AD+B/2.5G 25000 SL	K10103655917230	50	1-1/4"	63	70	M16	110	61	50	
BT50 HC1-1/4" - 140 AD+B/2.5G 25000 SL	K10103655918230	50	1-1/4"	63	70	M16	140	61	50	

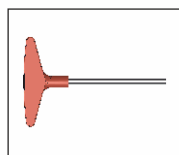
**Accessories:**



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



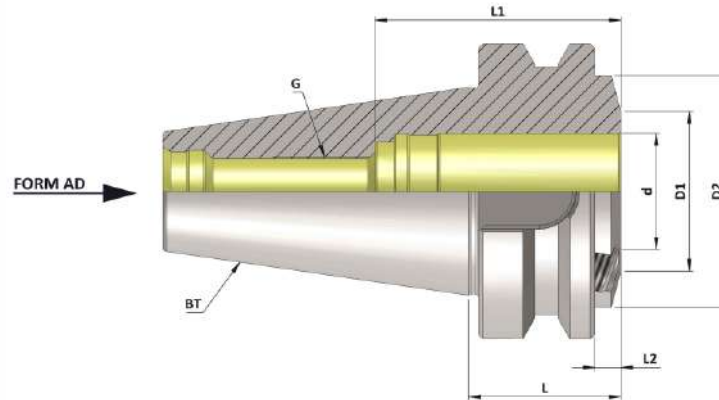
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# BT (MAS 403) (DIN ISO 7388 - 2) Short GP Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

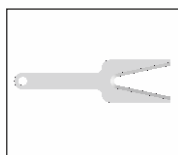


BT (MAS 403) Hydraulic Expansion Chuck (Short GP)							(Balanced to 2.5 G 25000 RPM)			
Item Name	Item Code	ISO	d	D1	D2	G	L	L1	L2	
BT40 HC20 32.50 SHORT G.P. 2.5G 25000 SL	K10102637615281	40	20	34	49.5	M16	32.5	51	5.50	
BT40 HC3/4" 32.50 SHORT G.P. AD/ 2.5G 25000 SL	K10102653615282	40	3/4"	34	49.5	M16	32.5	51	5.50	

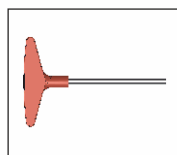
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



Key HC 5mm  
Ref. Page No. 103

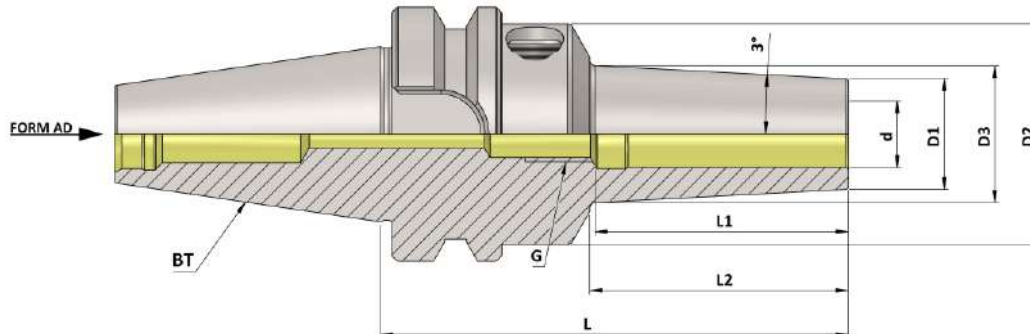
Note: All Dimensions are in mm



# BT (MAS 403) (DIN ISO 7388 - 2) (JD) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## BT (MAS 403) Hydraulic Expansion Chuck Slim 3 Degree (AD) (JD) (Balanced to 2.5 G 25000 RPM)

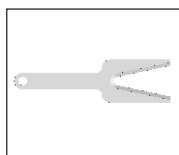
Item Name	Item Code	ISO	d	D1	D2	D3	G	L	L1	L2
BT30 HC03 085 SLIM AD/2.5G 25000 SL	K10101707135297	30	3	10	40	14.7160	M2.5	85	28	45
BT30 HC04 085 SLIM AD/2.5G 25000 SL	K10101708135297	30	4	12	40	16.7160	M2.5	85	28	45
BT30 HC05 085 SLIM AD/2.5G 25000 SL	K10101709135297	30	5	13	40	17.7160	M2.5	85	28	45
BT30 HC06 085 SLIM AD/2.5G 25000 SL	K10101642135297	30	6	14	40	18.8208	M5	85	37	46
BT30 HC08 085 SLIM AD/2.5G 25000 SL	K10101643135297	30	8	16	40	20.8208	M6	85	37	46
BT30 HC10 085 SLIM AD/2.5G 25000 SL	K10101644135297	30	10	18	40	22.9256	M8	85	41	47
BT30 HC12 085 SLIM AD/2.5G 25000 SL	K10101636135297	30	12	20	40	24.9256	M8	85	46	47
BT30 HC14 085 SLIM AD/2.5G 25000 SL	K10101645135297	30	14	24	40	28.9256	M8	85	46	47
BT30 HC16 085 SLIM AD/2.5G 25000 SL	K10101646135297	30	16	26	40	31.0304	M8	85	49	48
BT30 HC18 085 SLIM AD/2.5G 25000 SL	K10101647135297	30	18	28	40	33.0304	M8	85	49	48
BT30 HC20 085 SLIM AD/2.5G 25000 SL	K10101637135297	30	20	30	40	35.1352	M8	85	51	49

BT30 HC1/8" 085 SLIM AD/2.5G 25000 SL	K10101961135542	30	1/8"	10	40	14.7160	M2.5	85	28	45
BT30 HC3/16" 085 SLIM AD/2.5G 25000 SL	K10101962135542	30	3/16"	12	40	16.7160	M2.5	85	28	45
BT30 HC1/4" 085 SLIM AD/2.5G 25000 SL	K10101649135542	30	1/4"	14	40	18.8208	M5	85	37	46
BT30 HC5/16" 085 SLIM AD/2.5G 25000 SL	K10101956135542	30	5/16"	16	40	20.8208	M6	85	37	46
BT30 HC3/8" 085 SLIM AD/2.5G 25000 SL	K10101650135542	30	3/8"	18	40	22.9256	M8	85	41	47
BT30 HC1/2" 085 SLIM AD/2.5G 25000 SL	K10101652135542	30	1/2"	20	40	24.9256	M8	85	46	47
BT30 HC5/8" 085 SLIM AD/2.5G 25000 SL	K10101651135542	30	5/8"	26	40	31.0304	M8	85	49	48
BT30 HC3/4" 085 SLIM AD/2.5G 25000 SL	K10101653135542	30	3/4"	30	40	35.1352	M8	85	51	49

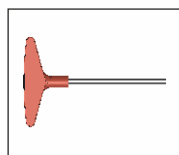
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



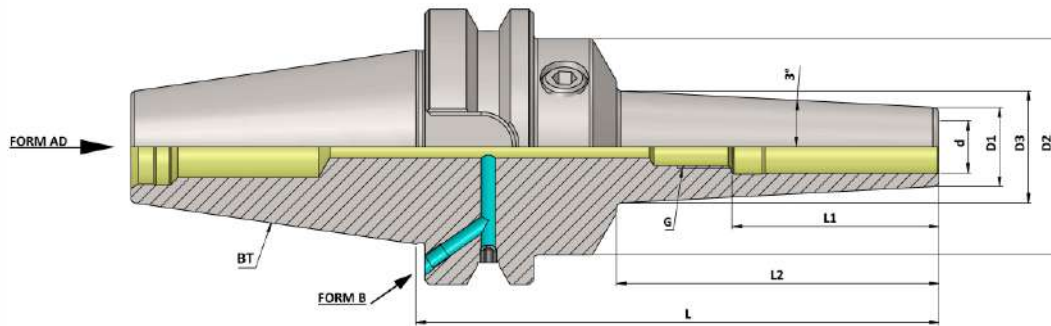
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# BT (MAS 403) (DIN ISO 7388 - 2) (JD/JF) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



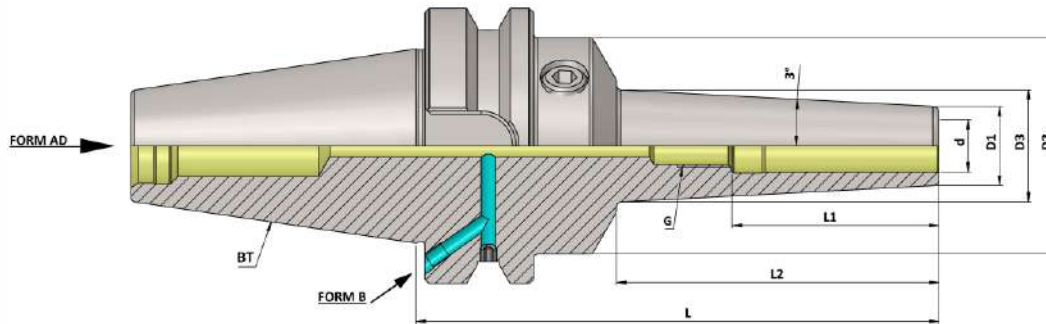
BT (MAS 403) Hydraulic Expansion Chuck Slim 3 Degree (AD+B) (JD/JF) (Balanced to 2.5 G 25000 RPM)											
Item Name	Item Code	ISO	d	D1	D2	D3	G	L	L1	L2	
BT40 HC03 120 SLIM AD+B/2.5G 25000 SL	K10102707162259	40	3	9	49.5	16.5456	M2.5	120	28	72	
BT40 HC03 160 SLIM AD+B/2.5G 25000 SL	K10102707175259	40	3	13	49.5	24.4232	M2.5	160	28	109	
BT40 HC03 200 SLIM AD+B/2.5G 25000 SL	K10102707239297	40	3	13	49.5	28.7200	M2.5	200	28	150	
BT40 HC04 120 SLIM AD+B/2.5G 25000 SL	K10102708162297	40	4	10	49.5	17.5456	M2.5	120	28	72	
BT40 HC04 160 SLIM AD+B/2.5G 25000 SL	K10102708175297	40	4	14	49.5	25.4232	M2.5	160	28	109	
BT40 HC04 200 SLIM AD+B/2.5G 25000 SL	K10102708239297	40	4	14	49.5	29.7200	M2.5	200	28	150	
BT40 HC05 120 SLIM AD+B/2.5G 25000 SL	K10102709162297	40	5	11	49.5	18.5456	M2.5	120	28	72	
BT40 HC05 160 SLIM AD+B/2.5G 25000 SL	K10102709175297	40	5	15	49.5	26.4232	M2.5	160	28	109	
BT40 HC05 200 SLIM AD+B/2.5G 25000 SL	K10102709239297	40	5	15	49.5	30.7200	M2.5	200	28	150	
BT40 HC06 120 SLIM AD+B/2.5G 25000 SL	K10102642162297	40	6	12	49.5	19.5456	M5	120	37	72	
BT40 HC06 160 SLIM AD+B/2.5G 25000 SL	K10102642175297	40	6	16	49.5	27.6328	M5	160	37	111	
BT40 HC06 200 SLIM AD+B/2.5G 25000 SL	K10102642239297	40	6	16	49.5	31.9296	M5	200	37	152	
BT40 HC08 120 SLIM AD+B/2.5G 25000 SL	K10102643162297	40	8	14	49.5	21.5456	M6	120	37	72	
BT40 HC08 160 SLIM AD+B/2.5G 25000 SL	K10102643175259	40	8	18	49.5	29.6328	M6	160	37	111	
BT40 HC08 200 SLIM AD+B/2.5G 25000 SL	K10102643239259	40	8	18	49.5	33.9296	M6	200	37	152	
BT40 HC10 120 SLIM AD+B/2.5G 25000 SL	K10102644162259	40	10	16	49.5	23.6504	M8	120	41	73	
BT40 HC10 160 SLIM AD+B/2.5G 25000 SL	K10102644175259	40	10	20	49.5	31.8424	M8	160	41	113	
BT40 HC10 200 SLIM AD+B/2.5G 25000 SL	K10102644239259	40	10	20	49.5	36.1392	M8	200	41	154	
BT40 HC12 120 SLIM AD+B/2.5G 25000 SL	K10102636162259	40	12	18	49.5	25.7552	M10	120	46	74	
BT40 HC12 160 SLIM AD+B/2.5G 25000 SL	K10102636175259	40	12	22	49.5	33.9472	M10	160	46	114	
BT40 HC12 200 SLIM AD+B/2.5G 25000 SL	K10102636239259	40	12	22	49.5	38.2440	M10	200	46	155	
BT40 HC14 120 SLIM AD+B/2.5G 25000 SL	K10102645162259	40	14	22	49.5	29.4408	M10	120	46	71	
BT40 HC14 160 SLIM AD+B/2.5G 25000 SL	K10102645175259	40	14	26	49.5	37.8424	M10	160	46	113	
BT40 HC14 200 SLIM AD+B/2.5G 25000 SL	K10102645239259	40	14	26	49.5	42.1392	M10	200	46	154	
BT40 HC16 120 SLIM AD+B/2.5G 25000 SL	K10102646162259	40	16	24	49.5	31.4408	M12	120	49	71	
BT40 HC16 160 SLIM AD+B/2.5G 25000 SL	K10102646175259	40	16	28	49.5	39.8424	M12	160	49	113	
BT40 HC16 200 SLIM AD+B/2.5G 25000 SL	K10102646239259	40	16	28	49.5	44.1392	M12	200	49	154	
BT40 HC18 120 SLIM AD+B/2.5G 25000 SL	K10102647162259	40	18	26	49.5	33.5456	M12	120	49	72	
BT40 HC18 160 SLIM AD+B/2.5G 25000 SL	K10102647175259	40	18	30	49.5	41.9472	M12	160	49	114	
BT40 HC18 200 SLIM AD+B/2.5G 25000 SL	K10102647239259	40	18	30	49.5	46.2440	M12	200	49	155	
BT40 HC20 120 SLIM AD+B/2.5G 25000 SL	K10102637162259	40	20	28	49.5	35.5456	M16	120	51	72	
BT40 HC20 160 SLIM AD+B/2.5G 25000 SL	K10102637175259	40	20	32	49.5	43.9472	M16	160	51	114	
BT40 HC20 200 SLIM AD+B/2.5G 25000 SL	K10102637239259	40	20	32	49.5	48.2440	M16	200	51	155	

Note: All Dimensions are in mm

# BT (MAS 403) (DIN ISO 7388 - 2) (JD/JF) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

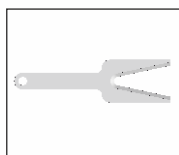


BT (MAS 403) Hydraulic Expansion Chuck Slim 3 Degree (AD+B) (JD/JF)											(Balanced to 2.5 G 25000 RPM)
Item Name	Item Code	ISO	d	D1	D2	D3	G	L	L1	L2	
BT40 HC1/8" 120 SLIM AD+B/2.5G 25000 SL	K10102961162259	40	1/8"	9	49.5	16.5456	M2.5	120	28	72	
BT40 HC1/8" 160 SLIM AD+B/2.5G 25000 SL	K10102961175259	40	1/8"	13	49.5	24.4232	M2.5	160	28	109	
BT40 HC1/8" 200 SLIM AD+B/2.5G 25000 SL	K10102961239259	40	1/8"	13	49.5	28.7200	M2.5	200	28	150	
BT40 HC3/16" 120 SLIM AD+B/2.5G 25000 SL	K10102962162259	40	3/16"	10	49.5	17.5456	M2.5	120	28	72	
BT40 HC3/16" 160 SLIM AD+B/2.5G 25000 SL	K10102962175259	40	3/16"	14	49.5	25.4232	M2.5	160	28	109	
BT40 HC3/16" 200 SLIM AD+B/2.5G 25000 SL	K10102962239259	40	3/16"	14	49.5	29.7200	M2.5	200	28	150	
BT40 HC1/4" 120 SLIM AD+B/2.5G 25000 SL	K10102649162259	40	1/4"	12	49.5	19.5456	M5	120	37	72	
BT40 HC1/4" 160 SLIM AD+B/2.5G 25000 SL	K10102649175259	40	1/4"	16	49.5	27.6328	M5	160	37	111	
BT40 HC1/4" 200 SLIM AD+B/2.5G 25000 SL	K10102649239259	40	1/4"	16	49.5	31.9296	M5	200	37	152	
BT40 HC5/16" 120 SLIM AD+B/2.5G 25000 SL	K10102956162259	40	5/16"	14	49.5	21.5456	M6	120	37	72	
BT40 HC5/16" 160 SLIM AD+B/2.5G 25000 SL	K10102956175259	40	5/16"	18	49.5	29.6328	M6	160	37	111	
BT40 HC5/16" 200 SLIM AD+B/2.5G 25000 SL	K10102956239259	40	5/16"	18	49.5	33.9296	M6	200	37	152	
BT40 HC3/8" 120 SLIM AD+B/2.5G 25000 SL	K10102650162259	40	3/8"	16	49.5	23.6504	M8	120	41	73	
BT40 HC3/8" 160 SLIM AD+B/2.5G 25000 SL	K10102650175259	40	3/8"	20	49.5	31.8424	M8	160	41	113	
BT40 HC3/8" 200 SLIM AD+B/2.5G 25000 SL	K10102650239259	40	3/8"	20	49.5	36.1392	M8	200	41	154	
BT40 HC1/2" 120 SLIM AD+B/2.5G 25000 SL	K10102652162259	40	1/2"	18	49.5	25.7552	M10	120	46	74	
BT40 HC1/2" 160 SLIM AD+B/2.5G 25000 SL	K10102652175259	40	1/2"	22	49.5	33.9472	M10	160	46	114	
BT40 HC1/2" 200 SLIM AD+B/2.5G 25000 SL	K10102652239259	40	1/2"	22	49.5	38.2440	M10	200	46	155	
BT40 HC5/8" 120 SLIM AD+B/2.5G 25000 SL	K10102651162259	40	5/8"	24	49.5	31.4408	M12	120	49	71	
BT40 HC5/8" 160 SLIM AD+B/2.5G 25000 SL	K10102651175259	40	5/8"	28	49.5	39.8424	M12	160	49	113	
BT40 HC5/8" 200 SLIM AD+B/2.5G 25000 SL	K10102651239259	40	5/8"	28	49.5	44.1392	M12	200	49	154	
BT40 HC3/4" 120 SLIM AD+B/2.5G 25000 SL	K10102653162259	40	3/4"	28	49.5	35.5456	M16	120	51	72	
BT40 HC3/4" 160 SLIM AD+B/2.5G 25000 SL	K10102653175259	40	3/4"	32	49.5	43.9472	M16	160	51	114	
BT40 HC3/4" 200 SLIM AD+B/2.5G 25000 SL	K10102653239259	40	3/4"	32	49.5	48.2440	M16	200	51	155	

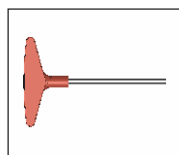
Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



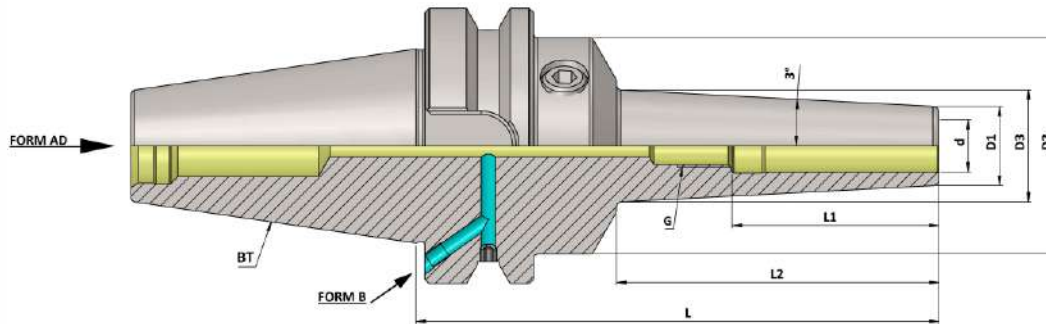
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# BT (MAS 403) (DIN ISO 7388 - 2) (JD/JF) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## BT (MAS 403) Hydraulic Expansion Chuck Slim 3 Degree (AD+B) (JD/JF) (Balanced to 2.5 G 25000 RPM)

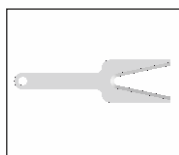
Item Name	Item Code	ISO	d	D1	D2	D3	G	L	L1	L2
BT50 HC06 120 SLIM AD+B/2.5G 25000 SL	K10103642162259	50	6	12	49.5	18.3928	M5	120	37	61
BT50 HC08 120 SLIM AD+B/2.5G 25000 SL	K10103643162259	50	8	14	49.5	20.3928	M6	120	37	61
BT50 HC10 120 SLIM AD+B/2.5G 25000 SL	K10103644162259	50	10	16	49.5	22.4976	M8	120	41	62
BT50 HC12 120 SLIM AD+B/2.5G 25000 SL	K10103636162259	50	12	18	49.5	24.6024	M10	120	46	63
BT50 HC14 120 SLIM AD+B/2.5G 25000 SL	K10103645162259	50	14	22	49.5	28.288	M10	120	46	60
BT50 HC16 120 SLIM AD+B/2.5G 25000 SL	K10103646162259	50	16	24	49.5	30.288	M12	120	49	60
BT50 HC18 120 SLIM AD+B/2.5G 25000 SL	K10103647162259	50	18	26	49.5	32.3928	M12	120	49	61
BT50 HC20 120 SLIM AD+B/2.5G 25000 SL	K10103637162259	50	20	28	49.5	34.3928	M16	120	51	61

BT50 HC1/4" 120 SLIM AD+B/2.5G 25000 SL	K10103649162259	50	1/4"	12	49.5	18.3928	M5	120	37	61
BT50 HC5/16" 120 SLIM AD+B/2.5G 25000 SL	K10103956162259	50	5/16"	14	49.5	20.3928	M6	120	37	61
BT50 HC3/8" 120 SLIM AD+B/2.5G 25000 SL	K10103650162259	50	3/8"	16	49.5	22.4976	M8	120	41	62
BT50 HC1/2" 120 SLIM AD+B/2.5G 25000 SL	K10103652162259	50	1/2"	18	49.5	24.6024	M10	120	46	63
BT50 HC5/8" 120 SLIM AD+B/2.5G 25000 SL	K10103651162259	50	5/8"	24	49.5	30.288	M12	120	49	60
BT50 HC3/4" 120 SLIM AD+B/2.5G 25000 SL	K10103653162259	50	3/4"	28	49.5	34.3928	M16	120	51	61

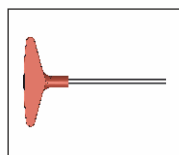
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



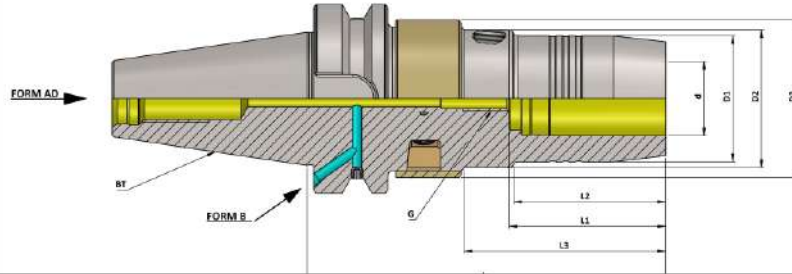
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# BT (MAS 403) (DIN ISO 7388-2) Hydraulic Expansion Chuck With Run Out Adjustment



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## BT (MAS 403) Hydraulic Expansion Chuck Run Out Adjustment

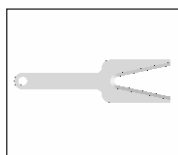
(Balanced to 2.5 G 25000 RPM)

ITEM NAME	ITEM CODE	ISO	d	D1	D2	D3	G	L	L1	L2	L3
BT40 HC20 120 AD+B/RD 2.5G 25000 SL	K10102637162534	40	20	42	46	52.5	M8	120	51	50	67.5
Bt40 HC32 140 AD+B/RD 2.5G 25000 SL	K10102638169534	40	32	42	46	52.5	M8	140	51	50	67.5
BT40 HC3/4" 120 AD+B/RD 2.5G 25000 SL	K10102653162534	40	3/4"	42	46	52.5	M8	120	51	50	67.5
BT40 HC1-1/4" 140 AD+B/RD 2.5G 25000 SL	K10102655169534	40	1-1/4"	42	46	52.5	M8	140	51	50	67.5
BT50 HC20 130 AD+B/RD 2.5G 25000 SL	K10103637165534	50	20	42	46	52.5	M8	130	51	50	67.5
BT50 HC32 150 AD+B/RD 2.5G 25000 SL	K10103638173534	50	32	42	46	52.5	M8	150	51	50	67.5
BT50 HC3/4" 130 AD+B/RD 2.5G 25000 SL	K10103653165534	50	3/4"	42	46	52.5	M8	130	51	50	67.5
BT50 HC1-1/4" 150 AD+B/RD 2.5G 25000 SL	K10103655173534	50	1-1/4"	42	46	52.5	M8	150	51	50	67.5

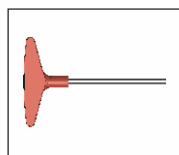
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



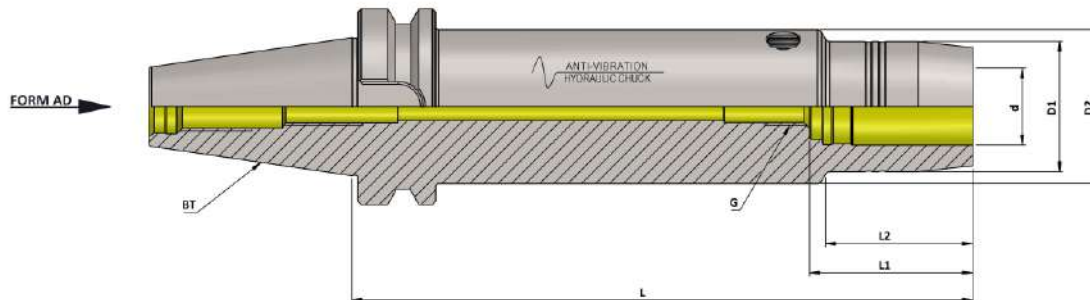
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# BT (MAS 403) (DIN ISO 7388-2) Hydraulic Expansion Chuck Anti - Vibration (HC-AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



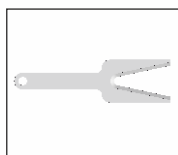
## BT (MAS 403) Hydraulic Expansion Chuck Anti - Vibration

ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1	L2
BT40 HC20 200 AD/AV	K10102637239535	40	20	42	49.5	M16	200	51	47
BT40 HC20 250 AD/AV	K10102637182539	40	20	42	49.5	M16	250	51	47
BT40 HC20 300 AD/AV	K10102637183535	40	20	42	49.5	M16	300	51	47
BT50 HC20 200 AD/AV	K10103637239535	50	20	42	49.5	M16	200	51	42
BT50 HC20 250 AD/AV	K10103637182539	50	20	42	49.5	M16	250	51	42
BT50 HC20 300 AD/AV	K10103637183535	50	20	42	49.5	M16	300	51	42
BT50 HC20 350 AD/AV	K10103637184539	50	20	42	49.5	M16	350	51	42
BT50 HC20 400 AD/AV	K10103637540535	50	20	42	49.5	M16	400	51	42

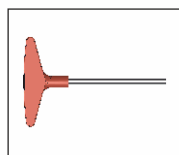
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103

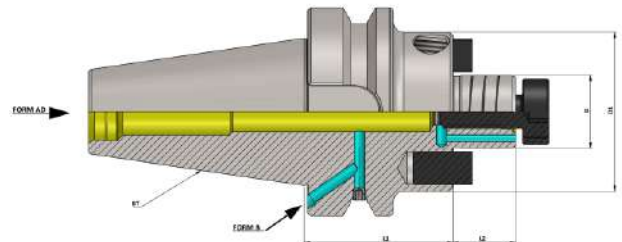
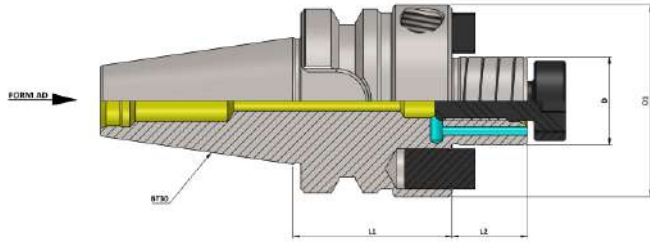


Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# BT (MAS 403) (DIN ISO 7388-2) Hydraulic Expansion Face Mill Holder (HC-FMH-K)

Maximum Run out of the External Dia with respect to the External Taper 0.003 mm

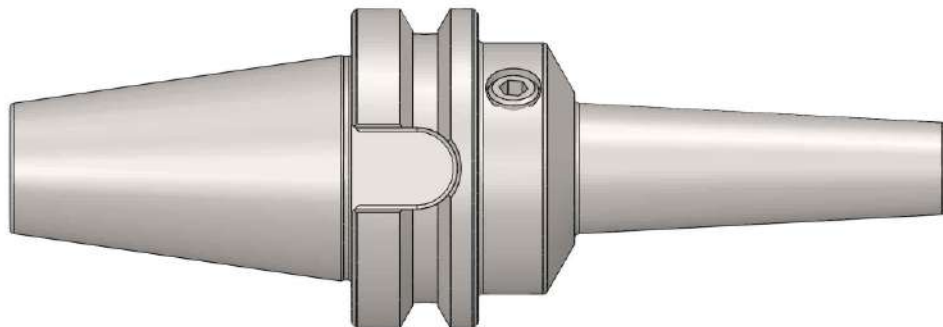


## BT (MAS 403) Hydraulic Expansion Face Mill Holder (HC-FMH-K)

(Balanced to 2.5 G 25000 RPM)

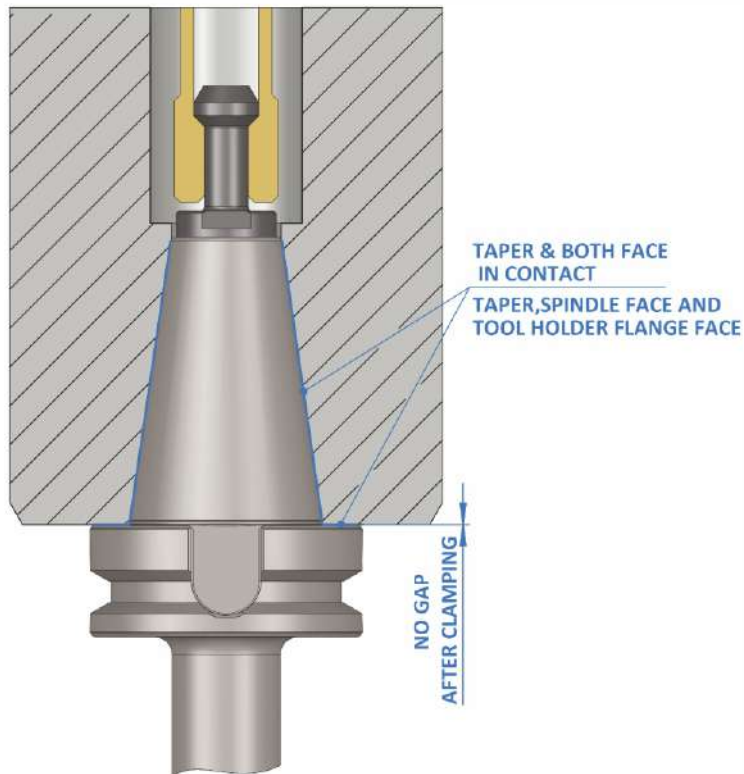
Item Name	Item Code	ISO	D	D1	L1	L2
BT30 HC FMH-K22 040 AD 2.5G 25000 SL	K10101932106282	30	22	48	40	19
BT30 HC FMH-K27 040 AD 2.5G 25000 SL	K10101933106282	30	27	58	40	21
BT40 HC FMH-K22 045 AD+B 2.5G 25000 SL	K10102934108282	40	22	48	45	19
BT40 HC FMH-K27 045 AD+B 2.5G 25000 SL	K10102935108282	40	27	58	45	21
BT40 HC FMH-K32 050 AD+B 2.5G 25000 SL	K10102936111282	40	32	78	50	24
BT40 HC FMH-K40 055 AD+B 2.5G 25000 SL	K10102937115282	40	40	88	55	27
BT50 HC FMH-K22 060 AD+B/2.5G 25000 SL	K10103934117230	50	22	48	60	19
BT50 HC FMH-K27 060 AD+B/2.5G 25000 SL	K10103935117230	50	27	58	60	21
BT50 HC FMH-K32 060 AD+B/2.5G 25000 SL	K10103936117230	50	32	78	60	24
BT50 HC FMH-K40 060 AD+B/2.5G 25000 SL	K10103937117230	50	40	88	60	27

**KBT - DIN ISO 7388 - 2  
(MAS 403)  
(TAPER & BOTH FACE CONTACT)**

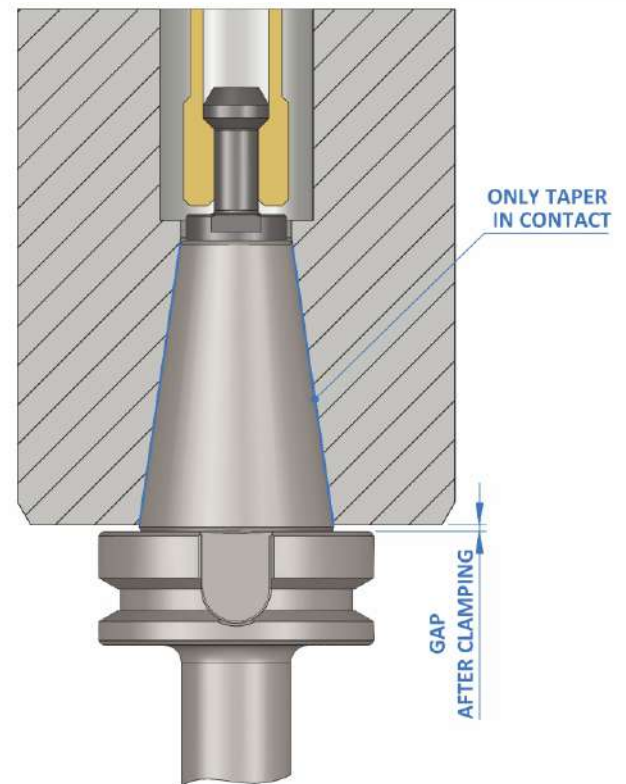




**KBT (BT MAS 403)  
TAPER AND BOTH FACE CONTACT HOLDER  
(After Clamping)**



**BT (MAS 403) STANDARD HOLDER  
(ONLY TAPER CONTACT)  
(After Clamping)**

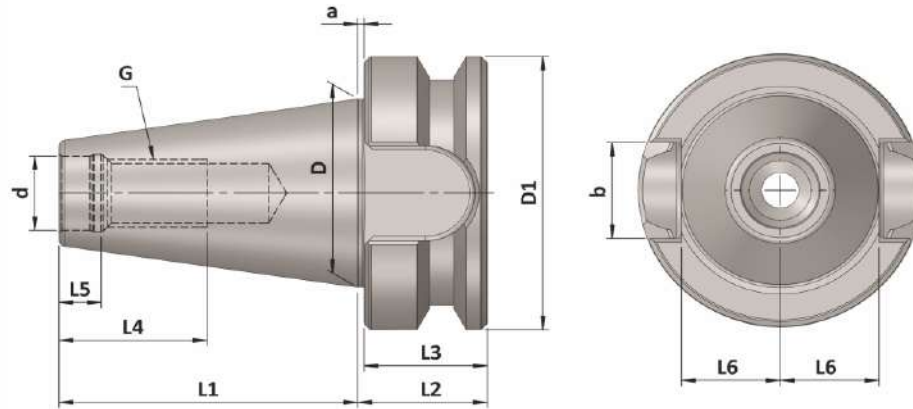


In KBT Tool Holder as mentioned Taper and both faces are in contact, due to which spindle and holder acts as one single unit, this allows a Higher “Radial Rigidity” hence we get good surface finish and dimensional accuracy while machining, also low vibration at higher speeds which increases Tool Life. Hence KBT Tool Holder has a remarkable significant as compared to Standard Tool Holders.

**Note :**

**KBT Tool Holders are only recommended to use in Calibrated KBT Spindle Machines.**

# KBT (MAS 403) (DIN ISO 7388 - 2) Technical Information



ISO	d	D	D1	a	b	G	L1	L2	L3	L4	L5	L6
30	12.5	31.75	46	1	16.1	M12	48.4	21	20	24	7.0	16.3
40	17	44.45	63	1	16.1	M16	65.4	27	26	32	9.0	22.6
50	25	69.85	100	1.5	25.7	M24	101.8	38	36.5	47	13.0	35.4

## ◆ Features:

- KBT Tool Holder Provides More “Rigid” Clamping than the Standard “BT” Tool Holders.
- Achieves Higher “Radial Rigidity”
- Improves Tool life.
- Balanced to 2.5 G, 25000 RPM.

Material :- Case hardened steel, tensile strength in the core min. 950 N/mm<sup>2</sup>

Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish.

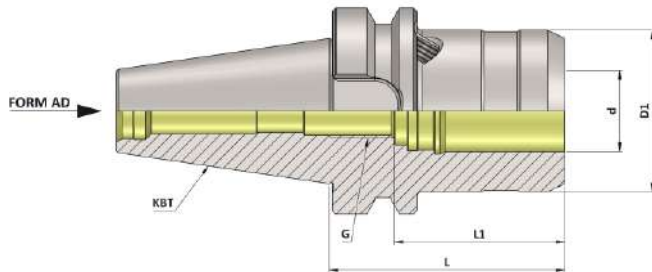
Accuracy :- 7:24 Taper Angle Class AT 3 As per DIN 2080

# KBT (MAS 403) (DIN ISO 7388 - 2) (JD) Hydraulic Expansion Chuck

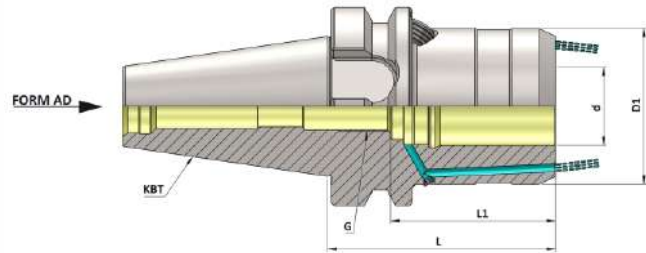


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

**HEAVY DUTY**



KBT (MAS 403) Hydraulic Expansion Chuck (AD)



KBT (MAS 403) Hydraulic Expansion Chuck (FCC - AD)

## KBT (MAS 403) Hydraulic Expansion Chuck (AD)

(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	ISO	d	D1	G	L	L1
KBT30 HC12S 069 2.5G 25000 SL	K10313629616283	30	12	42	M10	69	40
KBT30 HC20S 090 2.5G 25000 SL	K10313168140283	30	20	50	M16	90	42
KBT40 HC12S 058 2.5G 25000 SL	K10314629617282	40	12	42	M10	58	40
KBT40 HC20S 72.5 2.5G 25000SL	K10314168126228	40	20	50	M16	72.5	42
KBT50 HC12S 069 2.5G 25000 SL	K10315629616281	50	12	42	M10	69	40
KBT50 HC20S 083 2.5G 25000 SL	K10315168618283	50	20	50	M16	83	42
KBT50 HC32S 090 2.5G 25000 SL	K10315272140283	50	32	72	M16	90	55
KBT30 HC1/2"S 069 2.5G 25000 SL	K10313953616283	30	1/2"	42	M10	69	40
KBT30 HC3/4"S 090 2.5G 25000 SL	K10313954140283	30	3/4"	50	M16	90	42
KBT40 HC1/2"S 058 2.5G 25000 SL	K10314953617283	40	1/2"	42	M10	58	40
KBT40 HC3/4"S 72.5 2.5G 25000 SL	K10314954126283	40	3/4"	50	M16	72.5	42
KBT50 HC1/2"S 069 2.5G 25000 SL	K10315953616283	50	1/2"	42	M10	69	40
KBT50 HC3/4"S 083 2.5G 25000 SL	K10315954618283	50	3/4"	50	M16	83	42
KBT50 HC1-1/4"S 090 2.5G 25000 SL	K10315955140283	50	1-1/4"	72	M16	90	55

## KBT (MAS 403) Hydraulic Expansion Chuck (FCC - AD) (JD)

(Balanced to 2.5 G 25000 RPM)

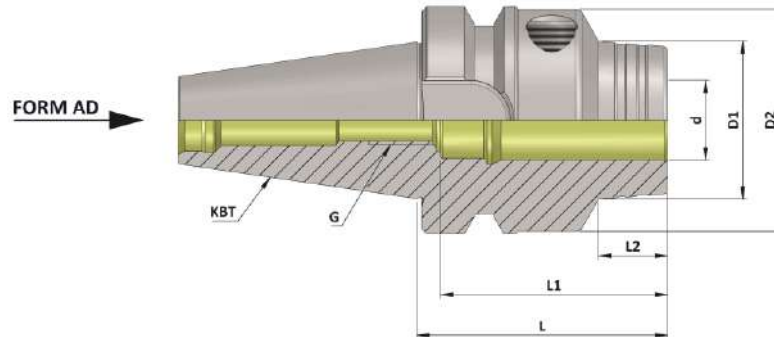
Item Name	Item Code	ISO	d	D1	G	L	L1
KBT30 HC12S 069 FCC 2.5G 25000 SL	K10313629616256	30	12	42	M10	69	40
KBT30 HC20S 090 FCC 2.5G 25000 SL	K10313168140256	30	20	50	M16	90	42
KBT40 HC12S 058 FCC 2.5G 25000 SL	K10314629111256	40	12	42	M10	58	40
KBT40 HC20S 72.5 FCC 2.5G 25000 SL	K10314168126256	40	20	50	M16	72.5	42
KBT50 HC12S 069 FCC 2.5G 25000 SL	K10315629338256	50	12	42	M10	69	40
KBT50 HC20S 083 FCC 2.5G 25000 SL	K10315168339256	50	20	50	M16	83	42
KBT50 HC32S 090 FCC 2.5G 25000 SL	K10315272140256	50	32	72	M16	90	55

Note: All Dimensions are in mm

# KBT (MAS 403) (DIN ISO 7388 - 2) (JD) Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## KBT (MAS 403) Hydraulic Expansion Chuck (AD) (JD) (Balanced to 2.5 G 25000 RPM)

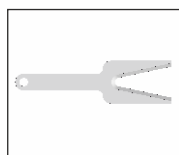
Item Name	Item Code	ISO	d	D1	D2	G	L	L1	L2
KBT30 HC06 50.8 2.5G 25000 SL	K10313642619282	30	6	26	45	M5	50.8	37	12
KBT30 HC08 50.8 2.5G 25000 SL	K10313643619282	30	8	28	45	M6	50.8	37	12.5
KBT30 HC10 50.8 2.5G 25000 SL	K10313644619282	30	10	30	45	M8	50.8	41	13
KBT30 HC12 50.8 2.5G 25000 SL	K10313636619282	30	12	32	45	M8	50.8	46	14
KBT30 HC14 090 2.5G 25000 SL	K10313645140282	30	14	34	45	M8	90	46	45
KBT30 HC16 090 2.5G 25000 SL	K10313646140282	30	16	38	45	M8	90	49	50
KBT30 HC18 090 2.5G 25000 SL	K10313647140282	30	18	40	45	M8	90	49	50
KBT30 HC20 090 2.5G 25000 SL	K10313637140282	30	20	42	45	M8	90	51	50

KBT30 HC1/4" 50.8 2.5G 25000 SL	K10313649619283	30	1/4"	26	45	M5	50.8	37	12
KBT30 HC5/16" 50.8 2.5G 25000 SL	K10313956619283	30	5/16"	28	45	M6	50.8	37	12.5
KBT30 HC3/8" 50.8 2.5G 25000 SL	K10313650619283	30	3/8"	30	45	M8	50.8	41	13
KBT30 HC1/2" 50.8 2.5G 25000 SL	K10313652619283	30	1/2"	32	45	M8	50.8	46	14
KBT30 HC5/8" 090 2.5G 25000 SL	K10313651140283	30	5/8"	38	45	M8	90	49	50
KBT30 HC3/4" 090 2.5G 25000 SL	K10313653140283	30	3/4"	42	45	M8	90	51	50

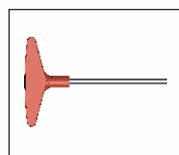
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



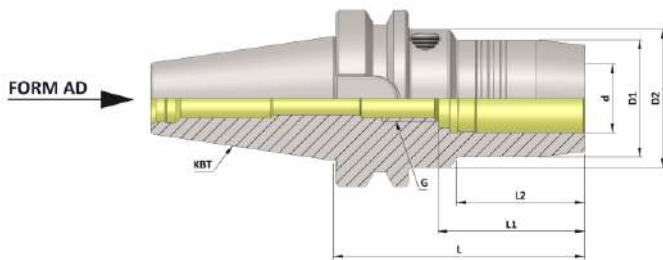
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

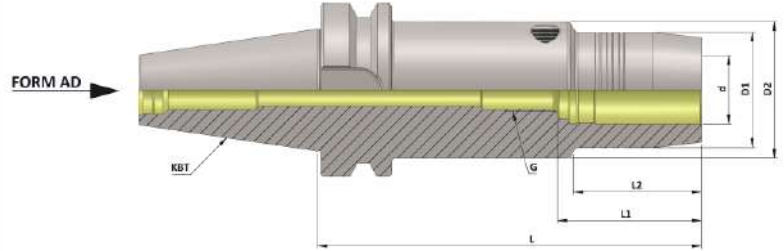
# KBT (MAS 403) (DIN ISO 7388 - 2) (JD) Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**  
KBT (MAS 403) Hydraulic Expansion Chuck (AD)



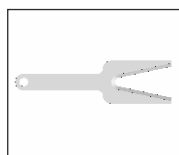
**Long GP**  
KBT (MAS 403) Hydraulic Expansion Chuck (AD)

KBT (MAS 403) Hydraulic Expansion Chuck (AD) (JD)										(Balanced to 2.5 G 25000 RPM)
Item Name	Item Code	ISO	d	D1	D2	G	L	L1	L2	
KBT40 HC06 090 2.5G 25000 SL	K10314642140282	40	6	26	49.5	M5	90	37	29	
KBT40 HC06 140 2.5G 25000 SL	K10314642169282	40	6	26	49.5	M5	140	37	29	
KBT40 HC08 090 2.5G 25000 SL	K10314643140282	40	8	28	49.5	M6	90	37	30	
KBT40 HC08 140 2.5G 25000 SL	K10314643169282	40	8	28	49.5	M6	140	37	30	
KBT40 HC10 090 2.5G 25000 SL	K10314644140282	40	10	30	49.5	M8	90	41	35	
KBT40 HC10 140 2.5G 25000 SL	K10314644169282	40	10	30	49.5	M8	140	41	35	
KBT40 HC12 090 2.5G 25000 SL	K10314636140282	40	12	32	49.5	M10	90	46	40	
KBT40 HC12 140 2.5G 25000 SL	K10314636169282	40	12	32	49.5	M10	140	46	40	
KBT40 HC14 090 2.5G 25000 SL	K10314645140282	40	14	34	49.5	M10	90	46	40	
KBT40 HC14 140 2.5G 25000 SL	K10314645169282	40	14	34	49.5	M10	140	46	40	
KBT40 HC16 090 2.5G 25000 SL	K10314646140282	40	16	38	49.5	M12	90	49	45	
KBT40 HC16 140 2.5G 25000 SL	K10314647169282	40	16	38	49.5	M12	140	49	45	
KBT40 HC18 090 2.5G 25000 SL	K10314647140282	40	18	40	49.5	M12	90	49	46	
KBT40 HC18 140 2.5G 25000 SL	K10314647169282	40	18	40	49.5	M12	140	49	46	
KBT40 HC20 090 2.5G 25000 SL	K10314637140282	40	20	42	49.5	M16	90	51	47	
KBT40 HC20 140 2.5G 25000 SL	K10314637169282	40	20	42	49.5	M16	140	51	47	
KBT40 HC25 090 2.5G 25000 SL	K10314648140282	40	25	52	55	M16	90	57	50	
KBT40 HC25 140 2.5G 25000 SL	K10314648169282	40	25	52	55	M16	140	57	75	
KBT40 HC32 090 2.5G 25000 SL	K10314638140282	40	32	62	70	M16	90	61	25.5	
KBT40 HC32 140 2.5G 25000 SL	K10314638169282	40	32	59	63	M16	140	61	61	

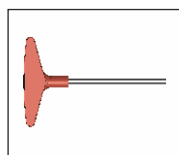
## Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



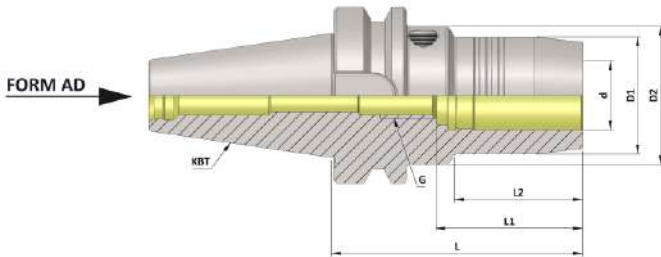
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# KBT (MAS 403) (DIN ISO 7388 - 2) (JD) Hydraulic Expansion Chuck

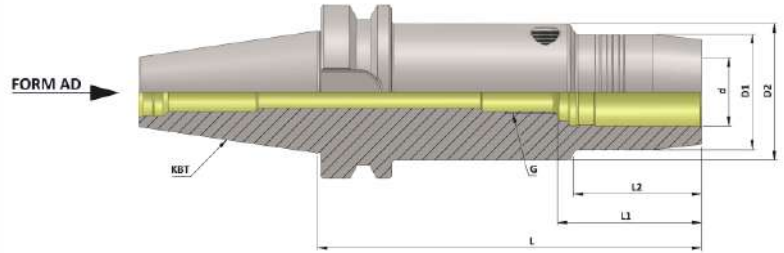


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**

**KBT (MAS 403) Hydraulic Expansion Chuck (AD)**



**Long GP**

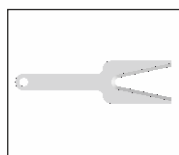
**KBT (MAS 403) Hydraulic Expansion Chuck (AD)**

KBT (MAS 403) Hydraulic Expansion Chuck (AD) (JD)										(Balanced to 2.5 G 25000 RPM)
Item Name	Item Code	ISO	d	D1	D2	G	L	L1	L2	
KBT40 HC1/4" - 090 2.5G 25000 SL	K10314649917283	40	1/4"	26	49.5	M5	90	37	29	
KBT40 HC1/4" - 140 2.5G 25000 SL	K10314649918283	40	1/4"	26	49.5	M5	140	37	29	
KBT40 HC5/16" - 090 2.5G 25000 SL	K10314956917283	40	5/16"	28	49.5	M6	90	37	30	
KBT40 HC5/16" - 140 2.5G 25000 SL	K10314956918283	40	5/16"	28	49.5	M6	140	37	30	
KBT40 HC3/8" - 090 2.5G 25000 SL	K10314650917283	40	3/8"	30	49.5	M8	90	41	35	
KBT40 HC3/8" - 140 2.5G 25000 SL	K10314650918283	40	3/8"	30	49.5	M8	140	41	35	
KBT40 HC1/2" - 090 2.5G 25000 SL	K10314652917283	40	1/2"	32	49.5	M10	90	46	40	
KBT40 HC1/2" - 140 2.5G 25000 SL	K10314652918283	40	1/2"	32	49.5	M10	140	46	40	
KBT40 HC5/8" - 090 2.5G 25000 SL	K10314651917283	40	5/8"	38	49.5	M12	90	49	45	
KBT40 HC5/8" - 140 2.5G 25000 SL	K10314651918283	40	5/8"	38	49.5	M12	140	49	45	
KBT40 HC3/4" - 090 2.5G 25000 SL	K10314653917283	40	3/4"	42	49.5	M16	90	51	47	
KBT40 HC3/4" - 140 2.5G 25000 SL	K10314653918283	40	3/4"	42	49.5	M16	140	51	47	
KBT40 HC1" - 090 2.5G 25000 SL	K10314957917283	40	1"	52	55	M16	90	57	50	
KBT40 HC1" - 140 2.5G 25000 SL	K10314957918283	40	1"	52	55	M16	140	57	75	
KBT40 HC1-1/4" - 090 2.5G 25000 SL	K10314655917283	40	1-1/4"	62	70	M16	90	61	25.5	
KBT40 HC1-1/4" - 140 2.5G 25000 SL	K10314655918283	40	1-1/4"	59	63	M16	140	61	61	

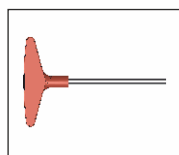
**Accessories:**



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



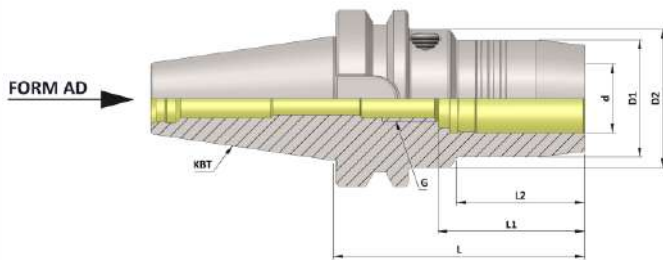
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

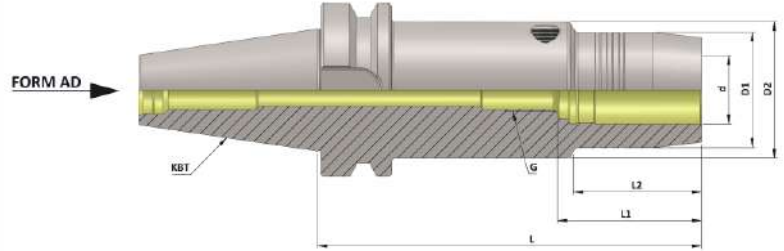
# KBT (MAS 403) (DIN ISO 7388 - 2) (JD) Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**  
**KBT (MAS 403) Hydraulic Expansion Chuck (AD)**



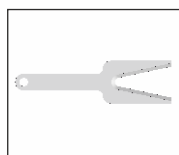
**Long GP**  
**KBT (MAS 403) Hydraulic Expansion Chuck (AD)**

KBT (MAS 403) Hydraulic Expansion Chuck (AD) (JD)							(Balanced to 2.5 G 25000 RPM)			
Item Name	Item Code	ISO	d	D1	D2	G	L	L1	L2	
KBT50 HC06 090 2.5G 25000 SL	K10315642140282	50	6	26	49.5	M5	90	37	29	
KBT50 HC06 140 2.5G 25000 SL	K10315642169282	50	6	26	49.5	M5	140	37	29	
KBT50 HC08 090 2.5G 25000 SL	K10315643140282	50	8	28	49.5	M6	90	37	30	
KBT50 HC08 140 2.5G 25000 SL	K10315643169282	50	8	28	49.5	M6	140	37	30	
KBT50 HC10 090 2.5G 25000 SL	K10315644140282	50	10	30	49.5	M8	90	41	34	
KBT50 HC10 140 2.5G 25000 SL	K10315644169282	50	10	30	49.5	M8	140	41	35	
KBT50 HC12 090 2.5G 25000 SL	K10315636140282	50	12	32	49.5	M10	90	46	34	
KBT50 HC12 140 2.5G 25000 SL	K10315636169282	50	12	32	49.5	M10	140	46	40	
KBT50 HC14 090 2.5G 25000 SL	K10315645140282	50	14	34	49.5	M10	90	46	34	
KBT50 HC14 140 2.5G 25000 SL	K10315645169282	50	14	34	49.5	M10	140	46	40	
KBT50 HC16 090 2.5G 25000 SL	K10315646140282	50	16	38	49.5	M12	90	49	35	
KBT50 HC16 140 2.5G 25000 SL	K10315646169282	50	16	38	49.5	M12	140	49	45	
KBT50 HC18 090 2.5G 25000 SL	K10315647140282	50	18	40	49.5	M12	90	49	35	
KBT50 HC18 140 2.5G 25000 SL	K10315647169282	50	18	42	49.5	M12	140	49	46	
KBT50 HC20 090 2.5G 25000 SL	K10315637140282	50	20	40	49.5	M16	90	51	35	
KBT50 HC20 140 2.5G 25000 SL	K10315637169282	50	20	42	49.5	M16	140	51	42	
KBT50 HC25 110 2.5G 25000 SL	K10315648156282	50	25	55	63	M16	110	57	48	
KBT50 HC25 140 2.5G 25000 SL	K10315648169282	50	25	55	63	M16	140	57	48	
KBT50 HC32 110 2.5G 25000 SL	K10315638156282	50	32	63	70	M16	110	61	50	
KBT50 HC32 140 2.5G 25000 SL	K10315638169282	50	32	63	70	M16	140	61	50	

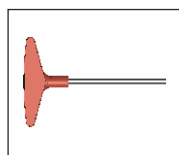
**Accessories:**



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



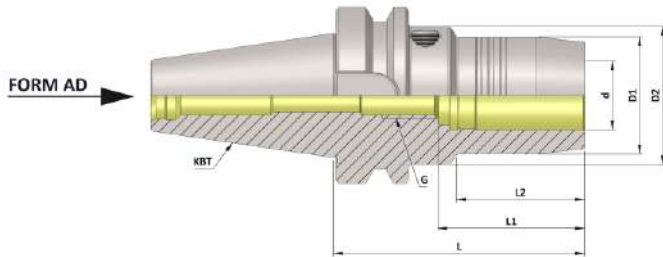
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# KBT (MAS 403) (DIN ISO 7388 - 2) (JD) Hydraulic Expansion Chuck

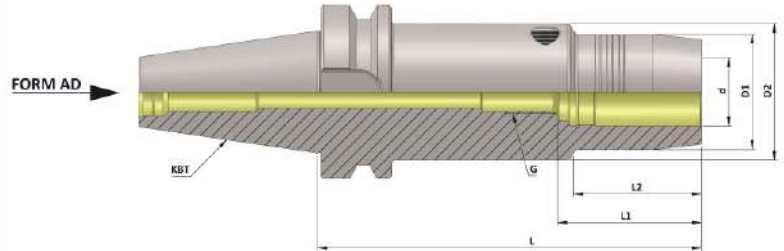


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**

**KBT (MAS 403) Hydraulic Expansion Chuck (AD)**



**Long GP**

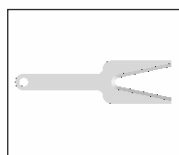
**KBT (MAS 403) Hydraulic Expansion Chuck (AD)**

KBT (MAS 403) Hydraulic Expansion Chuck (AD) (JD)										(Balanced to 2.5 G 25000 RPM)
Item Name	Item Code	ISO	d	D1	D2	G	L	L1	L2	
KBT50 HC1/4" - 090 2.5G 25000 SL	K10315649917283	50	1/4"	26	49.5	M5	90	37	29	
KBT50 HC1/4" - 140 2.5G 25000 SL	K10315649918283	50	1/4"	26	49.5	M5	140	37	29	
KBT50 HC5/16" - 090 2.5G 25000 SL	K10315956917283	50	5/16"	28	49.5	M6	90	37	30	
KBT50 HC5/16" - 140 2.5G 25000 SL	K10315956918283	50	5/16"	28	49.5	M6	140	37	30	
KBT50 HC3/8" - 090 2.5G 25000 SL	K10315650917283	50	3/8"	30	49.5	M8	90	41	34	
KBT50 HC3/8" - 140 2.5G 25000 SL	K10315650918283	50	3/8"	30	49.5	M8	140	41	35	
KBT50 HC1/2" - 090 2.5G 25000 SL	K10315652917283	50	1/2"	32	49.5	M10	90	46	34	
KBT50 HC1/2" - 140 2.5G 25000 SL	K10315652918283	50	1/2"	32	49.5	M10	140	46	40	
KBT50 HC5/8" - 090 2.5G 25000 SL	K10315651917283	50	5/8"	38	49.5	M12	90	49	35	
KBT50 HC5/8" - 140 2.5G 25000 SL	K10315651918283	50	5/8"	38	49.5	M12	140	49	45	
KBT50 HC3/4" - 090 2.5G 25000 SL	K10315653917283	50	3/4"	40	49.5	M16	90	51	35	
KBT50 HC3/4" - 140 2.5G 25000 SL	K10315653918283	50	3/4"	42	49.5	M16	140	51	42	
KBT50 HC1" - 110 2.5G 25000 SL	K10315957917283	50	1"	55	63	M16	110	57	48	
KBT50 HC1" - 140 2.5G 25000 SL	K10315957918283	50	1"	55	63	M16	140	57	48	
KBT50 HC1-1/4" - 110 2.5G 25000 SL	K10315655917283	50	1-1/4"	63	70	M16	110	61	50	
KBT50 HC1-1/4" - 140 2.5G 25000 SL	K10315655918283	50	1-1/4"	63	70	M16	140	61	50	

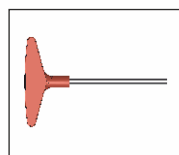
**Accessories:**



Reduction Sleeve Seal (RS Seal) Ref. Page No. 96-100



Spanner HC Ref. Page No. 103



Key HC 5mm Ref. Page No. 103

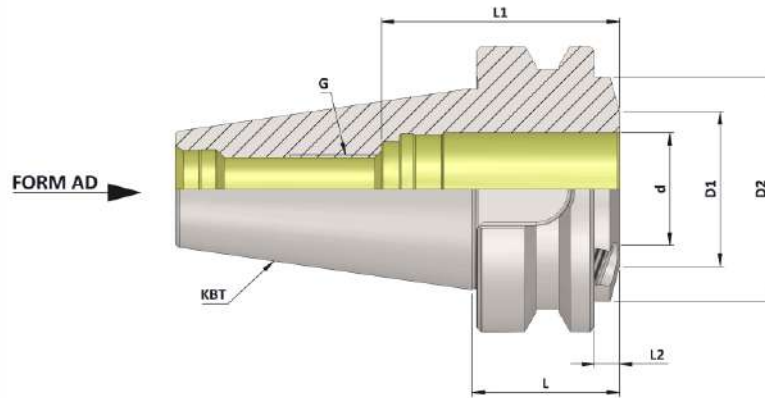
Note: All Dimensions are in mm



# KBT (MAS 403) (DIN ISO 7388 - 2) (JD) Short GP Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

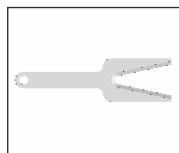


KBT (MAS 403) Hydraulic Expansion Chuck (Short GP)							(Balanced to 2.5 G 25000 RPM)			
Item Name	Item Code	ISO	d	D1	D2	G	L	L1	L2	
KBT40 HC20 32.50 SHORT G.P. 2.5G 25000 SL	K10314637615283	40	20	34	49.5	M16	32.5	51	5.5	
KBT40 HC3/4" 32.50 SHORT G.P. 2.5G 25000 SL	K10314653615283	40	3/4"	34	49.5	M16	32.5	51	5.5	

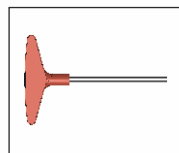
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



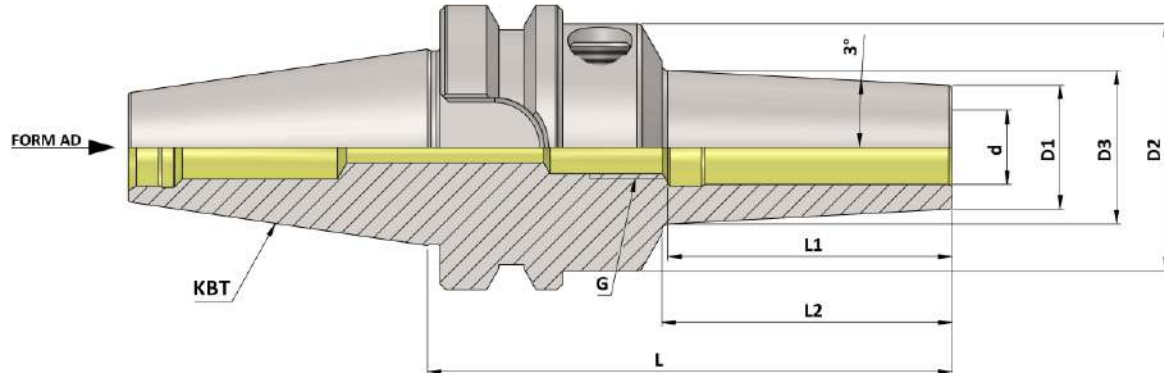
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# KBT (MAS 403) (DIN ISO 7388 - 2) (JD) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## KBT (MAS 403) Hydraulic Expansion Chuck Slim 3 Degree (AD) (JD) (Balanced to 2.5 G 25000 RPM)

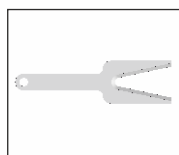
Item Name	Item Code	ISO	d	D1	D2	D3	G	L	L1	L2
KBT30 HC03 085 SLIM AD/2.5G 25000 SL	K10307707135297	30	3	10	40	14.7232	M2.5	85	28	45
KBT30 HC04 085 SLIM AD/2.5G 25000 SL	K10313708135297	30	4	12	40	16.7232	M2.5	85	28	45
KBT30 HC05 085 SLIM AD/2.5G 25000 SL	K10313709135297	30	5	13	40	17.7232	M2.5	85	28	45
KBT30 HC06 085 SLIM AD/2.5G 25000 SL	K10313642135297	30	6	14	40	18.8282	M5	85	37	46
KBT30 HC08 085 SLIM AD/2.5G 25000 SL	K10313643135297	30	8	16	40	20.8282	M6	85	37	46
KBT30 HC10 085 SLIM AD/2.5G 25000 SL	K10313644135297	30	10	18	40	22.9331	M8	85	41	47
KBT30 HC12 085 SLIM AD/2.5G 25000 SL	K10313636135297	30	12	20	40	24.9331	M8	85	46	47
KBT30 HC14 085 SLIM AD/2.5G 25000 SL	K10313645135297	30	14	24	40	28.9331	M8	85	46	47
KBT30 HC16 085 SLIM AD/2.5G 25000 SL	K10313646135297	30	16	26	40	31.0381	M8	85	49	48
KBT30 HC18 085 SLIM AD/2.5G 25000 SL	K10313647135297	30	18	28	40	33.0381	M8	85	49	48
KBT30 HC20 085 SLIM AD/2.5G 25000 SL	K10313637135297	30	20	30	40	35.1430	M8	85	51	49

KBT30 HC1/8" 085 SLIM AD/2.5G 25000 SL	K10313961135542	30	1/8"	10	40	14.72320	M2.5	85	28	45
KBT30 HC3/16" 085 SLIM AD/2.5G 25000 SL	K10313962135542	30	3/16"	12	40	16.72320	M2.5	85	28	45
KBT30 HC1/4" 085 SLIM AD/2.5G 25000 SL	K10313649135542	30	1/4"	14	40	18.82816	M5	85	37	46
KBT30 HC5/16" 085 SLIM AD/2.5G 25000 SL	K10313956135542	30	5/16"	16	40	20.82816	M6	85	37	46
KBT30 HC3/8" 085 SLIM AD/2.5G 25000 SL	K10313650135542	30	3/8"	18	40	22.93312	M8	85	41	47
KBT30 HC1/2" 085 SLIM AD/2.5G 25000 SL	K10313652135542	30	1/2"	20	40	24.93312	M8	85	46	47
KBT30 HC5/8" 085 SLIM AD/2.5G 25000 SL	K10313651135542	30	5/8"	26	40	31.03808	M8	85	49	48
KBT30 HC3/4" 085 SLIM AD/2.5G 25000 SL	K10313653135542	30	3/4"	30	40	35.14304	M8	85	51	49

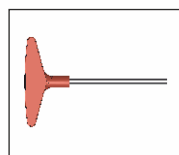
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



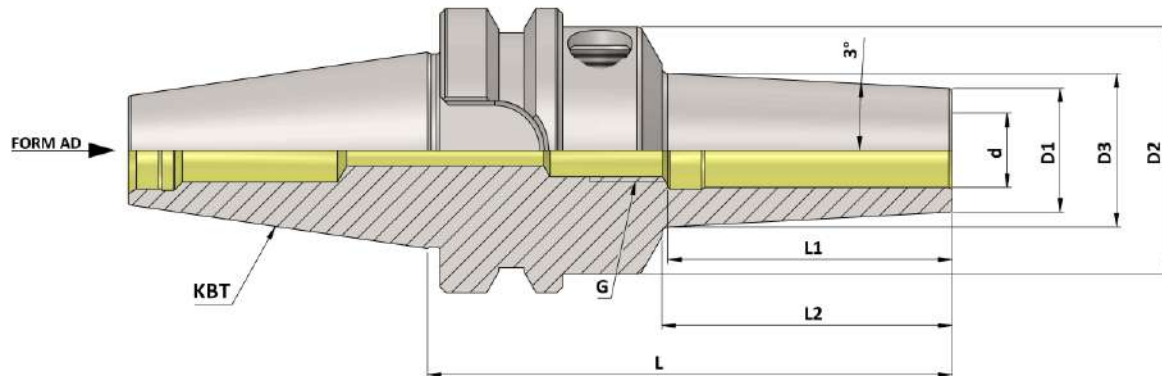
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# KBT (MAS 403) (DIN ISO 7388 - 2) (JD) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## KBT (MAS 403) Hydraulic Expansion Chuck Slim 3 Degree (AD) (JD) (Balanced to 2.5 G 25000 RPM)

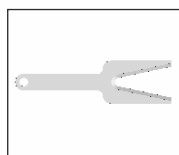
Item Name	Item Code	ISO	d	D1	D2	D3	G	L	L1	L2
KBT40 HC03 120 SLIM AD/2.5G 25000 SL	K10314707162297	40	3	9	49.5	16.5456	M2.5	120	28	72
KBT40 HC04 120 SLIM AD/2.5G 25000 SL	K10314708162297	40	4	10	49.5	17.5456	M2.5	120	28	72
KBT40 HC05 120 SLIM AD/2.5G 25000 SL	K10314709162297	40	5	11	49.5	18.5456	M2.5	120	28	72
KBT40 HC06 120 SLIM AD/2.5G 25000 SL	K10314642162297	40	6	12	49.5	19.5456	M5	120	37	72
KBT40 HC08 120 SLIM AD/2.5G 25000 SL	K10314643162297	40	8	14	49.5	21.5456	M6	120	37	72
KBT40 HC10 120 SLIM AD/2.5G 25000 SL	K10314644162297	40	10	16	49.5	23.6504	M8	120	41	73
KBT40 HC12 120 SLIM AD/2.5G 25000 SL	K10314636162297	40	12	18	49.5	25.7552	M10	120	46	74
KBT40 HC14 120 SLIM AD/2.5G 25000 SL	K10314645162297	40	14	22	49.5	29.4408	M10	120	46	71
KBT40 HC16 120 SLIM AD/2.5G 25000 SL	K10314646162297	40	16	24	49.5	31.4408	M12	120	49	71
KBT40 HC18 120 SLIM AD/2.5G 25000 SL	K10314647162297	40	18	26	49.5	33.5456	M12	120	49	72
KBT40 HC20 120 SLIM AD/2.5G 25000 SL	K10314637162297	40	20	28	49.5	35.5456	M16	120	51	72

KBT40 HC1/8" 120 SLIM AD/2.5G 25000 SL	K10314961162542	40	1/8"	9	49.5	16.5456	M2.5	120	28	72
KBT40 HC3/16" 120 SLIM AD/2.5G 25000 SL	K10314962162542	40	3/16"	10	49.5	17.5456	M2.5	120	28	72
KBT40 HC1/4" 120 SLIM AD/2.5G 25000 SL	K10102649162542	40	1/4"	12	49.5	19.5456	M5	120	37	72
KBT40 HC5/16" 120 SLIM AD/2.5G 25000 SL	K10102956162542	40	5/16"	14	49.5	21.5456	M6	120	37	72
KBT40 HC3/8" 120 SLIM AD/2.5G 25000 SL	K10102650162542	40	3/8"	16	49.5	23.6504	M8	120	41	73
KBT40 HC1/2" 120 SLIM AD/2.5G 25000 SL	K10102652162542	40	1/2"	18	49.5	25.7552	M10	120	46	74
KBT40 HC5/8" 120 SLIM AD/2.5G 25000 SL	K10102651162542	40	5/8"	24	49.5	31.4408	M12	120	49	71
KBT40 HC3/4" 120 SLIM AD/2.5G 25000 SL	K10102653162542	40	3/4"	28	49.5	35.5456	M16	120	51	72

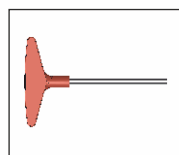
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



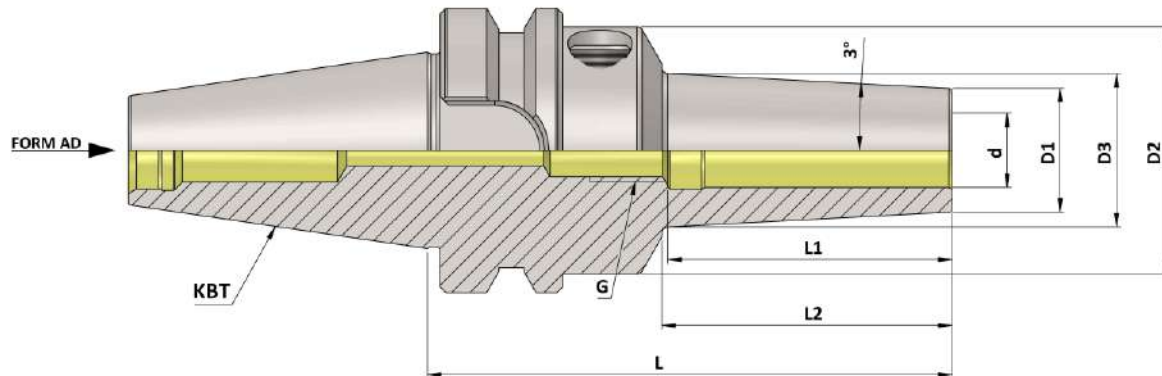
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# KBT (MAS 403) (DIN ISO 7388 - 2) (JD) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## KBT (MAS 403) Hydraulic Expansion Chuck Slim 3 Degree (AD) (JD) (Balanced to 2.5 G 25000 RPM)

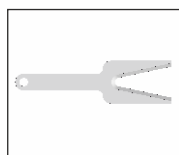
Item Name	Item Code	ISO	d	D1	D2	D3	G	L	L1	L2
KBT50 HC06 120 SLIM AD/2.5G 25000 SL	K10315642162297	50	6	12	49.5	18.3928	M5	120	37	61
KBT50 HC08 120 SLIM AD/2.5G 25000 SL	K10315643162297	50	8	14	49.5	20.3928	M6	120	37	61
KBT50 HC10 120 SLIM AD/2.5G 25000 SL	K10315644162297	50	10	16	49.5	22.4976	M8	120	41	62
KBT50 HC12 120 SLIM AD/2.5G 25000 SL	K10315636162297	50	12	18	49.5	24.6024	M10	120	46	63
KBT50 HC14 120 SLIM AD/2.5G 25000 SL	K10315645162297	50	14	22	49.5	28.288	M10	120	46	60
KBT50 HC16 120 SLIM AD/2.5G 25000 SL	K10315646162297	50	16	24	49.5	30.288	M12	120	49	60
KBT50 HC18 120 SLIM AD/2.5G 25000 SL	K10315647162297	50	18	26	49.5	32.3928	M12	120	49	61
KBT50 HC20 120 SLIM AD/2.5G 25000 SL	K10315637162297	50	20	28	49.5	34.3928	M16	120	51	61

KBT50 HC1/4" 120 SLIM AD/2.5G 25000 SL	K10103649162542	50	1/4"	12	49.5	18.3928	M5	120	37	61
KBT50 HC5/16" 120 SLIM AD/2.5G 25000 SL	K10103956162542	50	5/16"	14	49.5	20.3928	M6	120	37	61
KBT50 HC3/8" 120 SLIM AD/2.5G 25000 SL	K10103650162542	50	3/8"	16	49.5	22.4976	M8	120	41	62
KBT50 HC1/2" 120 SLIM AD/2.5G 25000 SL	K10103652162542	50	1/2"	18	49.5	24.6024	M10	120	46	63
KBT50 HC5/8" 120 SLIM AD/2.5G 25000 SL	K10103651162542	50	5/8"	24	49.5	30.288	M12	120	49	60
KBT50 HC3/4" 120 SLIM AD/2.5G 25000 SL	K10103653162542	50	3/4"	28	49.5	34.3928	M16	120	51	61

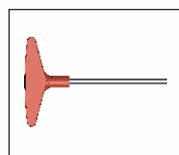
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



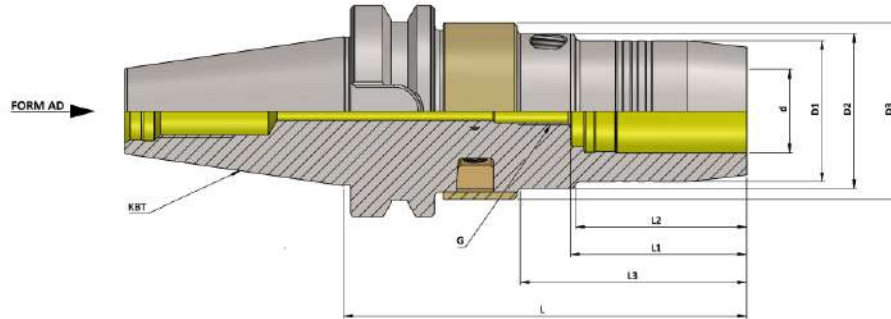
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# KBT (MAS 403) (DIN ISO 7388-2) Hydraulic Expansion Chuck With Run Out Adjustment



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## KBT (MAS 403) Hydraulic Expansion Chuck Run Out Adjustment

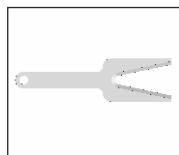
(Balanced to 2.5 G 25000 RPM)

ITEM NAME	ITEM CODE	ISO	d	D1	D2	D3	G	L	L1	L2	L3
KBT40 HC20 120 AD/RD 2.5G 25000 SL	K10314637162536	40	20	42	46	52.5	M8	120	51	50	67.5
KBT40 HC32 140 AD/RD 2.5G 25000 SL	K10314638169536	40	32	42	46	52.5	M8	140	51	50	67.5
KBT40 HC3/4" 120 AD/RD 2.5G 25000 SL	K10314653162536	40	3/4"	42	46	52.5	M8	120	51	50	67.5
KBT40 HC1-1/4" 140 AD/RD 2.5G 25000 SL	K10291655169536	40	1-1/4"	42	46	52.5	M8	140	51	50	67.5
KBT50 HC20 130 AD/RD 2.5G 25000 SL	K10315637165536	50	20	42	46	52.5	M8	130	51	50	67.5
KBT50 HC32 150 AD/RD 2.5G 25000 SL	K10315638173536	50	32	42	46	52.5	M8	150	51	50	67.5
KBT50 HC3/4" 130 AD/RD 2.5G 25000 SL	K10315653165536	50	3/4"	42	46	52.5	M8	130	51	50	67.5
KBT50 HC1-1/4" 150 AD/RD 2.5G 25000 SL	K10315655173536	50	1-1/4"	42	46	52.5	M8	150	51	50	67.5

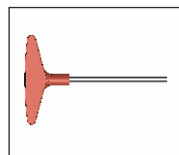
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



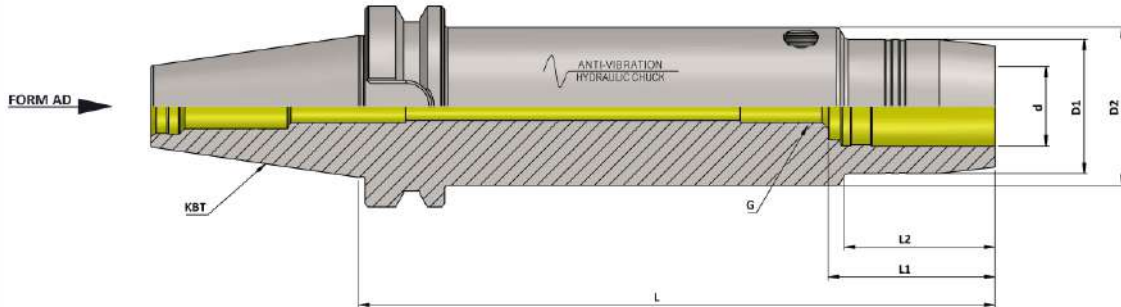
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# KBT (MAS 403) (DIN ISO 7388-2) Hydraulic Expansion Chuck Anti - Vibration (HC-AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



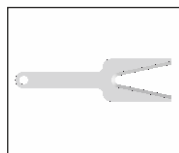
## KBT (MAS 403) Hydraulic Expansion Chuck Anti - Vibration

ITEM NAME	ITEM CODE	ISO	d	D1	D2	G	L	L1	L2
KBT40 HC20 200 AD/AV	K10314637239535	40	20	42	49.5	M16	200	51	47
KBT40 HC20 250 AD/AV	K10314637182539	40	20	42	49.5	M16	250	51	47
KBT40 HC20 300 AD/AV	K10314637183535	40	20	42	49.5	M16	300	51	47
KBT50 HC20 200 AD/AV	K10315637239535	50	20	42	49.5	M16	200	51	42
KBT50 HC20 250 AD/AV	K10315637182539	50	20	42	49.5	M16	250	51	42
KBT50 HC20 300 AD/AV	K10315637183535	50	20	42	49.5	M16	300	51	42
KBT50 HC20 350 AD/AV	K10315637184539	50	20	42	49.5	M16	350	51	42
KBT50 HC20 400 AD/AV	K10315637540535	50	20	42	49.5	M16	400	51	42

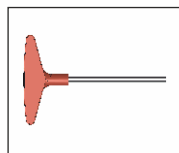
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103

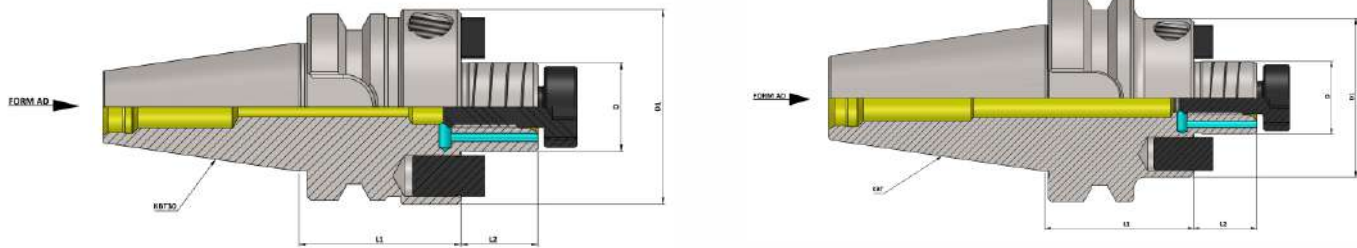


Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

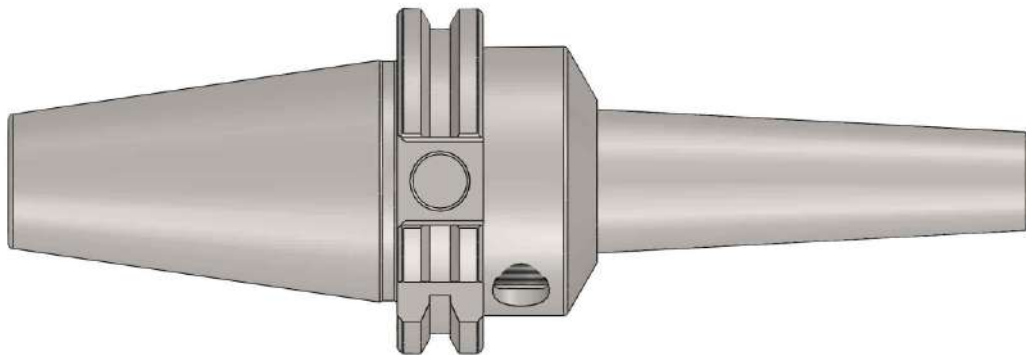
# KBT (MAS 403) (DIN ISO 7388-2) Hydraulic Expansion Face Mill Holder (HC-FMH-K)

Maximum Run out of the External Dia with respect to the External Taper 0.003 mm



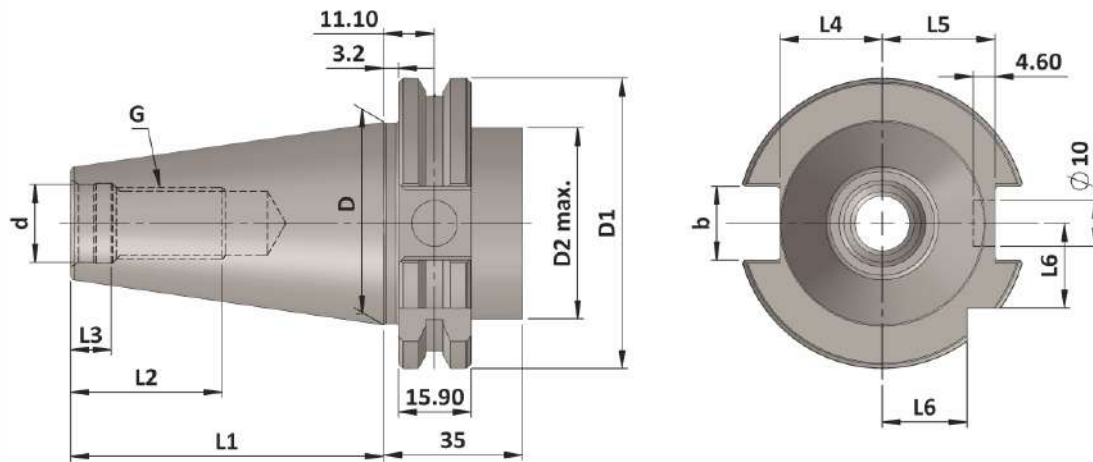
KBT (MAS 403) Hydraulic Expansion Face Mill Holder (HC-FMH-K)			(Balanced to 2.5 G 25000 RPM)			
Item Name	Item Code	ISO	D	D1	L1	L2
KBT30 HC FMH-K22 040 AD 2.5G 25000 SL	K10313932106282	30	22	48	40	19
KBT30 HC FMH-K27 040 AD 2.5G 25000 SL	K10313933106282	30	27	58	40	21
KBT40 HC FMH-K22 045 AD 2.5G 25000 SL	K10314932108282	40	22	48	45	19
KBT40 HC FMH-K27 045 AD 2.5G 25000 SL	K10314933108282	40	27	58	45	21
KBT40 HC FMH-K32 050 AD 2.5G 25000 SL	K10314938111282	40	32	78	50	24
KBT40 HC FMH-K40 055 AD 2.5G 25000 SL	K10314939115282	40	40	88	55	27
KBT50 HC FMH-K22 060 AD/ 2.5G 25000 SL	K10315932117282	50	22	48	60	19
KBT50 HC FMH-K27 060 AD/ 2.5G 25000 SL	K10315933117282	50	27	58	60	21
KBT50 HC FMH-K32 060 AD/ 2.5G 25000 SL	K10315938117282	50	32	78	60	24
KBT50 HC FMH-K40 060 AD/ 2.5G 25000 SL	K10315939117282	50	40	88	60	27

**SK - DIN ISO 7388 - 1**  
**(DIN 69871)**





# SK (DIN 69871) (DIN ISO 7388 - 1) Technical Information



SK	d	d1	D	D1	D2	e	b	G	L1	L2	L3	L4	L5	L6
30	13	4	31.75	50.00	45	21	16.1	M12	47.80	24	5.5	16.4	19.0	15.00
40	17	4	44.45	63.55	50	27	16.1	M16	68.40	32	8.2	22.80	25.0	18.50
50	25	6	69.85	97.50	80	42	25.7	M24	101.75	47	11.5	35.5	37.7	30.00

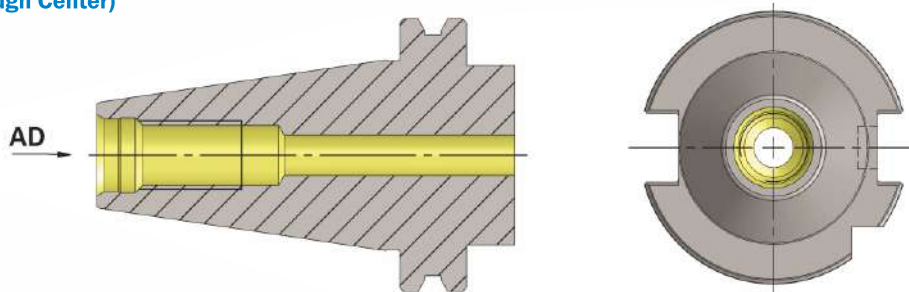
Material :- Case hardened steel, tensile strength in the core min. 950 N/mm<sup>2</sup>

Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish.

Accuracy :- 7:24 Taper Angle Class AT 3 As per DIN 2080

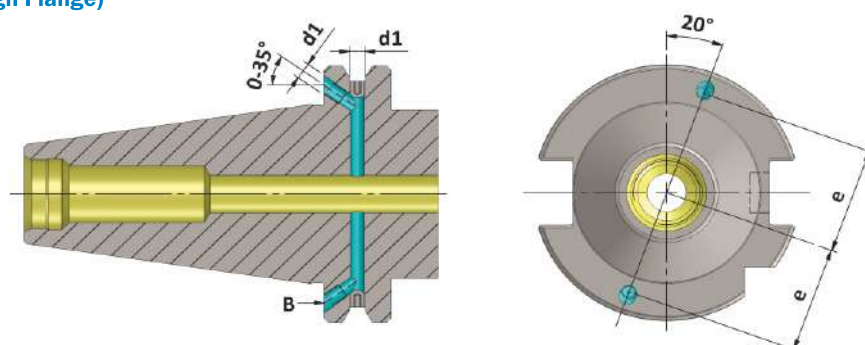
Old Name : SK (DIN 69871) AD

New Name : SK (DIN 69871) DIN ISO 7388- 1 AD  
(Coolant Supply Through Center)



Old Name : SK (DIN 69871) AD+ B

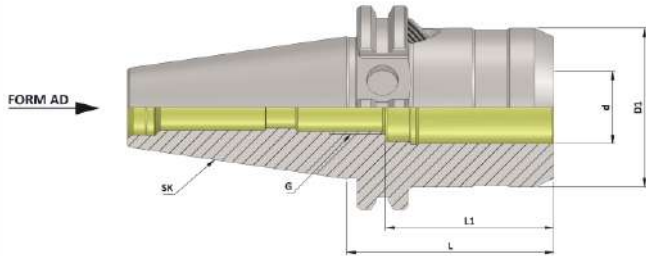
New Name : SK (DIN 69871) DIN ISO 7388- 1 AD / AF  
(Coolant Supply Through Flange)



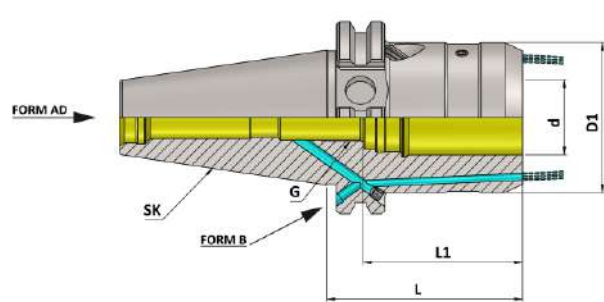
# SK (DIN 69871) (DIN ISO 7388 - 1) Hydraulic Expansion Chuck

Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

**HEAVY DUTY**



**SK (DIN 69871) Hydraulic Expansion Chuck (AD)**



**SK (DIN 69871) Hydraulic Expansion Chuck (FCC - AD+B)**

## SK(DIN 69871) Hydraulic Expansion Chuck (AD)

(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	SK	d	D1	G	L	L1
SK40 HC12S 050 AD/ 2.5G 25000 SL	K10104629111282	40	12	42	M10	50	40
SK40 HC20S 64.5 AD/ 2.5G 25000 SL	K10104168122282	40	20	50	M16	64.5	42

SK50 HC12S 50.5 AD/ 2.5G 25000 SL	K10105629646282	50	12	42	M10	50.5	40
SK50 HC20S 64.5 AD/ 2.5G 25000 SL	K10105168122282	50	20	50	M16	64.5	42
SK50 HC32S 81.0 AD/ 2.5G 25000 SL	K10105272372282	50	32	72	M16	81	55

## SK(DIN 69871) Hydraulic Expansion Chuck (FCC-AD+B) (AD/AF)

(Balanced to 2.5 G 25000 RPM)

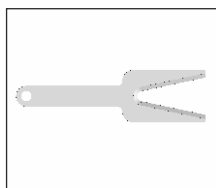
Item Name	Item Code	SK	d	D1	G	L	L1
SK40 HC12S 050 FCC AD+B/2.5G 25000 SL	K10104629131230	40	12	42	M10	50	40
SK40 HC20S 64.5 FCC AD+B/2.5G 25000 SL	K10104168122140	40	20	50	M16	64.5	42

SK50 HC12S 50.5 FCC AD+B/2.5G 25000 SL	K10105629338255	50	12	42	M10	50.5	40
SK50 HC20S 64.5 FCC AD+B/2.5G 25000 SL	K10105168122230	50	20	50	M16	64.5	42
SK50 HC32S 81.0 FCC AD+B/2.5G 25000 SL	K10105272140140	50	32	72	M16	81	55

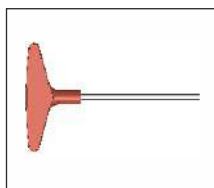
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No.52-53



Spanner HC  
Ref. Page No.54



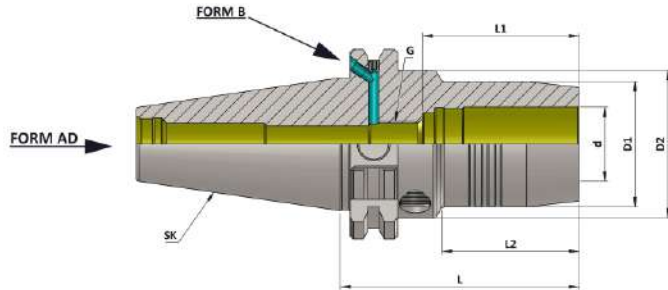
Key HC 5mm  
Ref. Page No.54

Note: All Dimensions are in mm

# SK (DIN 69871) (DIN ISO 7388 - 1) (AD/AF) Hydraulic Expansion Chuck

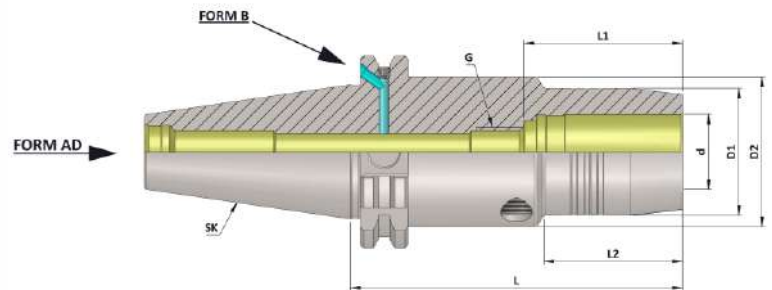


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**

**SK (DIN 69871) Hydraulic Expansion Chuck (AD+B)**



**Long GP**

**SK (DIN 69871) Hydraulic Expansion Chuck (AD+B)**

## SK(DIN 69871) Hydraulic Expansion Chuck (AD+B) (AD/AF)

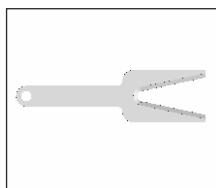
(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	SK	d	D1	D2	G	L	L1	L2
SK40 HC06 80.5 AD+B/ 2.5G 25000 SL	K10104642131280	40	6	26	49.5	M5	80.5	37	29.5
SK40 HC06 110 AD+B/ 2.5G 25000 SL	K10104642156280	40	6	26	49.5	M5	110	37	29
SK40 HC08 80.5 AD+B/ 2.5G 25000 SL	K10104643131280	40	8	28	49.5	M6	80.5	37	30
SK40 HC08 110 AD+B/ 2.5G 25000 SL	K10104643156280	40	8	28	49.5	M6	110	37	30
SK40 HC10 80.5 AD+B/ 2.5G 25000 SL	K10104644131280	40	10	30	49.5	M8	80.5	41	35
SK40 HC10 110 AD+B/ 2.5G 25000 SL	K10104644156280	40	10	30	49.5	M8	110	41	35
SK40 HC12 80.5 AD+B/ 2.5G 25000 SL	K10104636131276	40	12	32	49.5	M10	80.5	46	40
SK40 HC12 110 AD+B/ 2.5G 25000 SL	K10104636156276	40	12	32	49.5	M10	110	46	40
SK40 HC14 80.5 AD+B/ 2.5G 25000 SL	K10104645131280	40	14	34	49.5	M10	80.5	46	40
SK40 HC14 110 AD+B/ 2.5G 25000 SL	K10104645156280	40	14	34	49.5	M10	110	46	40
SK40 HC16 80.5 AD+B/ 2.5G 25000 SL	K10104646131280	40	16	38	49.5	M12	80.5	49	45
SK40 HC16 110 AD+B/ 2.5G 25000 SL	K10104646156280	40	16	38	49.5	M12	110	49	45
SK40 HC18 80.5 AD+B/ 2.5G 25000 SL	K10104647131280	40	18	40	49.5	M12	80.5	49	46
SK40 HC18 110 AD+B/ 2.5G 25000 SL	K10104647156280	40	18	40	49.5	M12	110	49	46
SK40 HC20 80.5 AD+B/ 2.5G 25000 SL	K10104637131276	40	20	42	49.5	M16	80.5	51	47
SK40 HC20 110 AD+B/ 2.5G 25000 SL	K10104637156276	40	20	42	49.5	M16	110	51	47
SK40 HC25 095 AD+B/ 2.5G 25000 SL	K10104648145280	40	25	55	63	M16	95	57	28
SK40 HC25 110 AD+B/ 2.5G 25000 SL	K10104648156280	40	25	55	63	M16	110	57	28
SK40 HC32 095 AD+B/ 2.5G 25000 SL	K10104638145276	40	32	63	70	M16	95	61	25.5
SK40 HC32 110 AD+B/ 2.5G 25000 SL	K10104638156276	40	32	63	59	M16	110	61	59

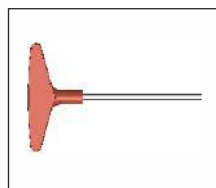
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No.52-53



Spanner HC  
Ref. Page No.54



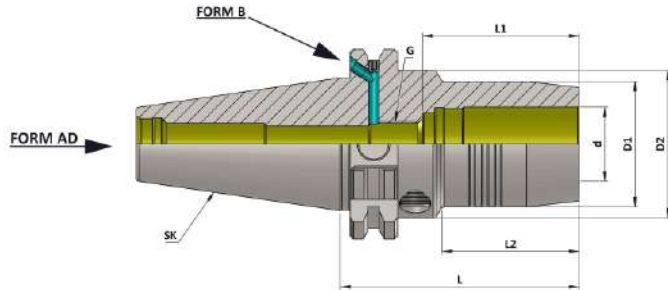
Key HC 5mm  
Ref. Page No.54

Note: All Dimensions are in mm

# SK (DIN 69871) (DIN ISO 7388 - 1) (AD/AF) Hydraulic Expansion Chuck

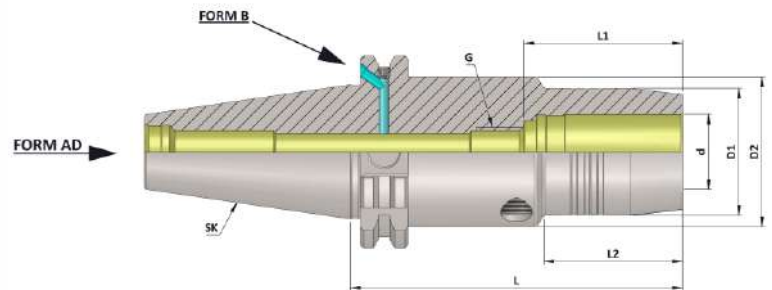


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**

**SK (DIN 69871) Hydraulic Expansion Chuck (AD+B)**



**Long GP**

**SK (DIN 69871) Hydraulic Expansion Chuck (AD+B)**

## SK(DIN 69871) Hydraulic Expansion Chuck (AD+B) (AD/AF)

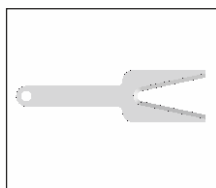
(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	SK	d	D1	D2	G	L	L1	L2
SK50 HC06 80.5 AD+B/ 2.5G 25000 SL	K10105642131280	50	6	26	49.5	M5	80.5	37	29.5
SK50 HC06 110 AD+B/ 2.5G 25000 SL	K10105642156280	50	6	26	49.5	M5	110	37	29
SK50 HC08 80.5 AD+B/ 2.5G 25000 SL	K10105643131280	50	8	28	49.5	M6	80.5	37	30
SK50 HC08 110 AD+B/ 2.5G 25000 SL	K10105643156280	50	8	28	49.5	M6	110	37	30
SK50 HC10 80.5 AD+B/ 2.5G 25000 SL	K10105644131280	50	10	30	49.5	M8	80.5	41	35
SK50 HC10 110 AD+B/ 2.5G 25000 SL	K10105644156280	50	10	30	49.5	M8	110	41	35
SK50 HC12 80.5 AD+B/ 2.5G 25000 SL	K10105636131276	50	12	32	49.5	M10	80.5	46	40
SK50 HC12 110 AD+B/ 2.5G 25000 SL	K10105636156276	50	12	32	49.5	M10	110	46	40
SK50 HC14 80.5 AD+B/ 2.5G 25000 SL	K10105645131280	50	14	34	49.5	M10	80.5	46	40
SK50 HC14 110 AD+B/ 2.5G 25000 SL	K10105645156280	50	14	34	49.5	M10	110	46	40
SK50 HC16 80.5 AD+B/ 2.5G 25000 SL	K10105646131280	50	16	38	49.5	M12	80.5	49	45
SK50 HC16 110 AD+B/ 2.5G 25000 SL	K10105646156280	50	16	38	49.5	M12	110	49	45
SK50 HC18 80.5 AD+B/ 2.5G 25000 SL	K10105647131280	50	18	40	49.5	M12	80.5	49	46
SK50 HC18 110 AD+B/ 2.5G 25000 SL	K10105647156280	50	18	40	49.5	M12	110	49	46
SK50 HC20 80.5 AD+B/ 2.5G 25000 SL	K10105637131276	50	20	42	49.5	M16	80.5	51	42
SK50 HC20 110 AD+B/ 2.5G 25000 SL	K10105637156276	50	20	42	49.5	M16	110	51	42
SK50 HC25 100 AD+B/ 2.5G 25000 SL	K10105648148280	50	25	55	63	M16	100	57	48
SK50 HC25 110 AD+B/ 2.5G 25000 SL	K10105648162280	50	25	55	63	M16	110	57	48
SK50 HC32 100 AD+B/ 2.5G 25000 SL	K10105638148276	50	32	63	70	M16	100	61	61
SK50 HC32 110 AD+B/ 2.5G 25000 SL	K10105638162276	50	32	63	70	M16	110	61	61

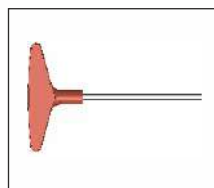
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No.52-53



Spanner HC  
Ref. Page No.54



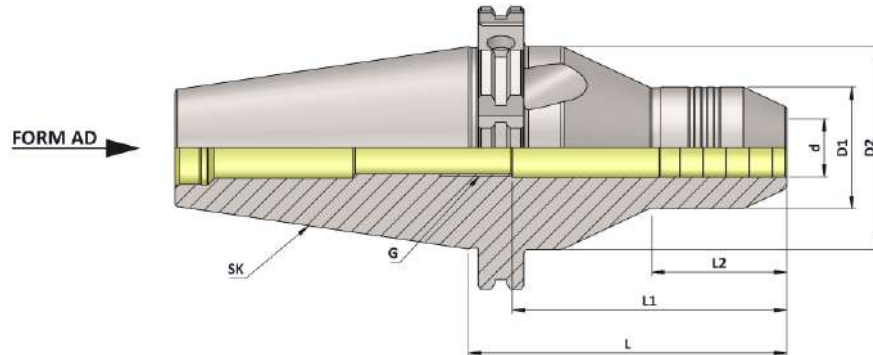
Key HC 5mm  
Ref. Page No.54

Note: All Dimensions are in mm

# SK (DIN 69871) (DIN ISO 7388 - 1) Hydraulic Expansion Chuck For TOOL & CUTTER CNC Grinding Machines



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## SK(DIN 69871) Hydraulic Expansion Chuck (AD)

(Balanced to 2.5 G 25000 RPM)

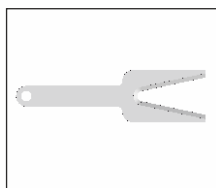
Item Name	Item Code	SK	d	D1	D2	G	L	L1	L2
SK50 HC06 110 ( TOOL & CUTTER ) AD/ 2.5G 25000 SL	K10105642629282	50	6	32	60	M5	110	43	45
SK50 HC08 110 ( TOOL & CUTTER ) AD/ 2.5G 25000 SL	K10105643629282	50	8	33.5	60	M6	110	43	50
SK50 HC10 110 ( TOOL & CUTTER ) AD/ 2.5G 25000 SL	K10105644629282	50	10	35	60	M8	110	43	50
SK50 HC12 110 ( TOOL & CUTTER ) AD/ 2.5G 25000 SL	K10105636629282	50	12	36.5	60	M10	110	50	55
SK50 HC14 110 ( TOOL & CUTTER ) AD/ 2.5G 25000 SL	K10105645629282	50	14	38	60	M10	110	50	60
SK50 HC16 110 ( TOOL & CUTTER ) AD/ 2.5G 25000 SL	K10105646629282	50	16	39.5	60	M12	110	53	60
SK50 HC18 110 ( TOOL & CUTTER ) AD/ 2.5G 25000 SL	K10105647629282	50	18	41	60	M12	110	53	60
SK50 HC20 110 ( TOOL & CUTTER ) AD/ 2.5G 25000 SL	K10105637629282	50	20	42	70	M16	110	95	41
SK50 HC25 110 ( TOOL & CUTTER ) AD/ 2.5G 25000 SL	K10105648629282	50	25	47	70	M16	110	95	40
SK50 HC32 110 ( TOOL & CUTTER ) AD/ 2.5G 25000 SL	K10105638629282	50	32	54	70	M16	110	95	56

SK50 HC3/4"110 (TOOL&CUTTER) AD/2.5G 25000 SL	K10105653629282	50	3/4"	42	70	M16	110	95	41
SK50 HC1-1/4"110 (TOOL&CUTTER) AD/2.5G 25000 SL	K10105655629282	50	1-1/4"	54	70	M16	110	95	56

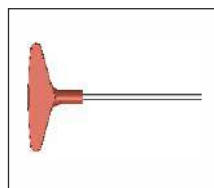
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No.52-53



Spanner HC  
Ref. Page No.54



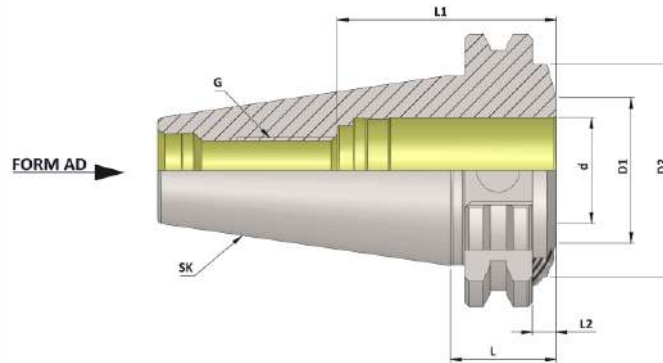
Key HC 5mm  
Ref. Page No.54

Note: All Dimensions are in mm

# SK (DIN 69871) (DIN ISO 7388 - 1) Short GP Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

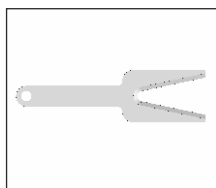


SK(DIN 69871) Hydraulic Expansion Chuck (Short GP)							(Balanced to 2.5 G 25000 RPM)			
Item Name	Item Code	SK	d	D1	D2	G	L	L1	L2	
SK40 HC20 24.60 SHORT G.P. 2.5G 25000 SL	K10104637614281	40	20	34	49.5	M16	24.6	51	5.5	

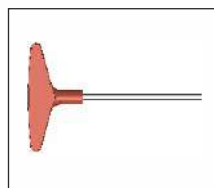
## Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No.52-53



Spanner HC  
Ref. Page No.54



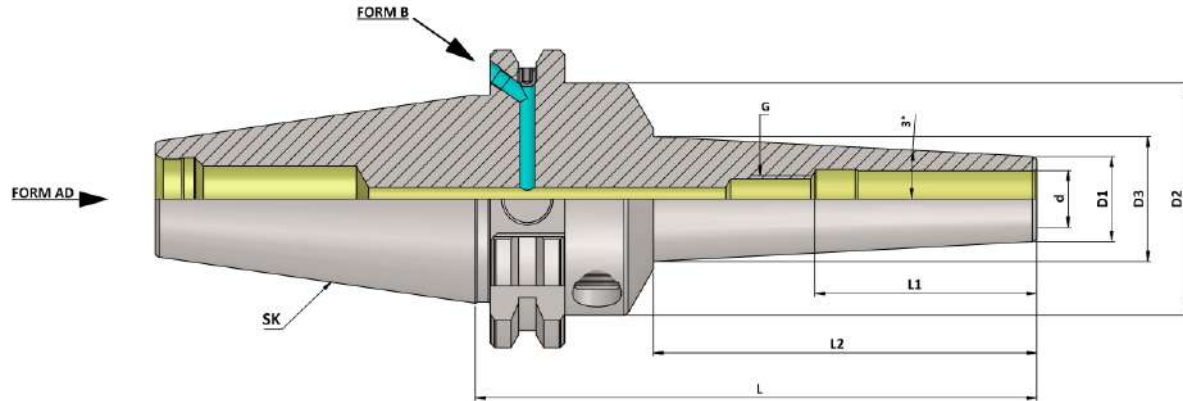
Key HC 5mm  
Ref. Page No.54

Note: All Dimensions are in mm

# SK (DIN 69871) (DIN ISO 7388 - 1) (AD/AF) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



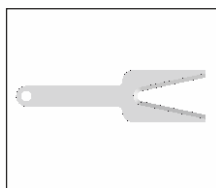
## SK(DIN 69871) Hydraulic Expansion Chuck Slim 3 Degree (AD+B) (AD/AF) (Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	SK	d	D1	D2	D3	G	L	L1	L2
SK40 HC03 080 SLIM AD+B/2.5G 25000 SL	K10104707131297	40	3	9	49.5	13.1920	M2.5	80	28	40
SK40 HC04 080 SLIM AD+B/2.5G 25000 SL	K10104708131297	40	4	10	49.5	14.1920	M2.5	80	28	40
SK40 HC05 080 SLIM AD+B/2.5G 25000 SL	K10104709131297	40	5	11	49.5	15.1920	M2.5	80	28	40
SK40 HC06 080 SLIM AD+B/2.5G 25000 SL	K10104642131297	40	6	12	49.5	16.1920	M5	80	37	40
SK40 HC08 080 SLIM AD+B/2.5G 25000 SL	K10104643131297	40	8	14	49.5	18.1920	M6	80	37	40
SK40 HC10 080 SLIM AD+B/2.5G 25000 SL	K10104644131297	40	10	16	49.5	20.2968	M8	80	41	41
SK40 HC12 080 SLIM AD+B/2.5G 25000 SL	K10104636131297	40	12	18	49.5	22.4016	M10	80	46	42
SK40 HC14 080 SLIM AD+B/2.5G 25000 SL	K10104645131297	40	14	22	49.5	26.4016	M10	80	46	42
SK40 HC16 080 SLIM AD+B/2.5G 25000 SL	K10104646131297	40	16	24	49.5	28.1920	M12	80	49	40
SK40 HC18 080 SLIM AD+B/2.5G 25000 SL	K10104647131297	40	18	26	49.5	30.1920	M12	80	49	40
SK40 HC20 085 SLIM AD+B/2.5G 25000 SL	K10104637131297	40	20	28	49.5	32.7160	M16	85	51	45

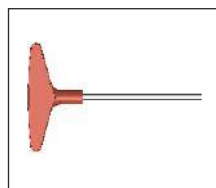
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No.52-53



Spanner HC  
Ref. Page No.54



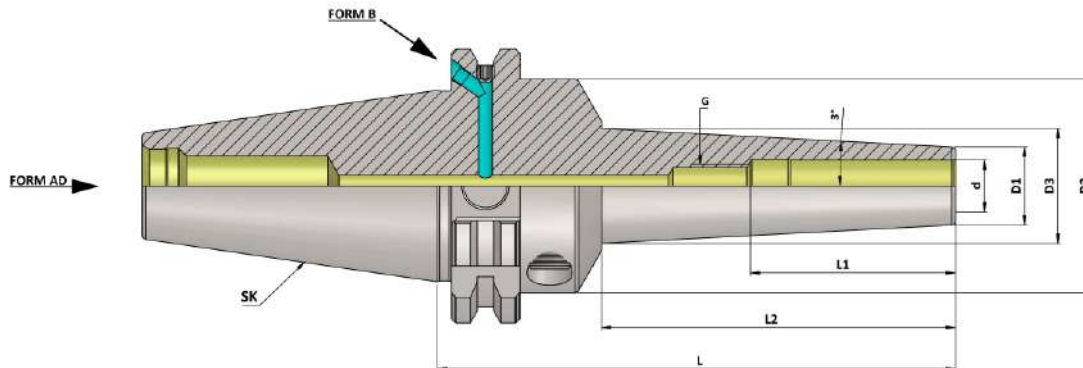
Key HC 5mm  
Ref. Page No.54

Note: All Dimensions are in mm

# SK (DIN 69871) (DIN ISO 7388 - 1) (AD/AF) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## SK(DIN 69871) Hydraulic Expansion Chuck Slim 3 Degree (AD+B) (AD/AF) (Balanced to 2.5 G 25000 RPM)

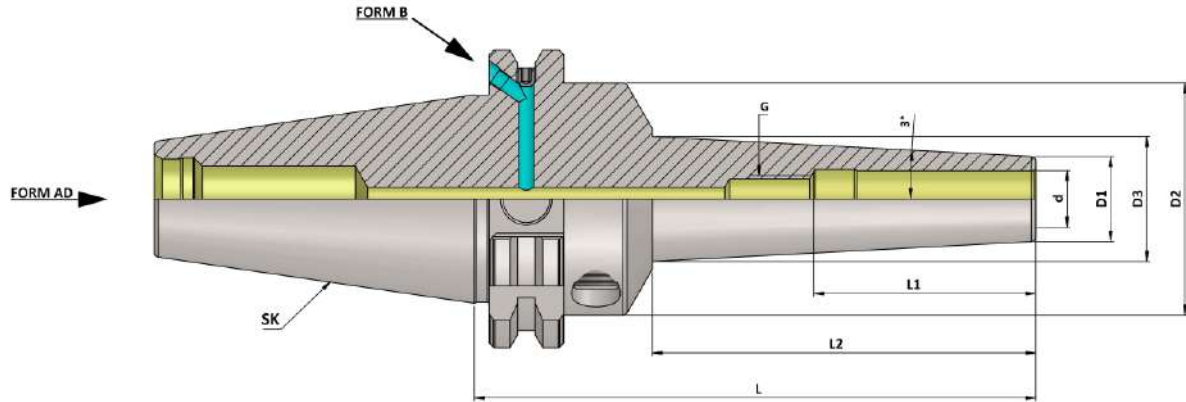
Item Name	Item Code	SK	d	D1	D2	D3	G	L	L1	L2
SK40 HC03 120 SLIM AD+B/2.5G 25000 SL	K10104707162259	40	3	9	49.5	17.3840	M2.5	120	28	80
SK40 HC03 160 SLIM AD+B/2.5G 25000 SL	K10104707175259	40	3	13	49.5	25.2616	M2.5	160	28	117
SK40 HC03 200 SLIM AD+B/2.5G 25000 SL	K10104707239259	40	3	13	49.5	29.5584	M2.5	200	28	158
SK40 HC04 120 SLIM AD+B/2.5G 25000 SL	K10104708162259	40	4	10	49.5	18.3840	M2.5	120	28	80
SK40 HC04 160 SLIM AD+B/2.5G 25000 SL	K10104708175259	40	4	14	49.5	26.2616	M2.5	160	28	117
SK40 HC04 200 SLIM AD+B/2.5G 25000 SL	K10104708239259	40	4	14	49.5	30.5584	M2.5	200	28	158
SK40 HC05 120 SLIM AD+B/2.5G 25000 SL	K10104709162259	40	5	11	49.5	19.3840	M2.5	120	28	80
SK40 HC05 160 SLIM AD+B/2.5G 25000 SL	K10104709175259	40	5	15	49.5	27.2616	M2.5	160	28	117
SK40 HC05 200 SLIM AD+B/2.5G 25000 SL	K10104709239259	40	5	15	49.5	31.5584	M2.5	200	28	158
SK40 HC06 120 SLIM AD+B/2.5G 25000 SL	K10104642162259	40	6	12	49.5	20.3840	M5	120	37	80
SK40 HC06 160 SLIM AD+B/2.5G 25000 SL	K10104642175259	40	6	16	49.5	28.4712	M5	160	37	119
SK40 HC06 200 SLIM AD+B/2.5G 25000 SL	K10104642239259	40	6	16	49.5	32.7680	M5	200	37	160
SK40 HC08 120 SLIM AD+B/2.5G 25000 SL	K10104643162259	40	8	14	49.5	22.3840	M6	120	37	80
SK40 HC08 160 SLIM AD+B/2.5G 25000 SL	K10104643175259	40	8	18	49.5	30.4712	M6	160	37	119
SK40 HC08 200 SLIM AD+B/2.5G 25000 SL	K10104643239259	40	8	18	49.5	34.7680	M6	200	37	160
SK40 HC10 120 SLIM AD+B/2.5G 25000 SL	K10104644162259	40	10	16	49.5	24.4888	M8	120	41	81
SK40 HC10 160 SLIM AD+B/2.5G 25000 SL	K10104644175259	40	10	20	49.5	32.6808	M8	160	41	121
SK40 HC10 200 SLIM AD+B/2.5G 25000 SL	K10104644239259	40	10	20	49.5	36.9776	M8	200	41	162
SK40 HC12 120 SLIM AD+B/2.5G 25000 SL	K10104636162259	40	12	18	49.5	26.5936	M10	120	46	82
SK40 HC12 160 SLIM AD+B/2.5G 25000 SL	K10104636175259	40	12	22	49.5	34.7856	M10	160	46	122
SK40 HC12 200 SLIM AD+B/2.5G 25000 SL	K10104636239259	40	12	22	49.5	39.0824	M10	200	46	163
SK40 HC14 120 SLIM AD+B/2.5G 25000 SL	K10104645162259	40	14	22	49.5	30.2792	M10	120	46	79
SK40 HC14 160 SLIM AD+B/2.5G 25000 SL	K10104645175259	40	14	26	49.5	38.6808	M10	160	46	121
SK40 HC14 200 SLIM AD+B/2.5G 25000 SL	K10104645239259	40	14	26	49.5	42.9776	M10	200	46	162
SK40 HC16 120 SLIM AD+B/2.5G 25000 SL	K10104646162259	40	16	24	49.5	32.2792	M12	120	49	79
SK40 HC16 160 SLIM AD+B/2.5G 25000 SL	K10104646175259	40	16	28	49.5	40.6808	M12	160	49	121
SK40 HC16 200 SLIM AD+B/2.5G 25000 SL	K10104646239259	40	16	28	49.5	44.9776	M12	200	49	162
SK40 HC18 120 SLIM AD+B/2.5G 25000 SL	K10104647162259	40	18	26	49.5	34.3840	M12	120	49	80
SK40 HC18 160 SLIM AD+B/2.5G 25000 SL	K10104647175259	40	18	30	49.5	42.7856	M12	160	49	122
SK40 HC18 200 SLIM AD+B/2.5G 25000 SL	K10104647239259	40	18	30	49.5	47.0824	M12	200	49	163
SK40 HC20 120 SLIM AD+B/2.5G 25000 SL	K10104637162259	40	20	28	49.5	36.3840	M16	120	51	80
SK40 HC20 160 SLIM AD+B/2.5G 25000 SL	K10104637175259	40	20	32	49.5	44.7856	M16	160	51	122
SK40 HC20 200 SLIM AD+B/2.5G 25000 SL	K10104637239259	40	20	32	49.5	49.0824	M16	200	51	163



# SK (DIN 69871) (DIN ISO 7388 - 1) (AD/AF) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

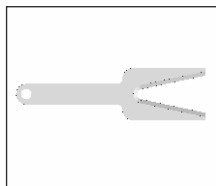


SK(DIN 69871) Hydraulic Expansion Chuck Slim 3 Degree (AD+B) (AD/AF) (Balanced to 2.5 G 25000 RPM)										
Item Name	Item Code	SK	d	D1	D2	D3	G	L	L1	L2
SK50 HC06 120 SLIM AD+B/2.5G 25000 SL	K10105642162259	50	6	12	49.5	16.1920	M5	120	37	80
SK50 HC08 120 SLIM AD+B/2.5G 25000 SL	K10105643162259	50	8	14	49.5	18.1920	M6	120	37	80
SK50 HC10 120 SLIM AD+B/2.5G 25000 SL	K10105644162259	50	10	16	49.5	20.2968	M8	120	41	81
SK50 HC12 120 SLIM AD+B/2.5G 25000 SL	K10105636162259	50	12	18	49.5	22.4016	M10	120	46	82
SK50 HC14 120 SLIM AD+B/2.5G 25000 SL	K10105645162259	50	14	22	49.5	26.4016	M10	120	46	79
SK50 HC16 120 SLIM AD+B/2.5G 25000 SL	K10105646162259	50	16	24	49.5	28.1920	M12	120	49	79
SK50 HC18 120 SLIM AD+B/2.5G 25000 SL	K10105647162259	50	18	26	49.5	30.1920	M12	120	49	80
SK50 HC20 120 SLIM AD+B/2.5G 25000 SL	K10105637162259	50	20	28	49.5	32.7160	M16	120	51	80

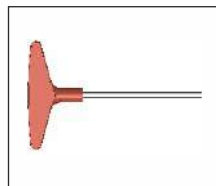
## Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No.52-53



Spanner HC  
Ref. Page No.54



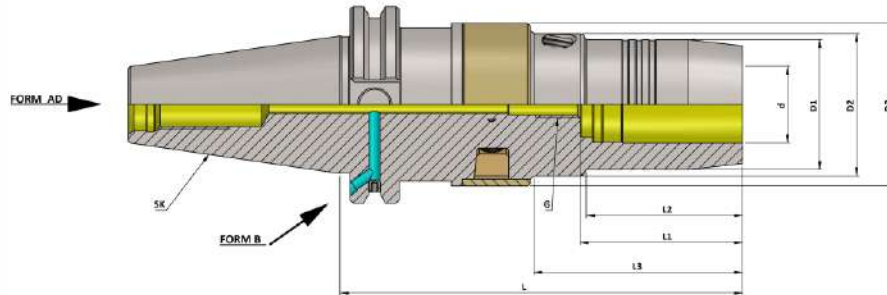
Key HC 5mm  
Ref. Page No.54

Note: All Dimensions are in mm

# SK (DIN 69871) (DIN ISO 7388-1) Hydraulic Expansion Chuck With Run Out Adjustment



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

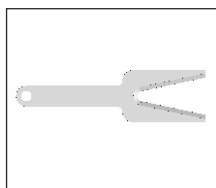


SK (DIN 69871) Hydraulic Expansion Chuck Run Out Adjustment												(Balanced to 2.5 G 25000 RPM)	
ITEM NAME	ITEM CODE	SK	d	D1	D2	D3	G	L	L1	L2	L3		
SK40 HC20 130 AD+B/RD 2.5G 25000 SL	K10104637156534	40	20	42	46	52.5	M8	130	51	50	67.5		
Sk40 HC32 150 AD+B/RD 2.5G 25000 SL	K10104638173534	40	32	42	46	52.5	M8	150	51	50	67.5		
SK50 HC20 110 AD+B/RD 2.5G 25000 SL	K10105637156534	50	20	42	46	52.5	M8	110	51	50	67.5		
SK50 HC32 125 AD+B/RD 2.5G 25000 SL	K10105638164534	50	32	42	46	52.5	M8	125	51	50	67.5		

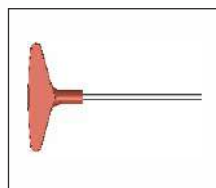
## Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No.52-53



Spanner HC  
Ref. Page No.54



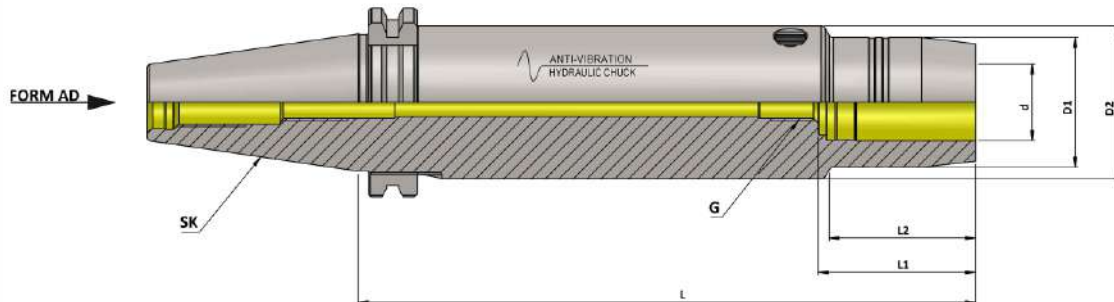
Key HC 5mm  
Ref. Page No.54

Note: All Dimensions are in mm

# SK (DIN 69871) (DIN ISO 7388-1) Hydraulic Expansion Chuck Anti - Vibration (HC-AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



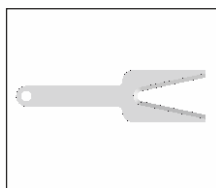
## SK (DIN 69871) Hydraulic Expansion Chuck Anti - Vibration

ITEM NAME	ITEM CODE	SK	d	D1	D2	G	L	L1	L2
SK40 HC20 200 AD/AV	K10104637239535	40	20	42	49.5	M16	200	51	47
SK40 HC20 250 AD/AV	K10104637182539	40	20	42	49.5	M16	250	51	47
SK40 HC20 300 AD/AV	K10104637183535	40	20	42	49.5	M16	300	51	47
SK50 HC20 200 AD/AV	K10105637239535	50	20	42	49.5	M16	200	51	42
SK50 HC20 250 AD/AV	K10105637182539	50	20	42	49.5	M16	250	51	42
SK50 HC20 300 AD/AV	K10105637183535	50	20	42	49.5	M16	300	51	42
SK50 HC20 350 AD/AV	K10105637184539	50	20	42	49.5	M16	350	51	42
SK50 HC20 400 AD/AV	K10105637540535	50	20	42	49.5	M16	400	51	42

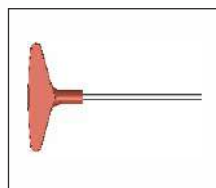
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No.52-53



Spanner HC  
Ref. Page No.54



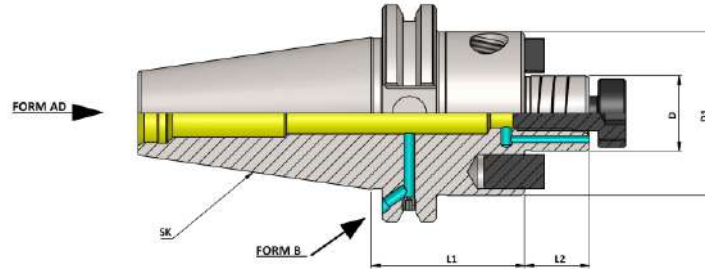
Key HC 5mm  
Ref. Page No.54

Note: All Dimensions are in mm

# SK (DIN 69871) (DIN ISO 7388-2) Hydraulic Expansion Face Mill Holder (HC-FMH-K)



Maximum Run out of the External Dia with respect to the External Taper 0.003 mm



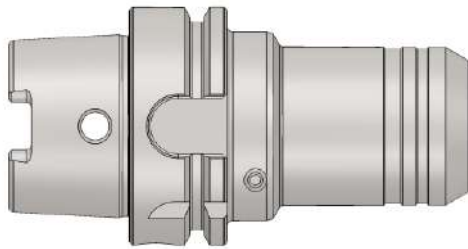
## SK (DIN 69871) Hydraulic Expansion Face Mill Holder (HC-FMH-K)

(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	SK	D	D1	L1	L2
SK40 HC FMH-K22 045 AD+B 2.5G 25000 SL	K10104934108282	40	22	48	45	19
SK40 HC FMH-K27 050 AD+B 2.5G 25000 SL	K10104935111282	40	27	58	50	21
SK40 HC FMH-K32 055 AD+B 2.5G 25000 SL	K10104936115282	40	32	78	55	24
SK40 HC FMH-K40 055 AD+B 2.5G 25000 SL	K10104937115230	40	40	88	55	27

SK50 HC FMH-K22 045 AD+B/2.5G 25000 SL	K10105934108230	50	22	48	45	19
SK50 HC FMH-K27 045 AD+B/2.5G 25000 SL	K10105935108230	50	27	58	45	21
SK50 HC FMH-K32 050 AD+B/2.5G 25000 SL	K10105936111230	50	32	78	50	24
SK50 HC FMH-K40 055 AD+B/2.5G 25000 SL	K10105937115230	50	40	88	55	27

**HSK-A (DIN 69893-1)**



**HSK-C (DIN 69893-1)**

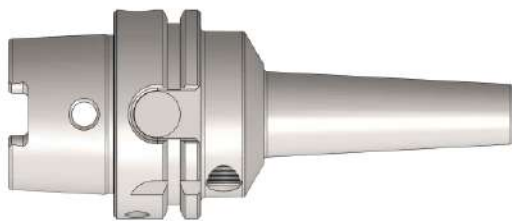


**HSK-E (DIN 69893-5)**

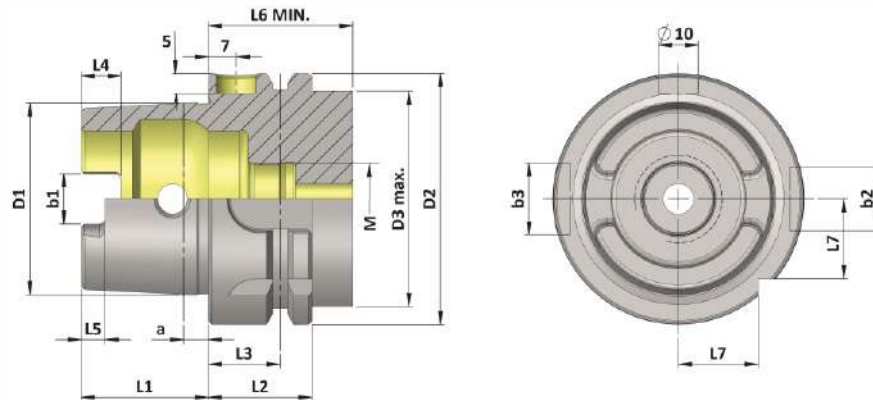


**HSK-F (DIN 69893-6)**

**HSK (DIN 69893) Slim 3 Degree Series**



# HSK-A (DIN 69893-1) Form A Technical Information



HSK-A	D1	D2	D3	a	b1	b2	b3	M	L1	L2	L3	L4	L5	L6	L7
32	24	32	26	3.20	7.05	7	9	M10x1	16	20	16	5	3	35	9.50
40	30	40	34	4	8.05	9	11	M12x1	20	20	16	6	3.50	35	12
50	38	50	42	5	10.54	12	14	M16x1	25	26	18	7.50	4.50	42	15.50
63	48	63	53	6.30	12.54	16	18	M18x1	32	26	18	10	6	42	20
80	60	80	68	8	16.04	18	20	M20x1.5	40	26	18	12	8	42	25
100	75	100	88	10	20.02	20	22	M24x1.5	50	29	20	15	10	45	31.50
125	95	125	111	12.50	25.02	25	28	M30x1.5	63	29	20	19	12	45	39.50

Material :- Case hardened steel, tensile strength in the core min. 950 N/mm<sup>2</sup>

Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish.

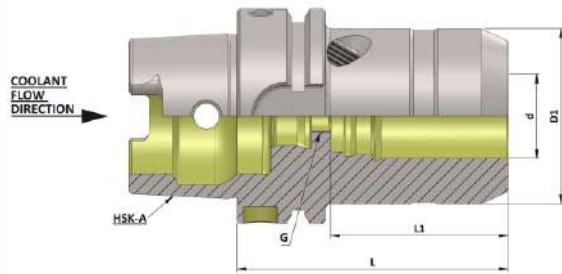
Accuracy :- Taper Angle Class AT 3

# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck

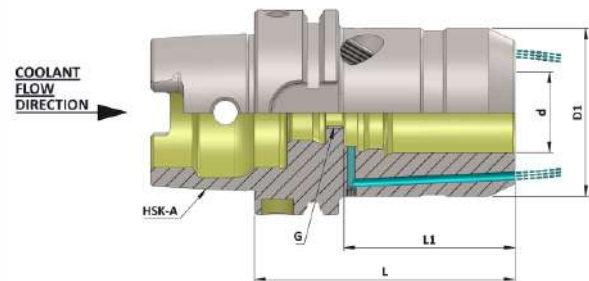


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

**HEAVY DUTY**



HSK-A (DIN 69893 - 1) Hydraulic Expansion Chuck



HSK-A (DIN 69893 - 1) Hydraulic Expansion Chuck (FCC)

## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck

(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	HSK-A	d	D1	G	L	L1
HSK-A 50 HC12S 085 2.5G 25000 SL	K10306629135283	50	12	42	M10	85	40
HSK-A 50 HC20S 090 2.5G 25000 SL	K10306168140283	50	20	50	M8	90	42
HSK-A 63 HC12S 080 2.5G 25000 SL	K10305629131283	63	12	42	-	80	40
HSK-A 63 HC20S 080 2.5G 25000 SL	K10305168131283	63	20	50	-	80	42
HSK-A 100 HC12S 095 2.5G 25000 SL	K10168629145283	100	12	42	M10	95	40
HSK-A 100 HC20S 090 2.5G 25000 SL	K10168168140283	100	20	50	M16	90	42
HSK-A 100 HC32S 110 2.5G 25000 SL	K10168272156283	100	32	72	M16	110	55
HSK-A 50 HC1/2"S 085 2.5G 25000 SL	K10166953135283	50	1/2"	42	M10	85	40
HSK-A 50 HC3/4"S 090 2.5G 25000 SL	K10166954140283	50	3/4"	50	M8	90	42
HSK-A 63 HC1/2"S 080 2.5G 25000 SL	K10316953131283	63	1/2"	42	-	80	40
HSK-A 63 HC3/4"S 080 2.5G 25000 SL	K10316954131283	63	3/4"	50	-	80	42
HSK-A 100 HC1/2"S 095 2.5G 25000 SL	K10168953145283	100	1/2"	42	M10	95	40
HSK-A 100 HC3/4"S 090 2.5G 25000 SL	K10168954140283	100	3/4"	50	M16	90	42
HSK-A 100 HC1-1/4"S 110 2.5G 25000 SL	K10168955156283	100	1-1/4"	72	M16	110	55

## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck (FCC)

(Balanced to 2.5 G 25000 RPM)

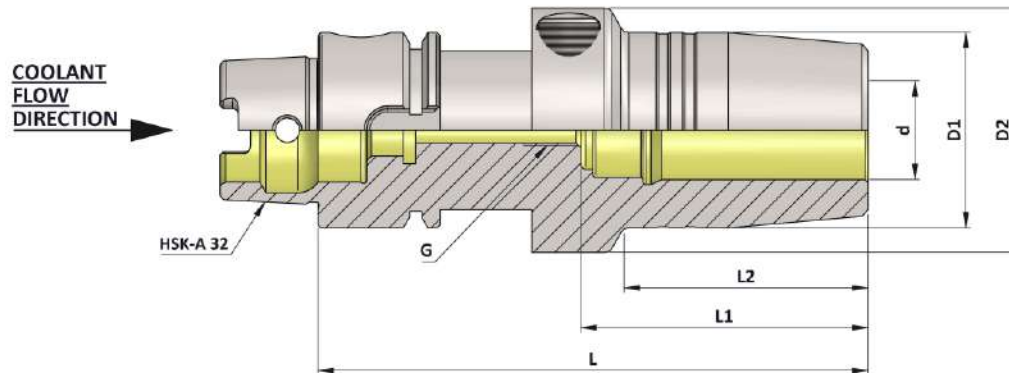
Item Name	Item Code	HSK-A	d	D1	G	L	L1
HSK-A 50 HC12S 085 FCC 2.5G 25000 SL	K10166629135227	50	12	42	M10	85	40
HSK-A 50 HC20S 090 FCC 2.5G 25000 SL	K10166168141124	50	20	50	M8	90	42
HSK-A 63 HC12S 080 FCC 2.5G 25000 SL	K10305629135227	63	12	42	-	80	40
HSK-A 63 HC20S 080 FCC 2.5G 25000 SL	K10167168141124	63	20	50	-	80	42
HSK-A 100 HC12S 095 FCC 2.5G 25000 SL	K10168629131255	100	12	42	M10	95	40
HSK-A 100 HC20S 090 FCC 2.5G 25000 SL	K10168168152124	100	20	50	M16	90	42
HSK-A 100 HC32S 110 FCC 2.5G 25000 SL	K10168272156227	100	32	72	M16	110	55

Note: All Dimensions are in mm

# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck (Balanced to 2.5 G 25000 RPM)

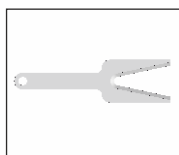
Item Name	Item Code	HSK-A	d	D1	D2	G	L	L1	L2
HSK-A 32 HC06 080 2.5G 25000 SL	K10319642131283	32	6	26	40	M5	80	37	29
HSK-A 32 HC08 080 2.5G 25000 SL	K10319643131283	32	8	28	40	M6	80	37	29
HSK-A 32 HC10 085 2.5G 25000 SL	K10319644135283	32	10	30	40	M6	85	41	35
HSK-A 32 HC12 090 2.5G 25000 SL	K10319636140283	32	12	32	40	M6	90	46	40

HSK-A 32 HC1/4" 080 2.5G 25000 SL	K10319649131283	32	1/4"	26	40	M5	80	37	29
HSK-A 32 HC5/16" 080 2.5G 25000 SL	K10319956131283	32	5/16"	28	40	M6	80	37	29
HSK-A 32 HC3/8" 085 2.5G 25000 SL	K10319650135283	32	3/8"	30	40	M6	85	41	35
HSK-A 32 HC1/2" 090 2.5G 25000 SL	K10319652140283	32	1/2"	32	40	M6	90	46	40

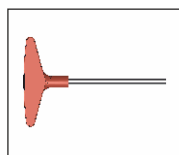
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



Key HC 5mm  
Ref. Page No. 103

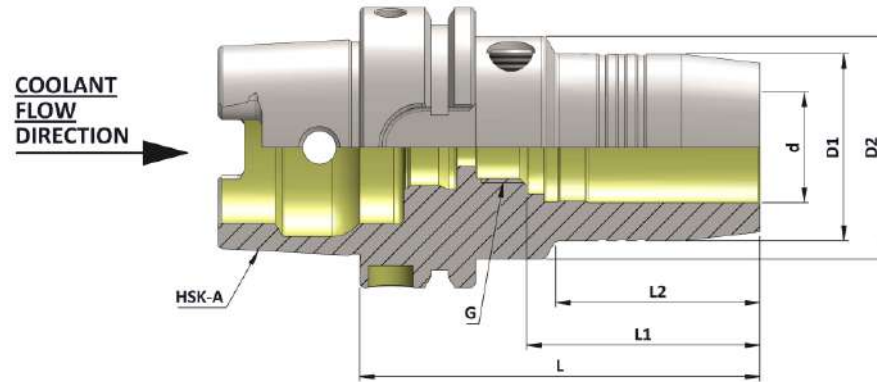
Note: All Dimensions are in mm



# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck (Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	HSK-A	d	D1	D2	G	L	L1	L2
HSK-A 40 HC06 070 2.5G 25000 SL	K10165642125283	40	6	26	33.5	M5	70	37	36
HSK-A 40 HC08 070 2.5G 25000 SL	K10165643125283	40	8	28	33.5	M6	70	37	36
HSK-A 40 HC10 075 2.5G 25000 SL	K10165644127283	40	10	30	33.5	M6	75	41	42
HSK-A 40 HC12 080 2.5G 25000 SL	K10165636131283	40	12	32	33.5	M6	80	46	48

HSK-A 40 HC1/4" 070 2.5G 25000 SL	K10165649125283	40	1/4"	26	33.5	M5	70	37	36
HSK-A 40 HC5/16" 070 2.5G 25000 SL	K10165956125283	40	5/16"	28	33.5	M6	70	37	36
HSK-A 40 HC3/8" 075 2.5G 25000 SL	K10165650127283	40	3/8"	30	33.5	M6	75	41	42
HSK-A 40 HC1/2" 080 2.5G 25000 SL	K10165652131283	40	1/2"	32	33.5	M6	80	46	48

HSK-A 50 HC06 070 2.5G 25000 SL	K10306642125281	50	6	26	40	M5	70	37	28
HSK-A 50 HC08 070 2.5G 25000 SL	K10306643125281	50	8	28	40	M6	70	37	28
HSK-A 50 HC10 075 2.5G 25000 SL	K10306644127281	50	10	30	40	M8	75	41	34
HSK-A 50 HC12 085 2.5G 25000 SL	K10306636135275	50	12	32	40	M10	85	46	44
HSK-A 50 HC14 085 2.5G 25000 SL	K10306645135281	50	14	34	40	M10	85	46	44
HSK-A 50 HC16 090 2.5G 25000 SL	K10306646140281	50	16	38	53	M12	90	49	30
HSK-A 50 HC18 090 2.5G 25000 SL	K10306647140281	50	18	40	53	M12	90	49	30
HSK-A 50 HC20 090 2.5G 25000 SL	K10306637140275	50	20	42	57	M16	90	51	29

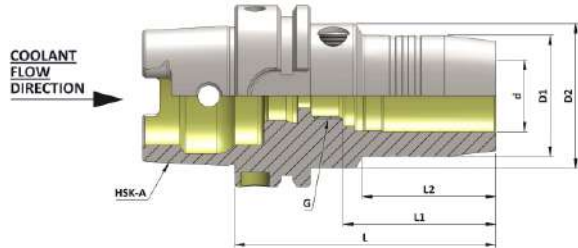
HSK-A 50 HC1/4" 070 2.5G 25000 SL	K10166649125283	50	1/4"	26	40	M5	70	37	28
HSK-A 50 HC5/16" 070 2.5G 25000 SL	K10166956125283	50	5/16"	28	40	M6	70	37	28
HSK-A 50 HC3/8" 075 2.5G 25000 SL	K10166650127283	50	3/8"	30	40	M8	75	41	34
HSK-A 50 HC1/2" 085 2.5G 25000 SL	K10166652135283	50	1/2"	32	40	M10	85	46	44
HSK-A 50 HC5/8" 090 2.5G 25000 SL	K10166651140283	50	5/8"	38	53	M12	90	49	30
HSK-A 50 HC3/4" 090 2.5G 25000 SL	K10166653140283	50	3/4"	42	57	M16	90	51	29

Note: All Dimensions are in mm

# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck

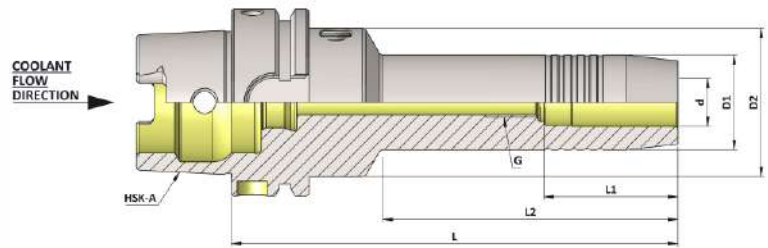


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**

**HSK-A (DIN 69893 - 1) Hydraulic Expansion Chuck**



**Long GP**

**HSK-A (DIN 69893 - 1) Hydraulic Expansion Chuck**

## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck

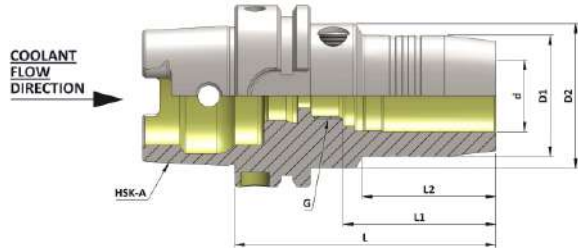
(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	HSK-A	d	D1	D2	G	L	L1	L2
HSK-A 63 HC06 070 2.5G 25000 SL	K10305642125281	63	6	26	50	M5	70	37	24
HSK-A 63 HC06 120 2.5G 25000 SL	K10305642162283	63	6	26	50	M5	120	37	73
HSK-A 63 HC06 150 2.5G 25000 SL	K10305642173281	63	6	26	50	M5	150	37	103
HSK-A 63 HC06 200 2.5G 25000 SL	K10305642239281	63	6	26	50	M5	200	37	153
HSK-A 63 HC08 070 2.5G 25000 SL	K10305643125281	63	8	28	50	M6	70	37	25
HSK-A 63 HC08 120 2.5G 25000 SL	K10305643162283	63	8	28	50	M6	120	37	74
HSK-A 63 HC08 150 2.5G 25000 SL	K10305643173281	63	8	28	50	M6	150	37	104
HSK-A 63 HC08 200 2.5G 25000 SL	K10305643239281	63	8	28	50	M6	200	37	154
HSK-A 63 HC10 080 2.5G 25000 SL	K10305644131281	63	10	30	50	M8	80	41	35
HSK-A 63 HC10 120 2.5G 25000 SL	K10305644162283	63	10	30	50	M8	120	41	74
HSK-A 63 HC10 150 2.5G 25000 SL	K10305644173281	63	10	30	50	M8	150	41	104
HSK-A 63 HC10 200 2.5G 25000 SL	K10305644239281	63	10	30	50	M8	200	41	154
HSK-A 63 HC12 085 2.5G 25000 SL	K10305636135275	63	12	32	50	M10	85	46	40
HSK-A 63 HC12 120 2.5G 25000 SL	K10305636162283	63	12	32	50	M10	120	46	75
HSK-A 63 HC12 150 2.5G 25000 SL	K10305636173275	63	12	32	50	M10	150	46	105
HSK-A 63 HC12 200 2.5G 25000 SL	K10305636239275	63	12	32	50	M10	200	46	155
HSK-A 63 HC14 085 2.5G 25000 SL	K10305645135281	63	14	34	50	M10	85	46	40
HSK-A 63 HC14 120 2.5G 25000 SL	K10305645162283	63	14	34	50	M10	120	46	75
HSK-A 63 HC14 150 2.5G 25000 SL	K10305645173281	63	14	34	50	M10	150	46	105
HSK-A 63 HC14 200 2.5G 25000 SL	K10305645239281	63	14	34	50	M10	200	46	155
HSK-A 63 HC16 090 2.5G 25000 SL	K10305646140281	63	16	38	50	M12	90	49	46
HSK-A 63 HC16 120 2.5G 25000 SL	K10305646162283	63	16	38	50	M12	120	49	76
HSK-A 63 HC16 150 2.5G 25000 SL	K10305646173281	63	16	38	50	M12	150	49	106
HSK-A 63 HC16 200 2.5G 25000 SL	K10305646239281	63	16	38	50	M12	200	49	156
HSK-A 63 HC18 090 2.5G 25000 SL	K10305647140281	63	18	40	50	M12	90	49	47
HSK-A 63 HC18 120 2.5G 25000 SL	K10305647162283	63	18	40	50	M12	120	49	77
HSK-A 63 HC18 150 2.5G 25000 SL	K10305647173281	63	18	40	50	M12	150	49	107
HSK-A 63 HC18 200 2.5G 25000 SL	K10305647239281	63	18	40	50	M12	200	49	157
HSK-A 63 HC20 090 2.5G 25000 SL	K10305637140275	63	20	42	50	M16	90	51	48
HSK-A 63 HC20 120 2.5G 25000 SL	K10305637162283	63	20	42	50	M16	120	51	78
HSK-A 63 HC20 150 2.5G 25000 SL	K10305637173275	63	20	42	50	M16	150	51	108
HSK-A 63 HC20 200 2.5G 25000 SL	K10305637239275	63	20	42	50	M16	200	51	158
HSK-A 63 HC25 120 2.5G 25000 SL	K10305648162281	63	25	57	50	M16	120	57	63
HSK-A 63 HC32 125 2.5G 25000 SL	K10305638164275	63	32	63	50	M16	125	61	61

# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck

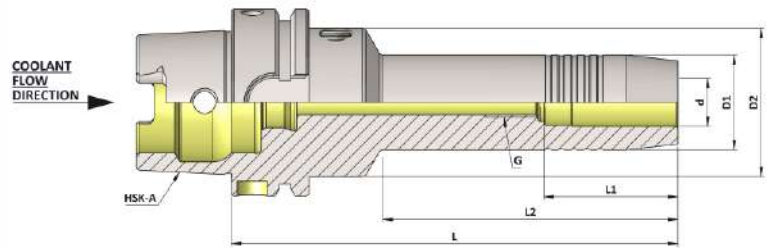


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**

**HSK-A (DIN 69893 - 1) Hydraulic Expansion Chuck**



**Long GP**

**HSK-A (DIN 69893 - 1) Hydraulic Expansion Chuck**

## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck

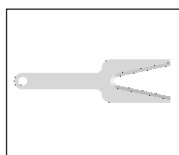
(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	HSK-A	d	D1	D2	G	L	L1	L2
HSK-A 63 HC1/4" 070 2.5G 25000 SL	K10305649622283	63	1/4"	26	50	M5	70	37	24
HSK-A 63 HC1/4" 120 2.5G 25000 SL	K10316649162283	63	1/4"	26	50	M5	120	37	73
HSK-A 63 HC1/4" 150 2.5G 25000 SL	K10316649173283	63	1/4"	26	50	M5	150	37	103
HSK-A 63 HC1/4" 200 2.5G 25000 SL	K10316649239283	63	1/4"	26	50	M5	200	37	153
HSK-A 63 HC5/16" 070 2.5G 25000 SL	K10316956125283	63	5/16"	28	50	M6	70	37	25
HSK-A 63 HC5/16" 120 2.5G 25000 SL	K10316956162283	63	5/16"	28	50	M6	120	37	74
HSK-A 63 HC5/16" 150 2.5G 25000 SL	K10316956173283	63	5/16"	28	50	M6	150	37	104
HSK-A 63 HC5/16" 200 2.5G 25000 SL	K10316956239283	63	5/16"	28	50	M6	200	37	154
HSK-A 63 HC3/8" 080 2.5G 25000 SL	K10305650623283	63	3/8"	30	50	M8	80	41	35
HSK-A 63 HC3/8" 120 2.5G 25000 SL	K10316650162283	63	3/8"	30	50	M8	120	41	74
HSK-A 63 HC3/8" 150 2.5G 25000 SL	K10316650173283	63	3/8"	30	50	M8	150	41	104
HSK-A 63 HC3/8" 200 2.5G 25000 SL	K10316650239283	63	3/8"	30	50	M8	200	41	154
HSK-A 63 HC1/2" 085 2.5G 25000 SL	K10305652624283	63	1/2"	32	50	M10	85	46	40
HSK-A 63 HC1/2" 120 2.5G 25000 SL	K10316652162283	63	1/2"	32	50	M10	120	46	75
HSK-A 63 HC1/2" 150 2.5G 25000 SL	K10316652173283	63	1/2"	32	50	M10	150	46	105
HSK-A 63 HC1/2" 200 2.5G 25000 SL	K10316652239283	63	1/2"	32	50	M10	200	46	155
HSK-A 63 HC5/8" 090 2.5G 25000 SL	K10316651140283	63	5/8"	38	50	M12	90	49	46
HSK-A 63 HC5/8" 120 2.5G 25000 SL	K10316651162283	63	5/8"	38	50	M12	120	49	76
HSK-A 63 HC5/8" 150 2.5G 25000 SL	K10316651173283	63	5/8"	38	50	M12	150	49	106
HSK-A 63 HC5/8" 200 2.5G 25000 SL	K10316651239283	63	5/8"	38	50	M12	200	49	156
HSK-A 63 HC3/4" 090 2.5G 25000 SL	K10305653628283	63	3/4"	42	50	M16	90	51	48
HSK-A 63 HC3/4" 120 2.5G 25000 SL	K10316653162283	63	3/4"	42	50	M16	120	51	78
HSK-A 63 HC3/4" 150 2.5G 25000 SL	K10316653173283	63	3/4"	42	50	M16	150	51	108
HSK-A 63 HC3/4" 200 2.5G 25000 SL	K10316653239283	63	3/4"	42	50	M16	200	51	158
HSK-A 63 Hc1" 120 2.5G 25000 SL	K10305656625283	63	1"	57	50	M16	120	57	63
HSK-A 63 HC1-1/4" 125 2.5G 25000 SL	K10305655626283	63	1-1/4"	63	50	M16	125	61	61

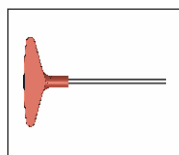
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



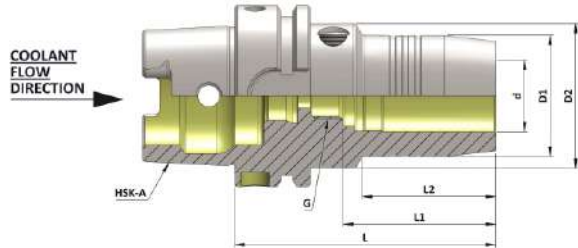
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck

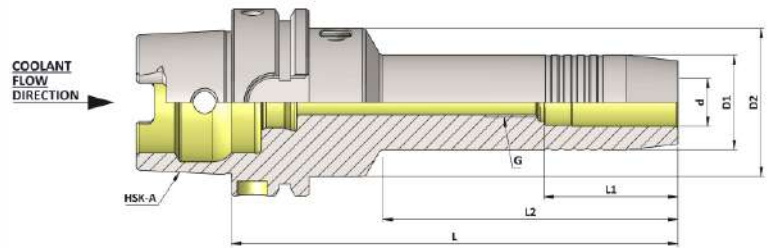


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**

**HSK-A (DIN 69893 - 1) Hydraulic Expansion Chuck**



**Long GP**

**HSK-A (DIN 69893 - 1) Hydraulic Expansion Chuck**

## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck

(Balanced to 2.5 G 25000 RPM)

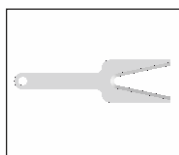
Item Name	Item Code	HSK-A	d	D1	D2	G	L	L1	L2
HSK-A 80 HC06 070 2.5G 25000 SL	K10320642125283	80	6	26	50	M5	70	37	24
HSK-A 80 HC08 070 2.5G 25000 SL	K10320643125283	80	8	28	50	M6	70	37	24
HSK-A 80 HC10 080 2.5G 25000 SL	K10320644131283	80	10	30	50	M8	80	41	35
HSK-A 80 HC12 085 2.5G 25000 SL	K10320636135283	80	12	32	50	M10	85	46	40
HSK-A 80 HC14 085 2.5G 25000 SL	K10320645135283	80	14	34	50	M10	85	46	40
HSK-A 80 HC16 095 2.5G 25000 SL	K10320646145283	80	16	38	50	M12	95	49	51
HSK-A 80 HC18 095 2.5G 25000 SL	K10320647145283	80	18	40	50	M12	95	49	51
HSK-A 80 HC20 095 2.5G 25000 SL	K10320637145283	80	20	42	50	M16	95	51	51
HSK-A 80 HC25 110 2.5G 25000 SL	K10320648156283	80	25	57	63	M16	110	57	65
HSK-A 80 HC32 125 2.5G 25000 SL	K10320638164283	80	32	63	63	M16	125	61	63

HSK-A 80 HC1/4" 070 2.5G 25000 SL	K10320649125283	80	1/4"	26	50	M5	70	37	24
HSK-A 80 HC5/16" 070 2.5G 25000 SL	K10320956125283	80	5/16"	28	50	M6	70	37	24
HSK-A 80 HC3/8" 080 2.5G 25000 SL	K10320650131283	80	3/8"	30	50	M8	80	41	35
HSK-A 80 HC1/2" 085 2.5G 25000 SL	K10320652135283	80	1/2"	32	50	M10	85	46	40
HSK-A 80 HC5/8" 095 2.5G 25000 SL	K10320651145283	80	5/8"	38	50	M12	95	49	51
HSK-A 80 HC3/4" 095 2.5G 25000 SL	K10320653145283	80	3/4"	42	50	M16	95	51	51
HSK-A 80 Hc1" 110 2.5G 25000 SL	K10320957156283	80	1"	57	63	M16	110	57	65
HSK-A 80 HC1-1/4" 125 2.5G 25000 SL	K10320655164283	80	1-1/4"	63	63	M16	125	61	63

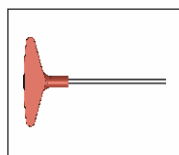
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



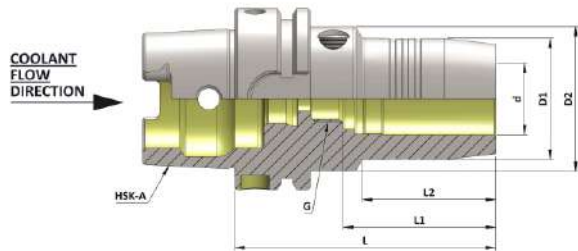
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck

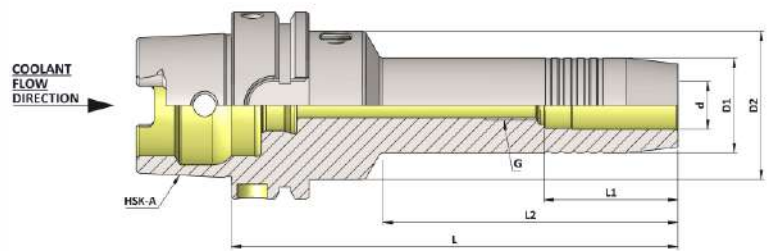


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**

**HSK-A (DIN 69893 - 1) Hydraulic Expansion Chuck**



**Long GP**

**HSK-A (DIN 69893 - 1) Hydraulic Expansion Chuck**

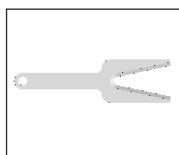
## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck (Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	HSK-A	d	D1	D2	G	L	L1	L2
HSK-A 100 HC06 075 2.5G 25000 SL	K10168642127281	100	6	26	50	M5	75	37	26
HSK-A 100 HC06 150 2.5G 25000 SL	K10168642173281	100	6	26	50	M5	150	37	100
HSK-A 100 HC06 200 2.5G 25000 SL	K10168642239281	100	6	26	50	M5	200	37	150
HSK-A 100 HC08 075 2.5G 25000 SL	K10168643127281	100	8	28	50	M6	75	37	26
HSK-A 100 HC08 150 2.5G 25000 SL	K10168643173281	100	8	28	50	M6	150	37	100
HSK-A 100 HC08 200 2.5G 25000 SL	K10168643239281	100	8	28	50	M6	200	37	150
HSK-A 100 HC10 090 2.5G 25000 SL	K10168644140281	100	10	30	50	M8	90	41	42
HSK-A 100 HC10 150 2.5G 25000 SL	K10168644173281	100	10	30	50	M8	150	41	100
HSK-A 100 HC10 200 2.5G 25000 SL	K10168644239281	100	10	30	50	M8	200	41	150
HSK-A 100 HC12 095 2.5G 25000 SL	K10168636145275	100	12	32	50	M10	95	46	47
HSK-A 100 HC12 150 2.5G 25000 SL	K10168636173275	100	12	32	50	M10	150	46	100
HSK-A 100 HC12 200 2.5G 25000 SL	K10168636239275	100	12	32	50	M10	200	46	150
HSK-A 100 HC14 095 2.5G 25000 SL	K10168645145281	100	14	34	50	M10	95	46	47
HSK-A 100 HC14 150 2.5G 25000 SL	K10168645173281	100	14	34	50	M10	150	46	100
HSK-A 100 HC14 200 2.5G 25000 SL	K10168645239281	100	14	34	50	M10	200	46	150
HSK-A 100 HC16 100 2.5G 25000 SL	K10168646148281	100	16	38	50	M12	100	49	53
HSK-A 100 HC16 150 2.5G 25000 SL	K10168646173281	100	16	38	50	M12	150	49	100
HSK-A 100 HC16 200 2.5G 25000 SL	K10168646239281	100	16	38	50	M12	200	49	150
HSK-A 100 HC18 100 2.5G 25000 SL	K10168647148281	100	18	40	50	M12	100	49	53
HSK-A 100 HC18 150 2.5G 25000 SL	K10168647173281	100	18	40	50	M12	150	49	100
HSK-A 100 HC18 200 2.5G 25000 SL	K10168647239281	100	18	40	50	M12	200	49	150
HSK-A 100 HC20 105 2.5G 25000 SL	K10168637152275	100	20	42	50	M16	105	51	59
HSK-A 100 HC20 150 2.5G 25000 SL	K10168637173275	100	20	42	50	M16	150	51	100
HSK-A 100 HC20 200 2.5G 25000 SL	K10168637239275	100	20	42	50	M16	200	51	150
HSK-A 100 HC25 110 2.5G 25000 SL	K10168648159281	100	25	57	63	M16	110	57	62
HSK-A 100 HC32 110 2.5G 25000 SL	K10168638162275	100	32	63	67	M16	110	61	60

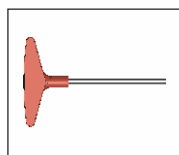
**Accessories:**



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



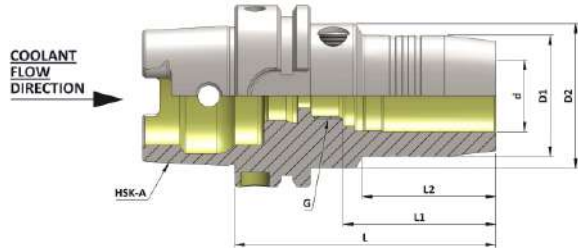
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck

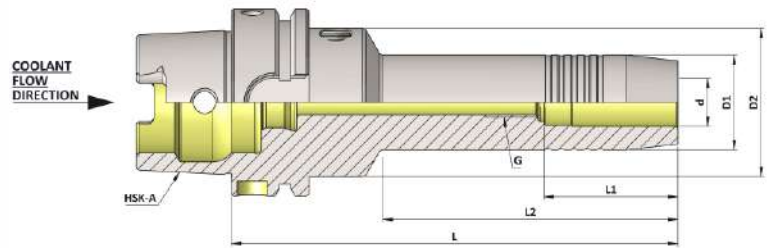


Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



**Standard GP**

**HSK-A (DIN 69893 - 1) Hydraulic Expansion Chuck**



**Long GP**

**HSK-A (DIN 69893 - 1) Hydraulic Expansion Chuck**

## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck

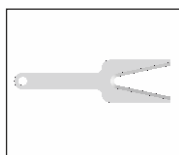
(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	HSK-A	d	D1	D2	G	L	L1	L2
HSK-A 100 HC1/4" 075 2.5G 25000 SL	K10168649127283	100	1/4"	26	50	M5	75	37	26
HSK-A 100 HC1/4" 150 2.5G 25000 SL	K10168649173283	100	1/4"	26	50	M5	150	37	100
HSK-A 100 HC1/4" 200 2.5G 25000 SL	K10168649239283	100	1/4"	26	50	M5	200	37	150
HSK-A 100 HC5/16" 075 2.5G 25000 SL	K10168956127283	100	5/16"	28	50	M6	75	37	26
HSK-A 100 HC5/16" 150 2.5G 25000 SL	K10168956173283	100	5/16"	28	50	M6	150	37	100
HSK-A 100 HC5/16" 200 2.5G 25000 SL	K10168956239283	100	5/16"	28	50	M6	200	37	150
HSK-A 100 HC3/8" 090 2.5G 25000 SL	K10168650140283	100	3/8"	30	50	M8	90	41	42
HSK-A 100 HC3/8" 150 2.5G 25000 SL	K10168650173283	100	3/8"	30	50	M8	150	41	100
HSK-A 100 HC3/8" 200 2.5G 25000 SL	K10168650239283	100	3/8"	30	50	M8	200	41	150
HSK-A 100 HC1/2" 095 2.5G 25000 SL	K10168652145283	100	1/2"	32	50	M10	95	46	47
HSK-A 100 HC1/2" 150 2.5G 25000 SL	K10168652173283	100	1/2"	32	50	M10	150	46	100
HSK-A 100 HC1/2" 200 2.5G 25000 SL	K10168652239283	100	1/2"	32	50	M10	200	46	150
HSK-A 100 HC5/8" 100 2.5G 25000 SL	K10168651148283	100	5/8"	38	50	M12	100	49	53
HSK-A 100 HC5/8" 150 2.5G 25000 SL	K10168651173283	100	5/8"	38	50	M12	150	49	100
HSK-A 100 HC5/8" 200 2.5G 25000 SL	K10168651239283	100	5/8"	38	50	M12	200	49	150
HSK-A 100 HC3/4" 105 2.5G 25000 SL	K10168653152283	100	3/4"	42	50	M16	105	51	59
HSK-A 100 HC3/4" 150 2.5G 25000 SL	K10168653173283	100	3/4"	42	50	M16	150	51	100
HSK-A 100 HC3/4" 200 2.5G 25000 SL	K10168653239283	100	3/4"	42	50	M16	200	51	150
HSK-A 100 HC1" 110 2.5G 25000 SL	K10168957156283	100	1"	57	63	M16	110	57	62
HSK-A 100 HC1-1/4" - 110 2.5G 25000 SL	K10168655627283	100	1-1/4"	64	75	M16	110	61	62

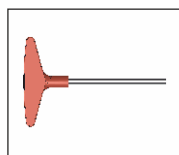
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



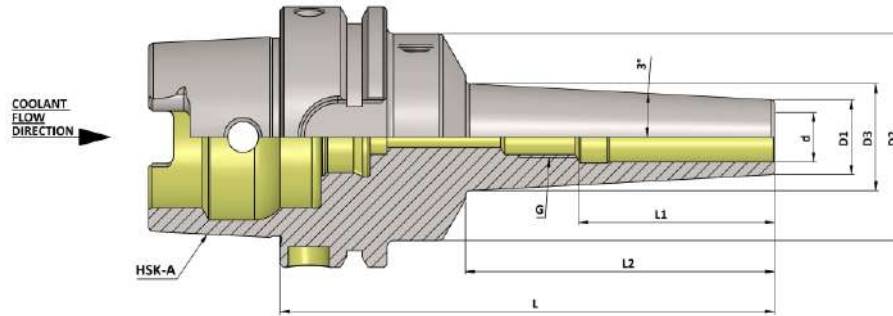
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck Slim 3 Degree (Balanced to 2.5 G 25000 RPM)

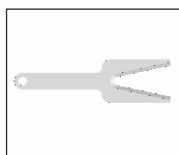
Item Name	Item Code	HSK-A	d	D1	D2	D3	G	L	L1	L2
HSK-A 40 HC03 085 SLIM 2.5G 25000 SL	K10165707135258	40	3	9	34	13.7160	M2.5	85	28	45
HSK-A 40 HC04 085 SLIM 2.5G 25000 SL	K10165708135258	40	4	10	34	14.7160	M2.5	85	28	45
HSK-A 40 HC05 085 SLIM 2.5G 25000 SL	K10165709135258	40	5	11	34	15.7160	M2.5	85	28	45
HSK-A 40 HC06 085 SLIM 2.5G 25000 SL	K10165642135258	40	6	12	34	16.8208	M5	85	37	46
HSK-A 40 HC08 085 SLIM 2.5G 25000 SL	K10165643135258	40	8	14	34	18.8208	M6	85	37	46
HSK-A 40 HC10 085 SLIM 2.5G 25000 SL	K10165644135258	40	10	16	34	20.9256	M5	85	41	47
HSK-A 40 HC12 085 SLIM 2.5G 25000 SL	K10165636135258	40	12	18	34	22.9256	M5	85	46	47

HSK-A 40 HC1/8" 085 SLIM 2.5G 25000SL	K10165961135258	40	1/8"	9	34	13.716	M2.5	85	28	45
HSK-A 40 HC3/16" 085 SLIM 2.5G 25000SL	K10165962135258	40	3/16"	10	34	14.716	M2.5	85	28	45
HSK-A 40 HC1/4" 085 SLIM 2.5G 25000SL	K10165649135258	40	1/4"	12	34	16.8208	M5	85	37	46
HSK-A 40 HC5/16" 085 SLIM 2.5G 25000SL	K10165956135258	40	5/16"	14	34	18.8208	M6	85	37	46
HSK-A 40 HC3/8" 085 SLIM 2.5G 25000SL	K10165650135258	40	3/8"	16	34	20.9256	M5	85	41	47
HSK-A 40 HC1/2" 085 SLIM 2.5G 25000SL	K10165652135258	40	1/2"	18	34	22.9256	M5	85	46	47

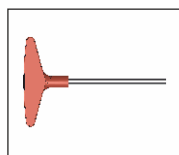
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



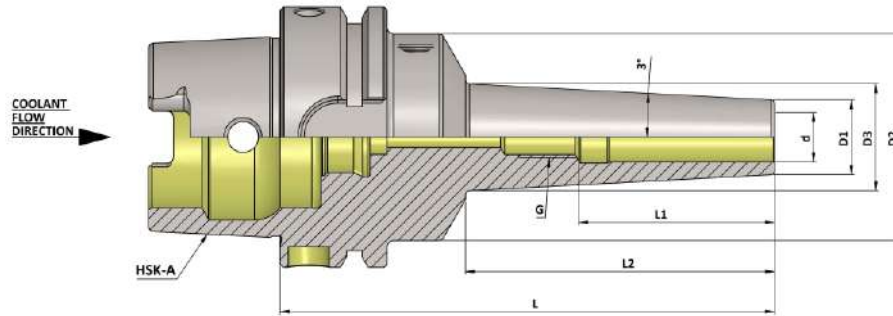
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck Slim 3 Degree (Balanced to 2.5 G 25000 RPM)

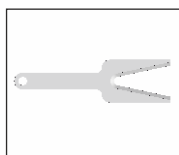
Item Name	Item Code	HSK-A	d	D1	D2	D3	G	L	L1	L2
HSK-A 50 HC03 080 SLIM 2.5G 25000SL	K10166707135258	50	3	9	42	12.4584	M2.5	80	28	33
HSK-A 50 HC04 080 SLIM 2.5G 25000SL	K10166708135258	50	4	10	42	13.4584	M2.5	80	28	33
HSK-A 50 HC05 080 SLIM 2.5G 25000SL	K10166709135258	50	5	11	42	14.4584	M2.5	80	28	33
HSK-A 50 HC06 080 SLIM 2.5G 25000SL	K10166642135258	50	6	12	42	15.5632	M5	80	37	34
HSK-A 50 HC08 080 SLIM 2.5G 25000SL	K10166643135258	50	8	14	42	17.5632	M6	80	37	34
HSK-A 50 HC10 085 SLIM 2.5G 25000SL	K10166644135258	50	10	16	42	20.0872	M8	85	41	39
HSK-A 50 HC12 090 SLIM 2.5G 25000SL	K10166636135258	50	12	18	42	22.7160	M10	90	46	45
HSK-A 50 HC14 090 SLIM 2.5G 25000SL	K10166645140258	50	14	22	42	26.7160	M10	90	46	45
HSK-A 50 HC16 095 SLIM 2.5G 25000SL	K10166646145258	50	16	24	42	28.9256	M12	95	49	47
HSK-A 50 HC18 095 SLIM 2.5G 25000SL	K10166647145258	50	18	26	42	30.9256	M12	95	49	47
HSK-A 50 HC20 100 SLIM 2.5G 25000SL	K10166637148258	50	20	28	42	33.4496	M16	100	51	52

HSK-A 50 HC1/8" 080 SLIM 2.5G 25000SL	K10166961131258	50	1/8"	9	42	12.4584	M2.5	80	28	33
HSK-A 50 HC3/16" 080 SLIM 2.5G 25000SL	K10166962131258	50	3/16"	10	42	13.4584	M2.5	80	28	33
HSK-A 50 HC1/4" 080 SLIM 2.5G 25000SL	K10166649131258	50	1/4"	12	42	15.5632	M5	80	37	34
HSK-A 50 HC5/16" 080 SLIM 2.5G 25000SL	K10166956131258	50	5/16"	14	42	17.5632	M6	80	37	34
HSK-A 50 HC3/8" 085 SLIM 2.5G 25000SL	K10166650135258	50	3/8"	16	42	20.0872	M8	85	41	39
HSK-A 50 HC1/2" 090 SLIM 2.5G 25000SL	K10166652140258	50	1/2"	18	42	22.7160	M10	90	46	45
HSK-A 50 HC5/8" 095 SLIM 2.5G 25000SL	K10166651145258	50	5/8"	24	42	28.9256	M12	95	49	47
HSK-A 50 HC3/4" 100 SLIM 2.5G 25000SL	K10166653148258	50	3/4"	28	42	33.4496	M16	100	51	52

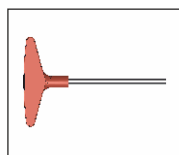
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



Key HC 5mm  
Ref. Page No. 103

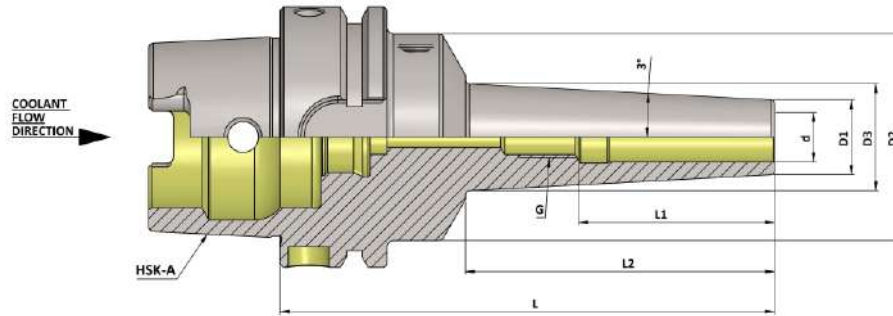
Note: All Dimensions are in mm



# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck Slim 3 Degree (Balanced to 2.5 G 25000 RPM)

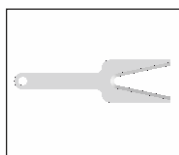
Item Name	Item Code	HSK-A	d	D1	D2	D3	G	L	L1	L2
HSK-A 63 HC03 080 SLIM 2.5G 25000 SL	K10316707131258	63	3	9	50	12.4584	M2.5	80	28	33
HSK-A 63 HC04 080 SLIM 2.5G 25000 SL	K10316708131258	63	4	10	50	13.4584	M2.5	80	28	33
HSK-A 63 HC05 080 SLIM 2.5G 25000 SL	K10316709131258	63	5	11	50	14.4584	M2.5	80	28	33
HSK-A 63 HC06 080 SLIM 2.5G 25000 SL	K10316642131258	63	6	12	50	15.5632	M5	80	37	34
HSK-A 63 HC08 080 SLIM 2.5G 25000 SL	K10316643131258	63	8	14	50	17.5632	M6	80	37	34
HSK-A 63 HC10 085 SLIM 2.5G 25000 SL	K10316644135258	63	10	16	50	20.0872	M8	85	41	39
HSK-A 63 HC12 090 SLIM 2.5G 25000 SL	K10316636140258	63	12	18	50	22.7160	M10	90	46	45
HSK-A 63 HC14 090 SLIM 2.5G 25000 SL	K10316645140258	63	14	22	50	26.7160	M10	90	46	45
HSK-A 63 HC16 095 SLIM 2.5G 25000 SL	K10316646145258	63	16	24	50	28.9256	M12	95	49	47
HSK-A 63 HC18 095 SLIM 2.5G 25000 SL	K10316647145258	63	18	26	50	30.9256	M12	95	49	47
HSK-A 63 HC20 100 SLIM 2.5G 25000 SL	K10316637148258	63	20	28	50	33.4496	M16	100	51	52

HSK-A 63 HC1/8" 080 SLIM 2.5G 25000SL	K10316961131258	63	1/8"	9	50	12.4584	M2.5	80	28	33
HSK-A 63 HC3/16" 080 SLIM 2.5G 25000SL	K10316962131258	63	3/16"	10	50	13.4584	M2.5	80	28	33
HSK-A 63 HC1/4" 080 SLIM 2.5G 25000SL	K10316649131258	63	1/4"	12	50	15.5632	M5	80	37	34
HSK-A 63 HC5/16" 080 SLIM 2.5G 25000SL	K10316956131258	63	5/16"	14	50	17.5632	M6	80	37	34
HSK-A 63 HC3/8" 085 SLIM 2.5G 25000SL	K10316650135258	63	3/8"	16	50	20.0872	M8	85	41	39
HSK-A 63 HC1/2" 090 SLIM 2.5G 25000SL	K10316652140258	63	1/2"	18	50	22.7160	M10	90	46	45
HSK-A 63 HC5/8" 095 SLIM 2.5G 25000SL	K10316651145258	63	5/8"	24	50	28.9256	M12	95	49	47
HSK-A 63 HC3/4" 100 SLIM 2.5G 25000SL	K10316653148258	63	3/4"	28	50	33.4496	M16	100	51	52

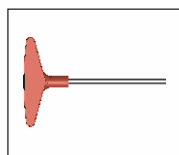
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



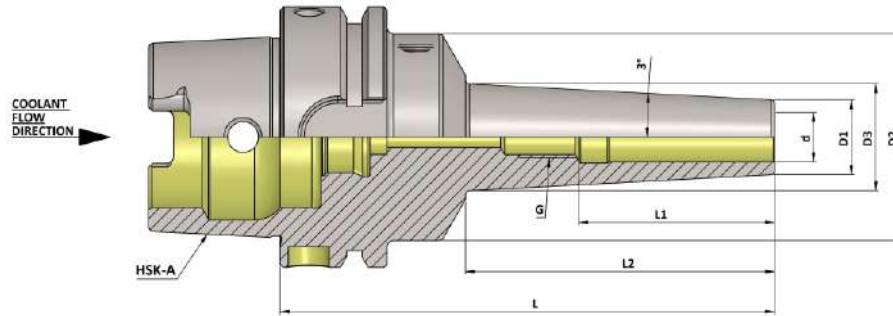
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

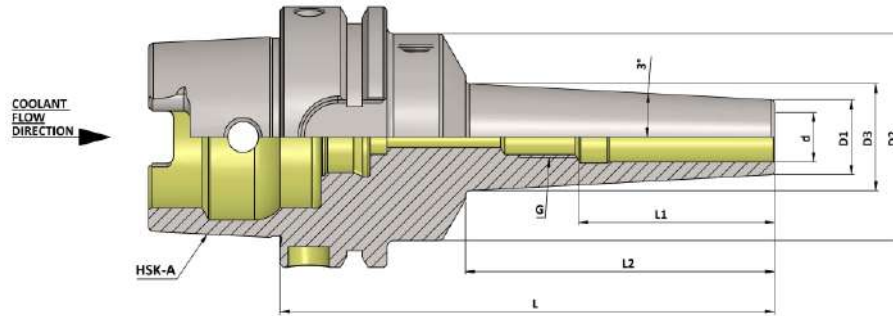


HSK-A (DIN 69893-1) Hydraulic Expansion Chuck Slim 3 Degree											(Balanced to 2.5 G 25000 RPM)
Item Name	Item Code	HSK-A	d	D1	D2	D3	G	L	L1	L2	
HSK-A 63 HC03 120 SLIM 2.5G 25000 SL	K10316707162258	63	3	9	50	16.6504	M2.5	120	28	73	
HSK-A 63 HC03 160 SLIM 2.5G 25000 SL	K10316707175258	63	3	13	50	24.5280	M2.5	160	28	110	
HSK-A 63 HC03 200 SLIM 2.5G 25000 SL	K10316707239258	63	3	13	50	28.8248	M2.5	200	28	151	
HSK-A 63 HC04 120 SLIM 2.5G 25000 SL	K10316708162258	63	4	10	50	17.6504	M2.5	120	28	73	
HSK-A 63 HC04 160 SLIM 2.5G 25000 SL	K10316708175258	63	4	14	50	25.5280	M2.5	160	28	110	
HSK-A 63 HC04 200 SLIM 2.5G 25000 SL	K10305708239258	63	4	14	50	29.8248	M2.5	200	28	151	
HSK-A 63 HC05 120 SLIM 2.5G 25000 SL	K10316709162258	63	5	11	50	18.6504	M2.5	120	28	73	
HSK-A 63 HC05 160 SLIM 2.5G 25000 SL	K10305709175258	63	5	15	50	26.5280	M2.5	160	28	110	
HSK-A 63 HC05 200 SLIM 2.5G 25000 SL	K10305709239258	63	5	15	50	30.8248	M2.5	200	28	151	
HSK-A 63 HC06 120 SLIM 2.5G 25000 SL	K10316642162258	63	6	12	50	19.7552	M5	120	37	74	
HSK-A 63 HC06 160 SLIM 2.5G 25000 SL	K10305642175258	63	6	16	50	27.6328	M5	160	37	111	
HSK-A 63 HC06 200 SLIM 2.5G 25000 SL	K10305642239258	63	6	16	50	31.9296	M5	200	37	152	
HSK-A 63 HC08 120 SLIM 2.5G 25000 SL	K10316643162258	63	8	14	50	21.7552	M6	120	37	74	
HSK-A 63 HC08 160 SLIM 2.5G 25000 SL	K10305643175258	63	8	18	50	29.6328	M6	160	37	111	
HSK-A 63 HC08 200 SLIM 2.5G 25000 SL	K10305643239258	63	8	18	50	33.9296	M6	200	37	152	
HSK-A 63 HC10 120 SLIM 2.5G 25000 SL	K10305644162258	63	10	16	50	23.7552	M8	120	41	74	
HSK-A 63 HC10 160 SLIM 2.5G 25000 SL	K10316644175258	63	10	20	50	31.8424	M8	160	41	113	
HSK-A 63 HC10 200 SLIM 2.5G 25000 SL	K10305644239258	63	10	20	50	36.1392	M8	200	41	154	
HSK-A 63 HC12 120 SLIM 2.5G 25000 SL	K10316636162258	63	12	18	50	25.8600	M10	120	46	75	
HSK-A 63 HC12 160 SLIM 2.5G 25000 SL	K10305636175258	63	12	22	50	33.8424	M10	160	46	113	
HSK-A 63 HC12 200 SLIM 2.5G 25000 SL	K10316636239258	63	12	22	50	38.1392	M10	200	46	154	
HSK-A 63 HC14 120 SLIM 2.5G 25000 SL	K10305645162258	63	14	22	50	29.4408	M10	120	46	71	
HSK-A 63 HC14 160 SLIM 2.5G 25000 SL	K10305645175258	63	14	26	50	37.8424	M10	160	46	113	
HSK-A 63 HC14 200 SLIM 2.5G 25000 SL	K10305645239258	63	14	26	50	42.1392	M10	200	46	154	
HSK-A 63 HC16 120 SLIM 2.5G 25000 SL	K10305646162258	63	16	24	50	31.4408	M12	120	49	71	
HSK-A 63 HC16 160 SLIM 2.5G 25000 SL	K10305646175258	63	16	28	50	39.8424	M12	160	49	113	
HSK-A 63 HC16 200 SLIM 2.5G 25000 SL	K10305646239258	63	16	28	50	44.1392	M12	200	49	154	
HSK-A 63 HC18 120 SLIM 2.5G 25000 SL	K10305647162258	63	18	26	50	33.5456	M12	120	49	72	
HSK-A 63 HC18 160 SLIM 2.5G 25000 SL	K10305647175258	63	18	30	50	42.0520	M12	160	49	115	
HSK-A 63 HC18 200 SLIM 2.5G 25000 SL	K10305647239258	63	18	30	50	46.3488	M12	200	49	156	
HSK-A 63 HC20 120 SLIM 2.5G 25000 SL	K10305637162258	63	20	28	50	35.5456	M16	120	51	72	
HSK-A 63 HC20 160 SLIM 2.5G 25000 SL	K10305637175258	63	20	32	50	44.0520	M16	160	51	115	
HSK-A 63 HC20 200 SLIM 2.5G 25000 SL	K10305637239258	63	20	32	50	48.3488	M16	200	51	156	

# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck Slim 3 Degree

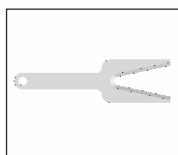
(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	HSK-A	d	D1	D2	D3	G	L	L1	L2
HSK-A 63 HC1/8" 120 SLIM 2.5G 25000SL	K10316961162258	63	1/8"	9	50	16.6504	M2.5	120	28	73
HSK-A 63 HC1/8" 160 SLIM 2.5G 25000SL	K10316961175258	63	1/8"	13	50	24.5280	M2.5	160	28	110
HSK-A 63 HC1/8" 200 SLIM 2.5G 25000SL	K10316961239258	63	1/8"	13	50	28.8248	M2.5	200	28	151
HSK-A 63 HC3/16" 120 SLIM 2.5G 25000SL	K10316962162258	63	3/16"	10	50	17.6504	M2.5	120	28	73
HSK-A 63 HC3/16" 160 SLIM 2.5G 25000SL	K10316962175258	63	3/16"	14	50	25.5280	M2.5	160	28	110
HSK-A 63 HC3/16" 200 SLIM 2.5G 25000SL	K10316962239258	63	3/16"	14	50	29.8248	M2.5	200	28	151
HSK-A 63 HC1/4" 120 SLIM 2.5G 25000SL	K10316649162258	63	1/4"	12	50	19.7552	M5	120	37	74
HSK-A 63 HC1/4" 160 SLIM 2.5G 25000SL	K10316649175258	63	1/4"	16	50	27.6328	M5	160	37	111
HSK-A 63 HC1/4" 200 SLIM 2.5G 25000SL	K10316649239258	63	1/4"	16	50	31.9296	M5	200	37	152
HSK-A 63 HC5/16" 120 SLIM 2.5G 25000SL	K10316956162258	63	5/16"	14	50	21.7552	M6	120	37	74
HSK-A 63 HC5/16" 160 SLIM 2.5G 25000SL	K10316956175258	63	5/16"	18	50	29.6328	M6	160	37	111
HSK-A 63 HC5/16" 200 SLIM 2.5G 25000SL	K10316956239258	63	5/16"	18	50	33.9296	M6	200	37	152
HSK-A 63 HC3/8" 120 SLIM 2.5G 25000SL	K10316650162258	63	3/8"	16	50	23.7552	M8	120	41	74
HSK-A 63 HC3/8" 160 SLIM 2.5G 25000SL	K10316650175258	63	3/8"	20	50	31.8424	M8	160	41	113
HSK-A 63 HC3/8" 200 SLIM 2.5G 25000SL	K10316650239258	63	3/8"	20	50	36.1392	M8	200	41	154
HSK-A 63 HC1/2" 120 SLIM 2.5G 25000SL	K10316652162258	63	1/2"	18	50	25.8600	M10	120	46	75
HSK-A 63 HC1/2" 160 SLIM 2.5G 25000SL	K10316652175258	63	1/2"	22	50	33.8424	M10	160	46	113
HSK-A 63 HC1/2" 200 SLIM 2.5G 25000SL	K10316652239258	63	1/2"	22	50	38.1392	M10	200	46	154
HSK-A 63 HC5/8" 120 SLIM 2.5G 25000SL	K10316651162258	63	5/8"	24	50	31.4408	M12	120	49	71
HSK-A 63 HC5/8" 160 SLIM 2.5G 25000SL	K10316651175258	63	5/8"	28	50	39.8424	M12	160	49	113
HSK-A 63 HC5/8" 200 SLIM 2.5G 25000SL	K10316651239258	63	5/8"	28	50	44.1392	M12	200	49	154
HSK-A 63 HC3/4" 120 SLIM 2.5G 25000SL	K10316653162258	63	3/4"	28	50	35.5456	M16	120	51	72
HSK-A 63 HC3/4" 160 SLIM 2.5G 25000SL	K10316653175258	63	3/4"	32	50	44.0520	M16	160	51	115
HSK-A 63 HC3/4" 200 SLIM 2.5G 25000SL	K10316653239258	63	3/4"	32	50	48.3488	M16	200	51	156

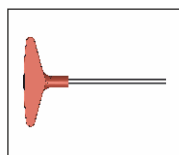
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



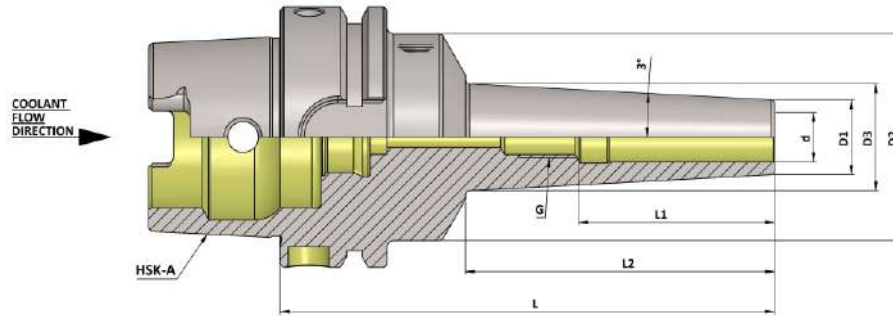
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-A (DIN 69893-1) Form A Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck Slim 3 Degree (Balanced to 2.5 G 25000 RPM)

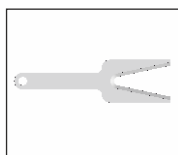
Item Name	Item Code	HSK-A	d	D1	D2	D3	G	L	L1	L2
HSK-A 100 HC06 120 SLIM 2.5G 25000SL	K10168642162258	100	6	12	50	19.3360	M5	120	37	70
HSK-A 100 HC08 120 SLIM 2.5G 25000 SL	K10168643162297	100	8	14	50	21.4408	M6	120	37	71
HSK-A 100 HC10 120 SLIM 2.5G 25000SL	K10168644162258	100	10	16	50	23.4408	M8	120	41	71
HSK-A 100 HC12 120 SLIM 2.5G 25000SL	K10168636162258	100	12	18	50	25.5456	M10	120	46	72
HSK-A 100 HC14 120 SLIM 2.5G 25000SL	K10168645162258	100	14	22	50	29.1264	M10	120	46	68
HSK-A 100 HC16 120 SLIM 2.5G 25000SL	K10168646162258	100	16	24	50	31.1264	M12	120	49	68
HSK-A 100 HC18 120 SLIM 2.5G 25000SL	K10168647162258	100	18	26	50	33.2312	M12	120	49	69
HSK-A 100 HC20 120 SLIM 2.5G 25000SL	K10168637162258	100	20	28	50	35.2312	M16	120	51	69

HSK-A 100 HC1/4" 120 SLIM 2.5G 25000SL	K10168649162258	100	1/4"	12	50	19.3360	M5	120	37	70
HSK-A 100 HC5/16" 120 SLIM 2.5G 25000SL	K10168956162258	100	5/16"	14	50	21.4408	M6	120	37	71
HSK-A 100 HC3/8" 120 SLIM 2.5G 25000SL	K10168650162258	100	3/8"	16	50	23.4408	M8	120	41	71
HSK-A 100 HC1/2" 120 SLIM 2.5G 25000SL	K10168652162258	100	1/2"	18	50	25.5456	M10	120	46	72
HSK-A 100 HC5/8" 120 SLIM 2.5G 25000SL	K10168651162258	100	5/8"	24	50	31.1264	M12	120	49	68
HSK-A 100 HC3/4" 120 SLIM 2.5G 25000SL	K10168653162258	100	3/4"	28	50	35.2312	M16	120	51	69

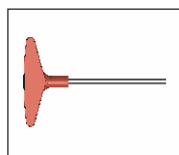
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



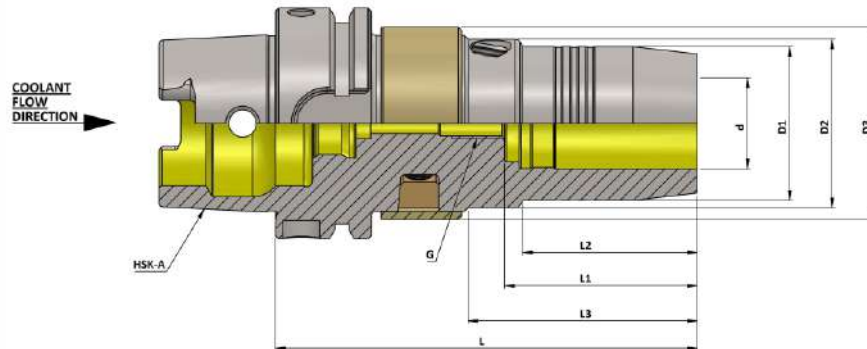
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-A (DIN 69893-1) Hydraulic Expansion Chuck With Run Out Adjustment



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

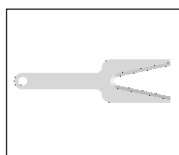


HSK-A (DIN 69893-1) Hydraulic Expansion Chuck Run Out Adjustment											(Balanced to 2.5 G 25000 RPM)	
ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	D3	G	L	L1	L2	L3	
HSK-A63 HC20 115 AD /RD 2.5G 25000 SL	K10316637159536	63	20	42	46	52.5	M8	115	51	50	65.5	
HSK-A 63 HC32 150 AD/RD 2.5G 25000 SL	K10316638173536	63	32	42	46	52.5	M8	150	51	50	65.5	
HSK-A 63 HC3/4" 115 AD/RD 2.5G 25000 SL	K10316653159536	63	3/4"	42	46	52.5	M8	115	51	50	65.5	
HSK-A 63 HC1-1/4" 150 AD/RD 2.5G 25000 SL	K10316655173536	63	1-1/4"	42	46	52.5	M8	150	51	50	65.5	
HSK-A100 HC20 120 AD/RD 2.5G 25000 SL	K10168637162536	100	20	42	46	52.5	M8	120	51	50	65.5	
HSK-A 100 HC32 150 AD/RD 2.5G 25000 SL	K10168638173536	100	32	42	46	52.5	M8	150	51	50	65.5	
HSK-A 100 HC3/4" 120 AD/RD 2.5G 25000 SL	K10168653162536	100	3/4"	42	46	52.5	M8	120	51	50	65.5	
HSK-A 100 HC1-1/4" 150 AD/RD 2.5G 25000 SL	K10168655173536	100	1-1/4"	42	46	52.5	M8	150	51	50	65.5	

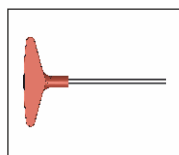
Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



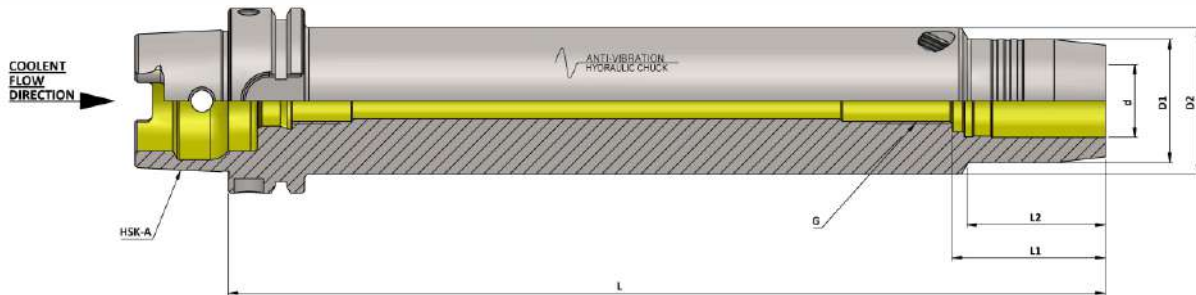
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-A (DIN 69893-1) Hydraulic Expansion Chuck Anti - Vibration (HC-AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



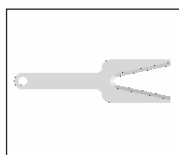
## HSK-A (DIN 69893-1) Hydraulic Expansion Chuck Anti - Vibration

ITEM NAME	ITEM CODE	HSK-A	d	D1	D2	G	L	L1	L2
HSK-A 63 HC20 200 AD/AV	K10316637239539	63	20	42	50	M16	200	51	47
HSK-A 63 HC20 250 AD/AV	K10316637182539	63	20	42	50	M16	250	51	47
HSK-A 63 HC20 300 AD/AV	K10316637183535	63	20	42	50	M16	300	51	47
HSK-A 100 HC20 200 AD/AV	K10168637239539	100	20	42	50	M16	200	51	47
HSK-A 100 HC20 250 AD/AV	K10168637182539	100	20	42	50	M16	250	51	47
HSK-A 100 HC20 300 AD/AV	K10168637183535	100	20	42	50	M16	300	51	47
HSK-A 100 HC20 350 AD/AV	K10168637184539	100	20	42	50	M16	350	51	47
HSK-A 100 HC20 400 AD/AV	K10168637540535	100	20	42	50	M16	400	51	47

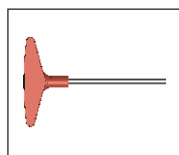
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



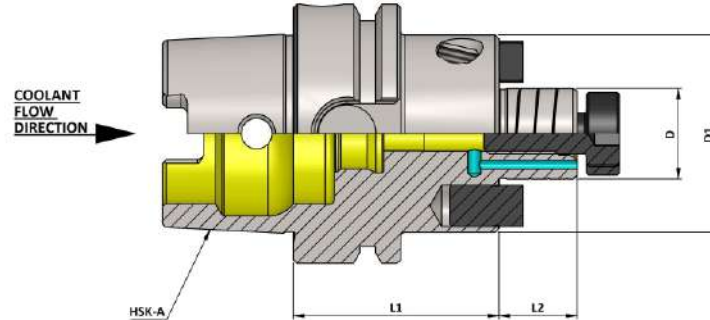
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-A (DIN 69893-1) Hydraulic Expansion Face Mill Holder (HC-FMH-K)



Maximum Run out of the External Dia with respect to the External Taper 0.003 mm

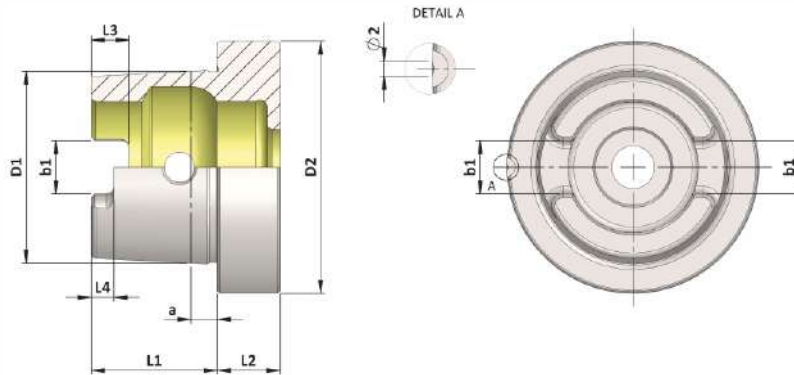


## HSK-A (DIN 69893-1) Hydraulic Expansion Face Mill Holder (HC-FMH-K)

(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	HSK-A	D	D1	L1	L2
HSK-A 50 HC FMH-K22 060 AD 2.5G 25000 SL	K10166932117282	50	22	48	60	19
HSK-A 50 HC FMH-K27 060 AD 2.5G 25000 SL	K10166933117282	50	27	58	60	21
HSK-A 63 HC FMH-K22 050 AD 2.5G 25000 SL	K10316932111282	63	22	48	50	19
HSK-A 63 HC FMH-K27 055 AD 2.5G 25000 SL	K10316933115282	63	27	58	55	21
HSK-A 63 HC FMH-K32 060 AD 2.5G 25000 SL	K10316938117282	63	32	78	60	24
HSK-A 63 HC FMH-K40 065 AD 2.5G 25000 SL	K10316939123282	63	40	88	65	27
HSK-A 100 HC FMH-K22 055 AD 2.5G 25000 SL	K10168932114282	100	22	48	55	19
HSK-A 100 HC FMH-K27 055 AD 2.5G 25000 SL	K10168933115282	100	27	58	55	21
HSK-A 100 HC FMH-K32 060 AD 2.5G 25000 SL	K10168938117282	100	32	78	60	24
HSK-A 100 HC FMH-K40 065 AD 2.5G 25000 SL	K10168939123282	100	40	88	65	27

# HSK-C (DIN 69893-1) Form C Technical Information



HSK-C	D1	D2	a	b1	L1	L2	L3	L4
40	30	40	4	8.05	20	10	6	3.50
50	38	50	5	10.54	25	12.50	7.50	4.50
63	48	63	6.30	12.54	32	12.50	10	6

Material :- Case hardened steel, tensile strength in the core min. 950 N/mm<sup>2</sup>

Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish.

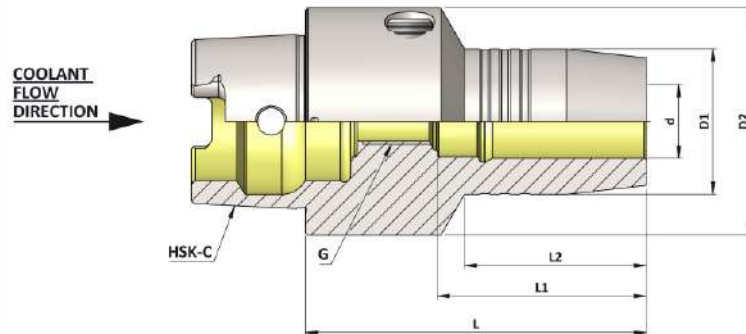
Accuracy :- Taper Angle Class AT 3



# HSK-C (DIN 69893-1) Form C Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-C (DIN 69893-1) Hydraulic Expansion Chuck (Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	HSK-C	d	D1	D2	G	L	L1	L2
HSK-C 40 HC06 060 2.5G 25000 SL	K10303642117283	40	6	26	40	M5	60	37	35
HSK-C 40 HC08 060 2.5G 25000 SL	K10303643117283	40	8	28	40	M6	60	37	36
HSK-C 40 HC10 065 2.5G 25000 SL	K10303644123283	40	10	30	40	M6	65	41	41
HSK-C 40 HC12 070 2.5G 25000 SL	K10303636125283	40	12	32	40	M6	70	46	47

HSK-C 40 HC1/4" 060 2.5G 25000 SL	K10303649117283	40	1/4"	26	40	M5	60	37	35
HSK-C 40 HC5/16" 060 2.5G 25000 SL	K10303956117283	40	5/16"	28	40	M6	60	37	36
HSK-C 40 HC3/8" 065 2.5G 25000 SL	K10303650123283	40	3/8"	30	40	M6	65	41	41
HSK-C 40 HC1/2" 070 2.5G 25000 SL	K10303652125283	40	1/2"	32	40	M6	70	46	47

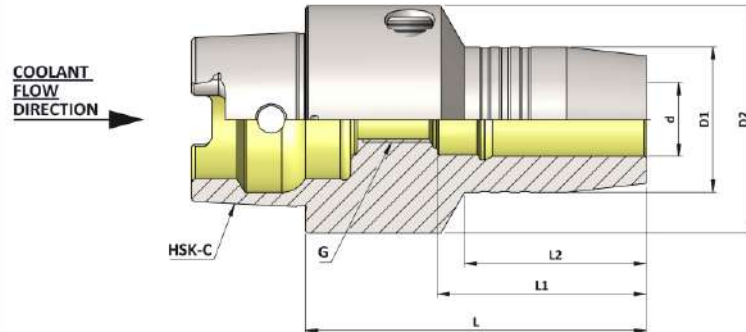
HSK-C 50 HC06 060 2.5G 25000 SL	K10309642117283	50	6	26	50	M5	60	37	30
HSK-C 50 HC08 060 2.5G 25000 SL	K10309643117283	50	8	28	50	M6	60	37	30
HSK-C 50 HC10 065 2.5G 25000 SL	K10309644123283	50	10	30	50	M8	65	41	35
HSK-C 50 HC12 075 2.5G 25000 SL	K10309636127283	50	12	32	50	M10	75	46	40
HSK-C 50 HC14 075 2.5G 25000 SL	K10309645127283	50	14	34	50	M10	75	46	40
HSK-C 50 HC16 080 2.5G 25000 SL	K10309646131283	50	16	38	50	M12	80	49	50
HSK-C 50 HC18 080 2.5G 25000 SL	K10309647131283	50	18	40	50	M12	80	49	50
HSK-C 50 HC20 080 2.5G 25000 SL	K10309637131283	50	20	42	50	M16	80	51	50
HSK-C 50 HC25 090 2.5G 25000 SL	K10309648140283	50	25	49.5	50	M16	90	57	59

HSK-C 50 HC1/4" 060 2.5G 25000 SL	K10309649117283	50	1/4"	26	50	M5	60	37	30
HSK-C 50 HC5/16" 060 2.5G 25000 SL	K10309956117283	50	5/16"	28	50	M6	60	37	30
HSK-C 50 HC3/8" 065 2.5G 25000 SL	K10309650123283	50	3/8"	30	50	M8	65	41	35
HSK-C 50 HC1/2" 075 2.5G 25000 SL	K10309652127283	50	1/2"	32	50	M10	75	46	40
HSK-C 50 HC5/8" 080 2.5G 25000 SL	K10309651131283	50	5/8"	38	50	M12	80	49	50
HSK-C 50 HC3/4" 080 2.5G 25000 SL	K10309653131283	50	3/4"	42	50	M16	80	51	50
HSK-C 50 HC1" 090 2.5G 25000 SL	K10309957140283	50	1"	49.5	50	M16	90	57	59

# HSK-C (DIN 69893-1) Form C Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-C (DIN 69893-1) Hydraulic Expansion Chuck

(Balanced to 2.5 G 25000 RPM)

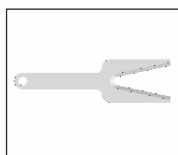
Item Name	Item Code	HSK-C	d	D1	D2	G	L	L1	L2
HSK-C 63 HC06 060 2.5G 25000 SL	K10302642117283	63	6	26	63	M5	60	37	25
HSK-C 63 HC08 060 2.5G 25000 SL	K10302643117283	63	8	28	63	M6	60	37	25
HSK-C 63 HC10 065 2.5G 25000 SL	K10302644123283	63	10	30	63	M8	65	41	31
HSK-C 63 HC12 075 2.5G 25000 SL	K10302636127283	63	12	32	63	M10	75	46	41
HSK-C 63 HC14 075 2.5G 25000 SL	K10302645127283	63	14	34	63	M10	75	46	42
HSK-C 63 HC16 080 2.5G 25000 SL	K10302646131283	63	16	38	63	M12	80	49	48
HSK-C 63 HC18 080 2.5G 25000 SL	K10302647131283	63	18	40	63	M12	80	49	48
HSK-C 63 HC20 080 2.5G 25000 SL	K10302637131283	63	20	42	63	M16	80	51	49
HSK-C 63 HC25 095 2.5G 25000 SL	K10302648145283	63	25	58	63	M16	95	57	63
HSK-C 63 HC32 100 2.5G 25000 SL	K10302638148283	63	32	62	63	M16	100	61	60

HSK-C 63 HC1/4" 060 2.5G 25000 SL	K10302649117283	63	1/4"	26	63	M5	60	37	25
HSK-C 63 HC5/16" 060 2.5G 25000 SL	K10302956117283	63	5/16"	28	63	M6	60	37	25
HSK-C 63 HC3/8" 065 2.5G 25000 SL	K10302650123283	63	3/8"	30	63	M8	65	41	31
HSK-C 63 HC1/2" 075 2.5G 25000 SL	K10302652127283	63	1/2"	32	63	M10	75	46	41
HSK-C 63 HC5/8" 080 2.5G 25000 SL	K10302651131283	63	5/8"	38	63	M12	80	49	48
HSK-C 63 HC3/4" 080 2.5G 25000 SL	K10302653131283	63	3/4"	42	63	M16	80	51	49
HSK-C 63 Hc1" 095 2.5G 25000 SL	K10302957145283	63	1"	58	63	M16	95	57	63
HSK-C 63 HC1-1/4" 100 2.5G 25000 SL	K10302655148283	63	1-1/4"	62	63	M16	100	61	60

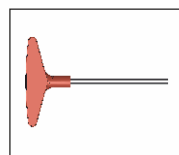
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



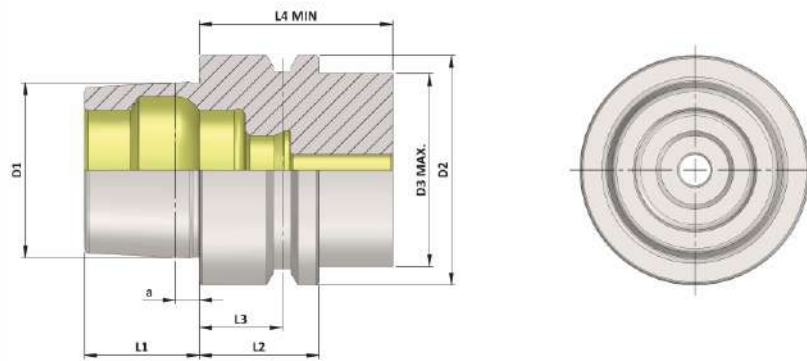
Spanner HC  
Ref. Page No. 103



Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-E (DIN 69893-5) Form E Technical Information



HSK-E	D1	D2	D3	a	L1	L2	L3	L4
40	30	40	34	4	20	20	16	35
50	38	50	42	5	25	26	18	42

Material :- Case hardened steel, tensile strength in the core min. 950 N/mm<sup>2</sup>

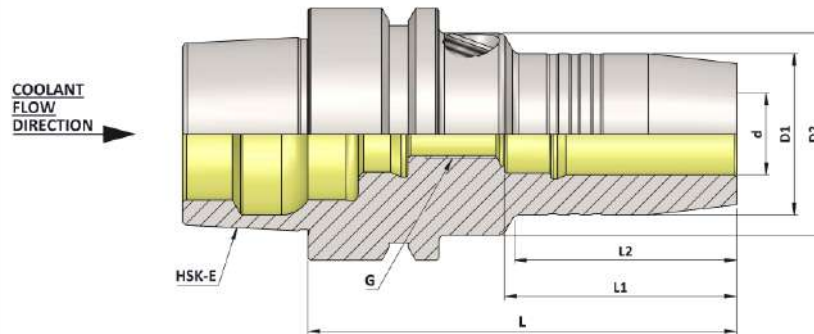
Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish.

Accuracy :- Taper Angle Class AT 3

# HSK-E (DIN 69893-5) Form E Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-E (DIN 69893-5) Hydraulic Expansion Chuck

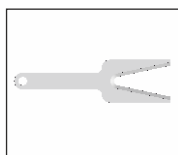
(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	HSK-E	d	D1	D2	G	L	L1	L2
HSK-E 40 HC06 070 2.5G 25000 SL	K10321642125283	40	6	26	33.5	M5	70	37	36
HSK-E 40 HC08 070 2.5G 25000 SL	K10321643125283	40	8	28	33.5	M6	70	37	36
HSK-E 40 HC10 075 2.5G 25000 SL	K10321644127283	40	10	30	33.5	M6	75	41	42
HSK-E 40 HC12 080 2.5G 25000 SL	K10321636131283	40	12	32	33.5	M6	80	46	48
HSK-E 40 HC1/4" 070 2.5G 25000 SL	K10321649125283	40	1/4"	26	33.5	M5	70	37	36
HSK-E 40 HC5/16" 070 2.5G 25000 SL	K10321956125283	40	5/16"	28	33.5	M6	70	37	36
HSK-E 40 HC3/8" 075 2.5G 25000 SL	K10321650127283	40	3/8"	30	33.5	M6	75	41	42
HSK-E 40 HC1/2" 080 2.5G 25000 SL	K10321652131283	40	1/2"	32	33.5	M6	80	46	48
HSK-E 50 HC06 070 2.5G 25000 SL	K10286642125283	50	6	26	40	M5	70	37	28
HSK-E 50 HC08 070 2.5G 25000 SL	K10286643125283	50	8	28	40	M6	70	37	28
HSK-E 50 HC10 075 2.5G 25000 SL	K10286644127283	50	10	30	40	M8	75	41	34
HSK-E 50 HC12 085 2.5G 25000 SL	K10286636135283	50	12	32	40	M10	85	46	44
HSK-E 50 HC14 085 2.5G 25000 SL	K10286645135283	50	14	34	40	M10	85	46	44
HSK-E 50 HC16 090 2.5G 25000 SL	K10286646140283	50	16	38	42	M12	90	49	30
HSK-E 50 HC18 090 2.5G 25000 SL	K10286647140283	50	18	40	42	M12	90	49	29
HSK-E 50 HC20 090 2.5G 25000 SL	K10286637140283	50	20	42	42	M16	90	51	29
HSK-E 50 HC1/4" 070 2.5G 25000 SL	K10286649125283	50	1/4"	26	40	M5	70	37	28
HSK-E 50 HC5/16" 070 2.5G 25000 SL	K10286956125283	50	5/16"	28	40	M6	70	37	28
HSK-E 50 HC3/8" 075 2.5G 25000 SL	K10286650127283	50	3/8"	30	40	M8	75	41	34
HSK-E 50 HC1/2" 085 2.5G 25000 SL	K10286652135283	50	1/2"	32	40	M10	85	46	44
HSK-E 50 HC5/8" 090 2.5G 25000 SL	K10286651140283	50	5/8"	38	42	M12	90	49	30
HSK-E 50 HC3/4" 090 2.5G 25000 SL	K10286653140283	50	3/4"	42	42	M16	90	51	29

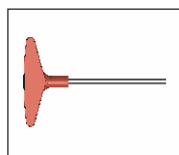
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



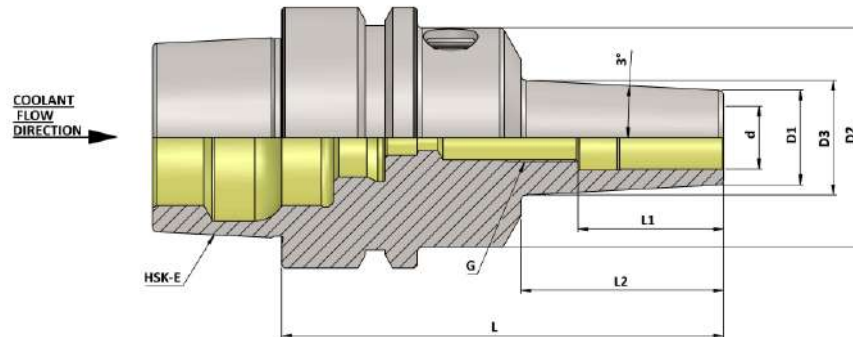
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-E (DIN 69893-5) Form E Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-E (DIN 69893-5) Hydraulic Expansion Chuck Slim 3 Degree (Balanced to 2.5 G 25000 RPM)

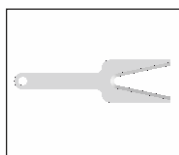
Item Name	Item Code	HSK-E	d	D1	D2	D3	G	L	L1	L2
HSK-E 40 HC03 085 SLIM 2.5G 25000SL	K10321707135258	40	3	9	34	13.7160	M2.5	85	28	45
HSK-E 40 HC04 085 SLIM 2.5G 25000SL	K10321708135258	40	4	10	34	14.7160	M2.5	85	28	45
HSK-E 40 HC05 085 SLIM 2.5G 25000SL	K10321709135258	40	5	11	34	15.7160	M2.5	85	28	45
HSK-E 40 HC06 085 SLIM 2.5G 25000SL	K10321642135258	40	6	12	34	16.8208	M5	85	37	46
HSK-E 40 HC08 085 SLIM 2.5G 25000SL	K10321643135258	40	8	14	34	18.8208	M6	85	37	46
HSK-E 40 HC10 085 SLIM 2.5G 25000SL	K10321644135258	40	10	16	34	20.9256	M5	85	41	47
HSK-E 40 HC12 085 SLIM 2.5G 25000SL	K10321636135258	40	12	18	34	22.9256	M5	85	46	47

HSK-E 40 HC1/8" 085 SLIM 2.5G 25000SL	K10321961135258	40	1/8"	9	34	13.7160	M2.5	85	28	45
HSK-E 40 HC3/16" 085 SLIM 2.5G 25000SL	K10321962135258	40	3/16"	10	34	14.7160	M2.5	85	28	45
HSK-E 40 HC1/4" 085 SLIM 2.5G 25000SL	K10321649135258	40	1/4"	12	34	16.8208	M5	85	37	46
HSK-E 40 HC5/16" 085 SLIM 2.5G 25000SL	K10321956135258	40	5/16"	14	34	18.8208	M6	85	37	46
HSK-E 40 HC3/8" 085 SLIM 2.5G 25000SL	K10321650135258	40	3/8"	16	34	20.9256	M5	85	41	47
HSK-E 40 HC1/2" 085 SLIM 2.5G 25000SL	K10321652135258	40	1/2"	18	34	22.9256	M5	85	46	47

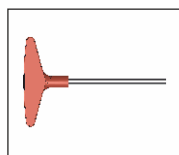
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



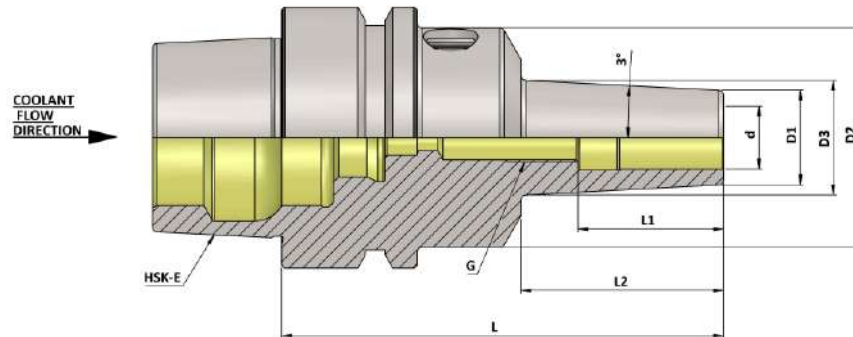
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-E (DIN 69893-5) Form E Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-E (DIN 69893-5) Hydraulic Expansion Chuck Slim 3 Degree (Balanced to 2.5 G 25000 RPM)

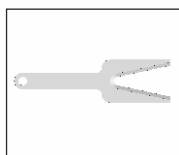
Item Name	Item Code	HSK-E	d	D1	D2	D3	G	L	L1	L2
HSK-E 50 HC03 085 SLIM 2.5G 25000SL	K10286707135258	50	3	9	42	12.8776	M2.5	85	28	37
HSK-E 50 HC04 085 SLIM 2.5G 25000SL	K10286708135258	50	4	10	42	13.8776	M2.5	85	28	37
HSK-E 50 HC05 085 SLIM 2.5G 25000SL	K10286709135258	50	5	11	42	14.8776	M2.5	85	28	37
HSK-E 50 HC06 085 SLIM 2.5G 25000SL	K10286642135258	50	6	12	42	15.9824	M5	85	37	38
HSK-E 50 HC08 085 SLIM 2.5G 25000SL	K10286643135258	50	8	14	42	17.9824	M6	85	37	38
HSK-E 50 HC10 085 SLIM 2.5G 25000SL	K10286644135258	50	10	16	42	20.0872	M8	85	41	39
HSK-E 50 HC12 085 SLIM 2.5G 25000SL	K10286636135258	50	12	18	42	22.0872	M8	85	46	39

HSK-E 50 HC1/8" 085 SLIM 2.5G 25000SL	K10286961135258	50	1/8"	9	42	12.8776	M2.5	85	28	37
HSK-E 50 HC3/16" 085 SLIM 2.5G 25000SL	K10286962135258	50	3/16"	10	42	13.8776	M2.5	85	28	37
HSK-E 50 HC1/4" 085 SLIM 2.5G 25000SL	K10286649135258	50	1/4"	12	42	15.9824	M5	85	37	38
HSK-E 50 HC5/16" 085 SLIM 2.5G 25000SL	K10286956135258	50	5/16"	14	42	17.9824	M6	85	37	38
HSK-E 50 HC3/8" 085 SLIM 2.5G 25000SL	K10286650135258	50	3/8"	16	42	20.0872	M8	85	41	39
HSK-E 50 HC1/2" 085 SLIM 2.5G 25000SL	K10286652135258	50	1/2"	18	42	22.0872	M8	85	46	39

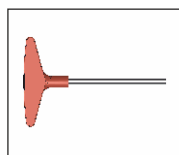
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



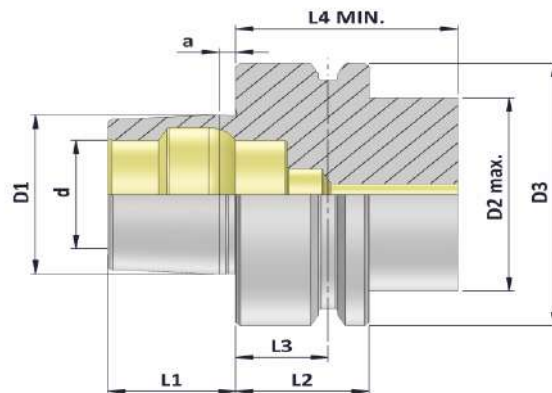
Spanner HC  
Ref. Page No. 103



Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# HSK-F (DIN 69893-6) Form F Technical Information



HSK-F	d	D1	D2	D3	a	L1	L2	L3	L4
63	26	38	53	63	5	25	26	18	42

Material :- Case hardened steel, tensile strength in the core min. 950 N/mm<sup>2</sup>

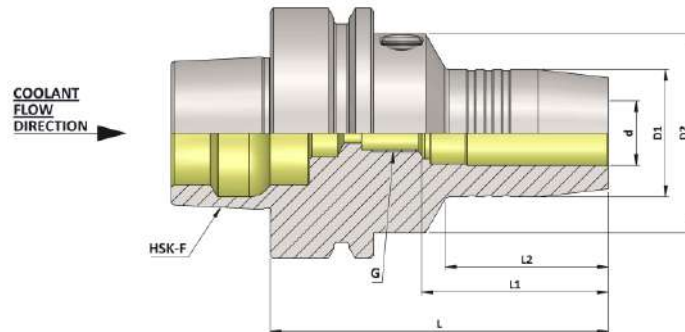
Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish.

Accuracy :- Taper Angle Class AT 3

# HSK-F (DIN 69893-6) Form F Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## HSK-F (DIN 69893-6) Hydraulic Expansion Chuck (Balanced to 2.5 G 25000 RPM)

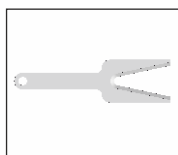
Item Name	Item Code	HSK-F	d	D1	D2	G	L	L1	L2
HSK-63F HC06 070 2.5G 25000 SL	K10260642125283	63	6	26	50	M5	70	37	24
HSK-63F HC08 070 2.5G 25000 SL	K10260643125283	63	8	28	50	M6	70	37	25
HSK-63F HC10 080 2.5G 25000 SL	K10260644131283	63	10	30	50	M8	80	41	35
HSK-63F HC12 085 2.5G 25000 SL	K10260636135283	63	12	32	50	M10	85	46	40
HSK-63F HC14 085 2.5G 25000 SL	K10260645135283	63	14	34	50	M10	85	46	40
HSK-63F HC16 090 2.5G 25000 SL	K10260646140283	63	16	38	50	M12	90	49	46
HSK-63F HC18 090 2.5G 25000 SL	K10260647140283	63	18	40	50	M12	90	49	47
HSK-63F HC20 090 2.5G 25000 SL	K10260637140283	63	20	42	50	M16	90	51	48
HSK-63F HC25 120 2.5G 25000 SL	K10260648162283	63	25	57	53	M16	120	57	63

HSK-63F HC1/4" 070 2.5G 25000 SL	K10260649125283	63	1/4"	26	50	M5	70	37	24
HSK-63F HC5/16" 070 2.5G 25000 SL	K10260956125283	63	5/16"	28	50	M6	70	37	25
HSK-63F HC3/8" 080 2.5G 25000 SL	K10260650131283	63	3/8"	30	50	M8	80	41	35
HSK-63F HC1/2" 085 2.5G 25000 SL	K10260652135283	63	1/2"	32	50	M10	85	46	40
HSK-63F HC5/8" 090 2.5G 25000 SL	K10260651140283	63	5/8"	38	50	M12	90	49	46
HSK-63F HC3/4" 090 2.5G 25000 SL	K10260653140283	63	3/4"	42	50	M16	90	51	48
HSK-63F Hc1" 120 2.5G 25000 SL	K10260957162283	63	1"	57	53	M16	120	57	63

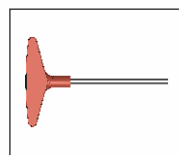
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



Key HC 5mm  
Ref. Page No. 103

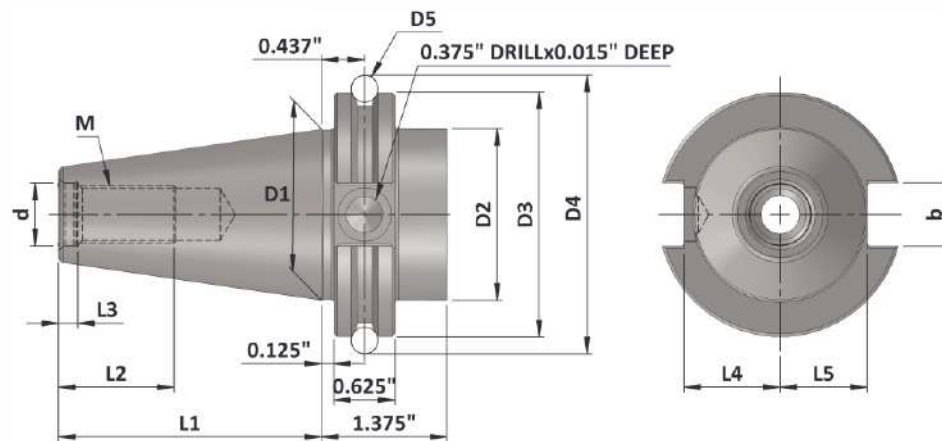
Note: All Dimensions are in mm



## CAT - (ANSI B 5.50)



# CAT (ANSI B 5.50) Technical Information



CAT	d	D1	D2	D3	D4	D5	b	M UNC 2B	L1	L2	L3	L4	L5
40	0.641"	1.750"	1.750"	2.500"	2.863"	0.2813"	0.645"	5/8" - 11"	2.687"	1.12"	0.188"	0.985"	0.890"
50	1.031"	2.750"	2.750"	3.875"	4.238"	0.2813"	1.020"	1" - 8"	4.000"	1.75"	0.250"	1.485"	1.390"

Material :- Case hardened steel, tensile strength in the core min. 950 N/mm<sup>2</sup>

Execution :- Case hardened to HRC 58 ± 2, Case Depth 0.8 mm., Silver finish.

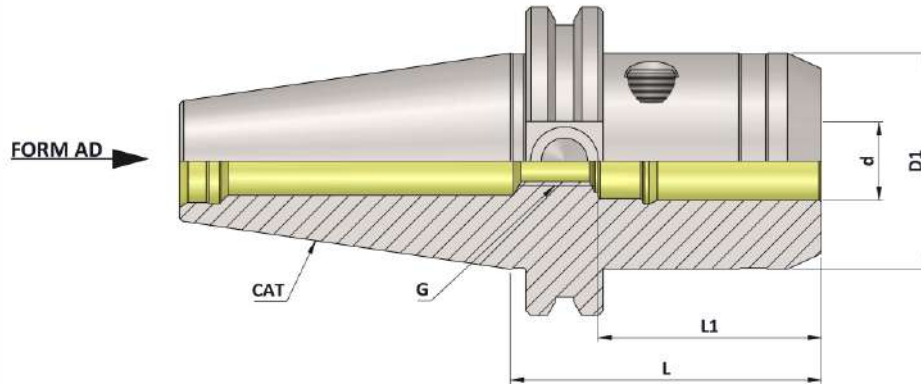
Accuracy :- 7:24 Taper Angle Class AT 3 As per DIN 2080

# CAT (ANSI B 5.50) Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm

**HEAVY DUTY**



## CAT (ANSI B 5.50) Hydraulic Expansion Chuck (Heavy Duty)

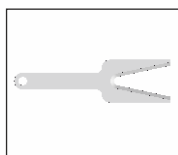
(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	CAT	d	D1	G	L	L1
CAT40 HC1/2" S - 64 2.5G 25000 SL	K10203652621230	40	1/2"	44.5	M10	64	46
CAT40 HC5/8" S - 64 2.5G 25000 SL	K10203651621230	40	5/8"	44.5	M12	64	49
CAT40 HC3/4" S - 64 2.5G 25000 SL	K10203653621230	40	3/4"	44.5	M16	64	51
CAT40 HC1" S 090 2.5G 25000 SL	K10203957140283	40	1"	44.5	M16	90	51
CAT40 HC20 S 064 2.5G 25000 SL	K10203168278283	40	20	44.5	M16	64	51
CAT50 HC1/2" S 50.5 2.5G 25000 SL	K10204652646283	50	1/2"	42	M10	50.5	40
CAT50 HC3/4" S 64.5 2.5G 25000 SL	K10204653122283	50	3/4"	50	M16	64.5	42
CAT50 HC1" S 081 2.5G 25000 SL	K10204957372283	50	1"	72	M16	81	55
CAT50 HC1-1/4" S 081 2.5G 25000 SL	K10204951132283	50	1-1/4"	72	M16	81	55
CAT50 HC32S 081 2.5G 25000 SL	K10204272132283	50	32	72	M16	81	55

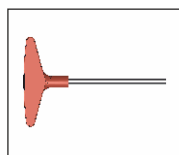
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



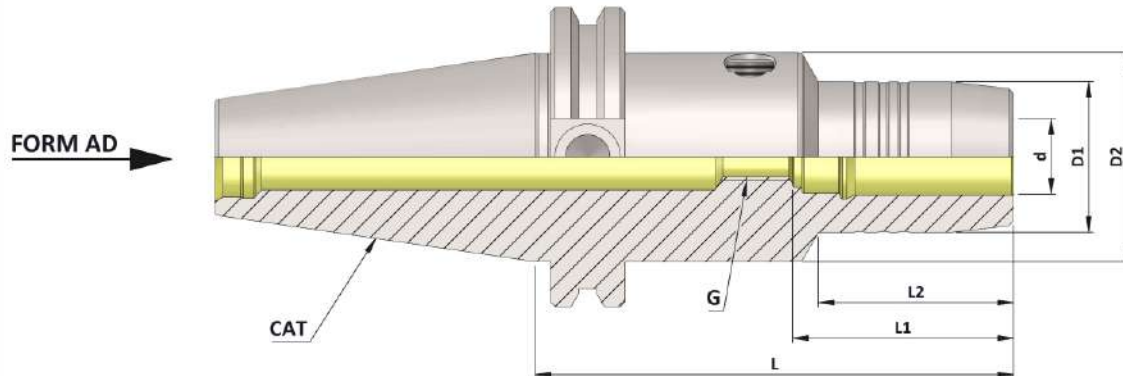
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# CAT (ANSI B 5.50) Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## CAT (ANSI B 5.50) Hydraulic Expansion Chuck

(Balanced to 2.5 G 25000 RPM)

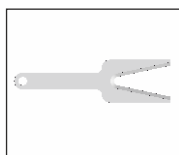
Item Name	Item Code	CAT	d	D1	D2	G	L	L1	L2
CAT40 HC06 - 101.60 2.5G 25000 SL	K10203642620230	40	6	26	44.5	M5	101.6	37	32.5
CAT40 HC08 - 101.60 2.5G 25000 SL	K10203643620230	40	8	28	44.5	M6	101.6	37	35.5
CAT40 HC10 - 101.60 2.5G 25000 SL	K10203644620230	40	10	30	44.5	M8	101.6	41	41.5
CAT40 HC12 - 101.60 2.5G 25000 SL	K10203636620230	40	12	32	44.5	M10	101.6	46	41.5
CAT40 HC14 - 101.60 2.5G 25000 SL	K10203645620230	40	14	34	44.5	M10	101.6	46	49.5
CAT40 HC16 - 101.60 2.5G 25000 SL	K10203646620230	40	16	38	44.5	M12	101.6	49	49.5
CAT40 HC18 - 101.60 2.5G 25000 SL	K10203647620230	40	18	40	44.5	M12	101.6	49	49.5
CAT40 HC20 - 101.60 2.5G 25000 SL	K10203637620230	40	20	42	44.5	M16	101.6	51	49.5
CAT40 HC25 - 101.60 2.5G 25000 SL	K10203648620230	40	25	55	65	M16	101.6	57	45
CAT40 HC32 - 101.60 2.5G 25000 SL	K10203638620230	40	32	63	70	M16	101.6	61	48

CAT40 HC 1/4" -101.60 2.5G 25000 SL	K10203649620230	40	1/4"	26	44.5	M5	101.6	37	32.5
CAT40 HC5/16" - 101.60 2.5G 25000 SL	K10203956919283	40	5/16"	28	44.5	M6	101.6	37	35.5
CAT40 HC 3/8" - 101.60 2.5G 25000 SL	K10203650620230	40	3/8"	30	44.5	M8	101.6	41	41.5
CAT40 HC 1/2" - 101.60 2.5G 25000 SL	K10203652620230	40	1/2"	32	44.5	M10	101.6	46	41.5
CAT40 HC 5/8" - 101.60 2.5G 25000 SL	K10203651620230	40	5/8"	38	44.5	M12	101.6	49	49.5
CAT40 HC 3/4" - 101.60 2.5G 25000 SL	K10203653620230	40	3/4"	42	44.5	M16	101.6	51	49.5
CAT40 HC 1.0" - 101.60 2.5G 25000 SL	K10203656620230	40	1"	55	61	M16	101.6	57	45
CAT40 HC 1-1/4"- 101.60 2.5G 25000 SL	K10203655620230	40	1-1/4"	61	70	M16	101.6	61	48

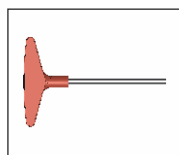
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



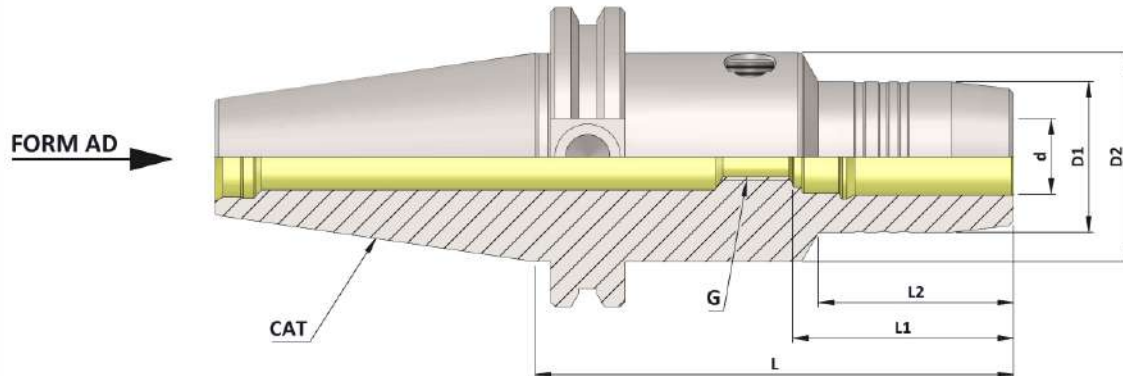
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# CAT (ANSI B 5.50) Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## CAT (ANSI B 5.50) Hydraulic Expansion Chuck

(Balanced to 2.5 G 25000 RPM)

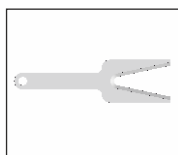
Item Name	Item Code	CAT	d	D1	D2	G	L	L1	L2
CAT40 HC06 - 150 2.5G 25000 SL	K10203642173283	40	6	26	44.5	M5	150	37	32.5
CAT40 HC08 - 150 2.5G 25000 SL	K10203643173283	40	8	28	44.5	M6	150	37	35.5
CAT40 HC10 - 150 2.5G 25000 SL	K10203644173283	40	10	30	44.5	M8	150	41	41.5
CAT40 HC12 - 150 2.5G 25000 SL	K10203636173283	40	12	32	44.5	M10	150	46	41.5
CAT40 HC14 - 150 2.5G 25000 SL	K10203645173283	40	14	34	44.5	M10	150	46	49.5
CAT40 HC16 - 150 2.5G 25000 SL	K10203646173283	40	16	38	44.5	M12	150	49	49.5
CAT40 HC18 - 150 2.5G 25000 SL	K10203647173283	40	18	40	44.5	M12	150	49	49.5
CAT40 HC20 - 150 2.5G 25000 SL	K10203637173283	40	20	42	44.5	M16	150	51	49.5
CAT40 HC25 - 150 2.5G 25000 SL	K10203648173283	40	25	55	65	M16	150	57	66
CAT40 HC32 - 150 2.5G 25000 SL	K10203638173283	40	32	63	70	M16	150	61	25.5

CAT40 HC1/4" 150 2.5G 25000 SL	K10203649173283	40	1/4"	26	44.5	M5	150	37	32.5
CAT40 HC5/16" 150 2.5G 25000 SL	K10203956173283	40	5/16"	28	44.5	M6	150	37	35.5
CAT40 HC3/8" 150 2.5G 25000 SL	K10203650173283	40	3/8"	30	44.5	M8	150	41	41.5
CAT40 HC1/2" 150 2.5G 25000 SL	K10203652173283	40	1/2"	32	44.5	M10	150	46	41.5
CAT40 HC5/8" 150 2.5G 25000 SL	K10203651173283	40	5/8"	38	44.5	M12	150	49	49.5
CAT40 HC3/4" 150 2.5G 25000 SL	K10203653173283	40	3/4"	42	44.5	M16	150	51	49.5
CAT40 HC1" 150 2.5G 25000 SL	K10203957173283	40	1"	55	65	M16	150	57	66
CAT40 HC1-1/4" 150 2.5G 25000 SL	K10203655173283	40	1-1/4"	63	70	M16	150	61	25.5

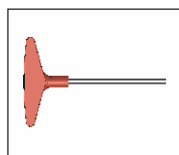
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



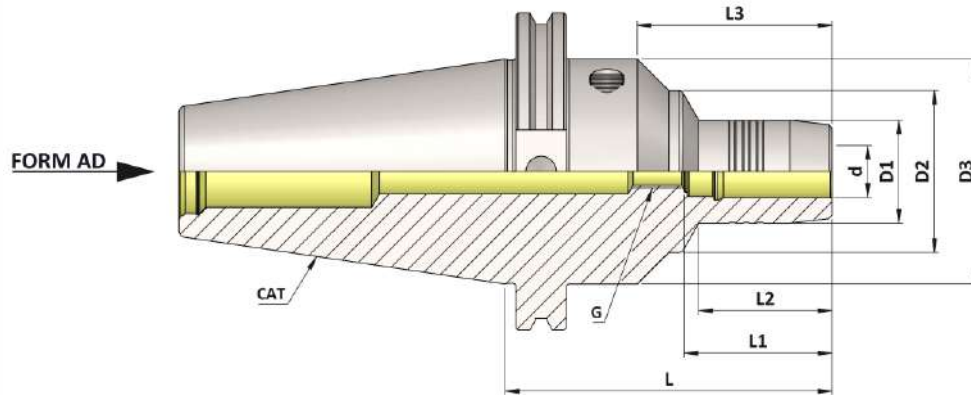
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# CAT (ANSI B 5.50) Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## CAT (ANSI B 5.50) Hydraulic Expansion Chuck

(Balanced to 2.5 G 25000 RPM)

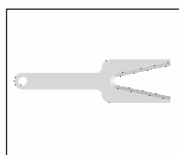
Item Name	Item Code	CAT	d	D1	D2	D3	G	L	L1	L2	L3
CAT50 HC06 - 101.60 2.5G 25000 SL	K10204642620230	50	6	26	69.85	50.3	M5	101.6	37	32.5	60.5
CAT50 HC08 - 101.60 2.5G 25000 SL	K10204643620230	50	8	28	69.85	50.3	M6	101.6	37	36	60.5
CAT50 HC10 - 101.60 2.5G 25000 SL	K10204644620230	50	10	30	69.85	50.3	M8	101.6	41	36	60.5
CAT50 HC12 - 101.60 2.5G 25000 SL	K10204636620230	50	12	32	69.85	50.3	M10	101.6	46	41.5	60.5
CAT50 HC14 - 101.60 2.5G 25000 SL	K10204645620230	50	14	34	69.85	50.3	M10	101.6	46	41.5	60.5
CAT50 HC16 - 101.60 2.5G 25000 SL	K10204646620230	50	16	38	69.85	50.3	M12	101.6	49	47.5	60.5
CAT50 HC18 - 101.60 2.5G 25000 SL	K10204647620230	50	18	40	69.85	50.3	M12	101.6	49	47.5	60.5
CAT50 HC20 - 101.60 2.5G 25000 SL	K10204637620230	50	20	42	69.85	50.3	M16	101.6	51	49.5	60.5
CAT50 HC25 - 101.60 2.5G 25000 SL	K10204648620230	50	25	57	69.85	63	M16	101.6	57	49.5	64
CAT50 HC32 - 101.60 2.5G 25000 SL	K10204638620230	50	32	64	69.85	-	M16	101.6	61	65	-

CAT50 HC1/4" - 101.60 2.5G 25000 SL	K10204649620230	50	1/4"	26	69.85	50.25	M5	101.6	37	32.5	60.5
CAT50 HC5/16" - 101.60 2.5G 25000 SL	K10204956919283	50	5/16"	28	69.85	50.25	M6	101.6	37	36	60.5
CAT50 HC3/8" - 101.60 2.5G 25000 SL	K10204650620230	50	3/8"	30	69.85	50.25	M8	101.6	41	36	60.5
CAT50 HC1/2" - 101.60 2.5G 25000 SL	K10204652620230	50	1/2"	32	69.85	50.25	M10	101.6	46	41.5	60.5
CAT50 HC5/8" - 101.60 2.5G 25000 SL	K10204651620230	50	5/8"	38	69.85	50.25	M12	101.6	49	47.5	60.5
CAT50 HC3/4" - 101.60 2.5G 25000 SL	K10204653620230	50	3/4"	42	69.85	50.25	M16	101.6	51	49.5	60.5
CAT50 HC 1.0" - 101.60 2.5G 25000 SL	K10204656620230	50	1"	57	69.85	63	M16	101.6	57	49.5	64
CAT50 HC1-1/4" - 101.60 2.5G 25000 SL	K10204655620230	50	1-1/4"	64	69.85	-	M16	101.6	61	65	-

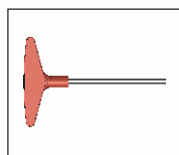
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



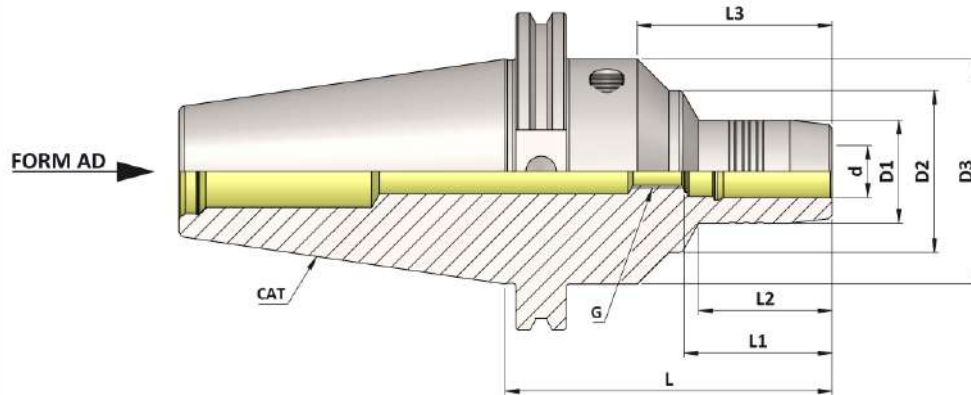
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# CAT (ANSI B 5.50) Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## CAT (ANSI B 5.50) Hydraulic Expansion Chuck

(Balanced to 2.5 G 25000 RPM)

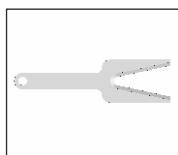
Item Name	Item Code	CAT	d	D1	D2	D3	G	L	L1	L2	L3
CAT50 HC06 150 2.5G 25000 SL	K10204642173283	50	6	26	69.85	50.3	M5	150	37	32.5	60.5
CAT50 HC08 150 2.5G 25000 SL	K10204643173283	50	8	28	69.85	50.3	M6	150	37	36	60.5
CAT50 HC10 150 2.5G 25000 SL	K10204644173283	50	10	30	69.85	50.3	M8	150	41	36	60.5
CAT50 HC12 150 2.5G 25000 SL	K10204636173283	50	12	32	69.85	50.3	M10	150	46	41.5	60.5
CAT50 HC14 150 2.5G 25000 SL	K10204645173283	50	14	34	69.85	50.3	M10	150	46	41.5	60.5
CAT50 HC16 150 2.5G 25000 SL	K10204646173283	50	16	38	69.85	50.3	M12	150	49	47.5	60.5
CAT50 HC18 150 2.5G 25000 SL	K10204647173283	50	18	40	69.85	50.3	M12	150	49	47.5	60.5
CAT50 HC20 150 2.5G 25000 SL	K10204637173283	50	20	42	69.85	50.3	M16	150	51	49.5	60.5
CAT50 HC25 150 2.5G 25000 SL	K10204648173283	50	25	57	69.85	63	M16	150	57	49.5	64
CAT50 HC32 150 2.5G 25000 SL	K10204638173283	50	32	64	69.85	-	M16	150	61	65	-

CAT50 HC1/4" 150 2.5G 25000 SL	K10204649173283	50	1/4"	26	69.85	50.25	M5	150	37	32.5	60.5
CAT50 HC5/16" 150 2.5G 25000 SL	K10204956173283	50	5/16"	28	69.85	50.25	M6	150	37	36	60.5
CAT50 HC3/8" 150 2.5G 25000 SL	K10204650173283	50	3/8"	30	69.85	50.25	M8	150	41	36	60.5
CAT50 HC1/2" 150 2.5G 25000 SL	K10204652173283	50	1/2"	32	69.85	50.25	M10	150	46	41.5	60.5
CAT50 HC5/8" 150 2.5G 25000 SL	K10204651173283	50	5/8"	38	69.85	50.25	M12	150	49	47.5	60.5
CAT50 HC3/4" 150 2.5G 25000 SL	K10204653173283	50	3/4"	42	69.85	50.25	M16	150	51	49.5	60.5
CAT50 HC1" 150 2.5G 25000 SL	K10204957173283	50	1"	57	69.85	63	M16	150	57	49.5	64
CAT50 HC1-1/4" 150 2.5G 25000 SL	K10204655173283	50	1-1/4"	64	69.85	-	M16	150	61	65	-

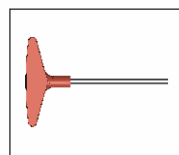
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



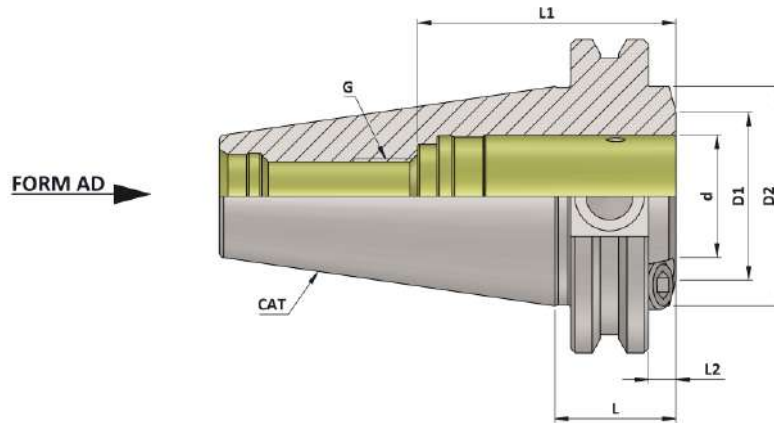
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# CAT (ANSI B 5.50) Short GP Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## CAT (ANSI B 5.50) Hydraulic Expansion Chuck

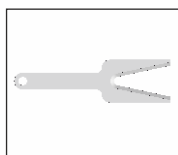
(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	CAT	d	D1	D2	G	L	L1	L2
CAT40 HC3/4" 24.60 SHORT G.P. 2.5G 25000 SL	K10203653614283	40	3/4"	34	44.45	M16	24.6	51	5.55
CAT40 HC20 24.60 SHORT G.P. 2.5G 25000 SL	K10203637614283	40	20	34	44.45	M16	24.6	51	5.55

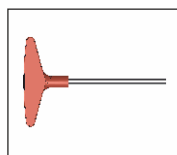
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



Key HC 5mm  
Ref. Page No. 103

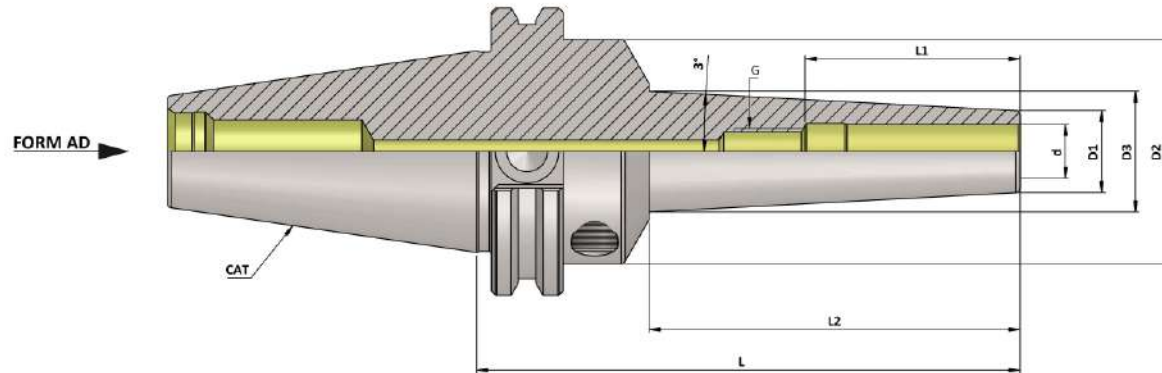
Note: All Dimensions are in mm



# CAT (ANSI B 5.50) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## CAT (ANSI B 5.50) Hydraulic Expansion Chuck Slim 3 Degree

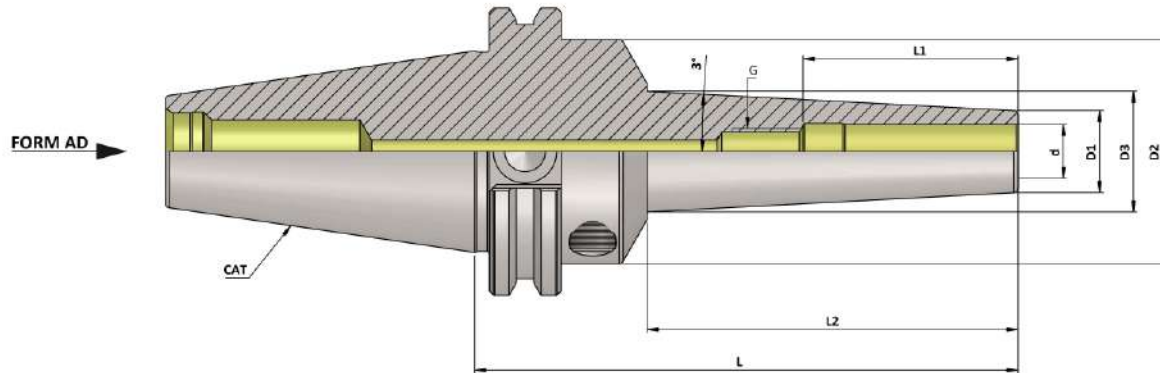
(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	CAT	d	D1	D2	D3	G	L	L1	L2
CAT40 HC03 120 SLIM 2.5G 25000SL	K10203707162258	40	3	9	49.5	17.3840	M2.5	120	28	80
CAT40 HC03 160 SLIM 2.5G 25000SL	K10203707175258	40	3	13	49.5	25.2616	M2.5	160	28	117
CAT40 HC03 200 SLIM 2.5G 25000SL	K10203707239258	40	3	13	49.5	29.5584	M2.5	200	28	158
CAT40 HC04 120 SLIM 2.5G 25000SL	K10203708162258	40	4	10	49.5	18.3840	M2.5	120	28	80
CAT40 HC04 160 SLIM 2.5G 25000SL	K10203708175258	40	4	14	49.5	26.2616	M2.5	160	28	117
CAT40 HC04 200 SLIM 2.5G 25000SL	K10203708239258	40	4	14	49.5	30.5584	M2.5	200	28	158
CAT40 HC05 120 SLIM 2.5G 25000SL	K10203709162258	40	5	11	49.5	19.3840	M2.5	120	28	80
CAT40 HC05 160 SLIM 2.5G 25000SL	K10203709175258	40	5	15	49.5	27.2616	M2.5	160	28	117
CAT40 HC05 200 SLIM 2.5G 25000SL	K10203709239258	40	5	15	49.5	31.5584	M2.5	200	28	158
CAT40 HC06 120 SLIM 2.5G 25000SL	K10203642162258	40	6	12	49.5	20.3840	M5	120	37	80
CAT40 HC06 160 SLIM 2.5G 25000SL	K10203642175258	40	6	16	49.5	28.4712	M5	160	37	119
CAT40 HC06 200 SLIM 2.5G 25000SL	K10203642239258	40	6	16	49.5	32.7680	M5	200	37	160
CAT40 HC08 120 SLIM 2.5G 25000SL	K10203643162258	40	8	14	49.5	22.3840	M6	120	37	80
CAT40 HC08 160 SLIM 2.5G 25000SL	K10203643175258	40	8	18	49.5	30.4712	M6	160	37	119
CAT40 HC08 200 SLIM 2.5G 25000SL	K10203643239258	40	8	18	49.5	34.7680	M6	200	37	160
CAT40 HC10 120 SLIM 2.5G 25000SL	K10203644162258	40	10	16	49.5	24.4888	M8	120	41	81
CAT40 HC10 160 SLIM 2.5G 25000SL	K10203644175258	40	10	20	49.5	32.6808	M8	160	41	121
CAT40 HC10 200 SLIM 2.5G 25000SL	K10203644239258	40	10	20	49.5	36.9776	M8	200	41	162
CAT40 HC12 120 SLIM 2.5G 25000SL	K10203636162258	40	12	18	49.5	26.5936	M10	120	46	82
CAT40 HC12 160 SLIM 2.5G 25000SL	K10203636175258	40	12	22	49.5	34.7856	M10	160	46	122
CAT40 HC12 200 SLIM 2.5G 25000SL	K10203636239258	40	12	22	49.5	39.0824	M10	200	46	163
CAT40 HC14 120 SLIM 2.5G 25000SL	K10203645162258	40	14	22	49.5	30.2792	M10	120	46	79
CAT40 HC14 160 SLIM 2.5G 25000SL	K10203645175258	40	14	26	49.5	38.6808	M10	160	46	121
CAT40 HC14 200 SLIM 2.5G 25000SL	K10203645239258	40	14	26	49.5	42.9776	M10	200	46	162
CAT40 HC16 120 SLIM 2.5G 25000SL	K10203646162258	40	16	24	49.5	32.2792	M12	120	49	79
CAT40 HC16 160 SLIM 2.5G 25000SL	K10203646175258	40	16	28	49.5	40.6808	M12	160	49	121
CAT40 HC16 200 SLIM 2.5G 25000SL	K10203646239258	40	16	28	49.5	44.9776	M12	200	49	162
CAT40 HC18 120 SLIM 2.5G 25000SL	K10203647162258	40	18	26	49.5	34.3840	M12	120	49	80
CAT40 HC18 160 SLIM 2.5G 25000SL	K10203647175258	40	18	30	49.5	42.7856	M12	160	49	122
CAT40 HC18 200 SLIM 2.5G 25000SL	K10203647239258	40	18	30	49.5	47.0824	M12	200	49	163
CAT40 HC20 120 SLIM 2.5G 25000SL	K10203637162258	40	20	28	49.5	36.3840	M16	120	51	80
CAT40 HC20 160 SLIM 2.5G 25000SL	K10203637175258	40	20	32	49.5	44.7856	M16	160	51	122
CAT40 HC20 200 SLIM 2.5G 25000SL	K10203637239258	40	20	32	49.5	49.0824	M16	200	51	163

# CAT (ANSI B 5.50) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## CAT (ANSI B 5.50) Hydraulic Expansion Chuck Slim 3 Degree

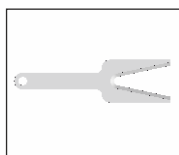
(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	CAT	d	D1	D2	D3	G	L	L1	L2
CAT40 HC1/8" 120 SLIM 2.5G 25000SL	K10203961162258	40	1/8"	9	49.5	17.3840	M2.5	120	28	80
CAT40 HC1/8" 160 SLIM 2.5G 25000SL	K10203961175258	40	1/8"	13	49.5	25.2616	M2.5	160	28	117
CAT40 HC1/8" 200 SLIM 2.5G 25000SL	K10203961239258	40	1/8"	13	49.5	29.5584	M2.5	200	28	158
CAT40 HC3/16" 120 SLIM 2.5G 25000SL	K10203962162258	40	3/16"	10	49.5	18.3840	M2.5	120	28	80
CAT40 HC3/16" 160 SLIM 2.5G 25000SL	K10203962175258	40	3/16"	14	49.5	26.2616	M2.5	160	28	117
CAT40 HC3/16" 200 SLIM 2.5G 25000SL	K10203962239258	40	3/16"	14	49.5	30.5584	M2.5	200	28	158
CAT40 HC1/4" 120 SLIM 2.5G 25000SL	K10203649162258	40	1/4"	12	49.5	20.3840	M5	120	37	80
CAT40 HC1/4" 160 SLIM 2.5G 25000SL	K10203649175258	40	1/4"	16	49.5	28.4712	M5	160	37	119
CAT40 HC1/4" 200 SLIM 2.5G 25000SL	K10203649239258	40	1/4"	16	49.5	32.7680	M5	200	37	160
CAT40 HC5/16" 120 SLIM 2.5G 25000SL	K10203956162258	40	5/16"	14	49.5	22.3840	M6	120	37	80
CAT40 HC5/16" 160 SLIM 2.5G 25000SL	K10203956175258	40	5/16"	18	49.5	30.4712	M6	160	37	119
CAT40 HC5/16" 200 SLIM 2.5G 25000SL	K10203956239258	40	5/16"	18	49.5	34.7680	M6	200	37	160
CAT40 HC3/8" 120 SLIM 2.5G 25000SL	K10203650162258	40	3/8"	16	49.5	24.4888	M8	120	41	81
CAT40 HC3/8" 160 SLIM 2.5G 25000SL	K10203650175258	40	3/8"	20	49.5	32.6808	M8	160	41	121
CAT40 HC3/8" 200 SLIM 2.5G 25000SL	K10203650239258	40	3/8"	20	49.5	36.9776	M8	200	41	162
CAT40 HC1/2" 120 SLIM 2.5G 25000SL	K10203652162258	40	1/2"	18	49.5	26.5936	M10	120	46	82
CAT40 HC1/2" 160 SLIM 2.5G 25000SL	K10203652175258	40	1/2"	22	49.5	34.7856	M10	160	46	122
CAT40 HC1/2" 200 SLIM 2.5G 25000SL	K10203652239258	40	1/2"	22	49.5	39.0824	M10	200	46	163
CAT40 HC5/8" 120 SLIM 2.5G 25000SL	K10203651162258	40	5/8"	24	49.5	32.2792	M12	120	49	79
CAT40 HC5/8" 160 SLIM 2.5G 25000SL	K10203651175258	40	5/8"	28	49.5	40.6808	M12	160	49	121
CAT40 HC5/8" 200 SLIM 2.5G 25000SL	K10203651239258	40	5/8"	28	49.5	44.9776	M12	200	49	162
CAT40 HC3/4" 120 SLIM 2.5G 25000SL	K10203653162258	40	3/4"	28	49.5	36.3840	M16	120	51	80
CAT40 HC3/4" 160 SLIM 2.5G 25000SL	K10203653175258	40	3/4"	32	49.5	44.7856	M16	160	51	122
CAT40 HC3/4" 200 SLIM 2.5G 25000SL	K10203653239258	40	3/4"	32	49.5	49.0824	M16	200	51	163

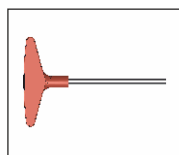
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



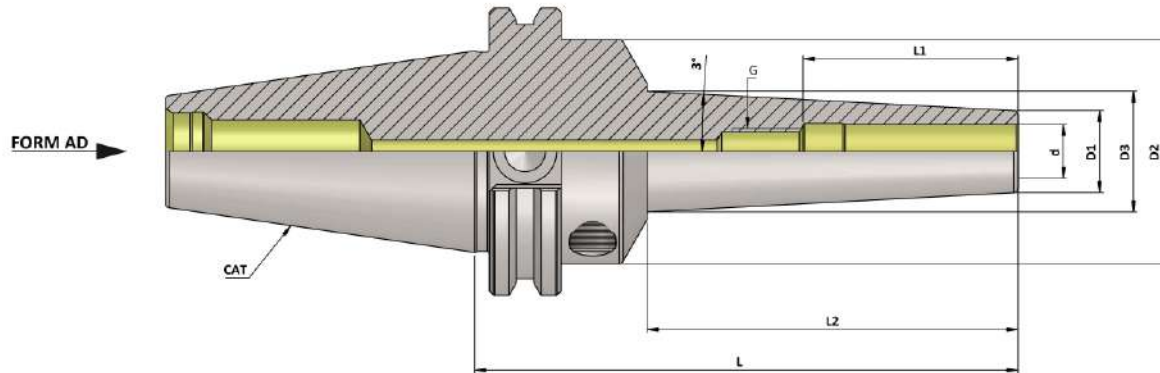
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# CAT (ANSI B 5.50) Hydraulic Expansion Chuck Slim 3 Degree



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



## CAT (ANSI B 5.50) Hydraulic Expansion Chuck Slim 3 Degree

(Balanced to 2.5 G 25000 RPM)

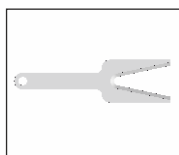
Item Name	Item Code	CAT	d	D1	D2	D3	G	L	L1	L2
CAT50 HC06 120 SLIM 2.5G 25000SL	K10204642162258	50	6	12	49.5	16.192	M5	120	37	40
CAT50 HC08 120 SLIM 2.5G 25000SL	K10204643162258	50	8	14	49.5	18.192	M6	120	37	40
CAT50 HC10 120 SLIM 2.5G 25000SL	K10204644162258	50	10	16	49.5	20.2968	M8	120	41	41
CAT50 HC12 120 SLIM 2.5G 25000SL	K10204636162258	50	12	18	49.5	22.4016	M10	120	46	42
CAT50 HC14 120 SLIM 2.5G 25000SL	K10204645162258	50	14	22	49.5	26.4016	M10	120	46	42
CAT50 HC16 120 SLIM 2.5G 25000SL	K10204646162258	50	16	24	49.5	28.192	M12	120	49	40
CAT50 HC18 120 SLIM 2.5G 25000SL	K10204647162258	50	18	26	49.5	30.192	M12	120	49	40
CAT50 HC20 120 SLIM 2.5G 25000SL	K10204637162258	50	20	28	49.5	32.716	M16	120	51	45

CAT50 HC1/4" 120 SLIM 2.5G 25000SL	K10204649162258	50	1/4"	12	49.5	16.192	M5	120	37	40
CAT50 HC5/16" 120 SLIM 2.5G 25000SL	K10204956162258	50	5/16"	14	49.5	18.192	M6	120	37	40
CAT50 HC3/8" 120 SLIM 2.5G 25000SL	K10204650162258	50	3/8"	16	49.5	20.2968	M8	120	41	41
CAT50 HC1/2" 120 SLIM 2.5G 25000SL	K10204652162258	50	1/2"	18	49.5	22.4016	M10	120	46	42
CAT50 HC5/8" 120 SLIM 2.5G 25000SL	K10204651162258	50	5/8"	24	49.5	28.192	M12	120	49	40
CAT50 HC3/4" 120 SLIM 2.5G 25000SL	K10204653162258	50	3/4"	28	49.5	32.716	M16	120	51	45

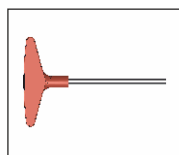
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



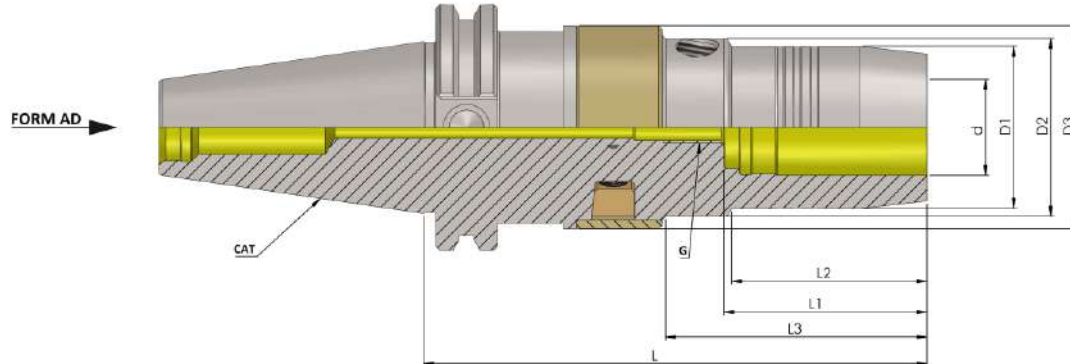
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# CAT (ANSI B 5.50) Hydraulic Expansion Chuck With Run Out Adjustment



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



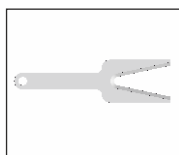
## CAT (ANSI-B 5.50) Hydraulic Expansion Chuck Run Out Adjustment (Balanced to 2.5 G 25000 RPM)

ITEM NAME	ITEM CODE	CAT	d	D1	D2	D3	G	L	L1	L2	L3
CAT40 HC20 130 AD/RD 2.5G 25000 SL	K10203637165536	40	20	42	46	52.5	M8	130	51	50	67.5
CAT40 HC32 150 AD/RD 2.5G 25000 SL	K10204638173536	40	32	42	46	52.5	M8	150	51	50	67.5
CAT40 HC3/4" 130 AD/RD 2.5G 25000 SL	K10203653916536	40	3/4"	42	46	52.5	M8	130	51	50	67.5
CAT40 HC1-1/4" 150 AD/RD 2.5G 25000 SL	K10204655173536	40	1-1/4"	42	46	52.5	M8	150	51	50	67.5
CAT50 HC20 110 AD/RD 2.5G 25000 SL	K10204637156536	50	20	42	46	52.5	M8	110	51	50	67.5
CAT50 HC32 125 AD/RD 2.5G 25000 SL	K10204638164536	50	32	42	46	52.5	M8	125	51	50	67.5
CAT50 HC3/4"110 AD/RD 2.5G 25000 SL	K10204653916536	50	3/4"	42	46	52.5	M8	110	51	50	67.5
CAT50 HC1-1/4" 125 AD/RD 2.5G 25000 SL	K10204655164536	50	1-1/4"	42	46	52.5	M8	125	51	50	67.5

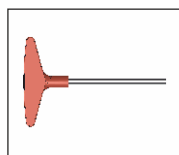
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



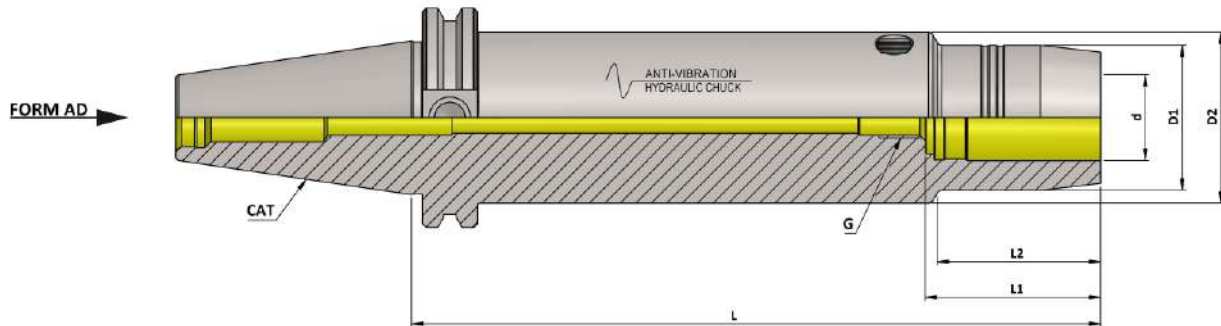
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# CAT (ANSI B 5.50) Hydraulic Expansion Chuck Anti - Vibration (HC-AD/AV)



Maximum Run out of the Internal Dia with respect to the External Taper 0.010 mm



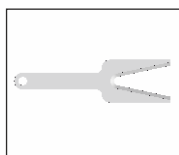
## CAT (ANSI-B 5.50) Hydraulic Expansion Chuck Anti - Vibration

ITEM NAME	ITEM CODE	CAT	d	D1	D2	G	L	L1	L2
CAT40 HC3/4" 200 AD/AV	K10203653239539	40	3/4"	42	49.5	M16	200	51	47
CAT40 HC3/4" 250 AD/AV	K10203653182539	40	3/4"	42	49.5	M16	250	51	47
CAT40 HC3/4" 300 AD/AV	K10203653183539	40	3/4"	42	49.5	M16	300	51	47
CAT40 HC1-1/4" 200 AD/AV	K10203951239539	40	1-1/4"	62	63	M16	200	61	48
CAT40 HC1-1/4" 250 AD/AV	K10203951182539	40	1-1/4"	62	63	M16	250	61	48
CAT40 HC1-1/4" 300 AD/AV	K10203951183539	40	1-1/4"	62	63	M16	300	61	48
CAT50 HC3/4" 200 AD/AV	K10204653239539	50	3/4"	42	49.5	M16	200	51	42
CAT50 HC3/4" 250 AD/AV	K10204653182539	50	3/4"	42	49.5	M16	250	51	42
CAT50 HC3/4" 300 AD/AV	K10204653183539	50	3/4"	42	49.5	M16	300	51	42
CAT50 HC3/4" 350 AD/AV	K10204653184539	50	3/4"	42	49.5	M16	350	51	42
CAT50 HC3/4" 400 AD/AV	K10204653540539	50	3/4"	42	49.5	M16	400	51	42
CAT50 HC1-1/4" 200 AD/AV	K10204951239539	50	1-1/4"	62	63	M16	200	61	48
CAT50 HC1-1/4" 250 AD/AV	K10204951182539	50	1-1/4"	62	63	M16	250	61	48
CAT50 HC1-1/4" 300 AD/AV	K10204951183539	50	1-1/4"	62	63	M16	300	61	48
CAT50 HC1-1/4" 350 AD/AV	K10204951184539	50	1-1/4"	62	63	M16	350	61	48
CAT50 HC1-1/4" 400 AD/AV	K10204951540539	50	1-1/4"	62	63	M16	400	61	48

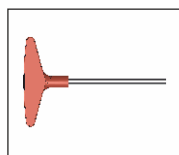
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



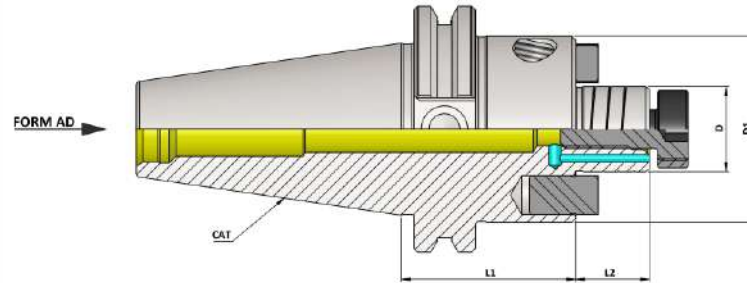
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# CAT (ANSI B 5.50) Hydraulic Expansion Face Mill Holder (HC-FMH-K)



Maximum Run out of the External Dia with respect to the External Taper 0.003 mm

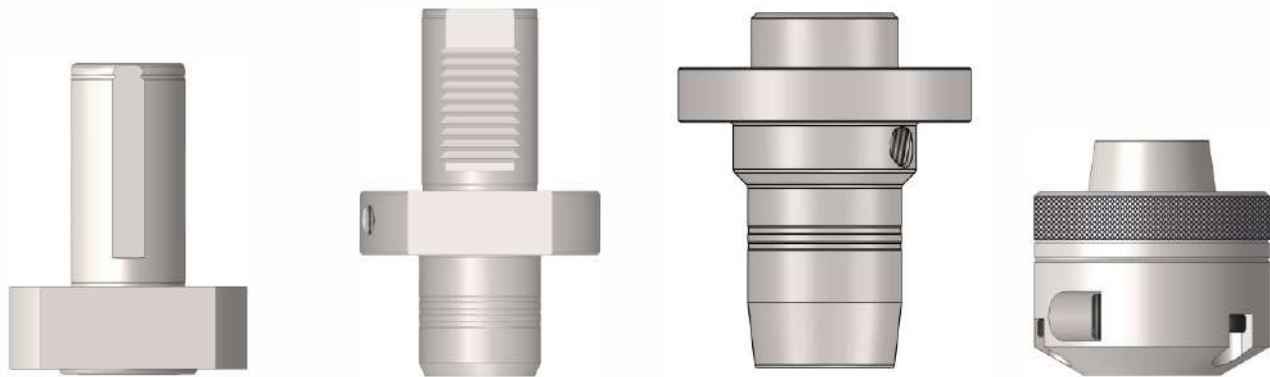


## CAT (ANSI-B 5.50) Hydraulic Expansion Face Mill Holder (HC-FMH-K)

(Balanced to 2.5 G 25000 RPM)

Item Name	Item Code	CAT	D	D1	L1	L2
CAT40 HC FMH-K 1.0" X 2.0" AD/ 2.5G 25000 SL	K10203952913282	40	1.0"	2.375"	2.0"	0.687"
CAT40 HC FMH-K 1 1/4" X 2.0" AD/ 2.5G 25000 SL	K10203952914282	40	1 1/4"	2.875"	2.0"	0.687"
CAT40 HC FMH-K 1 1/2" X 2.0" AD/ 2.5G 25000 SL	K10203952915282	40	1 1/2"	3.750"	2.0"	0.938"
CAT50 HC FMH-K 1.0" X 2.0" AD/ 2.5G 25000 SL	K10204952913282	50	1.0"	2.375"	2.0"	0.687"
CAT50 HC FMH-K 1 1/4" X 2.0" AD/ 2.5G 25000 SL	K10204952914282	50	1 1/4"	2.875"	2.0"	0.687"
CAT50 HC FMH-K 1 1/2" X 2.0" AD/ 2.5G 25000 SL	K10204952915282	50	1 1/2"	3.750"	2.0"	0.938"

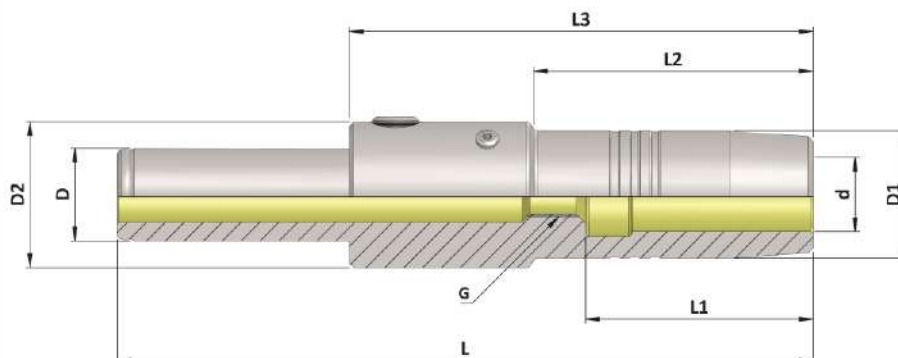
**Cylindrical Shank**  
**VDI Shank**  
**Flange Type**  
**ER Type**



# Cylindrical Shank Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Dia 0.003 mm



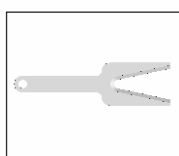
## Cylindrical Shank Hydraulic Expansion Chuck

Item Name	Item Code	d	D	D1	D2	G	L	L1	L2	L3
DIA20 HC06 L 150	K10160642236127	6	20	16	31.5	M5	150	37	54	100
DIA20 HC08 L 150	K10160643236127	8	20	18	31.5	M5	150	37	54	100
DIA20 HC10 L 150	K10160644236127	10	20	20	31.5	M6	150	41	54	100
DIA20 HC12 L 150	K10160636236127	12	20	25	31.5	M6	150	46	100	100
DIA20 HC16 L 150	K10160646236127	16	20	27.5	31.5	M10	150	49	60	100
DIA20 HC20 L 150	K10160637236127	20	20	31.5	31.5	M10	150	51	100	100
DIA 3/4" HC1/4" 150	K10221649173127	1/4"	3/4"	16	31.5	M5	150	37	54	100
DIA 3/4" HC5/16" 150	K10221956173127	5/16"	3/4"	18	31.5	M5	150	37	54	100
DIA 3/4" HC3/8" 150	K10221650173127	3/8"	3/4"	20	31.5	M6	150	41	54	100
DIA 3/4" HC1/2" 150	K10221652173127	1/2"	3/4"	25	31.5	M6	150	46	100	100
DIA 3/4" HC5/8" 150	K10221651173127	5/8"	3/4"	27.5	31.5	M10	150	49	60	100
DIA 3/4" HC3/4" 150	K10221653173127	3/4"	3/4"	31.5	31.5	M10	150	51	100	100
DIA32 HC20 L 150	K10162637236127	20	32	31.5	31.5	M10	150	51	90	90
DIA32 HC20 L 200	K10162637237127	20	32	31.5	31.5	M10	200	51	90	90
DIA 1 1/4" HC3/4" 150	K10222653173127	3/4"	1-1/4"	31.5	31.5	M10	150	51	90	90
DIA 1 1/4" HC3/4" 200	K10222653239127	3/4"	1-1/4"	31.5	31.5	M10	200	51	90	90

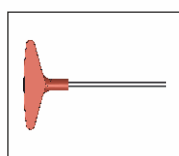
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



Key HC 5mm  
Ref. Page No. 103

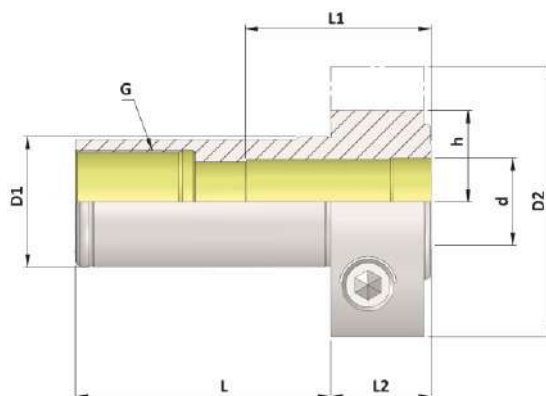
Note: All Dimensions are in mm



# Cylindrical Shank Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Dia 0.003 mm



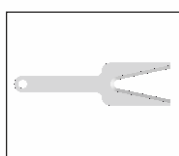
## Cylindrical Shank Hydraulic Expansion Chuck

Item Name	Item Code	d	D1	D2	G	h	L	L1	L2
DIA25 HC12 L049	K10261636630127	12	25	52	M18	17.5	49	35.5	19.5
DIA 1" HC1/2" 049	K10219652357127	1/2"	1"	52	M18	17.5	49	35.5	19.5
DIA 25 HC16 L056	K10285646631127	16	25	56	M18	17.5	56	40	19.5
DIA 1" HC5/8" 056	K10219651111127	5/8"	1"	56	M18	17.5	56	40	19.5
DIA 32 HC20 L059	K10333637632127	20	32	60	M18	21.5	59	42.8	19.5
DIA 1-1/4" HC3/4" 059	K10219653116127	3/4"	1-1/4"	60	M18	21.5	59	42.8	19.5

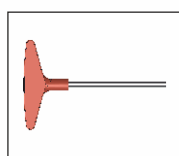
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



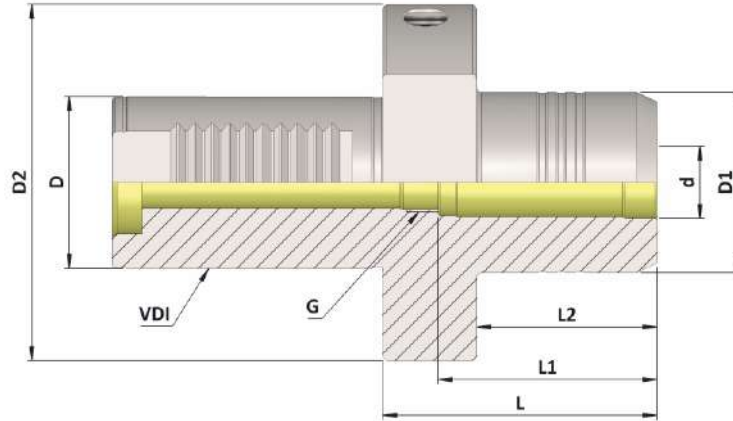
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# VDI Shank Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Dia 0.003 mm



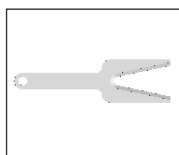
## VDI Shank Hydraulic Expansion Chuck

Item Name	Item Code	VDI	d	D	D1	D2	G	L	L1	L2
VDI 25 HC12 L055 (with stopper)	K10285636633127	25	12	25	32	58	M10	55	46	37
VDI 25 HC1/2" 055 (with stopper)	K10285652115127	25	1/2"	25	32	58	M10	55	46	37
VDI30 HC20 L064 (with stopper)	K10261637634127	30	20	30	42	68	M16	64	51	42
VDI 30 HC3/4" 064 (with stopper)	K10261653120127	30	3/4"	30	42	68	M16	64	51	42
VDI40 HC20 L064 (with stopper)	K10262637634127	40	20	40	42	83	M20	64	51	42
VDI 40 HC3/4" 064 (with stopper)	K10262653120127	40	3/4"	40	42	83	M20	64	51	42
VDI30 HC32 L086 (without stopper)	K10261638635127	30	32	30	64	68	-	86	-	64
VDI30 HC1-1/4" 086 (without stopper)	K10261655136127	30	1-1/4"	30	64	68	-	86	-	64
VDI40 HC32 L086 (without stopper)	K10262638635127	40	32	40	64	83	-	86	-	64
VDI40 HC1-1/4" 086 (without stopper)	K10262655136127	40	1-1/4"	40	64	83	-	86	-	64

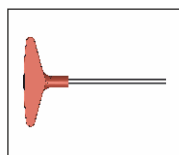
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



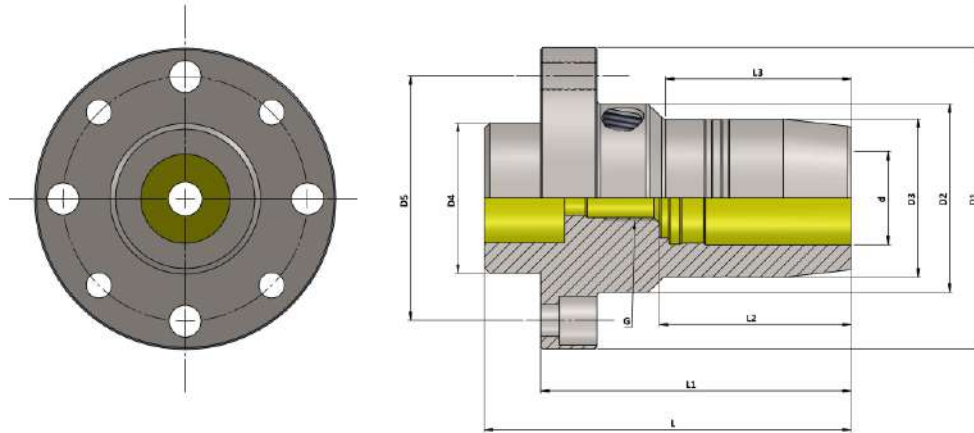
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# Flange Type Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Dia 0.003 mm



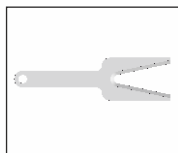
## Flange Type Hydraulic Expansion Chuck

Item Name	Item Code	d	D1	D2	D3	D4	D5	G	L	L1	L2	L3
FLANGE TYPE HC 12 070	K10368636125127	12	70	40	32	35	53	M10	84.7	75	45	45
FLANGE TYPE HC 12 080	K10368636131127	12	80	50	32	40	63	M10	87.2	77.5	45	44
FLANGE TYPE HC 20 080	K10368637131127	20	80	50	42	40	63	M16	92.2	82.5	50	51.5
FLANGE TYPE HC 32 100	K10368638148127	32	100	64	64	50	79	M16	114.7	103	60	84

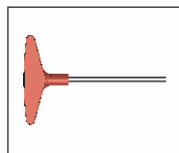
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



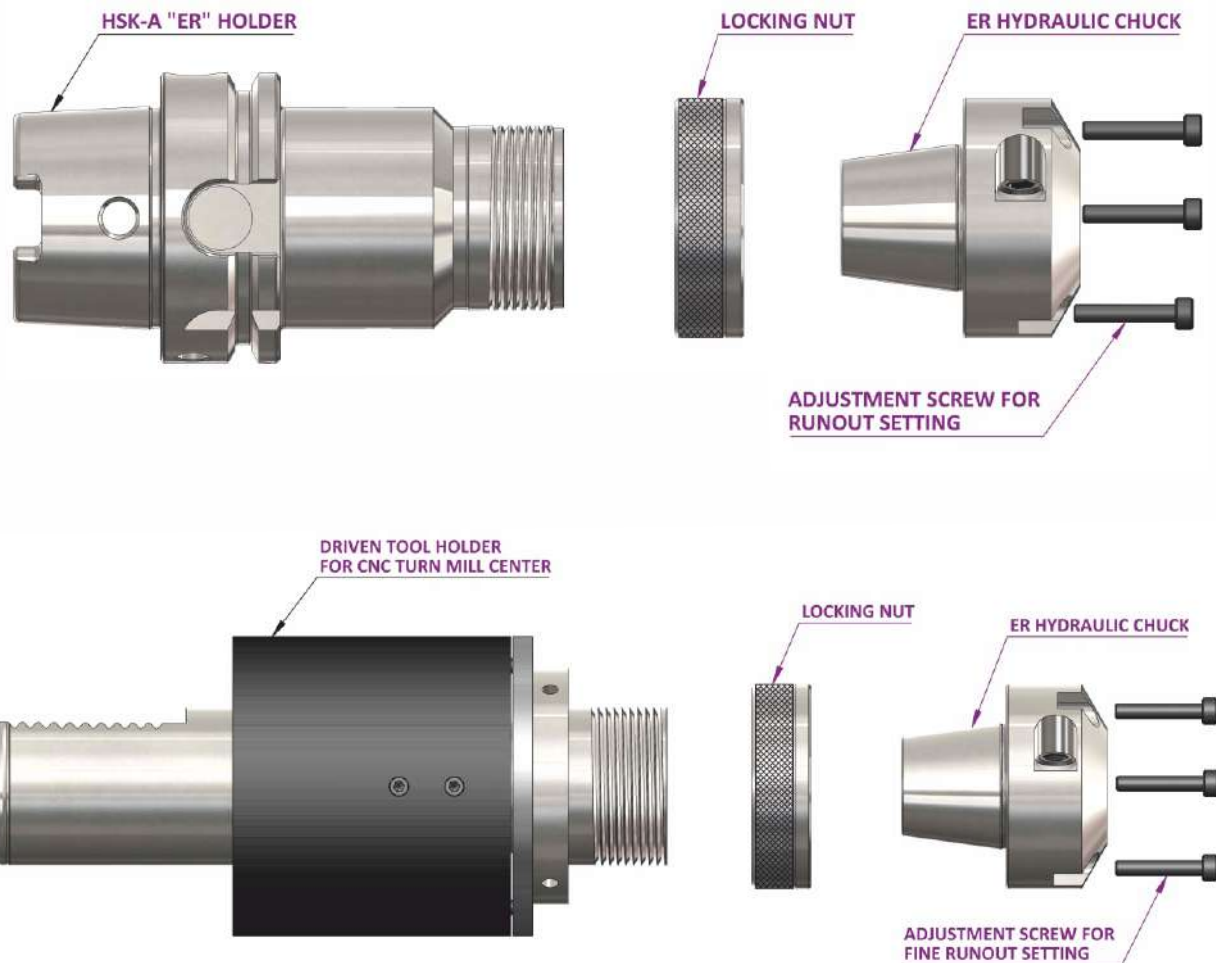
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

## KTA “ER” Type Hydraulic Expansion Chuck

### ◆ Features :

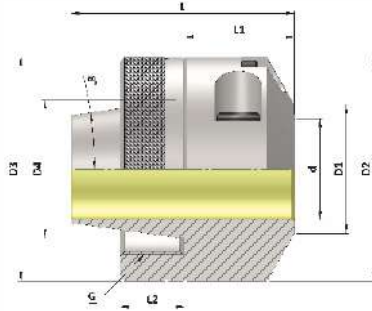
- Best suitable for positive driven tools.
- you can easily convert standard “ER” series holders into High Precision “ER” Hydraulic Chucks.
- Easy to handle & maintenance free design.
- 2 to 3 times clamping force compared to standard “ER” Collect Chucks.
- With the help of 3 Axial clamping screws, it is possible to adjust tool run out precisely (**0.002 mm is possible**), hence increases the tool life as well as productivity.



# “ER” Type Hydraulic Expansion Chuck



Maximum Run out of the Internal Dia with respect to the External Taper 0.003 mm



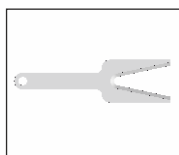
## ER Type Hydraulic Expansion Chuck

Item Name	Item Code	ER	d	D1	D2	D3	D4	G	L	L1	L2
ER 16 HC06	K10322642301127	16	6	16	34	34	16	M22X1.5	30	14	10
ER 16M HC06	K10327642301127	16M	6	16	34	34	16	M19 X1	30	14	10
ER 16 HC1/4"	K10322649301127	16	1/4"	16	34	34	16	M22 X 1.5	30	14	10
ER 20 HC12	K10324636301127	20	12	22	43.5	43.5	20	M25 X 1.5	40	24	12
ER 20M HC12	K10328636301127	20M	12	22	43.5	43.5	20	M24 X 1	40	24	12
ER 20 HC1/2"	K10324652301127	20	1/2"	22	43.5	43.5	20	M25 X 1.5	40	24	12
ER 20M HC1/2"	K10328652301127	20M	1/2"	22	43.5	43.5	20	M24 X 1	40	24	12
ER 25 HC12	K10323636301127	25	12	26	48	48	25	M32 X 1.5	46	26	15
ER 25M HC12	K10329636301127	25M	12	26	48	48	25	M30 X 1	46	26	15
ER 25 HC16	K10323646301127	25	16	26	48	48	25	M32 X 1.5	46	26	15
ER 25M HC16	K10329646301127	25M	16	26	48	48	25	M30 X 1	46	26	15
ER 25 HC1/2"	K10323652301127	25	1/2"	26	48	48	25	M32 X 1.5	46	26	15
ER 25 HC5/8"	K10323651301127	25	5/8"	26	48	48	25	M32 X 1.5	46	26	15
ER 32 HC20	K10325637301127	32	20	30	52	52	32	M40X1.5	52	25.5	15
ER 32 HC3/4"	K10325653301127	32	3/4"	30	52	52	32	M40X1.5	52	25.5	15
ER 40 HC25	K10326648301127	40	25	35	59	62	40	M50X1.5	56	22	20
ER 40 HC 1.0"	K10326656301127	40	1"	35	59	62	40	M50X1.5	56	22	20

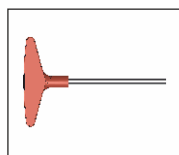
### Accessories:



Reduction Sleeve Seal  
(RS Seal) Ref. Page No. 96-100



Spanner HC  
Ref. Page No. 103



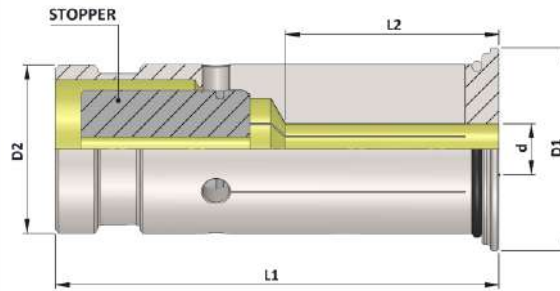
Key HC 5mm  
Ref. Page No. 103

Note: All Dimensions are in mm

# Reduction Sleeve Seal (RS Seal) For Hydraulic Expansion Chuck



Stopper for adjustable stop/  
length adjustment



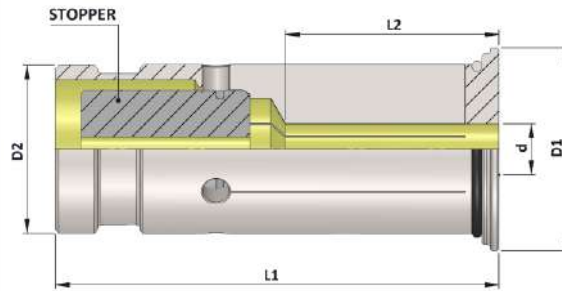
Reduction Sleeve Seal (RS Seal)					Concentricity within 0.005mm	
Item Name	Item Code	d	D1	D2	L1	Minimum Insertion Length (L2)
RS SEAL 12 x 3	K10251209556127	3	16.5	12	44	14
RS SEAL 12 x 4	K10251209528127	4	16.5	12	44	15
RS SEAL 12 x 5	K10251209561127	5	16.5	12	44	18
RS SEAL 12 x 6	K10251209342127	6	16.5	12	44	25
RS SEAL 12 x 7	K10251695854127	7	16.5	12	44	25
RS SEAL 12 x 8	K10251209314127	8	16.5	12	44	26
RS SEAL 12 x 9	K10251695866127	9	16.5	12	44	26
RS SEAL 12 x 10	K10251695904127	10	16.5	12	44	26
RS SEAL 20 x 3	K10251217323127	3	24	20	52.5	14
RS SEAL 20 x 4	K10251217434127	4	24	20	52.5	15
RS SEAL 20 x 5	K10251217442127	5	24	20	52.5	18
RS SEAL 20 x 6	K10312185301127	6	24	20	52.5	25
RS SEAL 20 x 7	K10251217426127	7	24	20	52.5	25
RS SEAL 20 x 8	K10251217443127	8	24	20	52.5	30
RS SEAL 20 x 9	K10251217415127	9	24	20	52.5	30
RS SEAL 20 x 10	K10251217416127	10	24	20	52.5	33
RS SEAL 20 x 11	K10251217444127	11	24	20	52.5	33
RS SEAL 20 x 12	K10251217445127	12	24	20	52.5	34
RS SEAL 20 x 13	K10251217417127	13	24	20	52.5	34
RS SEAL 20 x 14	K10251217418127	14	24	20	52.5	34
RS SEAL 20 x 15	K10251217419127	15	24	20	52.5	40
RS SEAL 20 x 16	K10312195301127	16	24	20	52.5	40

Note: All Dimensions are in mm

# Reduction Sleeve Seal (RS Seal) For Hydraulic Expansion Chuck



Stopper for adjustable stop/  
length adjustment



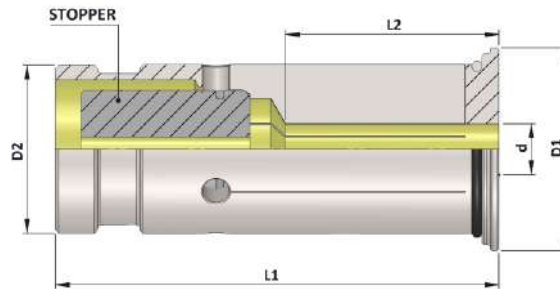
Reduction Sleeve Seal (RS Seal)						Concentricity within 0.005mm
Item Name	Item Code	d	D1	D2	L1	Minimum Insertion Length (L2)
RS SEAL 25 x 6	K10251695867127	6	29	25	56.5	25
RS SEAL 25 x 8	K10251695894127	8	29	25	56.5	25
RS SEAL 25 x 10	K10251695895127	10	29	25	56.5	33
RS SEAL 25 x 12	K10251695874127	12	29	25	56.5	34
RS SEAL 25 x 14	K10251695896127	14	29	25	56.5	34
RS SEAL 25 x 16	K10251695875127	16	29	25	56.5	40
RS SEAL 25 x 18	K10251695897127	18	29	25	56.5	40
RS SEAL 25 x 20	K10251695898127	20	29	25	56.5	40
RS SEAL 32 x 6	K10251229324127	6	36	32	63.5	25
RS SEAL 32 x 7	K10251695905127	7	36	32	63.5	25
RS SEAL 32 x 8	K10251229325127	8	36	32	63.5	25
RS SEAL 32 x 9	K10251695906127	9	36	32	63.5	33
RS SEAL 32 x 10	K10251229322127	10	36	32	63.5	33
RS SEAL 32 x 11	K10251695907127	11	36	32	63.5	34
RS SEAL 32 x 12	K10251229327127	12	36	32	63.5	34
RS SEAL 32 x 13	K10251695908127	13	36	32	63.5	34
RS SEAL 32 x 14	K10251229326127	14	36	32	63.5	34
RS SEAL 32 x 15	K10251695909127	15	36	32	63.5	40
RS SEAL 32 x 16	K10251229420127	16	36	32	63.5	40
RS SEAL 32 x 18	K10251229501127	18	36	32	63.5	40
RS SEAL 32 x 20	K10251229554127	20	36	32	63.5	40
RS SEAL 32 x 25	K10251229481127	25	36	32	63.5	42

Note: All Dimensions are in mm

# Reduction Sleeve Seal (RS Seal) For Hydraulic Expansion Chuck



Stopper for adjustable stop/  
length adjustment



Reduction Sleeve Seal (RS Seal)					Concentricity within 0.005mm	
Item Name	Item Code	d	D1	D2	L1	Minimum Insertion Length (L2)
RS SEAL 12 X 1/8"	K10251695920127	1/8"	16.5	12	44	14
RS SEAL 12 X 3/16"	K10251695921127	3/16"	16.5	12	44	15
RS SEAL 12 X 1/4"	K10251695922127	1/4"	16.5	12	44	25
RS SEAL 12 X 5/16"	K10251695923127	5/16"	16.5	12	44	26
RS SEAL 12 X 3/8"	K10251695924127	3/8"	16.5	12	44	26
RS SEAL 20 X 1/8"	K10251695925127	1/8"	24	20	52.5	14
RS SEAL 20 X 3/16"	K10251695926127	3/16"	24	20	52.5	15
RS SEAL 20 X 1/4"	K10251695927127	1/4"	24	20	52.5	25
RS SEAL 20 X 5/16"	K10251695928127	5/16"	24	20	52.5	30
RS SEAL 20 X 3/8"	K10251695929127	3/8"	24	20	52.5	33
RS SEAL 20 X 1/2"	K10251695930127	1/2"	24	20	52.5	34
RS SEAL 20 X 5/8"	K10251695931127	5/8"	24	20	52.5	40
RS SEAL 32 X 1/4"	K10251695932127	1/4"	36	32	63.5	25
RS SEAL 32 X 5/16"	K10251695933127	5/16"	36	32	63.5	25
RS SEAL 32 X 3/8"	K10251695934127	3/8"	36	32	63.5	33
RS SEAL 32 X 1/2"	K10251695935127	1/2"	36	32	63.5	34
RS SEAL 32 X 5/8"	K10251695936127	5/8"	36	32	63.5	40
RS SEAL 32 X 3/4"	K10251695937127	3/4"	36	32	63.5	40
RS SEAL 32 X 1.0"	K10251695938127	1.0"	36	32	63.5	42

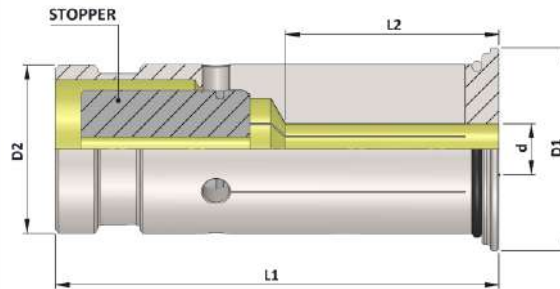
Note: All Dimensions are in mm



# Reduction Sleeve Seal (RS Seal) For Hydraulic Expansion Chuck



Stopper for adjustable stop/  
length adjustment



## Reduction Sleeve Seal (RS Seal) Concentricity within 0.005mm

Item Name	Item Code	d	D1	D2	L1	Minimum Insertion Length (L2)
RS SEAL 1/2" - 1/8" ( 3.175 )	K10334658636127	1/8" ( 3.175 )	16.50	1/2" ( 12.70 )	44	14
RS SEAL 1/2" - 3/16" ( 4.7625 )	K10334659637127	3/16" ( 4.7625 )	16.50	1/2" ( 12.70 )	44	18
RS SEAL 1/2" - 1/4" ( 6.350 )	K10334660638127	1/4" ( 6.350 )	16.50	1/2" ( 12.70 )	44	25
RS SEAL 1/2" - 5/16" ( 7.9375 )	K10334661639127	5/16" ( 7.9375 )	16.50	1/2" ( 12.70 )	44	26

RS SEAL 3/4" - 1/8" ( 3.175 )	K10335658636127	1/8" ( 3.175 )	24	3/4"(19.05)	52.50	14
RS SEAL 3/4" - 3/16" ( 4.7625 )	K10335659637127	3/16" ( 4.7625 )	24	3/4"(19.05)	52.50	18
RS SEAL 3/4" - 1/4" ( 6.350 )	K10335660638127	1/4" ( 6.350 )	24	3/4"(19.05)	52.50	25
RS SEAL 3/4" - 5/16" ( 7.9375 )	K10335661639127	5/16" ( 7.9375 )	24	3/4"(19.05)	52.50	30
RS SEAL 3/4" - 7/16" ( 11.1125 )	K10251695939127	7/16" ( 11.1125 )	24	3/4" ( 19.05 )	52.5	33
RS SEAL 3/4" - 3/8" ( 9.525 )	K10335667640127	3/8" ( 9.525 )	24	3/4"(19.05)	52.50	33
RS SEAL 3/4" - 1/2" ( 12.700 )	K10335662641127	1/2" ( 12.700 )	24	3/4"(19.05)	52.50	34
RS SEAL 3/4" - 5/8" ( 15.875 )	K10335667640127	5/8" ( 15.875 )	24	3/4"(19.05)	52.50	40

RS SEAL 1.0" - 1/4" ( 6.350 )	K10362660638127	1/4" ( 6.350 )	29	1.0"(25.400)	56.5	25
RS SEAL 1.0" - 5/16" ( 7.9375 )	K10362661639127	5/16" ( 7.9375 )	29	1.0"(25.400)	56.5	25
RS SEAL 1.0" - 3/8" ( 9.525 )	K10362667640127	3/8" ( 9.525 )	29	1.0"(25.400)	56.5	33
RS SEAL 1.0" - 1/2" ( 12.700 )	K10362662641127	1/2" ( 12.700 )	29	1.0"(25.400)	56.5	34
RS SEAL 1.0" - 5/8" ( 15.875 )	K10362663642127	5/8" ( 15.875 )	29	1.0"(25.400)	56.5	40
RS SEAL 1.0" - 3/4" ( 19.050 )	K10362664643127	3/4" ( 19.050 )	29	1.0"(25.400)	56.5	40

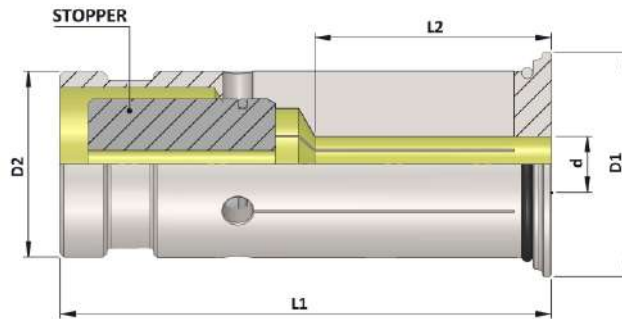
RS SEAL 1-1/4" - 1/4" ( 6.350 )	K10336660638127	1/4" ( 6.350 )	36	1-1/4" ( 31.750 )	63.50	25
RS SEAL 1-1/4" - 5/16"(7.9375)	K10336661639127	5/16" ( 7.9375 )	36	1-1/4" ( 31.750 )	63.50	25
RS SEAL 1-1/4" - 3/8" ( 9.525 )	K10336667640127	3/8" ( 9.525 )	36	1-1/4" ( 31.750 )	63.50	33
RS SEAL 1-1/4" - 1/2" ( 12.700 )	K10336662641127	1/2" ( 12.700 )	36	1-1/4" ( 31.750 )	63.50	34
RS SEAL 1-1/4" - 5/8" ( 15.875 )	K10336663642127	5/8" ( 15.875 )	36	1-1/4" ( 31.750 )	63.50	40
RS SEAL 1-1/4" - 3/4" ( 19.050 )	K10336664643127	3/4" ( 19.050 )	36	1-1/4" ( 31.750 )	63.50	40
RS SEAL 1-1/4" - 1" ( 25.400 )	K10336665644127	1" ( 25.400 )	36	1-1/4" ( 31.750 )	63.50	42

Note: All Dimensions are in mm

# Reduction Sleeve Seal (RS Seal) For Hydraulic Expansion Chuck

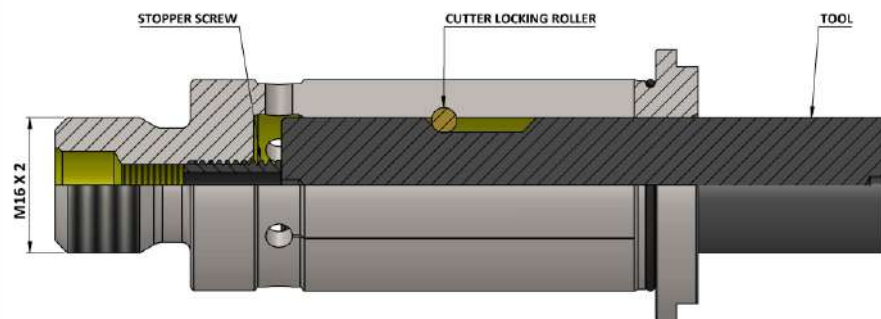


Stopper for adjustable stop/  
length adjustment



Reduction Sleeve Seal (RS Seal)					Concentricity within 0.005mm	
Item Name	Item Code	d	D1	D2	L1	Minimum Insertion Length (L2)
RS SEAL 3/4" X 3	K10251695940127	3	24	3/4"	52.5	14
RS SEAL 3/4" X 4	K10251695941127	4	24	3/4"	52.5	15
RS SEAL 3/4" X 5	K10251695942127	5	24	3/4"	52.5	18
RS SEAL 3/4" X 6	K10251695943127	6	24	3/4"	52.5	25
RS SEAL 3/4" X 8	K10251695944127	8	24	3/4"	52.5	30
RS SEAL 3/4" X 10	K10251695945127	10	24	3/4"	52.5	33
RS SEAL 3/4" X 12	K10251695946127	12	24	3/4"	52.5	34
RS SEAL 3/4" X 14	K10251695947127	14	24	3/4"	52.5	34
RS SEAL 3/4" X 16	K10251695948127	16	24	3/4"	52.5	40
RS SEAL 1-1/4" X 20	K10251695949127	20	36	1-1/4"	63.5	40
RS SEAL 1-1/4" X 25	K10251695950127	25	36	1-1/4"	63.5	42

## Reduction Sleeve Seal (RS Seal) Non Pull Out For Hydraulic Expansion Chuck



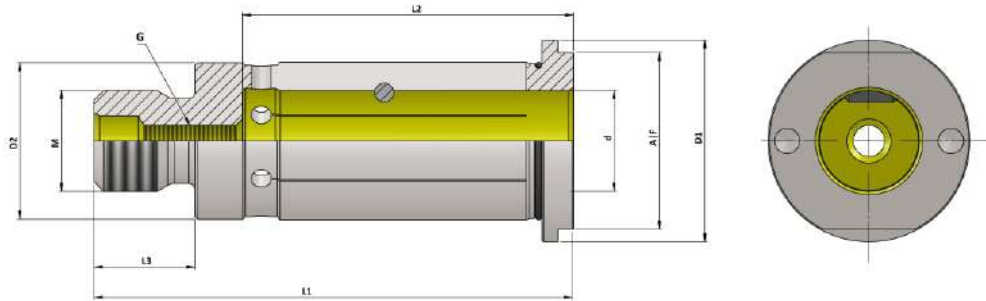
### Reduction Sleeve Seal (RS Seal) Non Pull Out

Tool Pull out is one of the major issue in milling chuck, Especially when machining high super alloy like titanium or Inconel and also when single tool is running for longer duration, i.e. during high cycle time jobs. So with the help of this non pull-out sleeve in a highly accurate hydraulic chuck with a maximum runout of 0.005 mm at 3D these problem of tool coming out can be completely eliminated, These non-pull-out sleeve is specially designed for a standard tool having a Weldon shank, these special non pull out sleeve comes with a very simple and mechanically designed. Which comprise of one roller and easy to use, So once you insert a tool having a Weldon shank just positioned the roller into the Weldon flat and with the help of the back stopper screw push the tool till it touches to the roller , Once the tool is locked it cannot be pulled out during machining. Also the threads of M16x2 on the Non Pull Out sleeves is used which is screwed in our KTA Hydraulic Chuck, so there is a dual non pull out system one for a tool and another for sleeve so it acts as a dual effect of non-pull out during machining and also these sleeves along with cutter is clamped by Hydraulic System of the holder which gives a very rigid clamping along with good run out of 0.005mm at 3D. Which improves and quality Life of the tools and even very good machining finish.

# Reduction Sleeve Seal (RS Seal) Non Pull Out For Hydraulic Expansion Chuck



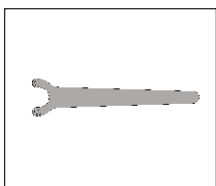
Stopper for adjustable stop/  
length adjustment



## Reduction Sleeve Seal (RS Seal) Non Pull Out

Item Name	Item Code	d	D1	D2	A/F	M	L1	L2	L3
RS SEAL 25 x 12 NON PULLOUT	K10251695869127	12	31.9	25	28	M16 x 2	76	51.00	16
RS SEAL 25 x 16 NON PULLOUT	K10251695868127	16	31.9	25	28	M16 x 2	76	52.50	16
RS SEAL 1" X 1/2" NON PULLOUT	K10251695911127	1/2"	31.9	1"	28	M16 x 2	76	51	16
RS SEAL 1" X 5/8" NON PULLOUT	K10251695912127	5/8"	31.9	1"	28	M16 x 2	76	52.5	16

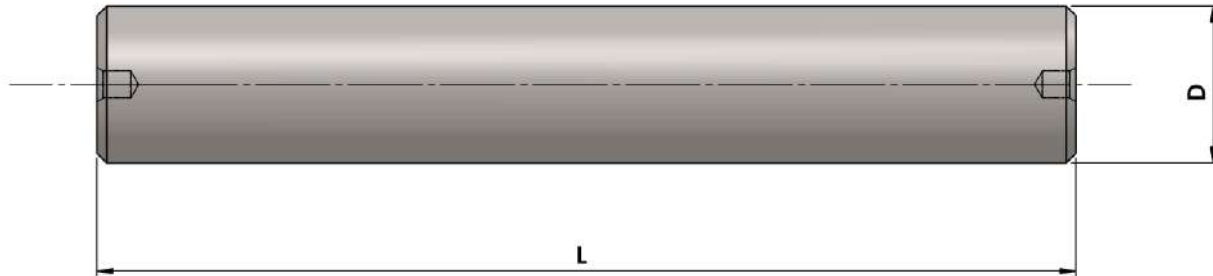
### Accessories:



Spanner HC  
Ref. Page No. 103

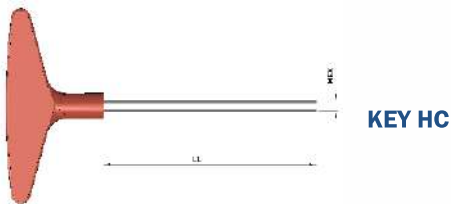
Note: All Dimensions are in mm

# Hydraulic Expansion Chuck Run Out Test Mandrells

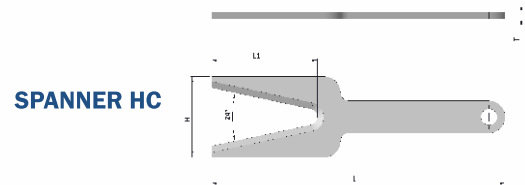


## Hydraulic Expansion Chuck Run Out Test Mandrells

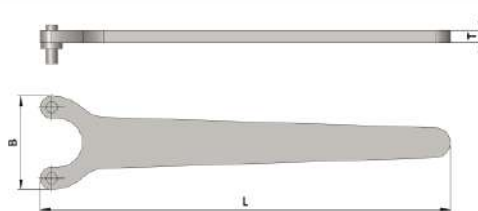
Item Name	Item Code	D	L
HC Test Mandrell DIA 3.00 MM	K10361925901127	3	50
HC Test Mandrell DIA 4.00 MM	K10361925902127	4	50
HC Test Mandrell DIA 5.00 MM	K10361925903127	5	50
HC Test Mandrell DIA 6.00 MM	K10361925884127	6	65
HC Test Mandrell DIA 8.00 MM	K10361925885127	8	65
HC Test Mandrell DIA 10.00 MM	K10361925886127	10	80
HC Test Mandrell DIA 12.00 MM	K10361925887127	12	100
HC Test Mandrell DIA 14.00 MM	K10361925888127	14	100
HC Test Mandrell DIA 16.00 MM	K10361925889127	16	105
HC Test Mandrell DIA 18.00 MM	K10361925890127	18	105
HC Test Mandrell DIA 20.00 MM	K10361925891127	20	105
HC Test Mandrell DIA 25.00 MM	K10361925892127	25	115
HC Test Mandrell DIA 32.00 MM	K10361925893127	32	115



### Accessories



Item Name	Item Code	L	L1	H	T	HEX
KEY HC 4mm	K10337641336127	-	110	-	-	4
KEY HC 5mm	K10337668645127	-	110	-	-	5
SPANNER HC	K10184641301127	182	65	50	-	-



Item Name	Item Code	T	B	L
SPANNER E25 A	K10184487301127	4	31	130

# Hydraulic Expansion Chuck KIT



Item Name	Item Code
BT30 HC12S 069 KIT	K10101629616279
BT30 HC20S 090 KIT	K10101168140279

BT40 HC12S 058 KIT	K10102629617279
BT40 HC20S 72.5 KIT	K10102168126279
BT40 HC25 090 KIT	K10102648140279

BT50 HC12S 069 KIT	K10103629616279
BT50 HC20S 083 KIT	K10103168618279
BT50 HC25 110 KIT	K10103648156279
BT50 HC32S 090 KIT	K10103272140279

KBT30 HC12S 069 KIT	K10313629616279
KBT30 HC20S 090 KIT	K10313168616279

KBT40 HC12S 058 KIT	K10314629617279
KBT40 HC20S 72.5 KIT	K10314168126279
KBT40 HC25 090 KIT	K10314648140279

KBT50 HC12S 069 KIT	K10315629616279
KBT50 HC20S 083 KIT	K10315168618279
KBT50 HC25 110 KIT	K10315648156279
KBT50 HC32S 090 KIT	K10315272140279

Item Name	Item Code
SK40 HC12S 050 KIT	K10104629111287
SK40 HC20S 64.5 KIT	K10104168122287
SK40 HC25 095 KIT	K10104648145279

SK50 HC12S 050 KIT	K10105629111287
SK50 HC20S 64.5 KIT	K10105168122287
SK50 HC25 100 KIT	K10105648148279
SK50 HC32S 81.0 KIT	K10105272372287

HSK-A 50 HC12S 085 KIT	K10306629135279
HSK-A 50 HC20S 090 KIT	K10306168140279

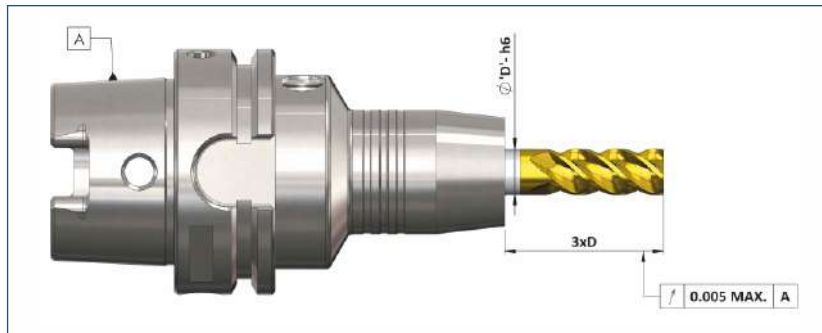
HSK-A 63 HC12S 080 KIT	K10316629131279
HSK-A 63 HC20S 080 KIT	K10316168131279
HSK-A 63 HC25 120 KIT	K10316648162279

HSK-A 100 HC12S 095 KIT	K10168629145279
HSK-A 100 HC20S 090 KIT	K10168168140279
HSK-A 100 HC25 110 KIT	K10316648156279
HSK-A 100 HC32S 110 KIT	K10168272156279

CAT40 HC1/2" S 64.0 KIT	K10203652278279
CAT40 HC3/4" S 64.0 KIT	K10203653278279
CAT40 HC5/8" S 64.0 KIT	K10203651278279
CAT40 HC1.0" S 090 KIT	K10203971140279

CAT50 HC3/4" S 64.5 KIT	K10204954122279
CAT50 HC1.0" S 081 KIT	K10204971132279
CAT50 HC1-1/4" S 081 KIT	K10204955132279

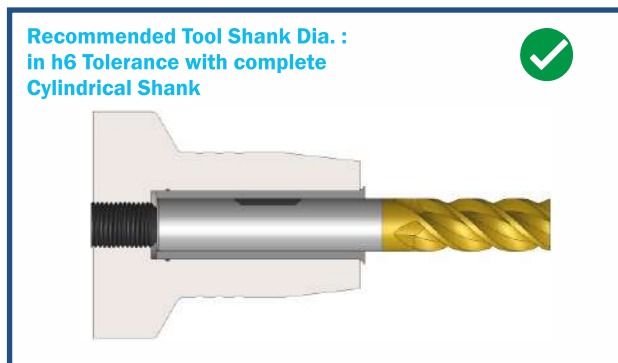
Tool Run out Inspection



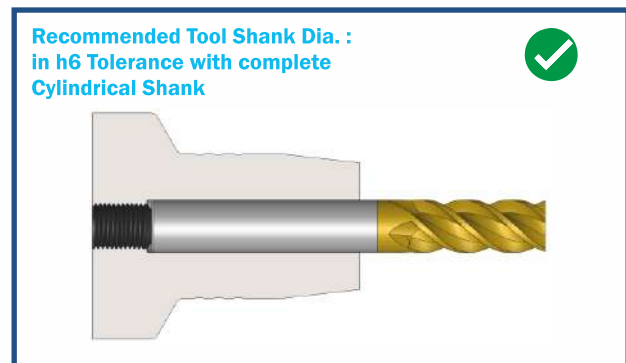
Controlled Run out Guaranteed 0.005 mm max on 3D WITH TOOL CLAMPING

Guideline for Tool Clamping

Correct way of Tool Clamping

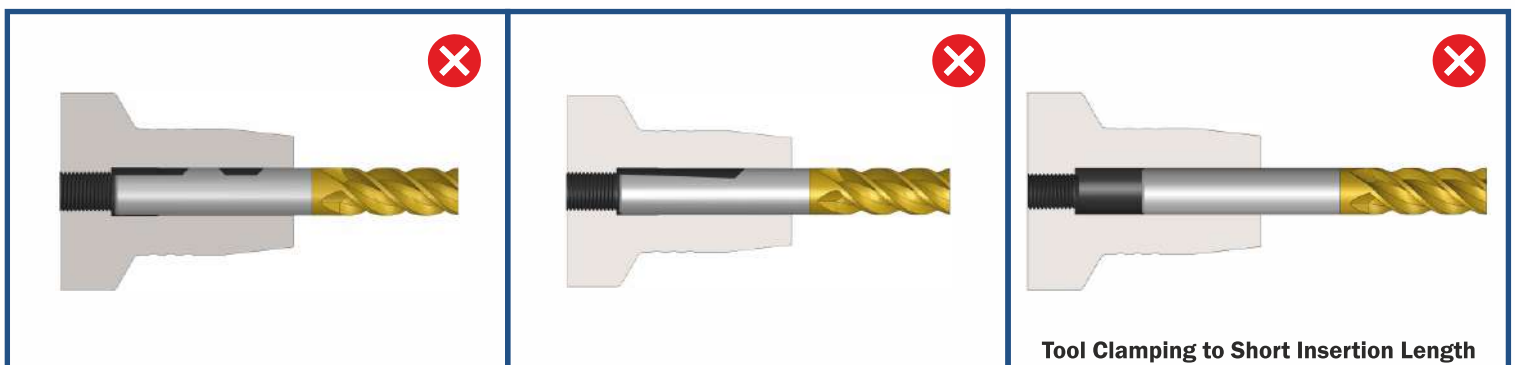


CLAMPING WITH RS SLEEVE



DIRECT CLAMPING

Incorrect way of Tool Clamping



Tool Clamping to Short Insertion Length

# Technical Information

## Recommended Torque Values (Tightening Torque/ Slipping Torque)



### Hydraulic Chuck (Heavy Duty) : Metric Series

Holder Size	Tool Shank Dia. & Tolerance	Minimum Clamping Depth (mm)	Maximum Safe Transferable Torque (Nm)
HC 12S	Ø 12.0 h6	41	110 Nm
HC 20S	Ø 20.0 h6	45	520 Nm
HC 32S	Ø 32.0 h6	54	900 Nm

### Hydraulic Chuck (HC) : Metric Series

Holder Size	Tool Shank Dia. & Tolerance	Minimum Clamping Depth (mm)	Maximum Safe Transferable Torque (Nm)
HC 06	Ø 6.0 h6	33	16 Nm
HC 08	Ø 8.0 h6	33	23 Nm
HC 10	Ø 10.0 h6	37	45 Nm
HC 12	Ø 12.0 h6	41	90 Nm
HC 14	Ø 14.0 h6	41	110 Nm
HC 16	Ø 16.0 h6	44	185 Nm
HC 18	Ø 18.0 h6	45	240 Nm
HC 20	Ø 20.0 h6	45	330 Nm
HC 25	Ø 25.0 h6	48	450 Nm
HC 32	Ø 32.0 h6	54	650 Nm

### Hydraulic Chuck (Heavy Duty) : Inches Series

Holder Size	Tool Shank Dia. & Tolerance	Minimum Clamping Depth (mm)	Maximum Safe Transferable Torque (Nm)
HC 1/2" HD	Ø 1/2" h6	38	110 Nm
HC 5/8" HD	Ø 5/8" h6	41	185 Nm
HC 3/4" HD	Ø 3/4" h6	43	520 Nm

### Hydraulic Chuck (HC) : Inches Series

Holder Size	Tool Shank Dia. & Tolerance	Minimum Clamping Depth (mm)	Maximum Safe Transferable Torque (Nm)
HC 1/4"	Ø 1/4" h6	33	16 Nm
HC 3/8"	Ø 3/8" h6	37	45 Nm
HC 1/2"	Ø 1/2" h6	41	90 Nm
HC 5/8"	Ø 5/8" h6	44	185 Nm
HC 3/4"	Ø 3/4" h6	45	330 Nm
HC 1.0"	Ø 1.0" h6	48	450 Nm
HC 1-1/4"	Ø 1-1/4" h6	54	650 Nm

Note: All Dimensions are in mm



# Technical Information

## Recommended Torque Values (Tightening Torque/ Slipping Torque)



### Hydraulic Expansion Chuck : Slim 3 Degree Series

Holder Size	Tool Shank Dia. & Tolerance	Minimum Clamping Depth (mm)	Maximum Safe Transferable Torque (Nm)
HC 03	∅ 3.0 h6	12	3
HC 04	∅ 4.0 h6	16	6
HC 05	∅ 5.0 h6	20	10
HC 06	∅ 6.0 h6	27	20
HC 08	∅ 8.0 h6	27	35
HC 10	∅ 10.0 h6	31	65
HC 12	∅ 12.0 h6	36	110
HC 14	∅ 14.0 h6	36	120
HC 16	∅ 16.0 h6	39	160
HC 18	∅ 18.0 h6	39	200
HC 20	∅ 20.0 h6	41	260

Note: All Dimensions are in mm

# Technical Information

## Hydraulic Reduction Sleeve (RS Seal)

### Minimum Clamping Depth



Item Name	Minimum Clamping Depth (mm)
RS SEAL 12 x 3	14
RS SEAL 12 x 4	15
RS SEAL 12 x 5	18
RS SEAL 12 x 6	25
RS SEAL 12 x 7	25
RS SEAL 12 x 8	26
RS SEAL 12 x 9	26
RS SEAL 12 x 10	26
RS SEAL 20 x 3	14
RS SEAL 20 x 4	15
RS SEAL 20 x 5	18
RS SEAL 20 x 6	25
RS SEAL 20 x 7	25
RS SEAL 20 x 8	30
RS SEAL 20 x 9	30
RS SEAL 20 x 10	33
RS SEAL 20 x 11	33
RS SEAL 20 x 12	34
RS SEAL 20 x 13	34
RS SEAL 20 x 14	34
RS SEAL 20 x 15	40
RS SEAL 20 x 16	40

Item Name	Minimum Clamping Depth (mm)
RS SEAL 25 x 6	25
RS SEAL 25 x 8	25
RS SEAL 25 x 10	33
RS SEAL 25 x 12	34
RS SEAL 25 x 14	34
RS SEAL 25 x 16	40
RS SEAL 25 x 18	40
RS SEAL 25 x 20	40
RS SEAL 32 x 6	25
RS SEAL 32 x 7	25
RS SEAL 32 x 8	25
RS SEAL 32 x 9	33
RS SEAL 32 x 10	33
RS SEAL 32 x 11	34
RS SEAL 32 x 12	34
RS SEAL 32 x 13	34
RS SEAL 32 x 14	34
RS SEAL 32 x 15	40
RS SEAL 32 x 16	40
RS SEAL 32 x 18	40
RS SEAL 32 x 20	40
RS SEAL 32 x 25	42

Item Name	Minimum Clamping Depth (mm)
RS SEAL 1/2" - 1/8" ( 3.175 )	14
RS SEAL 1/2" - 3/16" ( 4.7625 )	18
RS SEAL 1/2" - 1/4" ( 6.350 )	25
RS SEAL 1/2" - 5/16" ( 7.9375 )	26
RS SEAL 3/4" - 1/8" ( 3.175 )	14
RS SEAL 3/4" - 3/16" ( 4.7625 )	18
RS SEAL 3/4" - 1/4" ( 6.350 )	25
RS SEAL 3/4" - 5/16" ( 7.9375 )	30
RS SEAL 3/4" - 3/8" ( 9.525 )	33
RS SEAL 3/4" - 1/2" ( 12.700 )	34
RS SEAL 3/4" - 5/8" ( 15.875 )	40

Item Name	Minimum Clamping Depth (mm)
RS SEAL 1.0" - 1/4" ( 6.350 )	25
RS SEAL 1.0" - 5/16" ( 7.9375 )	25
RS SEAL 1.0" - 3/8" ( 9.525 )	33
RS SEAL 1.0" - 1/2" ( 12.700 )	34
RS SEAL 1.0" - 5/8" ( 15.875 )	40
RS SEAL 1.0" - 3/4" ( 19.050 )	40
RS SEAL 1-1/4" - 1/4" ( 6.350 )	25
RS SEAL 1-1/4" - 5/16" ( 7.9375 )	25
RS SEAL 1-1/4" - 3/8" ( 9.525 )	33
RS SEAL 1-1/4" - 1/2" ( 12.700 )	34
RS SEAL 1-1/4" - 5/8" ( 15.875 )	40
RS SEAL 1-1/4" - 3/4" ( 19.050 )	40
RS SEAL 1-1/4" - 1" ( 25.400 )	42

Note: All Dimensions are in mm





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