

Mounting Shanks HSK · Zancos de montaje HSK

ISO 12164-1



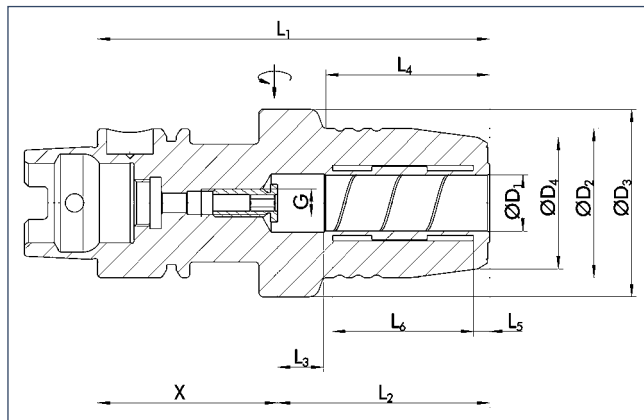
MOUNTING SHANKS HSK ZANCOS DE MONTAJE HSK

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HSK

TENDO SDF HSK-A 32

with axial length adjustment
for automatic tool change



TENDO SDF HSK-A 32

con ajuste de la longitud axial
para cambio automático de herramienta



< 0.003 mm



50000 min⁻¹



25000 min⁻¹



Technical data

D ₁ [inch]	ID		D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	G	M _{min} [Nm]	m [kg]
1/8"	≡														
3/16"	≡														
1/4"	0205890	•	26.0	40.0	22.0	43.0	80.0	37.0	10.0	29.0	3.6	20.5	M5	16.0	0.5
5/16"	≡														
3/8"	0205891	•	30.0	40.0	26.0	44.0	85.0	41.0	10.0	35.0	3.6	25.5	M8x1	45.0	0.5
1/2"	0205892	•	32.0	40.0	28.0	44.0	90.0	46.0	10.0	40.0	3.6	30.5	M10x1	90.0	0.5

Datos técnicos

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ☑ Design suitable for MQL operations available on request
- ☑ Bore holes for data carriers according to DIN 69873

- ℹ Suitable for Chiron-machines type FZ-08 with toolholder rack for 24 tools
Additional sizes and special designs available on request

- ≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
- Posible suministro de existencias

- ☑ Diseño apto para operaciones MQL disponible a pedido
- ☑ Orificios para portadores de datos conforme a DIN 69873

- ℹ Apto para máquinas Chiron tipo FZ-08 con bastidor portaherramientas para 24 herramientas
Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves

see chapter accessories

Casquillos intermedios

consulte el capítulo sobre accesorios



Sleeve remover

see chapter accessories

Extractor de casquillos

consulte el capítulo sobre accesorios



Further accessories

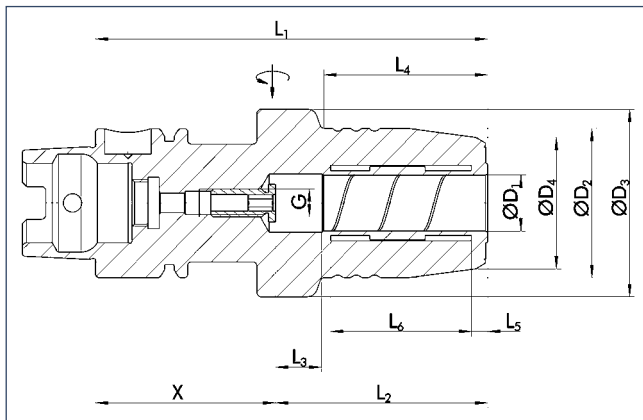
see chapter accessories

Accesorios adicionales

consulte el capítulo sobre accesorios

TENDO SDF HSK-A 32

with axial length adjustment
for automatic tool change



TENDO SDF HSK-A 32

con ajuste de la longitud axial
para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	G	M _{min} [Nm]	m [kg]
1.0	≡													
2.0	≡													
3.0	≡													
4.0	≡													
5.0	≡													
6.0	0205870	26.0	40.0	22.0	43.0	80.0	37.0	10.0	29.0	3.6	20.5	M5	16.0	0.5
8.0	0205871	28.0	40.0	24.0	43.0	80.0	37.0	10.0	29.0	3.6	20.5	M6	23.0	0.5
10.0	0205872	30.0	40.0	26.0	44.0	85.0	41.0	10.0	35.0	3.6	25.5	M6	45.0	0.5
12.0	0205873	32.0	40.0	28.0	44.0	90.0	46.0	10.0	40.0	3.6	30.5	M6	90.0	0.5

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

🔧 Design suitable for MQL operations available on request
🔧 Bore holes for data carriers according to DIN 69873

📄 Suitable for Chiron-machines type FZ-08 with toolholder rack for 24 tools
Additional sizes and special designs available on request

≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
• Posible suministro de existencias

🔧 Diseño apto para operaciones MQL disponible a pedido
🔧 Orificios para portadores de datos conforme a DIN 69873

📄 Apto para máquinas Chiron tipo FZ-08 con bastidor portaherramientas para 24 herramientas
Tamaños adicionales y diseños especiales disponibles a pedido

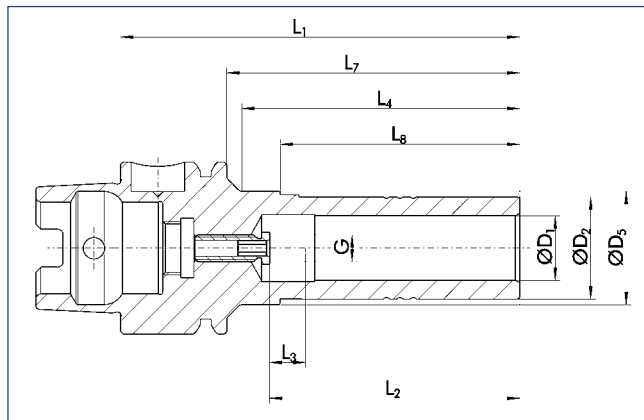
Intermediate sleeves
see chapter accessories
Casquillos intermedios
consulte el capítulo sobre accesorios

Sleeve remover
see chapter accessories
Extractor de casquillos
consulte el capítulo sobre accesorios

Further accessories
see chapter accessories
Accesorios adicionales
consulte el capítulo sobre accesorios

TRIBOS SPF-S HSK-A 32

with axial length adjustment
for automatic tool change



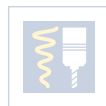
< 0.003 mm



50000 min⁻¹



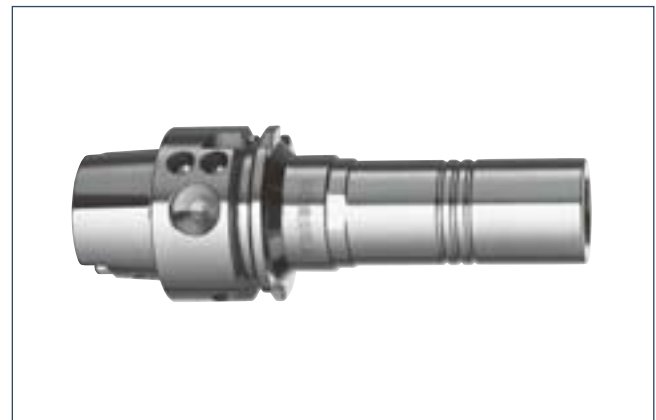
25000 min⁻¹



G2.5

TRIBOS SPF-S HSK-A 32

con ajuste de la longitud axial
para cambio automático de herramienta



< 0.003 mm



50000 min⁻¹



25000 min⁻¹



G2.5

Technical data

D ₁ [mm]	ID		D ₂ [mm]	D ₅ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
6.0	0205608	•	10.0	13.0	65.0	37.0	10.0	38.0	45.0	35.0	M5	5.0	0.188	0201972
8.0	0205609	•	13.0	15.0	65.0	37.0	10.0	39.0	45.0	35.0	M5	12.0	0.198	0201973
10.0	0205610	•	16.0	18.0	70.0	42.0	10.0	46.0	50.0	40.0	M5	20.0	0.216	0201974
12.0	0205611	•	19.0	21.0	75.0	47.0	10.0	52.0	55.0	45.0	M5	30.0	0.24	0201975

Datos técnicos

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Optimal for light machine cutting – consider radial forces
- Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Óptimo para corte con máquinas ligeras; considera fuerzas radiales
- Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions

see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensiones



Clamping devices

see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts

see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios



Length measuring devices

see chapter accessories

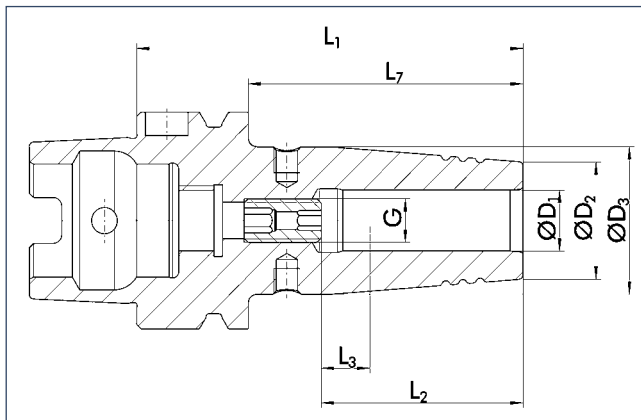
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

CELSIO SSF HSK-A 32

with axial length adjustment

CELSIO SSF HSK-A 32

con ajuste de la longitud axial



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
3.0	0210104	10.0	16.0	60.0	9.0		40.0		8.0	0.1
4.0	0210105	10.0	16.0	60.0	12.0		40.0		10.0	0.1
5.0	0210106	10.0	16.0	60.0	15.0		40.0		12.0	0.1
6.0	0208490	21.0	27.0	70.0	36.0	10.0	50.0	M5	20.0	0.3
8.0	0208491	21.0	27.0	70.0	36.0	10.0	50.0	M6	52.0	0.3
10.0	0208492	24.0	32.0	80.0	42.0	10.0	60.0	M8x1	70.0	0.4

• Can be supplied from stock

• Posible suministro de existencias

Design suitable for MQL operations available on request

Diseño apto para operaciones MQL disponible a pedido

Bore holes for data carriers according to DIN 69893

Orificios para portadores de datos conforme a DIN 69893

Additional sizes and special designs available on request

Tamaños adicionales y diseños especiales disponibles a pedido



Extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensione



Shrinking unit
see chapter accessories

Unidad de compresión
consulte el capítulo sobre accesorios

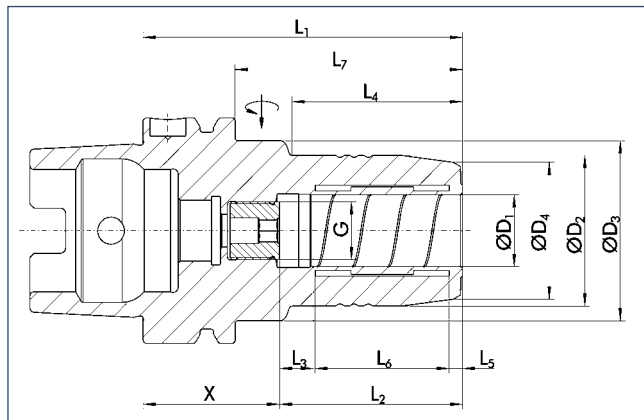


Further accessories
see chapter accessories

Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF HSK-A 40

with axial length adjustment
for automatic tool change



TENDO SDF HSK-A 40

con ajuste de la longitud axial
para cambio automático de herramienta



<math>< 0.003 \text{ mm}</math>



50000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
1.0	≡															
2.0	≡															
3.0	≡															
4.0	≡															
5.0	≡															
6.0	0204241	•	26.0	33.5	22.0	33.0	70.0	37.0	10.0	36.0	3.6	20.5	50.0	M5	16.0	0.4
8.0	0204242	•	28.0	33.5	24.0	33.0	70.0	37.0	10.0	36.0	3.6	20.5	50.0	M6	23.0	0.5
10.0	0204243	•	30.0	33.5	26.0	34.0	75.0	41.0	10.0	42.0	3.6	25.5	55.0	M6	45.0	0.5
12.0	0204244	•	32.0	33.5	28.0	34.0	80.0	46.0	10.0	48.0	3.6	30.5	60.0	M6	90.0	0.5

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

🔧 Design suitable for MQL operations available on request
🔧 Bore holes for data carriers according to DIN 69873

📄 Additional sizes and special designs available on request

≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
• Posible suministro de existencias

🔧 Diseño apto para operaciones MQL disponible a pedido
🔧 Orificios para portadores de datos conforme a DIN 69873

📄 Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves

see chapter accessories

Casquillos intermedios

consulte el capítulo sobre accesorios



Sleeve remover

see chapter accessories

Extractor de casquillos

consulte el capítulo sobre accesorios



Further accessories

see chapter accessories

Accesorios adicionales

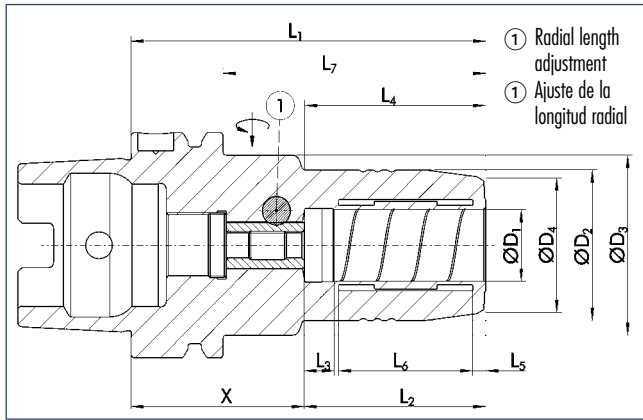
consulte el capítulo sobre accesorios

TENDO SDF-KSR HSK-A 40

with radial length adjustment
for automatic tool change

TENDO SDF-KSR HSK-A 40

con ajuste de la longitud radial
para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	M _{min} [Nm]	m [kg]
1.0	≡													
2.0	≡													
3.0	≡													
4.0	≡													
5.0	≡													
6.0	0205391	26.0	33.5	22.0	43.0	80.0	37.0	10.0	36.0	3.6	20.5	60.0	16.0	0.5
8.0	0205392	28.0	33.5	24.0	43.0	80.0	37.0	10.0	36.0	3.6	20.5	60.0	23.0	0.5
10.0	0205393	30.0	33.5	26.0	44.0	85.0	41.0	10.0	43.0	3.6	25.5	65.0	45.0	0.5
12.0	0205394	32.0	33.5	28.0	44.0	90.0	46.0	10.0	48.0	3.6	30.5	70.0	90.0	0.6

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
• Posible suministro de existencias

🔧 Design suitable for MQL operations available on request
🔧 Bore holes for data carriers according to DIN 69873

🔧 Diseño apto para operaciones MQL disponible a pedido
🔧 Orificios para portadores de datos conforme a DIN 69873

📄 Additional sizes and special designs available on request

📄 Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves
see chapter accessories

Casquillos intermedios
consulte el capítulo sobre accesorios



Sleeve remover
see chapter accessories

Extractor de casquillos
consulte el capítulo sobre accesorios

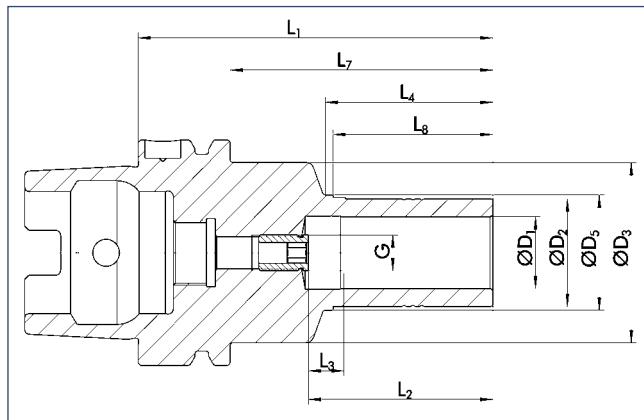


Further accessories
see chapter accessories

Accesorios adicionales
consulte el capítulo sobre accesorios

TRIBOS SPF-S HSK-A 40

with axial length adjustment
for automatic tool change



TRIBOS SPF-S HSK-A 40

con ajuste de la longitud axial
para cambio automático de herramienta



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₅ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
6.0	0205101	10.0	32.0	13.0	70.0	37.0	10.0	37.0	50.0	35.0	M5	5.0	0.35	0201972
8.0	0205102	13.0	32.0	15.0	70.0	37.0	10.0	37.0	50.0	35.0	M6	12.0	0.38	0201973
10.0	0205103	16.0	32.0	18.0	80.0	42.0	10.0	42.0	60.0	40.0	M8x1	20.0	0.41	0201974
12.0	0205104	19.0	32.0	21.0	85.0	47.0	10.0	47.0	65.0	45.0	M8x1	30.0	0.43	0201975
14.0	0205109	22.0	32.0	24.0	85.0	47.0	10.0	47.0	65.0	45.0	M10x1	50.0	0.44	0201976
16.0	0205105	25.0	32.0	27.0	85.0	48.0	10.0	47.0	65.0	45.0	M10x1	70.0	0.46	0201977
20.0	0205106	30.0	32.0		90.0	52.0	10.0		70.0	45.0	M10x1	150.0	0.5	0201981

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore holes for data carriers according to DIN 69873

- Optimal for light machine cutting – consider radial forces
Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificios para portadores de datos conforme a DIN 69873

- Óptimo para corte con máquinas ligeras; considera fuerzas radiales
Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensione



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios



Length measuring devices
see chapter accessories

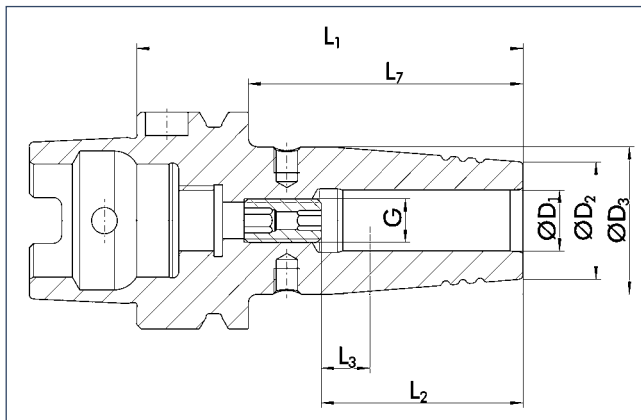
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

CELSIO SSF HSK-A 40

with axial length adjustment

CELSIO SSF HSK-A 40

con ajuste de la longitud axial



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
3.0	0210107	10.0	16.0	60.0	9.0		40.0		8.0	0.2
4.0	0210108	10.0	16.0	60.0	12.0		40.0		10.0	0.2
5.0	0210109	10.0	16.0	60.0	15.0		40.0		12.0	0.2
6.0	0208100	21.0	27.0	80.0	36.0	10.0	60.0	M5	20.0	0.4
8.0	0208101	21.0	27.0	80.0	36.0	10.0	60.0	M6	52.0	0.4
10.0	0208102	24.0	32.0	80.0	42.0	10.0	60.0	M8x1	70.0	0.4
12.0	0208103	24.0	32.0	90.0	47.0	10.0	70.0	M10x1	150.0	0.5
14.0	0208104	27.0	34.0	90.0	47.0	10.0	70.0	M10x1	180.0	0.5
16.0	0208105	27.0	34.0	90.0	50.0	10.0	70.0	M12x1	300.0	0.5

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Design suitable for MQL operations available on request
- Bore holes for data carriers according to DIN 69893

- Diseño apto para operaciones MQL disponible a pedido
- Orificios para portadores de datos conforme a DIN 69893

Additional sizes and special designs available on request

Tamaños adicionales y diseños especiales disponibles a pedido



Extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensione



Shrinking unit
see chapter accessories

Unidad de compresión
consulte el capítulo sobre accesorios

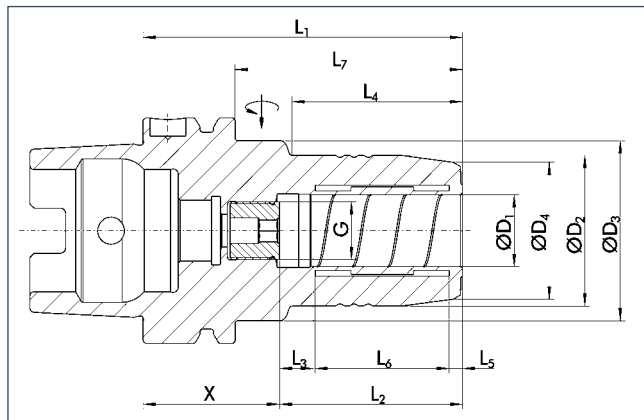


Further accessories
see chapter accessories

Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF HSK-A 50

with axial length adjustment
for automatic tool change



TENDO SDF HSK-A 50

con ajuste de la longitud axial
para cambio automático de herramienta



<math>< 0.003 \text{ mm}</math>



50000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
1.0	≡														
2.0	≡														
3.0	≡														
4.0	≡														
5.0	≡														
6.0	0204041	26.0	40.0	22.0	33.0	70.0	37.0	10.0	28.0	3.6	20.5	44.0	M5	16.0	0.7
8.0	0204042	28.0	40.0	24.0	33.0	70.0	37.0	10.0	28.0	3.6	20.5	44.0	M6	23.0	0.7
10.0	0204043	30.0	40.0	26.0	34.0	75.0	41.0	10.0	34.0	3.6	25.5	49.0	M8x1	45.0	0.7
12.0	0204044	•	32.0	40.0	28.0	39.0	85.0	46.0	44.0	3.6	30.5	59.0	M10x1	90.0	0.8
14.0	0204049		34.0	40.0	30.0	39.0	85.0	46.0	44.0	3.6	30.5	59.0	M10x1	110.0	0.8
16.0	0204045		38.0	53.0	34.0	41.0	90.0	49.0	30.0	3.6	35.0	64.0	M12x1	185.0	1.1
18.0	0204040		40.0	57.0	36.0	41.0	90.0	49.0	30.0	3.6	35.0	64.0	M12x1	240.0	1.0
20.0	0204046	•	42.0	60.0	38.0	39.0	90.0	51.0	29.0	3.7	37.8	64.0	M16x1	330.0	1.1

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ☑ Design suitable for MQL operations available on request
- ☑ Bore holes for data carriers according to DIN 69873

- ℹ Additional sizes and special designs available on request

- ≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
- Posible suministro de existencias

- ☑ Diseño apto para operaciones MQL disponible a pedido
- ☑ Orificios para portadores de datos conforme a DIN 69873

- ℹ Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves

see chapter accessories

Casquillos intermedios

consulte el capítulo sobre accesorios



Sleeve remover

see chapter accessories

Extractor de casquillos

consulte el capítulo sobre accesorios



Further accessories

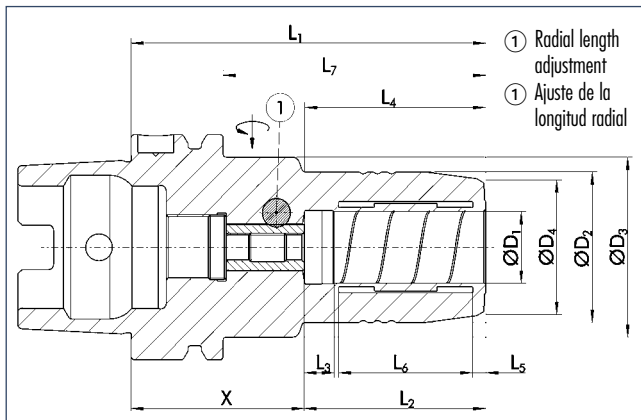
see chapter accessories

Accesorios adicionales

consulte el capítulo sobre accesorios

TENDO SDF-KSR HSK-A 50

with radial length adjustment
for automatic tool change



TENDO SDF-KSR HSK-A 50

con ajuste de la longitud radial
para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	M _{min} [Nm]	m [kg]
1.0	≡													
2.0	≡													
3.0	≡													
4.0	≡													
5.0	≡													
6.0	0208401	26.0	40.0	22.0	42.8	80.0	37.0	10.0	35.0	3.6	20.5	54.0	16.0	0.8
8.0	0208402	28.0	40.0	24.0	42.8	80.0	37.0	10.0	36.0	3.6	20.5	54.0	23.0	0.8
10.0	0208403	30.0	40.0	26.0	44.0	85.0	41.0	10.0	38.0	3.6	25.5	59.0	45.0	0.8
12.0	0208404	32.0	40.0	28.0	44.0	90.0	46.0	10.0	40.0	3.6	30.5	64.0	90.0	0.8
14.0	0208409	34.0	40.0	30.0	44.0	90.0	46.0	10.0	46.0	3.6	30.5	64.0	110.0	0.8
16.0	0208405	38.0	53.0	34.0	46.0	95.0	49.0	10.0	36.5	3.6	35.0	69.0	185.0	1.2
18.0	0208400	40.0	57.0	36.0	46.0	95.0	49.0	10.0	36.5	3.6	35.0	69.0	240.0	1.2
20.0	0208406	42.0	60.0	38.0	49.0	100.0	51.0	10.0	39.0	3.7	37.8	74.0	330.0	1.2

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

🔧 Design suitable for MQL operations available on request
🔧 Bore holes for data carriers according to DIN 69873

📄 Additional sizes and special designs available on request

≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
• Posible suministro de existencias

🔧 Diseño apto para operaciones MQL disponible a pedido
🔧 Orificios para portadores de datos conforme a DIN 69873

📄 Tamaños adicionales y diseños especiales disponibles a pedido

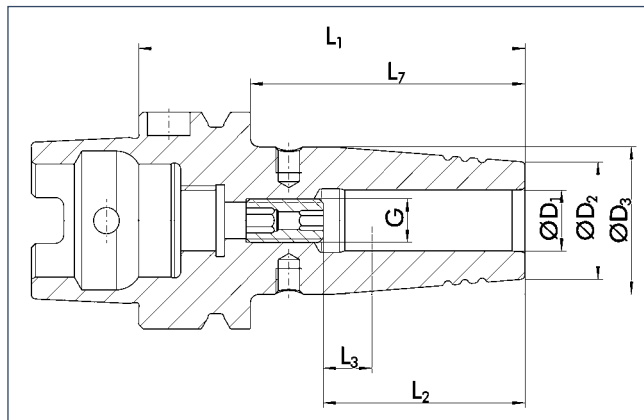
Intermediate sleeves
see chapter accessories
Casquillos intermedios
consulte el capítulo sobre accesorios

Sleeve remover
see chapter accessories
Extractor de casquillos
consulte el capítulo sobre accesorios

Further accessories
see chapter accessories
Accesorios adicionales
consulte el capítulo sobre accesorios

CELSIO SSF HSK-A 50

with axial length adjustment



CELSIO SSF HSK-A 50

con ajuste de la longitud axial



< 0.003 mm



18000 min⁻¹



25000 min⁻¹



G2.5



HPC
HSC



HPC
HSC



MQL



CD

Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
3.0	0210110	10.0	16.0	60.0	9.0		34.0		8.0	0.4
4.0	0210111	10.0	16.0	60.0	12.0		34.0		10.0	0.4
5.0	0210112	10.0	16.0	60.0	15.0		34.0		12.0	0.4
6.0	0208110	21.0	27.0	80.0	36.0	10.0	54.0	M5	20.0	0.7
8.0	0208111	21.0	27.0	80.0	36.0	10.0	54.0	M6	52.0	0.7
10.0	0208112	24.0	32.0	85.0	42.0	10.0	59.0	M8x1	70.0	0.8
12.0	0208113	24.0	32.0	90.0	47.0	10.0	64.0	M10x1	150.0	0.8
14.0	0208114	27.0	34.0	90.0	47.0	10.0	64.0	M10x1	180.0	0.9
16.0	0208115	27.0	34.0	95.0	50.0	10.0	69.0	M12x1	300.0	0.9
18.0	0208116	33.0	42.0	95.0	50.0	10.0	69.0	M12x1	370.0	0.9
20.0	0208117	33.0	42.0	100.0	52.0	10.0	74.0	M16x1	420.0	1.1

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore holes for data carriers according to DIN 69893

- Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificios para portadores de datos conforme a DIN 69893

- Tamaños adicionales y diseños especiales disponibles a pedido



Extensions

see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extension



Shrinking unit

see chapter accessories

Unidad de compresión
consulte el capítulo sobre accesorios



Further accessories

see chapter accessories

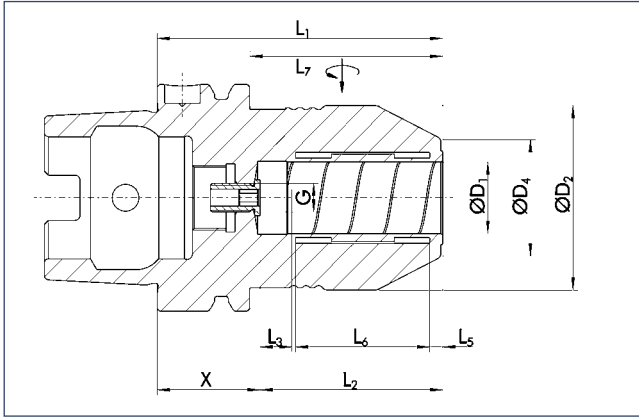
Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF-E HSK-A 63

short, rigid design with axial length adjustment for automatic tool change

TENDO SDF-E HSK-A 63

corto, diseño rígido con ajuste de la longitud axial para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [inch]	ID	D ₂ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
1/8"	≡												
3/16"	≡												
1/4"	≡												
5/16"	≡												
3/8"	≡												
7/16"	≡												
1/2"	≡												
9/16"	≡												
5/8"	≡												
3/4"	0205596	51.5	33.0	29.0	80.0	51.0	10.0	5.0	36.5	54.0	M8x1	320.0	1.3

≡ Additional sizes can be clamped with intermediate sleeves
 • Can be supplied from stock

≡ Para sujetar con casquillos intermedios
 • Posible suministro de existencias

🔧 Design suitable for MQL operations available on request
 ⚙️ Bore holes for data carriers according to DIN 69873

🔧 Diseño apto para operaciones MQL disponible a pedido
 ⚙️ Orificios para portadores de datos conforme a DIN 69873

ℹ️ Additional sizes and special designs available on request

ℹ️ Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves
see chapter accessories

Casquillos intermedios
consulte el capítulo sobre accesorios



Sleeve remover
see chapter accessories

Extractor de casquillos
consulte el capítulo sobre accesorios

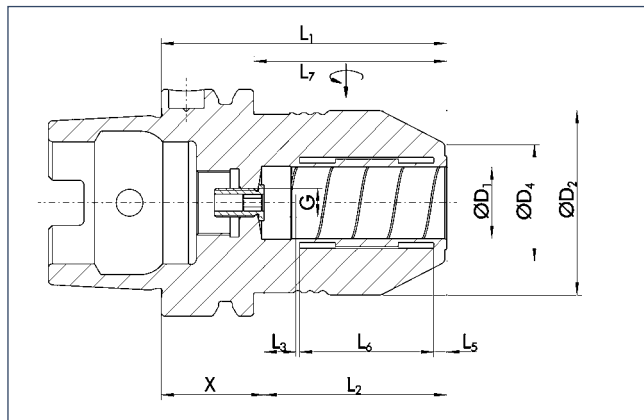


Further accessories
see chapter accessories

Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF-E HSK-A 63

short, rigid design with axial length adjustment
for automatic tool change



TENDO SDF-E HSK-A 63

corto, diseño rígido con ajuste de la longitud axial
para cambio automático de herramienta



< 0.003 mm



50000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁	ID	D ₂	D ₄	X	L ₁	L ₂	L ₃	L ₅	L ₆	L ₇	G	M _{min}	m
[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[Nm]	[kg]
6.0	≡												
8.0	≡												
10.0	≡												
12.0	≡												
14.0	≡												
16.0	≡												
20.0	0205486	51.5	33.0	29.0	80.0	51.0	10.0	5.0	36.5	54.0	M8x1	360.0	1.3

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore holes for data carriers according to DIN 69873

- 📄 Additional sizes and special designs available on request

- ≡ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificios para portadores de datos conforme a DIN 69873

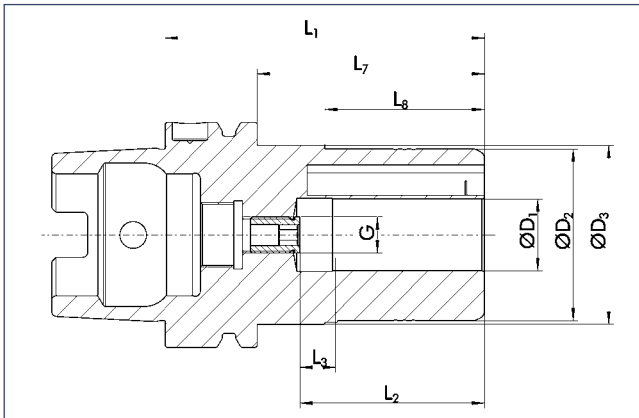
- 📄 Tamaños adicionales y diseños especiales disponibles a pedido

TRIBOS SPF-R HSK-A 63

with axial length adjustment
for automatic tool change

TRIBOS SPF-R HSK-A 63

con ajuste de la longitud axial
para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
6.0	0233331	•	25.0	50.0	70.0	37.0	10.0	44.0	35.0	M5	8.0	0.9	0201978
8.0	0233332		28.0	50.0	70.0	37.0	10.0	44.0	35.0	M6	14.0	0.9	0201980
10.0	0233333		35.0	50.0	80.0	42.0	10.0	54.0	40.0	M8x1	24.0	0.9	0201982
12.0	0233334	•	42.0	50.0	85.0	47.0	10.0	59.0	45.0	M8x1	40.0	0.9	0201983
14.0	0233339		48.0	50.0	85.0	47.0	10.0	59.0	45.0	M10x1	80.0	0.9	0201984
16.0	0233335		48.0	50.0	90.0	48.0	10.0	64.0	45.0	M10x1	120.0	1.25	0201984
18.0	0233330		48.0	50.0	90.0	48.0	10.0	64.0	45.0	M10x1	180.0	1.25	0201984
20.0	0233336	•	48.0	50.0	90.0	52.0	10.0	64.0	45.0	M10x1	240.0	1.25	0201984
25.0	0233337		60.0	63.5	105.0	57.0	10.0	79.0	45.0	M10x1	270.0	1.38	0201921
32.0	0233338		67.0	70.5	110.0	61.0	10.0	84.0	45.0	M10x1	350.0	1.52	0201922

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore holes for data carriers according to DIN 69893

Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificios para portadores de datos conforme a DIN 69893

Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extension



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios

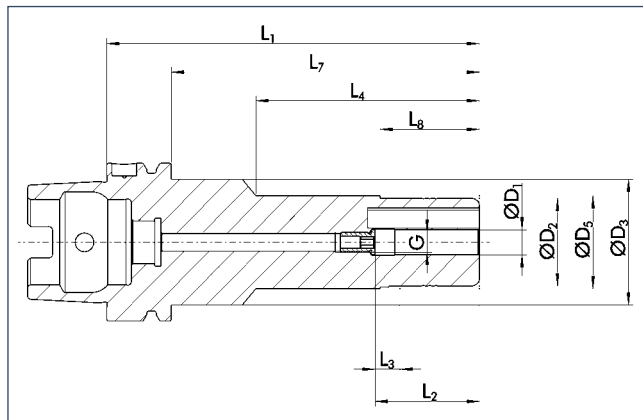


Length measuring devices
see chapter accessories

Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-R HSK-A 63 L₁=150

with axial length adjustment
for automatic tool change



TRIBOS SPF-R HSK-A 63 L₁=150

con ajuste de la longitud axial
para cambio automático de herramienta



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₅ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
6.0	0253331	25.0	50.0	30.0	150.0	37.0	10.0	85.0	124.0	35.0	M5	8.0	1.4	0201978
8.0	0253332	28.0	50.0	30.0	150.0	37.0	10.0	85.0	124.0	35.0	M6	14.0	1.4	0201980
10.0	0253333	35.0	50.0	37.0	150.0	42.0	10.0	90.0	124.0	40.0	M8x1	24.0	1.6	0201982
12.0	0253334	42.0	50.0	44.0	150.0	47.0	10.0	95.0	124.0	45.0	M8x1	40.0	1.8	0201983
14.0	0253339	48.0	50.0		150.0	47.0	10.0		124.0	45.0	M10x1	80.0	1.8	0201984
16.0	0253335	48.0	50.0		150.0	48.0	10.0		124.0	45.0	M10x1	120.0	2.1	0201984
18.0	0253330	48.0	50.0		150.0	48.0	10.0		124.0	45.0	M10x1	180.0	2.1	0201984
20.0	0253336	48.0	50.0		150.0	52.0	10.0		124.0	45.0	M10x1	240.0	2.0	0201984
25.0	0253337	60.0	62.0		150.0	57.0	10.0		124.0	45.0	M10x1	270.0	2.6	0201921
32.0	0253338	67.0	69.0		150.0	61.0	10.0		124.0	45.0	M10x1	350.0	3.0	0201922

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore holes for data carriers according to DIN 69893

- Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificios para portadores de datos conforme a DIN 69893

- Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extension



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios



Length measuring devices
see chapter accessories

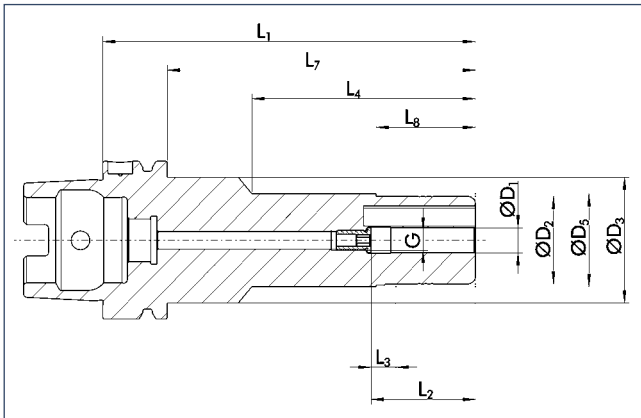
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-R HSK-A 63 L₁=200

with axial length adjustment
for automatic tool change

TRIBOS SPF-R HSK-A 63 L₁=200

con ajuste de la longitud axial
para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₅ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
6.0	0273331	25.0	50.0	30.0	200.0	37.0	10.0	135.0	174.0	35.0	M5	8.0	1.7	0201978
8.0	0273332	28.0	50.0	30.0	200.0	37.0	10.0	135.0	174.0	35.0	M6	14.0	1.7	0201980
10.0	0273333	35.0	50.0	37.0	200.0	42.0	10.0	140.0	174.0	40.0	M8x1	24.0	1.9	0201982
12.0	0273334	42.0	50.0	44.0	200.0	47.0	10.0	145.0	174.0	45.0	M8x1	40.0	2.1	0201983
14.0	0273339	48.0	50.0		200.0	47.0	10.0		174.0	45.0	M10x1	80.0	2.1	0201984
16.0	0273335	48.0	50.0		200.0	48.0	10.0		174.0	45.0	M10x1	120.0	2.4	0201984
18.0	0273330	48.0	50.0		200.0	48.0	10.0		174.0	45.0	M10x1	180.0	2.4	0201984
20.0	0273336	48.0	50.0		200.0	52.0	10.0		174.0	45.0	M10x1	240.0	2.3	0201984
25.0	0273337	60.0	62.0		200.0	57.0	10.0		174.0	45.0	M10x1	270.0	2.9	0201921
32.0	0273338	67.0	69.0		200.0	61.0	10.0		174.0	45.0	M10x1	350.0	3.3	0201922

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Design suitable for MQL operations available on request
- Bore holes for data carriers according to DIN 69893

- Diseño apto para operaciones MQL disponible a pedido
- Orificios para portadores de datos conforme a DIN 69893

Additional sizes and special designs available on request

Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extension



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios

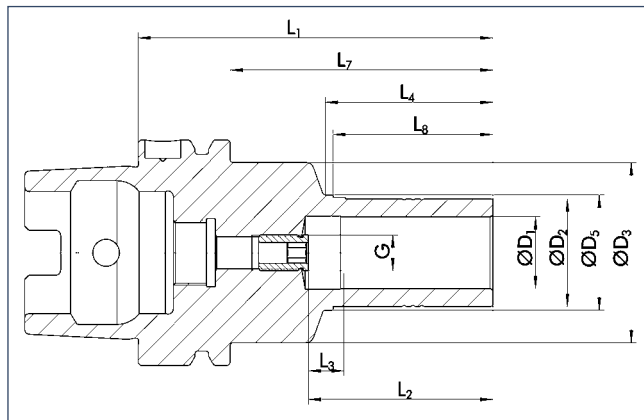


Length measuring devices
see chapter accessories

Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-S HSK-A 63

with axial length adjustment
for automatic tool change



TRIBOS SPF-S HSK-A 63

con ajuste de la longitud axial
para cambio automático de herramienta



Technical data

Datos técnicos

D ₁ [inch]	ID		D ₂ [mm]	D ₃ [mm]	D ₅ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
1/8"	≡														
3/16"	≡														
1/4"	0203370	•	10.3	50.0	13.1	80.0	37.0	10.0	37.0	54.0	35.0	M5	6.0	0.7	0201988
5/16"	0203371	•	13.0	50.0	15.1	80.0	37.0	10.0	37.0	54.0	35.0	M6	12.0	0.73	0201973
3/8"	0203372	•	15.0	50.0	17.1	85.0	42.0	10.0	42.0	59.0	40.0	M6	20.0	0.75	0201989
7/16"	≡														
1/2"	0203373	•	20.0	50.0	22.1	90.0	47.0	10.0	47.0	64.0	45.0	M8x1	40.0	0.8	0201991
9/16"	≡														
5/8"	0203374	•	25.0	50.0	27.1	95.0	48.0	10.0	47.0	69.0	45.0	M10x1	70.0	0.85	0201977
3/4"	0203375	•	29.0	50.0	31.1	95.0	52.0	10.0	47.0	69.0	45.0	M10x1	120.0	1.05	0201992

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ☑ Design suitable for MQL operations available on request
- ☑ Bore holes for data carriers according to DIN 69893

- ℹ Optimal for light machine cutting – consider radial forces
Additional sizes and special designs available on request

- ≡ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- ☑ Diseño apto para operaciones MQL disponible a pedido
- ☑ Orificios para portadores de datos conforme a DIN 69893

- ℹ Óptimo para corte con máquinas ligeras; considera fuerzas radiales
Tamaños adicionales y diseños especiales disponibles a pedido

Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extension

Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios

Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios

Length measuring devices
see chapter accessories

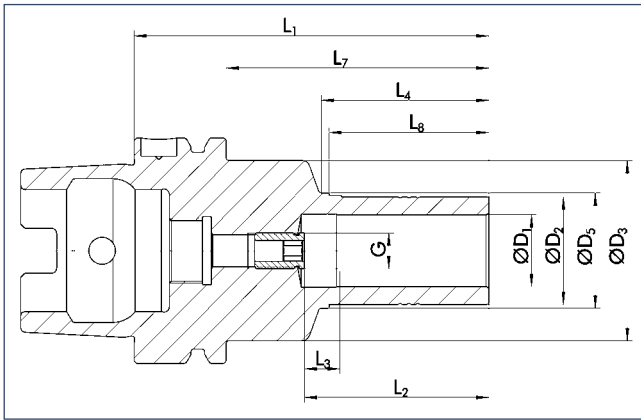
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-S HSK-A 63

with axial length adjustment
for automatic tool change

TRIBOS SPF-S HSK-A 63

con ajuste de la longitud axial
para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	D ₅ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
6.0	0203351	•	10.0	50.0	13.1	80.0	37.0	10.0	37.0	54.0	35.0	M5	5.0	0.7	0201972
8.0	0203352	•	13.0	50.0	15.1	80.0	37.0	10.0	37.0	54.0	35.0	M6	12.0	0.7	0201973
10.0	0203353	•	16.0	50.0	18.1	85.0	42.0	10.0	42.0	59.0	40.0	M8x1	20.0	0.75	0201974
12.0	0203354	•	19.0	50.0	21.1	90.0	47.0	10.0	47.0	64.0	45.0	M8x1	30.0	0.8	0201975
14.0	0203359		22.0	50.0	24.1	90.0	47.0	10.0	47.0	64.0	45.0	M10x1	50.0	0.85	0201976
16.0	0203355	•	25.0	50.0	27.1	95.0	48.0	10.0	47.0	69.0	45.0	M10x1	70.0	0.85	0201977
18.0	0203350	•	28.0	50.0	30.1	95.0	48.0	10.0	47.0	69.0	45.0	M10x1	100.0	1.05	0201979
20.0	0203356	•	30.0	50.0	32.1	100.0	52.0	10.0	47.0	74.0	45.0	M10x1	150.0	1.05	0201981
25.0	0203357		36.0	50.0	38.1	95.0	57.0	10.0	52.0	69.0	45.0	M10x1	200.0	1.1	0201987
32.0	0203358		45.0	50.0	47.1	100.0	61.0	10.0	57.0	74.0	45.0	M10x1	280.0	1.15	0201998

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Design suitable for MQL operations available on request
- Bore holes for data carriers according to DIN 69893

- Diseño apto para operaciones MQL disponible a pedido
- Orificios para portadores de datos conforme a DIN 69893

- Optimal for light machine cutting – consider radial forces
- Additional sizes and special designs available on request

- Óptimo para corte con máquinas ligeras; considera fuerzas radiales
- Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extension



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios



Length measuring devices
see chapter accessories

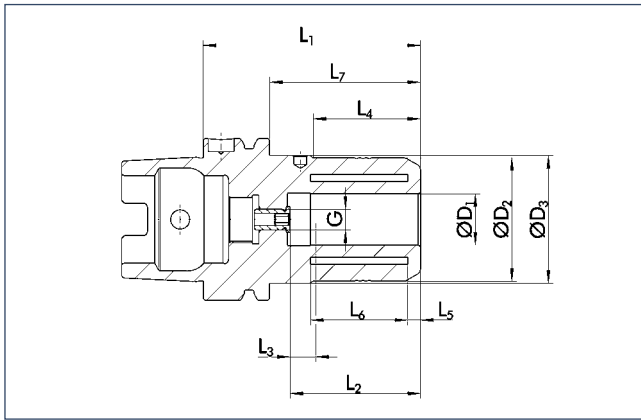
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

SINO-R HSK-A 63

with axial length adjustment

SINO-R HSK-A 63

con ajuste de la longitud axial



≤ 0.005 mm



40000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
3.0	≡												
4.0	≡												
5.0	≡												
6.0	≡												
8.0	≡												
10.0	≡												
12.0	0209533	39.0	44.45	80.0	46.0	10.0	34.0	5.0	32.0	54.0	M8x1	130.0	1.15
14.0	≡												
16.0	≡												
20.0	0209537	48.5	49.72	85.0	51.0	10.0	42.0	5.0	37.0	59.0	M8x1	500.0	1.35
32.0	0209539	•	65.0	69.85	116.0	61.0	47.0	6.0	46.0	90.0	M10x1	850.0	1.4

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

Bore holes for data carriers according to DIN 69893

Optimal for heavy duty milling
Additional sizes and special designs available on request

- ≡ Para sujetar con casquillos intermedios
- Posible suministro de existencias

Orificios para portadores de datos conforme a DIN 69893

Óptimo para fresado de trabajo pesado
Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves
see chapter accessories

Casquillos intermedios
consulte el capítulo sobre accesorios



Spanner wrenches
see chapter accessories

Llaves de apriete
consulte el capítulo sobre accesorios



"C"-spanners
see chapter accessories

Llaves de gancho
consulte el capítulo sobre accesorios



Sleeve remover
see chapter accessories

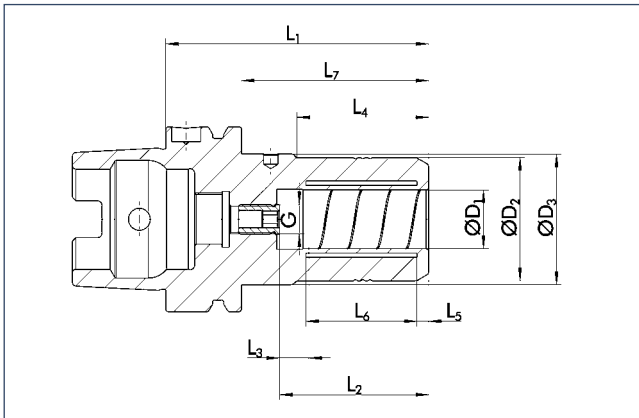
Extractor de casquillos
consulte el capítulo sobre accesorios

SINO-T HSK-A 63

with axial length adjustment

SINO-T HSK-A 63

con ajuste de la longitud axial



HSK



Technical data

Datos técnicos

D ₁ [inch]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
1/8"	≡													
3/16"	≡													
1/4"	≡													
5/16"	≡													
3/8"	≡													
7/16"	≡													
1/2"	0210654	•	30.0	44.45	80.0	46.0	10.0	32.0	4.0	30.0	54.0	M8x1	95.0	1.0
9/16"	≡													
5/8"	≡													
3/4"	0210656	•	42.0	44.45	90.0	51.0	10.0	45.0	4.0	38.5	64.0	M10x1	295.0	1.2

≡ Additional sizes can be clamped with intermediate sleeves
 • Can be supplied from stock

GHF Bore holes for data carriers according to DIN 69893

i Bore holes on form B are sealed with set screws
 Additional sizes and special designs available on request

≡ Para sujetar con casquillos intermedios
 • Posible suministro de existencias

GHF Orificios para portadores de datos conforme a DIN 69893

i Orificios en forma B sellados con tornillos de fijación
 Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves
see chapter accessories

Casquillos intermedios
consulte el capítulo sobre accesorios



Spanner wrenches
see chapter accessories

Llaves de apriete
consulte el capítulo sobre accesorios



"C"-spanners
see chapter accessories

Llaves de gancho
consulte el capítulo sobre accesorios



Sleeve remover
see chapter accessories

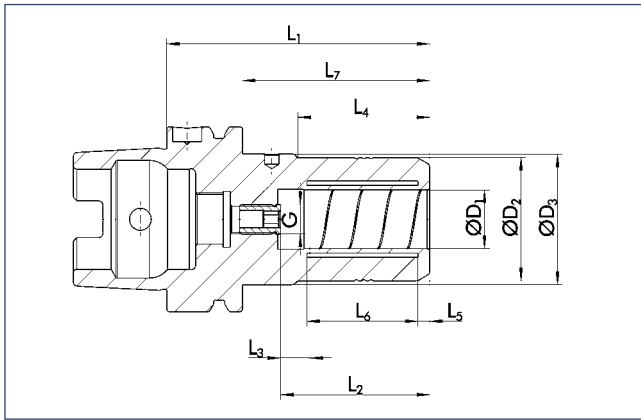
Extractor de casquillos
consulte el capítulo sobre accesorios

SINO-T HSK-A 63

with axial length adjustment

SINO-T HSK-A 63

con ajuste de la longitud axial



≤ 0.005 mm



40000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
3.0	≡													
4.0	≡													
5.0	≡													
6.0	≡													
8.0	≡													
10.0	≡													
12.0	0218864	•	30.0	44.45	80.0	46.0	10.0	32.0	4.0	31.0	54.0	M8x1	95.0	1.0
14.0	≡													
16.0	≡													
20.0	0218866	•	42.0	44.45	90.0	51.0	10.0	45.0	4.0	38.0	64.0	M10x1	295.0	1.2

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

Bore holes for data carriers according to DIN 69893

Bore holes on form B are sealed with set screws
Additional sizes and special designs available on request

- ≡ Para sujetar con casquillos intermedios
- Posible suministro de existencias

Orificios para portadores de datos conforme a DIN 69893

Orificios en forma B sellados con tornillos de fijación
Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves
see chapter accessories

Casquillos intermedios
consulte el capítulo sobre accesorios



Spanner wrenches
see chapter accessories

Llaves de apriete
consulte el capítulo sobre accesorios



"C"-spanners
see chapter accessories

Llaves de gancho
consulte el capítulo sobre accesorios



Sleeve remover
see chapter accessories

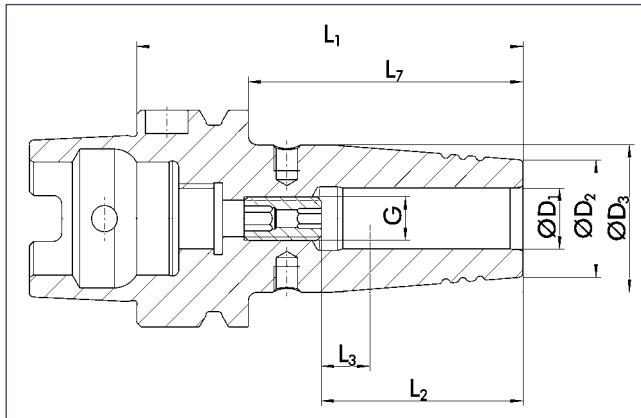
Extractor de casquillos
consulte el capítulo sobre accesorios

CELSIO SSF HSK-A 63

with axial length adjustment

CELSIO SSF HSK-A 63

con ajuste de la longitud axial



HSK



Technical data

Datos técnicos

D ₁ [inch]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
1/8"	0210030	•	10.0	20.0	80.0	9.0		54.0		8.0	0.7
3/16"	0210031	•	10.0	20.0	80.0	15.0		54.0		12.0	0.7
1/4"	0210032	•	21.0	27.0	80.0	36.0	10.0	54.0	M5	20.0	1.0
1/4"	0210041	•	21.0	27.0	130.0	36.0	10.0	104.0	M5	20.0	1.0
1/4"	0210050	•	21.0	27.0	160.0	36.0	10.0	134.0	M5	20.0	1.4
5/16"	0210033	•	21.0	27.0	80.0	36.0	10.0	54.0	M6	52.0	0.9
5/16"	0210042	•	21.0	27.0	130.0	36.0	10.0	104.0	M6	52.0	1.0
5/16"	0210051	•	21.0	27.0	160.0	36.0	10.0	134.0	M6	52.0	1.3
3/8"	0210034	•	24.0	32.0	85.0	42.0	10.0	59.0	M8x1	70.0	0.9
3/8"	0210043	•	24.0	32.0	130.0	42.0	10.0	104.0	M8x1	70.0	1.2
3/8"	0210052	•	24.0	32.0	160.0	42.0	10.0	134.0	M8x1	70.0	1.5
7/16"	0210035	•	24.0	32.0	85.0	42.0	10.0	59.0	M8x1	150.0	1.0
7/16"	0210044	•	24.0	32.0	130.0	42.0	10.0	104.0	M8x1	150.0	1.1
7/16"	0210053	•	24.0	32.0	160.0	42.0	10.0	134.0	M8x1	150.0	1.5

- ☰ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ☰ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore for data carrier as an option

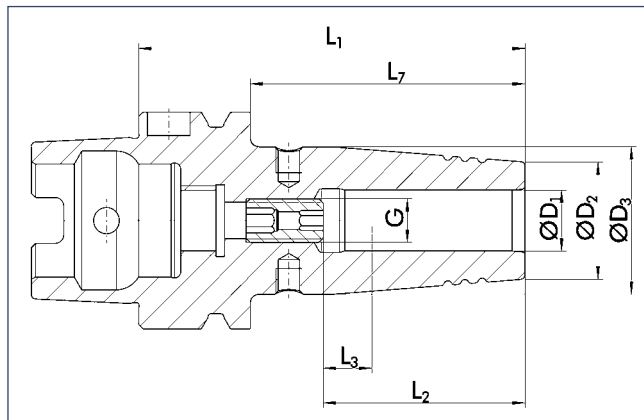
- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificio para portador de datos como opción

📄 Additional sizes and special designs available on request

📄 Tamaños adicionales y diseños especiales disponibles a pedido

CELSIO SSF HSK-A 63

with axial length adjustment



CELSIO SSF HSK-A 63

con ajuste de la longitud axial



< 0.003 mm



18000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [inch]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
1/2"	0210036	•	24.0	32.0	90.0	47.0	10.0	64.0	M10x1	150.0	1.0
1/2"	0210045	•	24.0	32.0	130.0	47.0	10.0	104.0	M10x1	150.0	1.1
1/2"	0210054	•	24.0	32.0	160.0	47.0	10.0	134.0	M10x1	150.0	1.5
5/8"	0210037	•	27.0	34.0	95.0	50.0	10.0	69.0	M12x1	300.0	0.9
5/8"	0210046	•	27.0	34.0	130.0	50.0	10.0	104.0	M12x1	300.0	1.2
5/8"	0210055	•	27.0	34.0	160.0	50.0	10.0	134.0	M12x1	300.0	1.7
3/4"	0210038	•	33.0	42.0	100.0	52.0	10.0	74.0	M16x1	420.0	1.1
3/4"	0210047	•	33.0	42.0	130.0	52.0	10.0	104.0	M16x1	420.0	1.4
3/4"	0210056	•	33.0	42.0	160.0	52.0	10.0	134.0	M16x1	420.0	1.8
1"	0210039	•	44.0	53.0	115.0	58.0	10.0	89.0	M16x1	550.0	1.3
1"	0210048	•	44.0	53.0	130.0	58.0	10.0	104.0	M16x1	550.0	2.0
1"	0210057	•	44.0	53.0	160.0	58.0	10.0	134.0	M16x1	550.0	1.9
1 1/4"	0210040	•	44.0	53.0	120.0	58.0	10.0	94.0	M16x1	600.0	1.6
1 1/4"	0210049	•	44.0	53.0	160.0	58.0	10.0	134.0	M16x1	600.0	1.8

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

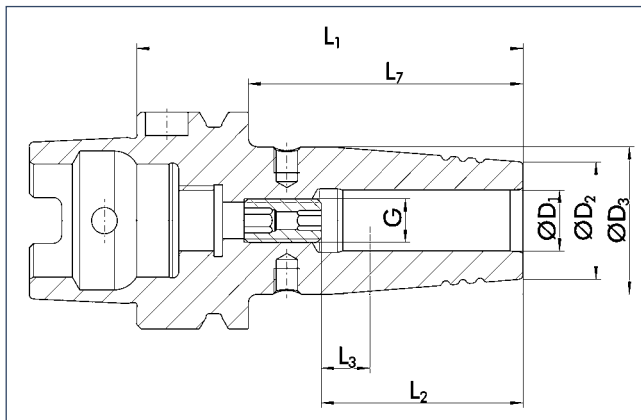
Tamaños adicionales y diseños especiales disponibles a pedido

CELSIO SSF HSK-A 63

with axial length adjustment

CELSIO SSF HSK-A 63

con ajuste de la longitud axial



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
3.0	0210113		10.0	20.0	80.0	9.0		54.0		8.0	0.7
4.0	0210114		10.0	20.0	80.0	12.0		54.0		10.0	0.7
5.0	0210115	•	10.0	20.0	80.0	15.0		54.0		12.0	0.7
6.0	0208120	•	21.0	27.0	80.0	36.0	10.0	54.0	M5	20.0	1.0
6.0	0208130	•	21.0	27.0	130.0	36.0	10.0	104.0	M5	20.0	1.0
6.0	0208140		21.0	27.0	160.0	36.0	10.0	134.0	M5	20.0	1.4
6.0	0208150		21.0	27.0	200.0	36.0	10.0	174.0	M5	20.0	1.6
8.0	0208121	•	21.0	27.0	80.0	36.0	10.0	54.0	M6	52.0	0.9
8.0	0208131	•	21.0	27.0	130.0	36.0	10.0	104.0	M6	52.0	1.0
8.0	0208141		21.0	27.0	160.0	36.0	10.0	134.0	M6	52.0	1.3
8.0	0208151		21.0	27.0	200.0	36.0	10.0	174.0	M6	52.0	1.6
10.0	0208122	•	24.0	32.0	85.0	42.0	10.0	59.0	M8x1	70.0	0.9
10.0	0208132	•	24.0	32.0	130.0	42.0	10.0	104.0	M8x1	70.0	1.2
10.0	0208142	•	24.0	32.0	160.0	42.0	10.0	134.0	M8x1	70.0	1.5
10.0	0208152		24.0	32.0	200.0	42.0	10.0	174.0	M8x1	70.0	1.7

- ☰ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ☰ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore for data carrier as an option

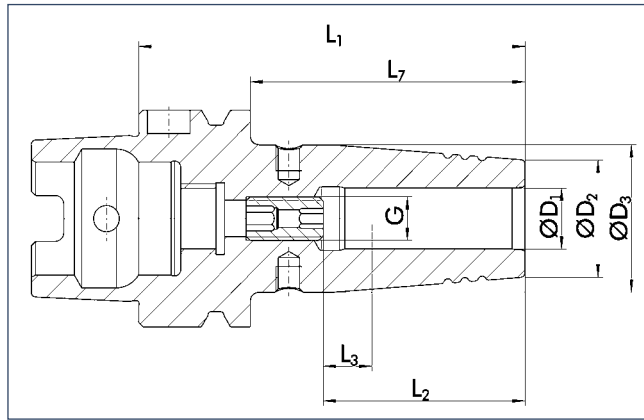
- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificio para portador de datos como opción

- 📄 Additional sizes and special designs available on request

- 📄 Tamaños adicionales y diseños especiales disponibles a pedido

CELSIO SSF HSK-A 63

with axial length adjustment



CELSIO SSF HSK-A 63

con ajuste de la longitud axial



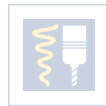
< 0.003 mm



18000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
12.0	0208123	•	24.0	32.0	90.0	47.0	10.0	64.0	M10x1	150.0	1.0
12.0	0208133	•	24.0	32.0	130.0	47.0	10.0	104.0	M10x1	150.0	1.1
12.0	0208143		24.0	32.0	160.0	47.0	10.0	134.0	M10x1	150.0	1.5
12.0	0208153		24.0	32.0	200.0	47.0	10.0	174.0	M10x1	150.0	1.7
14.0	0208124	•	27.0	34.0	90.0	47.0	10.0	64.0	M10x1	180.0	1.0
14.0	0208134	•	27.0	34.0	130.0	47.0	10.0	104.0	M10x1	180.0	1.2
14.0	0208144		27.0	34.0	160.0	47.0	10.0	134.0	M10x1	180.0	1.6
14.0	0208154		27.0	34.0	200.0	47.0	10.0	174.0	M10x1	180.0	1.8
16.0	0208125	•	27.0	34.0	95.0	50.0	10.0	69.0	M12x1	300.0	0.9
16.0	0208135	•	27.0	34.0	130.0	50.0	10.0	104.0	M12x1	300.0	1.2
16.0	0208145		27.0	34.0	160.0	50.0	10.0	134.0	M12x1	300.0	1.7
16.0	0208155		27.0	34.0	200.0	50.0	10.0	174.0	M12x1	300.0	1.9
18.0	0208126	•	33.0	42.0	95.0	50.0	10.0	69.0	M12x1	370.0	1.1
18.0	0208136	•	33.0	42.0	130.0	50.0	10.0	104.0	M12x1	370.0	1.5
18.0	0208146	•	33.0	42.0	160.0	50.0	10.0	134.0	M12x1	370.0	1.8
18.0	0208156		33.0	42.0	200.0	50.0	10.0	174.0	M12x1	370.0	1.9

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

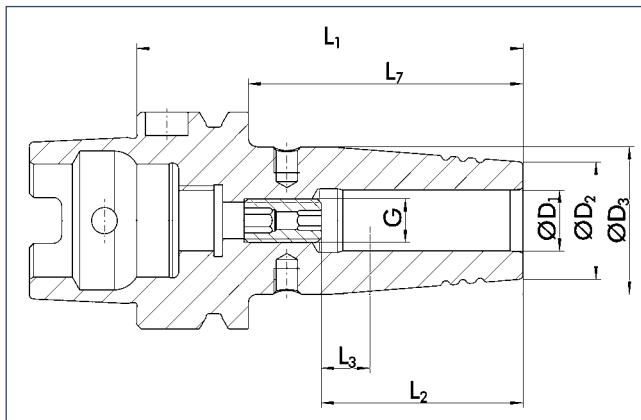
- Tamaños adicionales y diseños especiales disponibles a pedido

CELSIO SSF HSK-A 63

with axial length adjustment

CELSIO SSF HSK-A 63

con ajuste de la longitud axial



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
20.0	0208127	•	33.0	42.0	100.0	52.0	10.0	74.0	M16x1	420.0	1.1
20.0	0208137	•	33.0	42.0	130.0	52.0	10.0	104.0	M16x1	420.0	1.4
20.0	0208147	•	33.0	42.0	160.0	52.0	10.0	134.0	M16x1	420.0	1.8
20.0	0208157		33.0	42.0	200.0	52.0	10.0	174.0	M16x1	420.0	2.0
25.0	0208128	•	44.0	53.0	115.0	58.0	10.0	89.0	M16x1	550.0	1.3
25.0	0208138	•	44.0	53.0	130.0	58.0	10.0	104.0	M16x1	550.0	2.0
25.0	0208148	•	44.0	53.0	160.0	58.0	10.0	134.0	M16x1	550.0	1.9
25.0	0208158		44.0	53.0	200.0	58.0	10.0	174.0	M16x1	550.0	2.2
32.0	0208159	•	44.0	53.0	120.0	58.0	10.0	94.0	M16x1	600.0	1.6
32.0	0208149		44.0	53.0	160.0	58.0	10.0	134.0	M16x1	600.0	1.8
32.0	0208129		44.0	53.0	200.0	58.0	10.0	174.0	M16x1	600.0	2.1

- ☰ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ☰ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore holes for data carriers according to DIN 69893

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificios para portadores de datos conforme a DIN 69893

- 📄 Reinforced version also available
Additional sizes and special designs available on request

- 📄 Versión reforzada también disponible
Tamaños adicionales y diseños especiales disponibles a pedido



Extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extension



Shrinking unit
see chapter accessories

Unidad de compresión
consulte el capítulo sobre accesorios

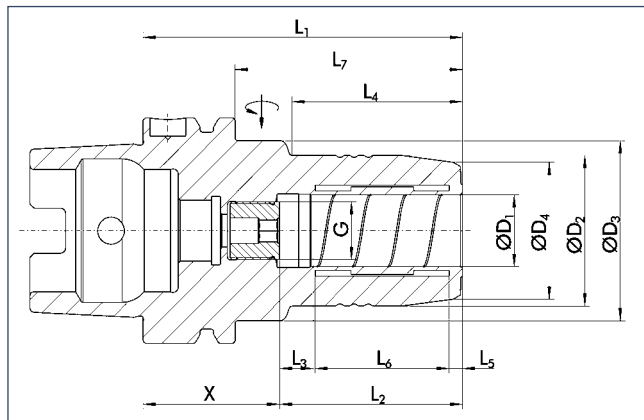


Further accessories
see chapter accessories

Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF HSK-A 80

with axial length adjustment
for automatic tool change



TENDO SDF HSK-A 80

con ajuste de la longitud axial
para cambio automático de herramienta



< 0.003 mm



50000 min⁻¹



25000 min⁻¹



✓



✓



✓



✓



✓

Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
1.0	≡														
2.0	≡														
3.0	≡														
4.0	≡														
5.0	≡														
6.0	0204491	26.0	50.0	22.0	33.0	70.0	37.0	10.0	24.0	3.6	20.5	44.0	M5	16.0	1.5
8.0	0204492	28.0	50.0	24.0	33.0	70.0	37.0	10.0	24.0	3.6	20.5	44.0	M6	23.0	1.5
10.0	0204493	30.0	50.0	26.0	39.0	80.0	41.0	10.0	35.0	3.6	25.5	54.0	M8x1	45.0	1.5
12.0	0204494	32.0	50.0	28.0	39.0	85.0	46.0	10.0	40.0	3.6	30.5	59.0	M10x1	90.0	1.6
14.0	0204499	34.0	50.0	30.0	39.0	85.0	46.0	10.0	40.0	3.6	30.5	59.0	M10x1	110.0	1.6
16.0	0204495	38.0	50.0	34.0	46.0	95.0	49.0	10.0	51.0	3.6	35.0	69.0	M12x1	185.0	1.7
18.0	0204490	40.0	50.0	36.0	46.0	95.0	49.0	10.0	51.0	3.6	35.0	69.0	M12x1	240.0	1.8
20.0	0204496	42.0	50.0	38.0	44.0	95.0	51.0	10.0	52.0	3.7	37.8	69.0	M16x1	330.0	1.8
25.0	0204497	57.0	63.0	53.0	53.0	110.0	57.0	10.0	65.0	4.2	42.3	84.0	M16x1	400.0	2.6
32.0	0204498	64.0	75.0	60.0	64.0	125.0	61.0	10.0	63.0	4.2	47.7	99.0	M16x1	650.0	3.3

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore holes for data carriers according to DIN 69873

- 📄 Additional sizes and special designs available on request

- ≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
- Posible suministro de existencias

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificios para portadores de datos conforme a DIN 69873

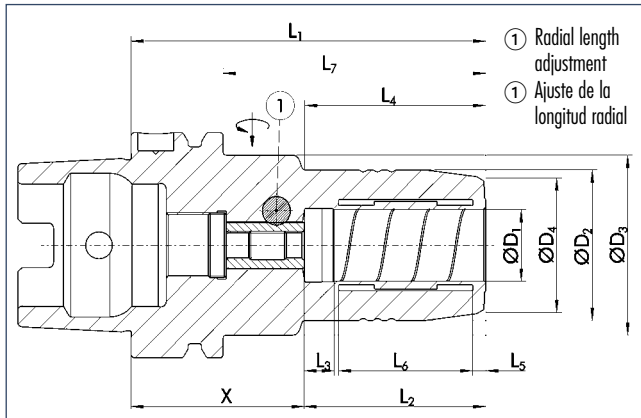
- 📄 Tamaños adicionales y diseños especiales disponibles a pedido

TENDO SDF-KSR HSK-A 80

with radial length adjustment
for automatic tool change

TENDO SDF-KSR HSK-A 80

con ajuste de la longitud radial
para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	M _{min} [Nm]	m [kg]
1.0	≡													
2.0	≡													
3.0	≡													
4.0	≡													
5.0	≡													
6.0	0205981	26.0	50.0	22.0	48.0	85.0	37.0	10.0	35.5	3.6	20.5	59.0	16.0	1.6
8.0	0205982	28.0	50.0	24.0	48.0	85.0	37.0	10.0	36.0	3.6	20.5	59.0	23.0	1.6
10.0	0205983	30.0	50.0	26.0	49.0	90.0	41.0	10.0	38.0	3.6	25.5	64.0	45.0	1.7
12.0	0205984	32.0	50.0	28.0	49.0	95.0	46.0	10.0	40.0	3.6	30.5	69.0	90.0	1.8
14.0	0205989	34.0	50.0	30.0	49.0	95.0	46.0	10.0	41.0	3.6	30.5	69.0	110.0	1.8
16.0	0205985	38.0	50.0	34.0	51.0	100.0	49.0	10.0	46.0	3.6	35.0	74.0	185.0	1.8
18.0	0205980	40.0	50.0	36.0	51.0	100.0	49.0	10.0	46.0	3.6	35.0	74.0	240.0	1.9
20.0	0205986	42.0	50.0	38.0	54.0	105.0	51.0	10.0	51.0	3.7	38.0	79.0	330.0	1.9
25.0	0205987	57.0	63.0	53.0	58.0	115.0	57.0	10.0	58.5	4.2	42.3	89.0	400.0	2.7
32.0	0205988	64.0	75.0	60.0	64.0	125.0	61.0	10.0	58.5	4.2	47.7	99.0	650.0	3.3

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
• Posible suministro de existencias

🔧 Design suitable for MQL operations available on request
🔧 Bore holes for data carriers according to DIN 69873

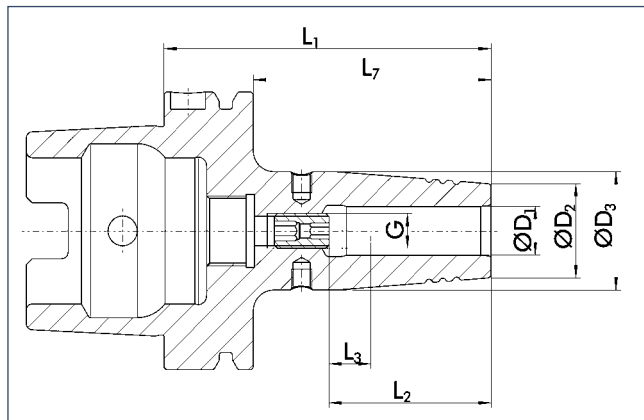
🔧 Diseño apto para operaciones MQL disponible a pedido
🔧 Orificios para portadores de datos conforme a DIN 69873

ℹ Additional sizes and special designs available on request

ℹ Tamaños adicionales y diseños especiales disponibles a pedido

CELSIO SSF HSK-A 80

with axial length adjustment



CELSIO SSF HSK-A 80

con ajuste de la longitud axial



<math>< 0.003 \text{ mm}</math>



12000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
6.0	0208160	•	21.0	27.0	85.0	36.0	10.0	59.0	M5	20.0	1.2
6.0	0208170		21.0	27.0	130.0	36.0	10.0	104.0	M5	20.0	1.5
6.0	0208180		21.0	27.0	160.0	36.0	10.0	134.0	M5	20.0	1.8
8.0	0208161	•	21.0	27.0	85.0	36.0	10.0	59.0	M6	52.0	1.2
8.0	0208171		21.0	27.0	130.0	36.0	10.0	104.0	M6	52.0	1.5
8.0	0208181		21.0	27.0	160.0	36.0	10.0	134.0	M6	52.0	1.8
10.0	0208162	•	24.0	32.0	90.0	42.0	10.0	64.0	M8x1	70.0	1.3
10.0	0208172		24.0	32.0	130.0	42.0	10.0	104.0	M8x1	70.0	1.6
10.0	0208182		24.0	32.0	160.0	42.0	10.0	134.0	M8x1	70.0	2.0
12.0	0208163	•	24.0	32.0	95.0	47.0	10.0	69.0	M10x1	150.0	1.3
12.0	0208173		24.0	32.0	130.0	47.0	10.0	104.0	M10x1	150.0	1.6
12.0	0208183		24.0	32.0	160.0	47.0	10.0	134.0	M10x1	150.0	1.9
14.0	0208164	•	27.0	34.0	95.0	47.0	10.0	69.0	M10x1	180.0	1.4
14.0	0208174		27.0	34.0	130.0	47.0	10.0	104.0	M10x1	180.0	1.7
14.0	0208184		27.0	34.0	160.0	47.0	10.0	134.0	M10x1	180.0	2.1
16.0	0208165	•	27.0	34.0	100.0	50.0	10.0	74.0	M12x1	300.0	1.5
16.0	0208175		27.0	34.0	130.0	50.0	10.0	104.0	M12x1	300.0	1.5
16.0	0208185		27.0	34.0	160.0	50.0	10.0	134.0	M12x1	300.0	2.1

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

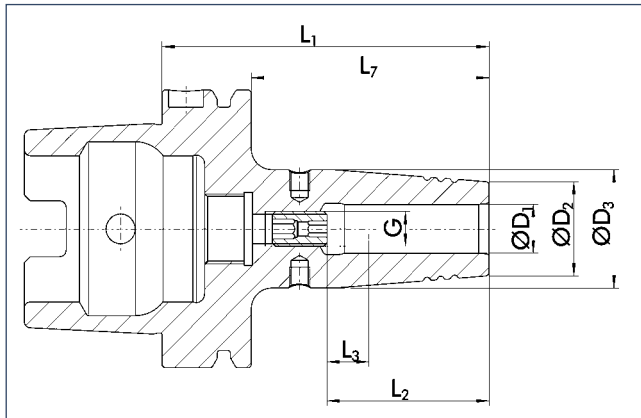
- Tamaños adicionales y diseños especiales disponibles a pedido

CELSIO SSF HSK-A 80

with axial length adjustment

CELSIO SSF HSK-A 80

con ajuste de la longitud axial



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
18.0	0208166	•	33.0	42.0	100.0	50.0	10.0	74.0	M12x1	370.0	1.5
18.0	0208176		33.0	42.0	130.0	50.0	10.0	104.0	M12x1	370.0	2.0
18.0	0208186		33.0	42.0	160.0	50.0	10.0	134.0	M12x1	370.0	2.3
20.0	0208167	•	33.0	42.0	105.0	52.0	10.0	79.0	M16x1	420.0	1.6
20.0	0208177		33.0	42.0	130.0	52.0	10.0	104.0	M16x1	420.0	2.0
20.0	0208187		33.0	42.0	160.0	52.0	10.0	134.0	M16x1	420.0	2.3
25.0	0208168	•	44.0	53.0	115.0	58.0	10.0	89.0	M16x1	550.0	1.7
25.0	0208178		44.0	53.0	160.0	58.0	10.0	134.0	M16x1	550.0	2.9
32.0	0208169	•	44.0	53.0	120.0	58.0	10.0	94.0	M16x1	600.0	1.6
32.0	0208179		44.0	53.0	160.0	58.0	10.0	134.0	M16x1	600.0	2.5

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Reinforced version also available
- Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Versión reforzada también disponible
- Tamaños adicionales y diseños especiales disponibles a pedido



Extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extension



Shrinking unit
see chapter accessories

Unidad de compresión
consulte el capítulo sobre accesorios

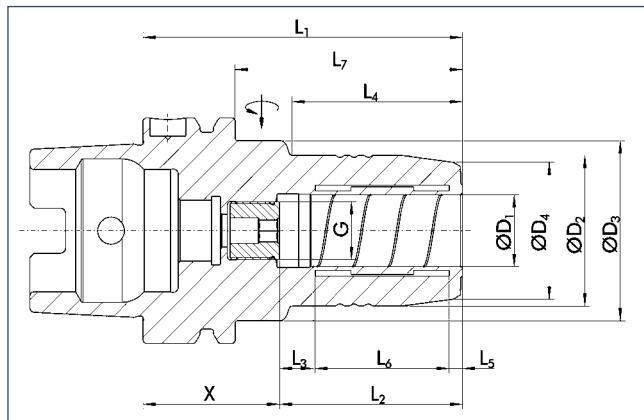


Further accessories
see chapter accessories

Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF HSK-A 100

with axial length adjustment
for automatic tool change



TENDO SDF HSK-A 100

con ajuste de la longitud axial
para cambio automático de herramienta



<math>< 0.003 \text{ mm}</math>



50000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁	ID	D ₂	D ₃	D ₄	X	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	G	M _{min}	m
[inch]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[Nm]	[kg]
1/4"	≡														
5/16"	≡														
3/8"	≡														
7/16"	≡														
1/2"	≡														
9/16"	≡														
5/8"	≡														
11/16"	≡														
3/4"	≡														
13/16"	≡														
7/8"	≡														
15/16"	≡														
1"	0204315	57.0	63.0	52.6	53.0	110.0	57.0	10.0	62.0	4.2	42.3	81.0	M16x1	400.0	3.7
1 1/4"	0204316	64.0	75.0	59.6	49.0	110.0	61.0	10.0	62.0	4.2	47.7	81.0	M16x1	650.0	3.7
1 3/4"	0204317	76.0	85.0	72.0	48.0	124.0	76.0	10.0	72.0	7.0	45.0	95.0	M16x1		4.2

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore holes for data carriers according to DIN 69873

- 📄 Additional sizes and special designs available on request

- ≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
- Posible suministro de existencias

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificios para portadores de datos conforme a DIN 69873

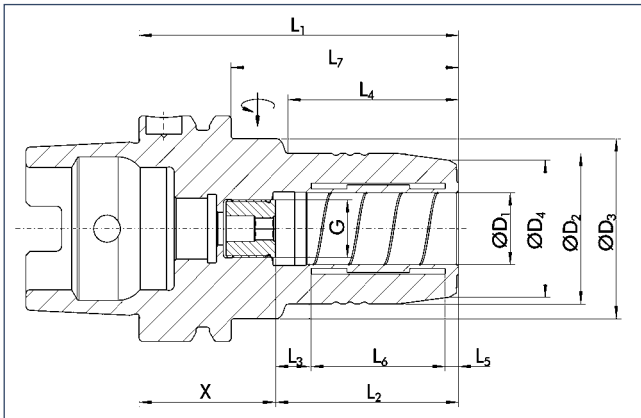
- 📄 Tamaños adicionales y diseños especiales disponibles a pedido

TENDO SDF HSK-A 100

with axial length adjustment
for automatic tool change

TENDO SDF HSK-A 100

con ajuste de la longitud axial
para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
1.0	≡														
2.0	≡														
3.0	≡														
4.0	≡														
5.0	≡														
6.0	0204061	26.0	50.0	22.0	38.0	75.0	37.0	10.0	26.0	3.6	20.5	46.0	M5	16.0	2.5
8.0	0204062	28.0	50.0	24.0	38.0	75.0	37.0	10.0	26.0	3.6	20.5	46.0	M6	23.0	2.5
10.0	0204063	30.0	50.0	26.0	49.0	90.0	41.0	10.0	42.0	3.6	25.5	61.0	M8x1	45.0	2.5
12.0	0204064	•	32.0	50.0	28.0	49.0	95.0	46.0	47.0	3.6	30.5	66.0	M10x1	90.0	2.6
14.0	0204069		34.0	50.0	30.0	49.0	95.0	46.0	47.0	3.6	30.5	66.0	M10x1	110.0	2.6
16.0	0204065	•	38.0	50.0	34.0	51.0	100.0	49.0	53.0	3.6	35.0	71.0	M12x1	185.0	2.7
18.0	0204060		40.0	50.0	36.0	51.0	100.0	49.0	53.0	3.6	35.0	71.0	M12x1	240.0	2.8
20.0	0204066	•	42.0	50.0	38.0	54.0	105.0	51.0	59.0	3.7	37.8	76.0	M16x1	330.0	2.8
25.0	0204067	•	57.0	63.0	53.0	53.0	110.0	57.0	62.0	4.2	42.3	81.0	M16x1	400.0	3.7
32.0	0204068	•	64.0	75.0	60.0	49.0	110.0	61.0	62.0	4.2	47.7	81.0	M16x1	650.0	3.8

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
• Posible suministro de existencias

🔧 Design suitable for MQL operations available on request
🔧 Bore holes for data carriers according to DIN 69873

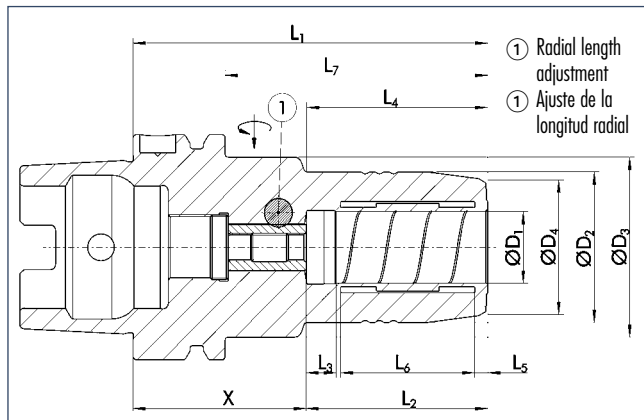
🔧 Diseño apto para operaciones MQL disponible a pedido
🔧 Orificios para portadores de datos conforme a DIN 69873

ℹ Additional sizes and special designs available on request

ℹ Tamaños adicionales y diseños especiales disponibles a pedido

TENDO SDF-KSR HSK-A 100

with radial length adjustment
for automatic tool change



TENDO SDF-KSR HSK-A 100

con ajuste de la longitud radial
para cambio automático de herramienta



< 0.003 mm



50000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	M _{min} [Nm]	m [kg]
1.0	≡													
2.0	≡													
3.0	≡													
4.0	≡													
5.0	≡													
6.0	0207061	26.0	63.0	22.0	48.0	85.0	37.0	10.0	33.0	3.6	20.5	56.0	16.0	2.7
8.0	0207062	28.0	63.0	24.0	48.0	85.0	37.0	10.0	33.0	3.6	20.5	56.0	23.0	2.7
10.0	0207063	30.0	63.0	26.0	49.0	90.0	41.0	10.0	36.0	3.6	25.5	61.0	45.0	2.8
12.0	0207064	32.0	63.0	28.0	49.0	95.0	46.0	10.0	40.0	3.6	30.5	66.0	90.0	2.8
14.0	0207069	34.0	63.0	30.0	49.0	95.0	46.0	10.0	41.0	3.6	30.5	66.0	110.0	2.8
16.0	0207065	38.0	63.0	34.0	51.0	100.0	49.0	10.0	46.0	3.6	35.0	71.0	185.0	2.9
18.0	0207060	40.0	63.0	36.0	51.0	100.0	49.0	10.0	46.0	3.6	35.0	71.0	240.0	2.8
20.0	0207066	42.0	75.0	38.0	54.0	105.0	51.0	10.0	51.0	3.7	37.8	76.0	330.0	3.2
25.0	0207067	57.0	75.0	53.0	57.7	115.0	57.3	10.0	55.5	4.2	42.3	86.0	400.0	3.9
32.0	0207068	64.0	75.0	60.0	59.0	120.0	61.0	10.0	63.5	4.2	47.7	91.0	650.0	4.1

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore holes for data carriers according to DIN 69873

- 📄 Additional sizes and special designs available on request

- ≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
- Posible suministro de existencias

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificios para portadores de datos conforme a DIN 69873

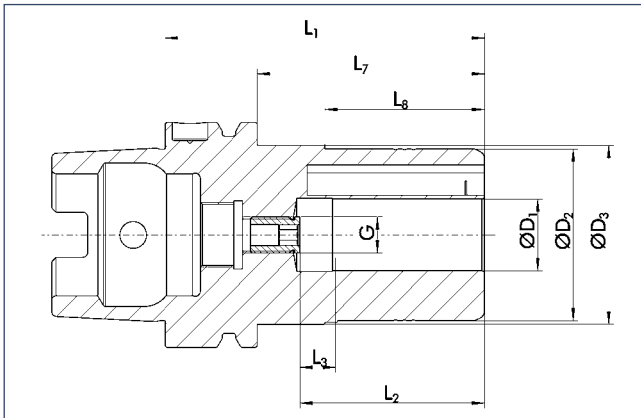
- 📄 Tamaños adicionales y diseños especiales disponibles a pedido

TRIBOS SPF-R HSK-A 100

with axial length adjustment
for automatic tool change

TRIBOS SPF-R HSK-A 100

con ajuste de la longitud axial
para cambio automático de herramienta



HSK



< 0.003 mm



12000 min⁻¹



25000 min⁻¹



✓



✓



✓



✓



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
12.0	0233394	•	42.0	49.5	95.0	47.0	10.0	66.0	45.0	M8x1	40.0	3.6	0201983
14.0	0233399		48.0	49.5	95.0	47.0	10.0	66.0	45.0	M10x1	80.0	3.6	0201984
16.0	0233395	•	48.0	49.5	100.0	48.0	10.0	71.0	45.0	M10x1	120.0	3.6	0201984
18.0	0233390		48.0	49.5	100.0	48.0	10.0	71.0	45.0	M10x1	180.0	3.7	0201984
20.0	0233396	•	48.0	49.5	100.0	52.0	10.0	71.0	45.0	M10x1	240.0	3.8	0201984
25.0	0233397	•	60.0	63.5	105.0	57.0	10.0	76.0	45.0	M10x1	270.0	4.1	0201921
32.0	0233398	•	67.0	70.5	110.0	61.0	10.0	81.0	45.0	M10x1	350.0	4.3	0201922

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Design suitable for MQL operations available on request
- Bore holes for data carriers according to DIN 69893

- Diseño apto para operaciones MQL disponible a pedido
- Orificios para portadores de datos conforme a DIN 69893

Additional sizes and special designs available on request

Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extension



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios



Length measuring devices
see chapter accessories

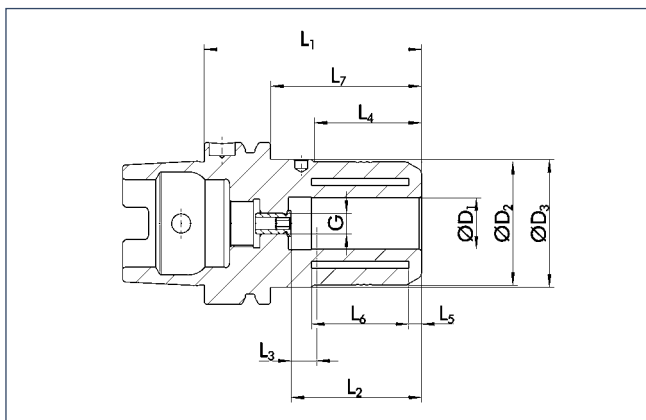
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

SINO-R HSK-A 100

with axial length adjustment

SINO-R HSK-A 100

con ajuste de la longitud axial



≤ 0.005 mm



25000 min⁻¹



25000 min⁻¹



✓



✓



✓



✓



✓

Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
3.0	≡													
4.0	≡													
5.0	≡													
6.0	≡													
8.0	≡													
10.0	≡													
12.0	≡													
14.0	≡													
16.0	≡													
18.0	≡													
20.0	0209567	•	48.5	49.72	88.0	51.0	10.0	42.0	5.0	37.0	59.0	M8x1	500.0	2.75
25.0	≡													
32.0	0209569	•	65.0	69.85	100.0	61.0	10.0	47.0	6.0	46.0	71.0	M10x1	850.0	3.5

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

☑ Bore holes for data carriers according to DIN 69893

ℹ Optimal for heavy duty milling
Additional sizes and special designs available on request

- ≡ Para sujetar con casquillos intermedios
- Posible suministro de existencias

☑ Orificios para portadores de datos conforme a DIN 69893

ℹ Óptimo para fresado de trabajo pesado
Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves
see chapter accessories

Casquillos intermedios
consulte el capítulo sobre accesorios



Spanner wrenches
see chapter accessories

Llaves de apriete
consulte el capítulo sobre accesorios



"C"-spanners
see chapter accessories

Llaves de gancho
consulte el capítulo sobre accesorios



Sleeve remover
see chapter accessories

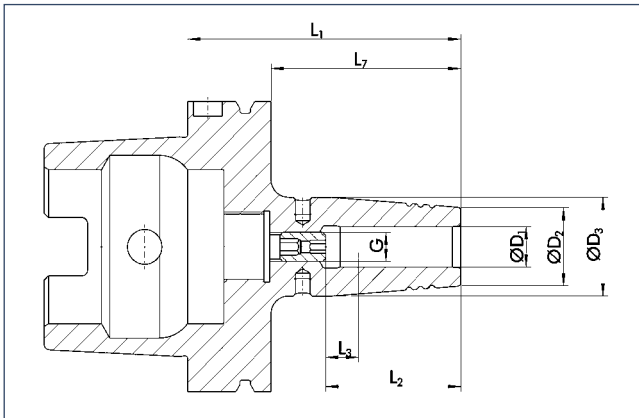
Extractor de casquillos
consulte el capítulo sobre accesorios

CELSIO SSF HSK-A 100

with axial length adjustment

CELSIO SSF HSK-A 100

con ajuste de la longitud axial



HSK



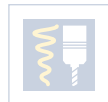
< 0.003 mm



12000 min⁻¹



25000 min⁻¹



✓



✓



Technical data

Datos técnicos

D ₁ [inch]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
1/4"	0210000		21.0	27.0	85.0	36.0	10.0	56.0	M5	20.0	2.1
1/4"	0210010	•	21.0	27.0	130.0	36.0	10.0	101.0	M5	20.0	2.5
1/4"	0210020	•	21.0	27.0	160.0	36.0	10.0	131.0	M5	20.0	2.5
5/16"	0210001	•	21.0	27.0	85.0	36.0	10.0	56.0	M6	52.0	2.1
5/16"	0210011	•	21.0	27.0	130.0	36.0	10.0	101.0	M6	52.0	2.5
5/16"	0210021	•	21.0	27.0	160.0	36.0	10.0	131.0	M6	52.0	2.5
3/8"	0210002		24.0	32.0	90.0	42.0	10.0	61.0	M8x1	70.0	2.2
3/8"	0210012	•	24.0	32.0	130.0	42.0	10.0	101.0	M8x1	70.0	2.5
3/8"	0210022	•	24.0	32.0	160.0	42.0	10.0	131.0	M8x1	70.0	2.9
7/16"	0210003		24.0	32.0	90.0	42.0	10.0	61.0	M8x1	150.0	2.2
7/16"	0210013	•	24.0	32.0	130.0	42.0	10.0	101.0	M8x1	150.0	2.5
7/16"	0210023		24.0	32.0	160.0	42.0	10.0	131.0	M8x1	150.0	2.8
1/2"	0210004	•	24.0	32.0	95.0	47.0	10.0	66.0	M10x1	150.0	2.2
1/2"	0210014	•	24.0	32.0	130.0	47.0	10.0	101.0	M10x1	150.0	2.5
1/2"	0210024	•	24.0	32.0	160.0	47.0	10.0	131.0	M10x1	150.0	2.8

• Can be supplied from stock

• Posible suministro de existencias

Design suitable for MQL operations available on request

Diseño apto para operaciones MQL disponible a pedido

Bore for data carrier as an option

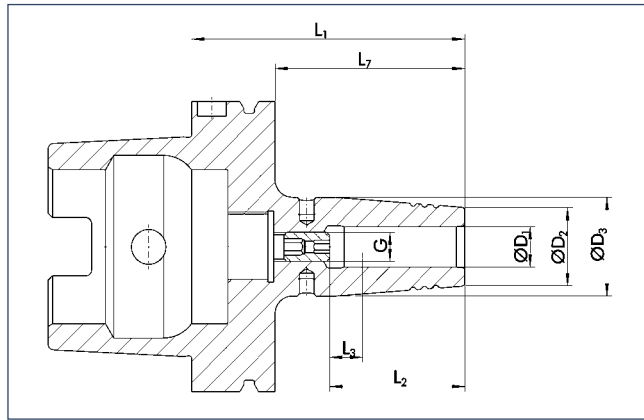
Orificio para portador de datos como opción

Additional sizes and special designs available on request

Tamaños adicionales y diseños especiales disponibles a pedido

CELSIO SSF HSK-A 100

with axial length adjustment



CELSIO SSF HSK-A 100

con ajuste de la longitud axial



< 0.003 mm



12000 min⁻¹



G 2.5
25000 min⁻¹



Technical data

Datos técnicos

D ₁ [inch]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
5/8"	0210005	•	27.0	34.0	100.0	50.0	10.0	71.0	M12x1	300.0	2.6
5/8"	0210015	•	27.0	34.0	130.0	50.0	10.0	101.0	M12x1	300.0	3.0
5/8"	0210025	•	27.0	34.0	160.0	50.0	10.0	131.0	M12x1	300.0	3.3
3/4"	0210006	•	33.0	42.0	105.0	52.0	10.0	76.0	M16x1	420.0	3.0
3/4"	0210016	•	33.0	42.0	130.0	52.0	10.0	101.0	M16x1	420.0	3.3
3/4"	0210026	•	33.0	42.0	160.0	52.0	10.0	131.0	M16x1	420.0	3.4
1"	0210007	•	44.0	53.0	115.0	58.0	10.0	86.0	M16x1	550.0	3.1
1"	0210017	•	44.0	53.0	130.0	58.0	10.0	101.0	M16x1	550.0	3.6
1"	0210027	•	44.0	53.0	160.0	58.0	10.0	131.0	M16x1	550.0	4.5
1 1/4"	0210008	•	44.0	53.0	120.0	58.0	10.0	91.0	M16x1	600.0	3.3
1 1/4"	0210018	•	44.0	53.0	130.0	58.0	10.0	101.0	M16x1	600.0	3.3
1 1/4"	0210028	•	44.0	53.0	160.0	58.0	10.0	131.0	M16x1	600.0	4.7

• Can be supplied from stock

Design suitable for MQL operations available on request

Bore for data carrier as an option

Additional sizes and special designs available on request

• Posible suministro de existencias

Diseño apto para operaciones MQL disponible a pedido

Orificio para portador de datos como opción

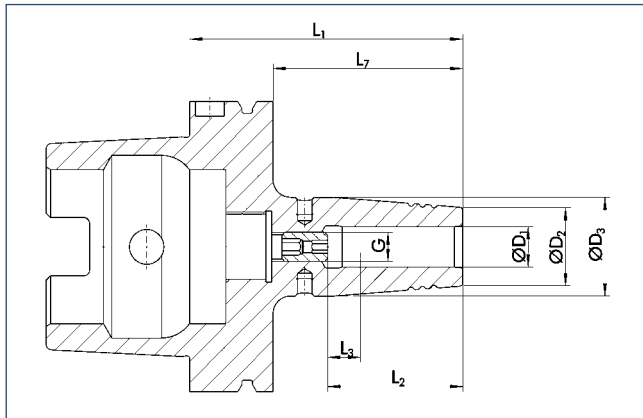
Tamaños adicionales y diseños especiales disponibles a pedido

CELSIO SSF HSK-A 100

with axial length adjustment

CELSIO SSF HSK-A 100

con ajuste de la longitud axial



HSK



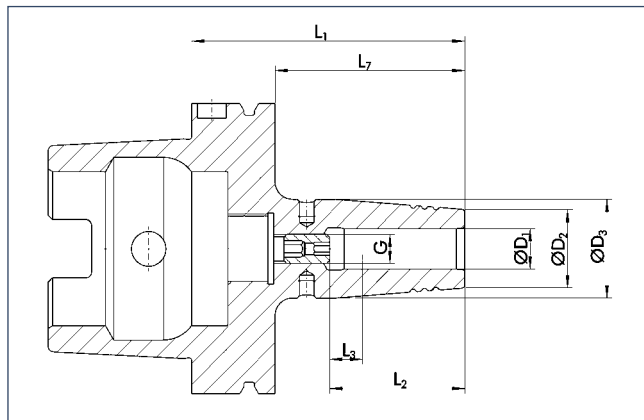
Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
6.0	0208200	•	21.0	27.0	85.0	36.0	10.0	56.0	M5	20.0	2.1
6.0	0208210		21.0	27.0	130.0	36.0	10.0	101.0	M5	20.0	2.5
6.0	0208220	•	21.0	27.0	160.0	36.0	10.0	131.0	M5	20.0	2.5
6.0	0208230		21.0	27.0	200.0	36.0	10.0	171.0	M5	20.0	2.9
8.0	0208201	•	21.0	27.0	85.0	36.0	10.0	56.0	M6	52.0	2.1
8.0	0208211		21.0	27.0	130.0	36.0	10.0	101.0	M6	52.0	2.5
8.0	0208221	•	21.0	27.0	160.0	36.0	10.0	131.0	M6	52.0	2.5
8.0	0208231		21.0	27.0	200.0	36.0	10.0	171.0	M6	52.0	2.9
10.0	0208202	•	24.0	32.0	90.0	42.0	10.0	61.0	M8x1	70.0	2.2
10.0	0208212		24.0	32.0	130.0	42.0	10.0	101.0	M8x1	70.0	2.5
10.0	0208222	•	24.0	32.0	160.0	42.0	10.0	131.0	M8x1	70.0	2.9
10.0	0208232		24.0	32.0	200.0	42.0	10.0	171.0	M8x1	70.0	3.1
12.0	0208203	•	24.0	32.0	95.0	47.0	10.0	66.0	M10x1	150.0	2.2
12.0	0208213		24.0	32.0	130.0	47.0	10.0	101.0	M10x1	150.0	2.5
12.0	0208223	•	24.0	32.0	160.0	47.0	10.0	131.0	M10x1	150.0	2.8
12.0	0208233		24.0	32.0	200.0	47.0	10.0	171.0	M10x1	150.0	3.1
14.0	0208204	•	27.0	34.0	95.0	47.0	10.0	66.0	M10x1	180.0	2.3
14.0	0208214		27.0	34.0	130.0	47.0	10.0	101.0	M10x1	180.0	2.6
14.0	0208224	•	27.0	34.0	160.0	47.0	10.0	131.0	M10x1	180.0	3.0
14.0	0208234		27.0	34.0	200.0	47.0	10.0	171.0	M10x1	180.0	3.2
16.0	0208205	•	27.0	34.0	100.0	50.0	10.0	71.0	M12x1	300.0	2.3
16.0	0208215		27.0	34.0	130.0	50.0	10.0	101.0	M12x1	300.0	2.6
16.0	0208225	•	27.0	34.0	160.0	50.0	10.0	131.0	M12x1	300.0	3.0
16.0	0208235		27.0	34.0	200.0	50.0	10.0	171.0	M12x1	300.0	3.3

CELSIO SSF HSK-A 100

with axial length adjustment



CELSIO SSF HSK-A 100

con ajuste de la longitud axial



< 0.003 mm



12000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
18.0	0208206	•	33.0	42.0	100.0	50.0	10.0	71.0	M12x1	370.0	2.5
18.0	0208216		33.0	42.0	130.0	50.0	10.0	101.0	M12x1	370.0	2.7
18.0	0208226	•	33.0	42.0	160.0	50.0	10.0	131.0	M12x1	370.0	3.0
18.0	0208236		33.0	42.0	200.0	50.0	10.0	171.0	M12x1	370.0	3.4
20.0	0208207	•	33.0	42.0	105.0	52.0	10.0	76.0	M16x1	420.0	2.5
20.0	0208217		33.0	42.0	130.0	52.0	10.0	101.0	M16x1	420.0	3.0
20.0	0208227	•	33.0	42.0	160.0	52.0	10.0	131.0	M16x1	420.0	3.3
20.0	0208237		33.0	42.0	200.0	52.0	10.0	171.0	M16x1	420.0	3.4
25.0	0208208	•	44.0	53.0	115.0	58.0	10.0	86.0	M16x1	550.0	3.1
25.0	0208228		44.0	53.0	160.0	58.0	10.0	131.0	M16x1	550.0	3.6
25.0	0208238		44.0	53.0	200.0	58.0	10.0	171.0	M16x1	550.0	4.5
32.0	0208209	•	44.0	53.0	120.0	58.0	10.0	91.0	M16x1	600.0	3.3
32.0	0208229		44.0	53.0	160.0	58.0	10.0	131.0	M16x1	600.0	3.3
32.0	0208239		44.0	53.0	200.0	58.0	10.0	171.0	M16x1	600.0	4.7

- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Reinforced version also available
- Additional sizes and special designs available on request

- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Versión reforzada también disponible
- Tamaños adicionales y diseños especiales disponibles a pedido



Extensions

see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extension



Shrinking unit

see chapter accessories

Unidad de compresión
consulte el capítulo sobre accesorios



Further accessories

see chapter accessories

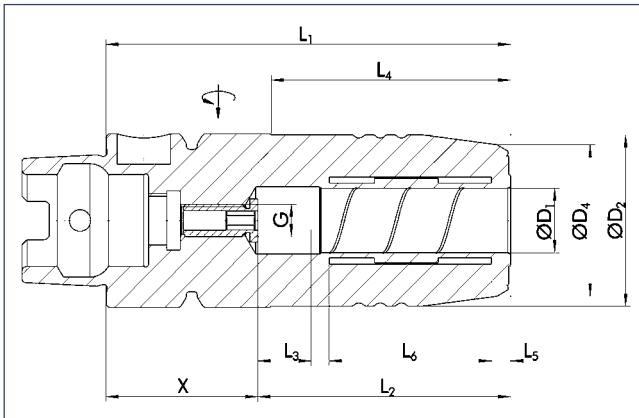
Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF HSK-C 32 for Chiron FZ 08

with axial length adjustment
can also be used as HSK-C (manual version)

TENDO SDF HSK-C 32 para Chiron FZ 08

con ajuste de la longitud axial
también se puede usar como HSK-C (versión manual)



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	G	M _{min} [Nm]	m [kg]	
1.0	≡													
2.0	≡													
3.0	≡													
4.0	≡													
5.0	≡													
6.0	0204476	26.0	22.0	27.5	65.0	37.5	10.0	33.0	3.6	20.5	M5	16.0	0.3	
8.0	0204477	28.0	24.0	29.5	67.0	37.5	10.0	34.0	3.6	20.5	M6	23.0	0.4	
10.0	0204478	•	30.0	26.0	30.2	72.7	42.5	10.0	39.0	3.6	25.5	M6	45.0	0.4
12.0	0204479	•	31.5	28.0	28.5	76.0	47.5	10.0	45.0	3.6	30.5	M6	90.0	0.4

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
• Posible suministro de existencias

🔧 Design suitable for MQL operations available on request
🔧 Bore holes for data carriers according to DIN 69873

🔧 Diseño apto para operaciones MQL disponible a pedido
🔧 Orificios para portadores de datos conforme a DIN 69873

📄 Additional sizes and special designs available on request

📄 Tamaños adicionales y diseños especiales disponibles a pedido

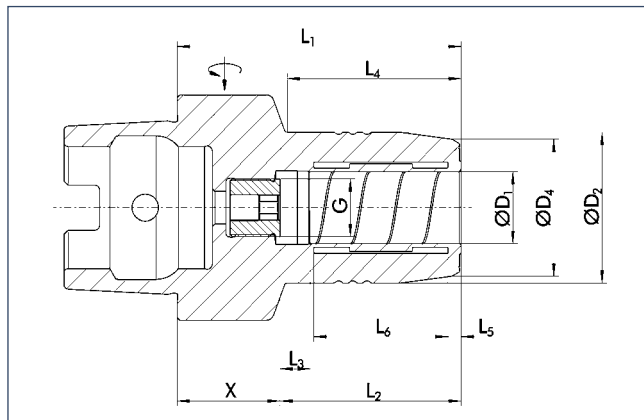
Intermediate sleeves
see chapter accessories
Casquillos intermedios
consulte el capítulo sobre accesorios

Sleeve remover
see chapter accessories
Extractor de casquillos
consulte el capítulo sobre accesorios

Further accessories
see chapter accessories
Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF HSK-C 40

with axial length adjustment
for manual tool change



TENDO SDF HSK-C 40

con ajuste de la longitud axial
para cambio manual de herramienta



<math>< 0.003 \text{ mm}</math>



50000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	G	M _{min} [Nm]	m [kg]
1.0	≡													
2.0	≡													
3.0	≡													
4.0	≡													
5.0	≡													
6.0	0204001	•	26.0	22.0	23.0	60.0	37.0	10.0	35.0	3.6	20.5	M5	16.0	0.4
8.0	0204002	•	28.0	24.0	23.0	60.0	37.0	10.0	36.0	3.6	20.5	M6	23.0	0.4
10.0	0204003	•	30.0	26.0	24.0	65.0	41.0	10.0	41.0	3.6	25.5	M6	45.0	0.5
12.0	0204004	•	32.0	28.0	24.0	70.0	46.0	10.0	47.0	3.6	30.5	M6	90.0	0.5

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

🔧 Design suitable for MQL operations available on request
🔧 Bore for data carrier as an option

📄 Additional sizes and special designs available on request

≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
• Posible suministro de existencias

🔧 Diseño apto para operaciones MQL disponible a pedido
🔧 Orificio para portador de datos como opción

📄 Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves

see chapter accessories

Casquillos intermedios

consulte el capítulo sobre accesorios



Sleeve remover

see chapter accessories

Extractor de casquillos

consulte el capítulo sobre accesorios



Further accessories

see chapter accessories

Accesorios adicionales

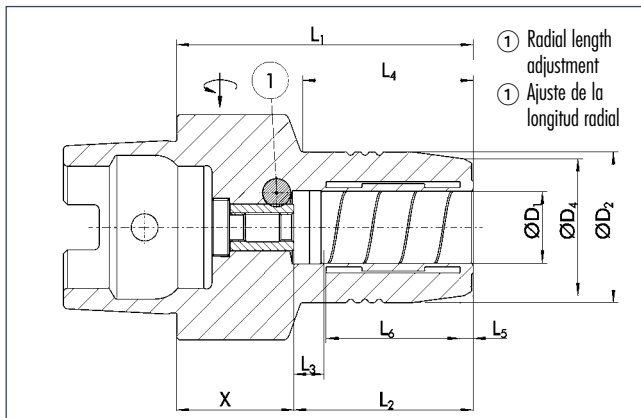
consulte el capítulo sobre accesorios

TENDO SDF-KSR HSK-C 40

with radial length adjustment
for manual tool change

TENDO SDF-KSR HSK-C 40

con ajuste de la longitud radial
para cambio manual de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₂ * [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	M _{min} [Nm]	m [kg]
1.0	≡												
2.0	≡												
3.0	≡												
4.0	≡												
5.0	≡												
6.0	0205951	26.0	22.0	24.4	60.0	35.6	37.0	10.0	30.0	3.6	20.5	16.0	0.4
8.0	0205952	28.0	24.0	24.4	60.0	35.6	37.0	10.0	30.0	3.6	20.5	23.0	0.4
10.0	0205953	30.0	26.0	25.4	65.0	39.6	41.0	10.0	35.0	3.6	25.5	45.0	0.5
12.0	0205954	32.0	28.0	25.0	70.0	45.0	45.0	10.0	40.0	3.6	30.5	90.0	0.5

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
• Posible suministro de existencias

🔧 Design suitable for MQL operations available on request
📄 Bore for data carrier as an option

🔧 Diseño apto para operaciones MQL disponible a pedido
📄 Orificio para portador de datos como opción

📄 L₂* = Dimension according to DIN 69882-7
Additional sizes and special designs available on request

📄 L₂* = Dimensión conforme a DIN 69882-7
Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves
see chapter accessories

Casquillos intermedios
consulte el capítulo sobre accesorios



Sleeve remover
see chapter accessories

Extractor de casquillos
consulte el capítulo sobre accesorios

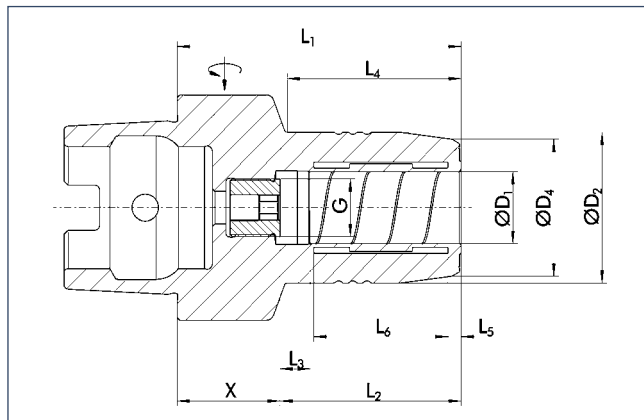


Further accessories
see chapter accessories

Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF HSK-C 50

with axial length adjustment
for manual tool change



TENDO SDF HSK-C 50

con ajuste de la longitud axial
para cambio manual de herramienta



< 0.003 mm



50000 min⁻¹



25000 min⁻¹



✓



✓



✓



✓

Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	G	M _{min} [Nm]	m [kg]
1.0	≡													
2.0	≡													
3.0	≡													
4.0	≡													
5.0	≡													
6.0	0204011	•	26.0	22.0	23.0	60.0	37.0	10.0	30.0	3.6	20.5	M5	16.0	0.6
8.0	0204012	•	28.0	24.0	23.0	60.0	37.0	10.0	30.0	3.6	20.5	M6	23.0	0.6
10.0	0204013	•	30.0	26.0	24.0	65.0	41.0	10.0	35.0	3.6	25.5	M8x1	45.0	0.7
12.0	0204014	•	32.0	28.0	29.0	75.0	46.0	10.0	44.0	3.6	30.5	M10x1	90.0	0.7
14.0	0204019	•	34.0	30.0	29.0	75.0	46.0	10.0	46.0	3.6	30.5	M10x1	110.0	0.7
16.0	0204015	•	38.0	34.0	31.0	80.0	49.0	10.0	51.0	3.6	35.0	M12x1	185.0	0.8
18.0	0204010	•	40.0	36.0	31.0	80.0	49.0	10.0	51.0	3.6	35.0	M12x1	240.0	0.9
20.0	0204016	•	42.0	38.0	29.0	80.0	51.0	10.0	52.0	3.7	37.8	M16x1	330.0	0.9

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ☑ Design suitable for MQL operations available on request
- ☑ Bore for data carrier as an option

- ℹ Additional sizes and special designs available on request

- ≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
- Posible suministro de existencias

- ☑ Diseño apto para operaciones MQL disponible a pedido
- ☑ Orificio para portador de datos como opción

- ℹ Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves

see chapter accessories

Casquillos intermedios

consulte el capítulo sobre accesorios



Sleeve remover

see chapter accessories

Extractor de casquillos

consulte el capítulo sobre accesorios



Further accessories

see chapter accessories

Accesorios adicionales

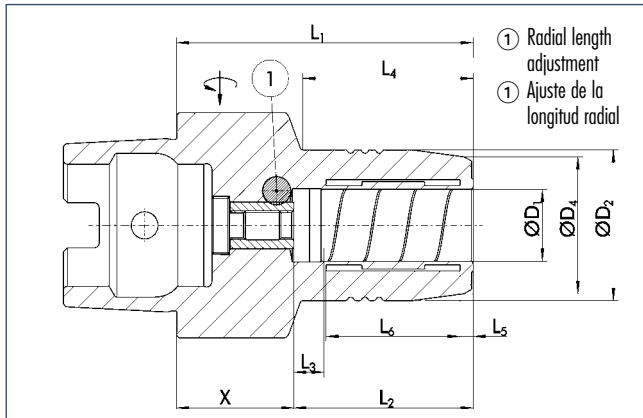
consulte el capítulo sobre accesorios

TENDO SDF-KSR HSK-C 50

with radial length adjustment
for manual tool change

TENDO SDF-KSR HSK-C 50

con ajuste de la longitud radial
para cambio manual de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₂ * [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	M _{min} [Nm]	m [kg]
1.0	≡												
2.0	≡												
3.0	≡												
4.0	≡												
5.0	≡												
6.0	0205351	26.0	22.0	24.4	60.0	35.6	37.0	10.0	30.0	3.6	20.5	16.0	0.6
8.0	0205352	28.0	24.0	24.4	60.0	35.6	37.0	10.0	30.0	3.6	20.5	23.0	0.6
10.0	0205353	30.0	26.0	25.4	65.0	39.6	39.6	10.0	35.0	3.6	25.5	45.0	0.6
12.0	0205354	•	32.0	28.0	29.4	75.0	45.6	10.0	40.0	3.6	30.5	90.0	0.8
14.0	0205359		34.0	30.0	29.4	75.0	45.6	10.0	40.0	3.6	30.5	110.0	0.9
16.0	0205355		38.0	34.0	31.0	80.0	49.0	10.0	50.0	3.6	35.0	185.0	0.8
18.0	0205350		40.0	36.0	31.0	80.0	49.0	10.0	50.0	3.6	35.0	240.0	0.9
20.0	0205356		42.0	38.0	29.4	80.0	50.6	10.0	50.0	3.7	37.8	330.0	0.9

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

☑ Design suitable for MQL operations available on request
☑ Bore for data carrier as an option

ℹ L₂* = Dimension according to DIN 69882-7
Additional sizes and special designs available on request

≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
• Posible suministro de existencias

☑ Diseño apto para operaciones MQL disponible a pedido
☑ Orificio para portador de datos como opción

ℹ L₂* = Dimensión conforme a DIN 69882-7
Tamaños adicionales y diseños especiales disponibles a pedido

Intermediate sleeves
see chapter accessories
Casquillos intermedios
consulte el capítulo sobre accesorios

Sleeve remover
see chapter accessories
Extractor de casquillos
consulte el capítulo sobre accesorios

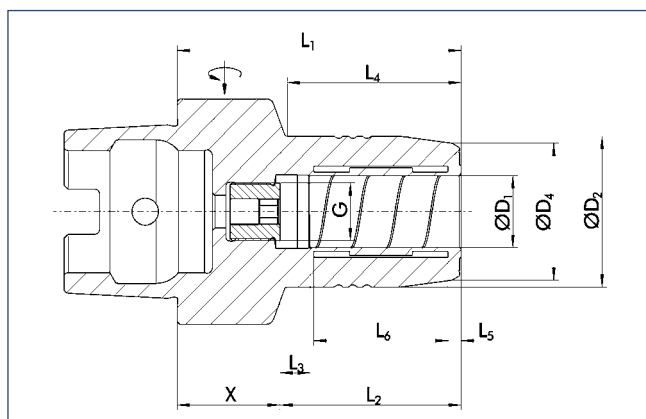
Further accessories
see chapter accessories
Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF HSK-C 63

with axial length adjustment
for manual tool change

TENDO SDF HSK-C 63

con ajuste de la longitud axial
para cambio manual de herramienta



<math>< 0.003 \text{ mm}</math>



50000 min⁻¹



25000 min⁻¹



✓



✓



✓



✓

Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	G	M _{min} [Nm]	m [kg]
1.0	≡													
2.0	≡													
3.0	≡													
4.0	≡													
5.0	≡													
6.0	0204021	•	26.0	22.0	23.0	60.0	37.0	10.0	25.0	3.6	20.5	M5	16.0	0.9
8.0	0204022	•	28.0	24.0	23.0	60.0	37.0	10.0	25.0	3.6	20.5	M6	23.0	0.9
10.0	0204023	•	30.0	26.0	24.0	65.0	41.0	10.0	31.0	3.6	25.5	M8x1	45.0	1.0
12.0	0204024	•	32.0	28.0	29.0	75.0	46.0	10.0	41.0	3.6	30.5	M10x1	90.0	1.0
14.0	0204029		34.0	30.0	29.0	75.0	46.0	10.0	42.0	3.6	30.5	M10x1	110.0	1.1
16.0	0204025	•	38.0	34.0	31.0	80.0	49.0	10.0	48.0	3.6	35.0	M12x1	185.0	1.1
18.0	0204020	•	40.0	36.0	31.0	80.0	49.0	10.0	48.0	3.6	35.0	M12x1	240.0	1.2
20.0	0204026	•	42.0	38.0	29.0	80.0	51.0	10.0	49.0	3.7	37.8	M16x1	330.0	1.2
25.0	0204027	•	57.0	53.0	38.0	95.0	57.0	10.0	63.0	4.2	42.3	M16x1	400.0	1.8
32.0	0204028		62.5	59.0	39.0	100.0	61.0	10.0	60.5	4.2	47.7	M12x1	650.0	2.0

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ☑ Design suitable for MQL operations available on request
- ☑ Bore for data carrier as an option

- ℹ Additional sizes and special designs available on request



Intermediate sleeves

see chapter accessories

Casquillos intermedios

consulte el capítulo sobre accesorios



Sleeve remover

see chapter accessories

Extractor de casquillos

consulte el capítulo sobre accesorios



Further accessories

see chapter accessories

Accesorios adicionales

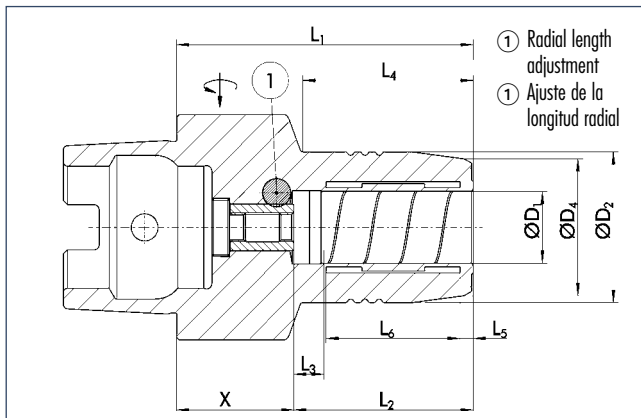
consulte el capítulo sobre accesorios

TENDO SDF-KSR HSK-C 63

with radial length adjustment
for manual tool change

TENDO SDF-KSR HSK-C 63

con ajuste de la longitud radial
para cambio manual de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₂ * [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	M _{min} [Nm]	m [kg]
1.0	≡												
2.0	≡												
3.0	≡												
4.0	≡												
5.0	≡												
6.0	0205371	26.0	22.0	24.4	60.0	35.6	37.0	10.0	25.0	3.6	20.5	16.0	0.9
8.0	0205372	28.0	24.0	24.4	60.0	35.6	37.0	10.0	25.0	3.6	20.5	23.0	1.0
10.0	0205373	30.0	26.0	25.4	65.0	39.6	39.6	10.0	31.0	3.6	25.5	45.0	1.0
12.0	0205374	32.0	28.0	29.4	75.0	45.6	45.6	10.0	40.0	3.6	30.5	90.0	1.1
14.0	0205379	34.0	30.0	29.4	75.0	45.6	45.6	10.0	40.0	3.6	30.5	110.0	1.1
16.0	0205375	38.0	34.0	31.0	80.0	49.0	49.0	10.0	46.0	3.6	35.0	185.0	1.2
18.0	0205370	40.0	36.0	31.0	80.0	49.0	49.0	10.0	46.0	3.6	35.0	240.0	1.2
20.0	0205376	42.0	38.0	29.4	80.0	50.6	50.6	10.0	48.0	3.7	37.8	330.0	1.2
25.0	0205377	57.0	53.0	38.0	95.0	57.0	57.0	10.0	59.5	4.2	42.3	400.0	1.8
32.0	0205378	62.5	59.5	39.0	100.0	61.0	61.0	10.0	60.5	4.2	47.7	650.0	2.4

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
• Posible suministro de existencias

🔧 Design suitable for MQL operations available on request
🔧 Bore for data carrier as an option

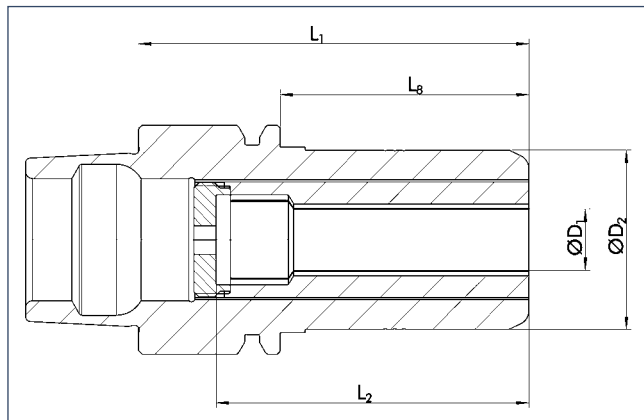
🔧 Diseño apto para operaciones MQL disponible a pedido
🔧 Orificio para portador de datos como opción

📄 L₂* = Dimension according to DIN 69882-7
Additional sizes and special designs available on request

📄 L₂* = Dimensión conforme a DIN 69882-7
Tamaños adicionales y diseños especiales disponibles a pedido

TRIBOS SPF-RM HSK-E 25

for automatic tool change



TRIBOS SPF-RM HSK-E 25

para cambio automático de herramienta



< 0.003 mm



80000 min⁻¹



25000 min⁻¹



Technical data

D ₁	ID	D ₂	L ₁	L ₂	L ₈	M _{min}	m	SRE
[inch]		[mm]	[mm]	[mm]	[mm]	[Nm]	[kg]	ID
1/8"	0215000	20.0	40.0	31.0	30.0	3.0	0.14	0201892

Datos técnicos

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Very stable design for fast and precise work
- Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Diseño muy estable para trabajo rápido y preciso
- Tamaños adicionales y diseños especiales disponibles a pedido



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction insert SRE
see chapter accessories

Inserto de reducción SRE
consulte el capítulo sobre accesorios



Length measuring devices
see chapter accessories

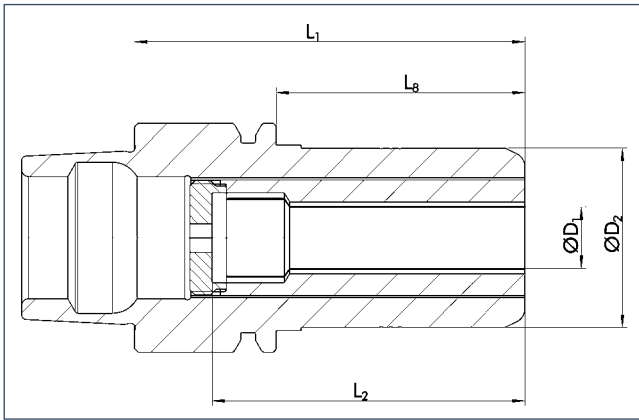
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-RM HSK-E 25

for automatic tool change

TRIBOS SPF-RM HSK-E 25

para cambio automático de herramienta



HSK



< 0.003 mm



80000 min⁻¹



25000 min⁻¹



✓



✓



✓



✓



✓

Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	L ₁ [mm]	L ₂ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
3.0	0205082	•	20.0	40.0	31.0	30.0	3.0	0.14	0201892
4.0	0205083	•	20.0	40.0	31.0	30.0	4.0	0.13	0201892
5.0	0205084		20.0	40.0	31.0	30.0	6.0	0.12	0201892
6.0	0205085	•	20.0	40.0	31.0	30.0	10.0	0.11	0201892
8.0	0205086		20.0	40.0	31.0	30.0	15.0	0.11	0201892
10.0	0205087		20.0	40.0	31.0	30.0	20.0	0.095	0201892

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Very stable design for fast and precise work
- Additional sizes and special designs available on request

- Diseño muy estable para trabajo rápido y preciso
- Tamaños adicionales y diseños especiales disponibles a pedido



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction insert SRE
see chapter accessories

Inserto de reducción SRE
consulte el capítulo sobre accesorios



Length measuring devices
see chapter accessories

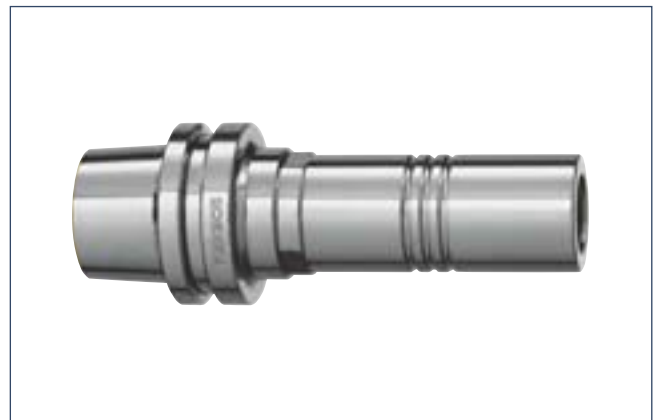
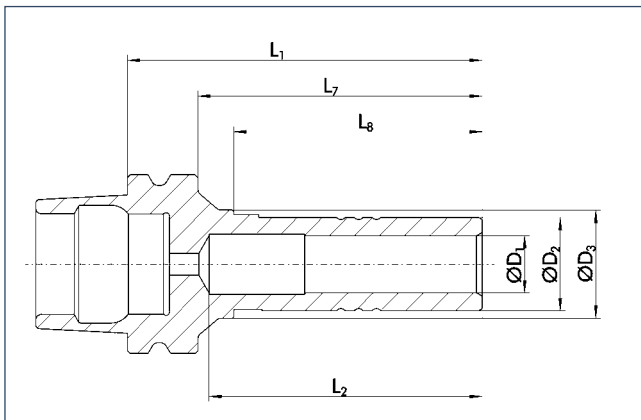
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-S HSK-E 25

for automatic tool change

TRIBOS SPF-S HSK-E 25

para cambio automático de herramienta



< 0.003 mm



80000 min⁻¹



25000 min⁻¹



✓



✓



Technical data

Datos técnicos

D ₁	ID		D ₂	D ₃	L ₁	L ₂	L ₇	L ₈	M _{min}	m	SRE
[mm]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[Nm]	[kg]	ID
6.0	0205251	•	10.0	13.0	50.0	38.5	40.0	35.0	5.0	0.15	0201972
8.0	0205252	•	13.0	15.0	50.0	38.5	40.0	35.0	12.0	0.15	0201973
10.0	0205253	•	16.0	18.0	55.0	43.5	45.0	40.0	20.0	0.16	0201974

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Optimal for light machine cutting – consider radial forces
Without length adjustment screw
Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Óptimo para corte con máquinas ligeras; considera fuerzas radiales
Sin tornillo de ajuste de la longitud
Tamaños adicionales y diseños especiales disponibles a pedido



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios



Length measuring devices
see chapter accessories

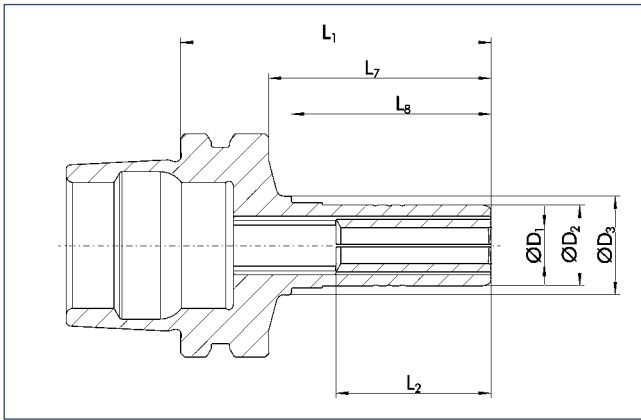
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-Mini HSK-E 25

for automatic tool change

TRIBOS SPF-Mini HSK-E 25

para cambio automático de herramienta



HSK



< 0.003 mm



80000 min⁻¹



25000 min⁻¹



✓



✓



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ * [mm]	L ₇ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
0.3	0225603	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
0.4	0225604	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
0.5	0225605	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
0.6	0225606	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
0.7	0225607	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
0.8	0225608	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
0.9	0225609	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
1.0	0225610	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
1.1	0225611	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
1.2	0225612	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
1.3	0225613	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
1.4	0225614	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
1.5	0225615	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
1.6	0225616	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
1.7	0225617	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
1.8	0225618	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971
1.9	0225619	9.0	11.0	35.0	17.5	25.0	22.5	0.05	0.05	0201971

- ☰ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ☰ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore for data carrier as an option

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificio para portador de datos como opción

📄 Additional sizes and special designs available on request

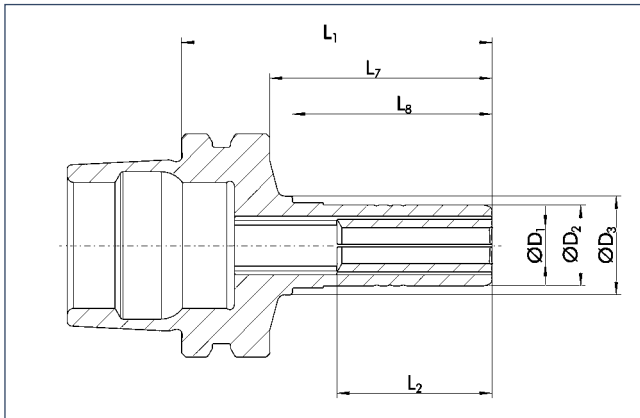
📄 Tamaños adicionales y diseños especiales disponibles a pedido

TRIBOS SPF-Mini HSK-E 25

for automatic tool change

TRIBOS SPF-Mini HSK-E 25

para cambio automático de herramienta



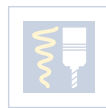
< 0.003 mm



80000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [*] [mm]	L ₇ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
2.0	0225620	9.0	11.0	35.0	17.5	25.0	22.5		0.05	0201971
2.1	0225621	9.0	11.0	35.0	17.5	25.0	22.5		0.05	0201971
2.2	0225622	9.0	11.0	35.0	17.5	25.0	22.5		0.05	0201971
2.3	0225623	9.0	11.0	35.0	17.5	25.0	22.5		0.05	0201971
2.4	0225624	9.0	11.0	35.0	17.5	25.0	22.5		0.05	0201971
2.5	0225625	9.0	11.0	35.0	17.5	25.0	22.5		0.05	0201971
2.6	0225626	9.0	11.0	35.0	17.5	25.0	22.5		0.05	0201971
2.7	0225627	9.0	11.0	35.0	17.5	25.0	22.5		0.05	0201971
2.8	0225628	9.0	11.0	35.0	17.5	25.0	22.5		0.05	0201971
2.9	0225629	9.0	11.0	35.0	17.5	25.0	22.5		0.05	0201971
3.0	0205250	•	9.0	11.0	35.0	17.5	25.0	1.5	0.05	0201971
3.1	0225631	9.0	11.0	35.0	17.5	25.0	22.5	1.6	0.05	0201971
3.2	0225632	9.0	11.0	35.0	17.5	25.0	22.5	1.7	0.05	0201971
3.3	0225633	9.0	11.0	35.0	17.5	25.0	22.5	1.8	0.05	0201971
3.4	0225634	9.0	11.0	35.0	17.5	25.0	22.5	1.9	0.05	0201971
3.5	0225635	9.0	11.0	35.0	17.5	25.0	22.5	2.0	0.05	0201971
3.6	0225636	9.0	11.0	35.0	17.5	25.0	22.5	2.1	0.05	0201971
3.7	0225637	9.0	11.0	35.0	17.5	25.0	22.5	2.2	0.05	0201971
3.8	0225638	9.0	11.0	35.0	17.5	25.0	22.5	2.3	0.05	0201971
3.9	0225639	9.0	11.0	35.0	17.5	25.0	22.5	2.4	0.05	0201971

- ▢ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- 🔧 Design suitable for MQL operations available on request
- 📄 Bore for data carrier as an option

- ℹ Additional sizes and special designs available on request

- ▢ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 📄 Orificio para portador de datos como opción

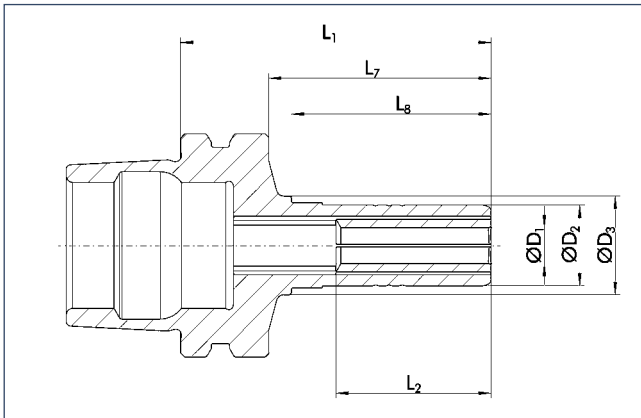
- ℹ Tamaños adicionales y diseños especiales disponibles a pedido

TRIBOS SPF-Mini HSK-E 25

for automatic tool change

TRIBOS SPF-Mini HSK-E 25

para cambio automático de herramienta



HSK



< 0.003 mm



80000 min⁻¹



25000 min⁻¹



✓



✓



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ * [mm]	L ₇ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
4.0	0205256	•	9.0	11.0	35.0	17.5	25.0	22.5	2.5	0.05	0201971
4.1	0225641		9.0	11.0	35.0	17.5	25.0	22.5	2.6	0.05	0201971
4.2	0225642		9.0	11.0	35.0	17.5	25.0	22.5	2.7	0.05	0201971
4.3	0225643		9.0	11.0	35.0	17.5	25.0	22.5	2.8	0.05	0201971
4.4	0225644		9.0	11.0	35.0	17.5	25.0	22.5	2.9	0.05	0201971
4.5	0225645		9.0	11.0	35.0	17.5	25.0	22.5	3.0	0.05	0201971
4.6	0225646		9.0	11.0	35.0	17.5	25.0	22.5	3.1	0.05	0201971
4.7	0225647		9.0	11.0	35.0	17.5	25.0	22.5	3.2	0.05	0201971
4.8	0225648		9.0	11.0	35.0	17.5	25.0	22.5	3.3	0.05	0201971
4.9	0225649		9.0	11.0	35.0	17.5	25.0	22.5	3.4	0.05	0201971
5.0	0205258	•	9.0	11.0	35.0	17.5	25.0	22.5	3.5	0.05	0201971

- ☰ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore for data carrier as an option

📄 *L₂ without back stop
Without length adjustment screw
Additional sizes and special designs available on request

- ☰ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificio para portador de datos como opción

📄 *L₂ sin tope posterior
Sin tornillo de ajuste de la longitud
Tamaños adicionales y diseños especiales disponibles a pedido



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction insert SRE
see chapter accessories

Inserto de reducción SRE
consulte el capítulo sobre accesorios

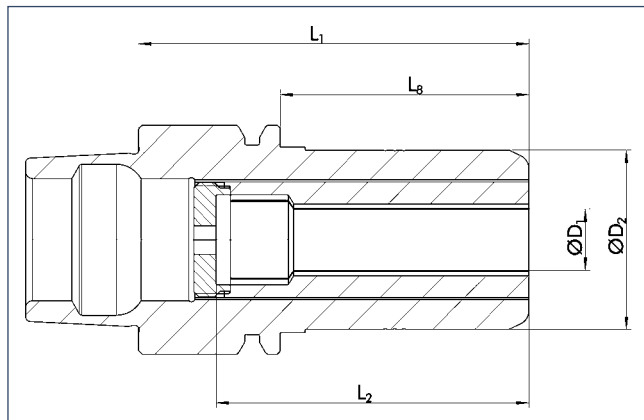


Length measuring devices
see chapter accessories

Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-RM HSK-E 32

for automatic tool change



< 0.003 mm



80000 min⁻¹



25000 min⁻¹



Technical data

D ₁	ID	D ₂	L ₁	L ₂	L ₈	M _{min}	m	SRE
[inch]		[mm]	[mm]	[mm]	[mm]	[Nm]	[kg]	ID
1/8"	0215010	25.0	55.0	44.0	35.0	5.0	0.25	0201893

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Very stable design for fast and precise work
- Additional sizes and special designs available on request

TRIBOS SPF-RM HSK-E 32

para cambio automático de herramienta



Datos técnicos

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Diseño muy estable para trabajo rápido y preciso
- Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensiones



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction insert SRE
see chapter accessories

Inserto de reducción SRE
consulte el capítulo sobre accesorios



Length measuring devices
see chapter accessories

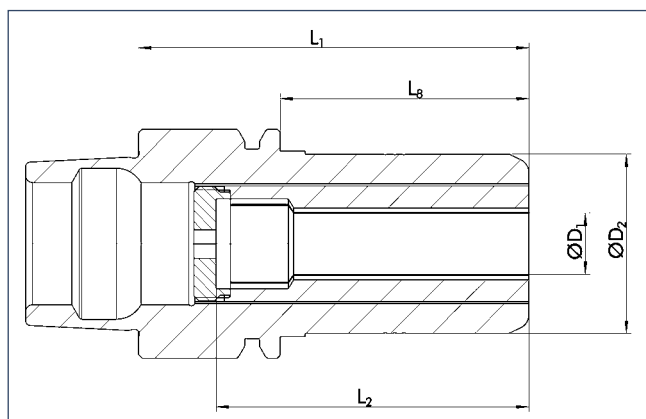
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-RM HSK-E 32

for automatic tool change

TRIBOS SPF-RM HSK-E 32

para cambio automático de herramienta



HSK



<math>< 0.003 \text{ mm}</math>



80000 min⁻¹



25000 min⁻¹



✓



✓



✓



✓



✓

Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	L ₁ [mm]	L ₂ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
3.0	0205096	•	25.0	55.0	44.0	35.0	6.0	0.25	0201893
4.0	0205097	•	25.0	55.0	44.0	35.0	7.0	0.24	0201893
5.0	0205098		25.0	55.0	44.0	35.0	9.0	0.24	0201893
6.0	0205091	•	25.0	55.0	44.0	35.0	16.0	0.23	0201893
8.0	0205092	•	25.0	55.0	44.0	35.0	20.0	0.22	0201893
10.0	0205093	•	25.0	55.0	44.0	35.0	30.0	0.22	0201893
12.0	0205094	•	25.0	55.0	44.0	35.0	35.0	0.21	0201893

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Very stable design for fast and precise work
- Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Diseño muy estable para trabajo rápido y preciso
- Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensiones



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction insert SRE
see chapter accessories

Inserto de reducción SRE
consulte el capítulo sobre accesorios

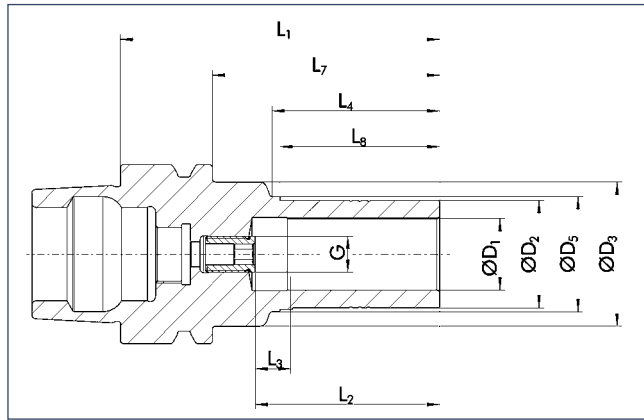


Length measuring devices
see chapter accessories

Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-S HSK-E 32

with axial length adjustment
for automatic tool change



TRIBOS SPF-S HSK-E 32

con ajuste de la longitud axial
para cambio automático de herramienta



Technical data

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	D ₅ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
6.0	0205261	•	10.0	26.0	13.0	65.0	37.0	10.0	38.0	45.0	35.0	M5	5.0	0.25	0201972
8.0	0205262	•	13.0	26.0	15.0	65.0	37.0	10.0	39.0	45.0	35.0	M5	12.0	0.25	0201973
10.0	0205263	•	16.0	26.0	18.0	70.0	42.0	10.0	45.0	50.0	40.0	M5	20.0	0.25	0201974
12.0	0205264	•	19.0	26.0	21.0	75.0	47.0	10.0	52.0	55.0	45.0	M5	30.0	0.25	0201975

Datos técnicos

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Optimal for light machine cutting – consider radial forces
- Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Óptimo para corte con máquinas ligeras; considera fuerzas radiales
- Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensiones



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios



Length measuring devices
see chapter accessories

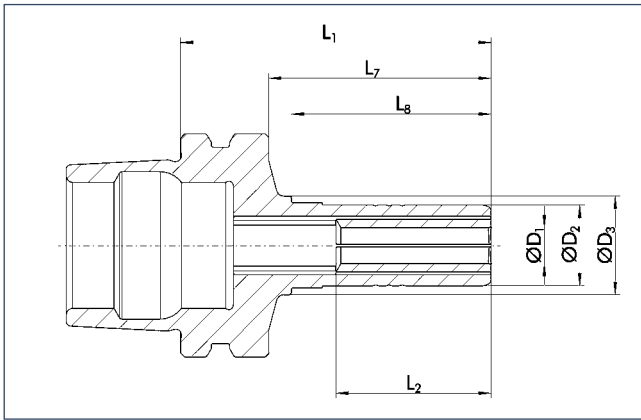
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-Mini HSK-E 32

for automatic tool change

TRIBOS SPF-Mini HSK-E 32

para cambio automático de herramienta



HSK



< 0.003 mm



80000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ * [mm]	L ₇ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
0.3	0225703	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
0.4	0225704	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
0.5	0225705	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
0.6	0225706	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
0.7	0225707	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
0.8	0225708	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
0.9	0225709	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
1.0	0225710	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
1.1	0225711	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
1.2	0225712	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
1.3	0225713	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
1.4	0225714	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
1.5	0225715	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
1.6	0225716	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
1.7	0225717	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
1.8	0225718	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971
1.9	0225719	9.0	11.0	45.0	17.5	25.0	22.5	0.13	0.13	0201971

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

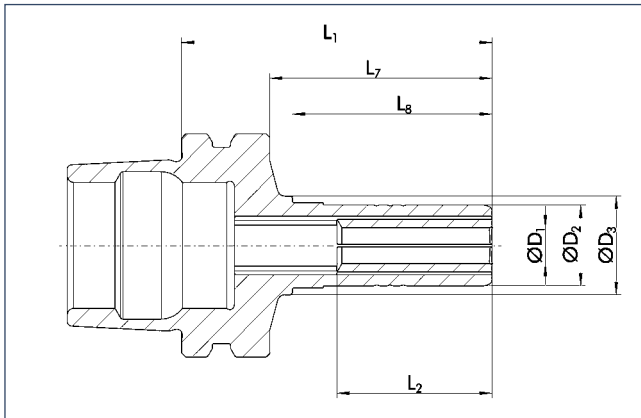
Tamaños adicionales y diseños especiales disponibles a pedido

TRIBOS SPF-Mini HSK-E 32

for automatic tool change

TRIBOS SPF-Mini HSK-E 32

para cambio automático de herramienta



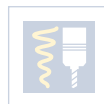
< 0.003 mm



80000 min⁻¹



25000 min⁻¹



✓



✓



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [*] [mm]	L ₇ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
2.0	0225720	9.0	11.0	45.0	17.5	25.0	22.5		0.13	0201971
2.1	0225721	9.0	11.0	45.0	17.5	25.0	22.5		0.13	0201971
2.2	0225722	9.0	11.0	45.0	17.5	25.0	22.5		0.13	0201971
2.3	0225723	9.0	11.0	45.0	17.5	25.0	22.5		0.13	0201971
2.4	0225724	9.0	11.0	45.0	17.5	25.0	22.5		0.13	0201971
2.5	0225725	9.0	11.0	45.0	17.5	25.0	22.5		0.13	0201971
2.6	0225726	9.0	11.0	45.0	17.5	25.0	22.5		0.13	0201971
2.7	0225727	9.0	11.0	45.0	17.5	25.0	22.5		0.13	0201971
2.8	0225728	9.0	11.0	45.0	17.5	25.0	22.5		0.13	0201971
2.9	0225729	9.0	11.0	45.0	17.5	25.0	22.5		0.13	0201971
3.0	0205260	•	9.0	11.0	45.0	17.5	25.0	1.5	0.13	0201971
3.1	0225731	9.0	11.0	45.0	17.5	25.0	22.5	1.6	0.13	0201971
3.2	0225732	9.0	11.0	45.0	17.5	25.0	22.5	1.7	0.13	0201971
3.3	0225733	9.0	11.0	45.0	17.5	25.0	22.5	1.8	0.13	0201971
3.4	0225734	9.0	11.0	45.0	17.5	25.0	22.5	1.9	0.13	0201971
3.5	0225735	9.0	11.0	45.0	17.5	25.0	22.5	2.0	0.13	0201971
3.6	0225736	9.0	11.0	45.0	17.5	25.0	22.5	2.1	0.13	0201971
3.7	0225737	9.0	11.0	45.0	17.5	25.0	22.5	2.2	0.13	0201971
3.8	0225738	9.0	11.0	45.0	17.5	25.0	22.5	2.3	0.13	0201971
3.9	0225739	9.0	11.0	45.0	17.5	25.0	22.5	2.4	0.13	0201971

- ▢ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- 🔧 Design suitable for MQL operations available on request
- 📄 Bore for data carrier as an option

- 📄 Additional sizes and special designs available on request

- ▢ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 📄 Orificio para portador de datos como opción

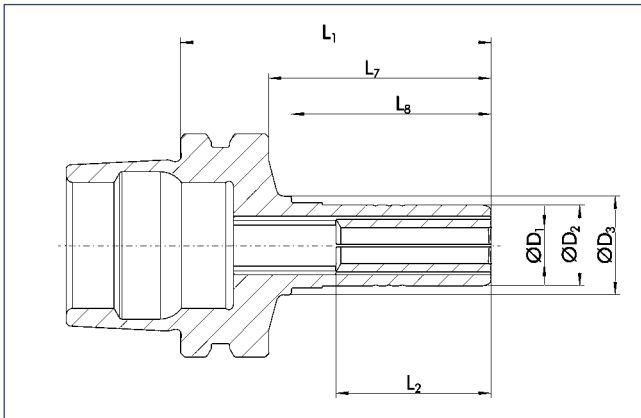
- 📄 Tamaños adicionales y diseños especiales disponibles a pedido

TRIBOS SPF-Mini HSK-E 32

for automatic tool change

TRIBOS SPF-Mini HSK-E 32

para cambio automático de herramienta



HSK



< 0.003 mm



80000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ * [mm]	L ₇ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
4.0	0205266	•	9.0	11.0	45.0	17.5	25.0	22.5	2.5	0.13	0201971
4.1	0225741		9.0	11.0	45.0	17.5	25.0	22.5	2.6	0.13	0201971
4.2	0225742		9.0	11.0	45.0	17.5	25.0	22.5	2.7	0.13	0201971
4.3	0225743		9.0	11.0	45.0	17.5	25.0	22.5	2.8	0.13	0201971
4.4	0225744		9.0	11.0	45.0	17.5	25.0	22.5	2.9	0.13	0201971
4.5	0225745		9.0	11.0	45.0	17.5	25.0	22.5	3.0	0.13	0201971
4.6	0225746		9.0	11.0	45.0	17.5	25.0	22.5	3.1	0.13	0201971
4.7	0225747		9.0	11.0	45.0	17.5	25.0	22.5	3.2	0.13	0201971
4.8	0225748		9.0	11.0	45.0	17.5	25.0	22.5	3.3	0.13	0201971
4.9	0225749		9.0	11.0	45.0	17.5	25.0	22.5	3.4	0.13	0201971
5.0	0205268	•	9.0	11.0	45.0	17.5	25.0	22.5	3.5	0.13	0201971

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

*L₂ without back stop
Without length adjustment screw
Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

*L₂ sin tope posterior
Sin tornillo de ajuste de la longitud
Tamaños adicionales y diseños especiales disponibles a pedido



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction insert SRE
see chapter accessories

Inserto de reducción SRE
consulte el capítulo sobre accesorios

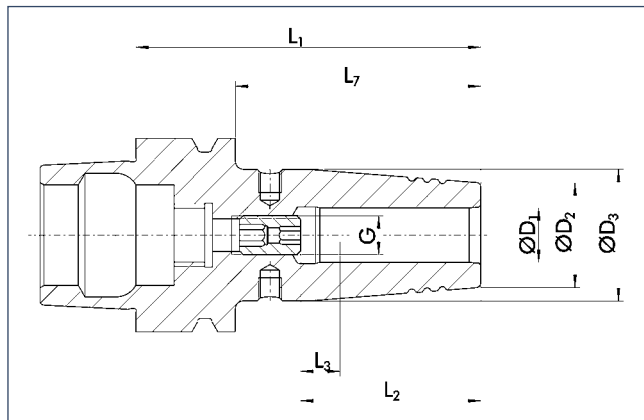


Length measuring devices
see chapter accessories

Disp. de medición de la longitud
consulte el capítulo sobre accesorios

CELSIO SSF HSK-E 32

with axial length adjustment



CELSIO SSF HSK-E 32

con ajuste de la longitud axial



<math>< 0.003 \text{ mm}</math>



25000 min⁻¹



G 2.5



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
3.0	0210140		10.0	16.0	60.0	9.0		40.0		8.0	0.1
4.0	0210141		10.0	16.0	60.0	12.0		40.0		10.0	0.1
5.0	0210142		10.0	16.0	60.0	15.0		40.0		12.0	0.1
6.0	0208290	•	21.0	27.0	70.0	36.0	10.0	50.0	M5	20.0	0.3
8.0	0208291	•	21.0	27.0	70.0	36.0	10.0	50.0	M6	52.0	0.3
10.0	0208292	•	24.0	32.0	80.0	42.0	10.0	60.0	M8x1	70.0	0.4

- Can be supplied from stock

Design suitable for MQL operations available on request

Bore for data carrier as an option

Additional sizes and special designs available on request

- Posible suministro de existencias

Diseño apto para operaciones MQL disponible a pedido

Orificio para portador de datos como opción

Tamaños adicionales y diseños especiales disponibles a pedido



Extensions

see chapter extensions

Extensiones

consulte el capítulo sobre extensiones



Shrinking unit

see chapter accessories

Unidad de compresión

consulte el capítulo sobre accesorios



Further accessories

see chapter accessories

Accesorios adicionales

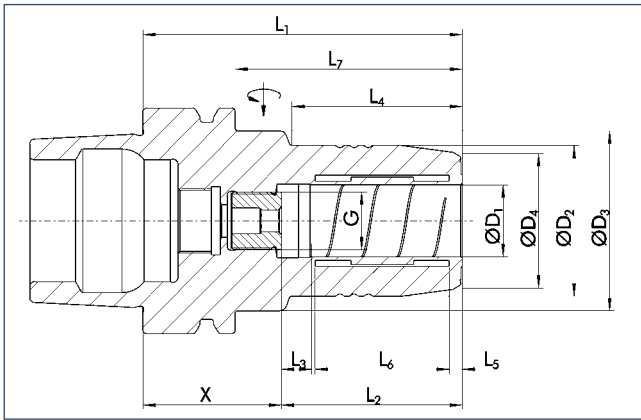
consulte el capítulo sobre accesorios

TENDO SDF HSK-E 40

with axial length adjustment
for automatic tool change

TENDO SDF HSK-E 40

con ajuste de la longitud axial
para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
1.0	≡														
2.0	≡														
3.0	≡														
4.0	≡														
5.0	≡														
6.0	0204611	26.0	33.5	22.0	33.0	70.0	37.0	10.0	36.0	3.6	20.5	50.0	M5	16.0	0.5
8.0	0204612	28.0	33.5	24.0	33.0	70.0	37.0	10.0	36.0	3.6	20.5	50.0	M6	23.0	0.5
10.0	0204613	30.0	33.5	26.0	34.0	75.0	41.0	10.0	42.0	3.6	25.5	55.0	M6	45.0	0.5
12.0	0204614	32.0	33.5	28.0	34.0	80.0	46.0	10.0	48.0	3.6	30.5	60.0	M6	90.0	0.6

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

🔧 Design suitable for MQL operations available on request
📄 Bore for data carrier as an option

📄 Additional sizes and special designs available on request

≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
• Posible suministro de existencias

🔧 Diseño apto para operaciones MQL disponible a pedido
📄 Orificio para portador de datos como opción

📄 Tamaños adicionales y diseños especiales disponibles a pedido

Intermediate sleeves
see chapter accessories
Casquillos intermedios
consulte el capítulo sobre accesorios

Sleeve remover
see chapter accessories
Extractor de casquillos
consulte el capítulo sobre accesorios

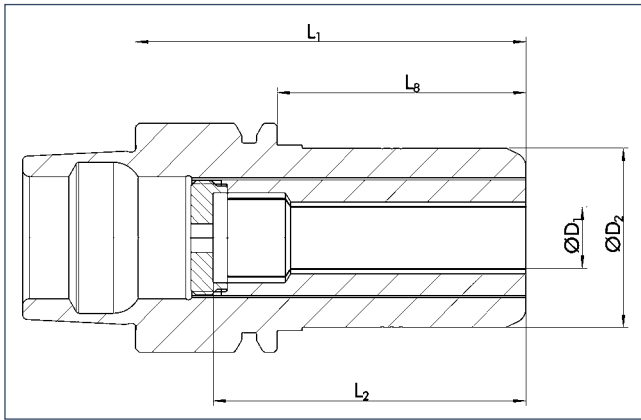
Further accessories
see chapter accessories
Accesorios adicionales
consulte el capítulo sobre accesorios

TRIBOS SPF-RM HSK-E 40

for automatic tool change

TRIBOS SPF-RM HSK-E 40

para cambio automático de herramienta



< 0.003 mm



80000 min⁻¹



25000 min⁻¹



✓



✓



✓



✓



✓

Technical data

Datos técnicos

D ₁	ID	D ₂	L ₁	L ₂	L ₈	M _{min}	m	SRE
[inch]		[mm]	[mm]	[mm]	[mm]	[Nm]	[kg]	ID
1/8"	0215020	32.0	56.0	45.0	36.0	6.0	0.41	0201894

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Very stable design for fast and precise work
- Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Diseño muy estable para trabajo rápido y preciso
- Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions

see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensiones



Clamping devices

see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction insert SRE

see chapter accessories

Inserto de reducción SRE
consulte el capítulo sobre accesorios



Length measuring devices

see chapter accessories

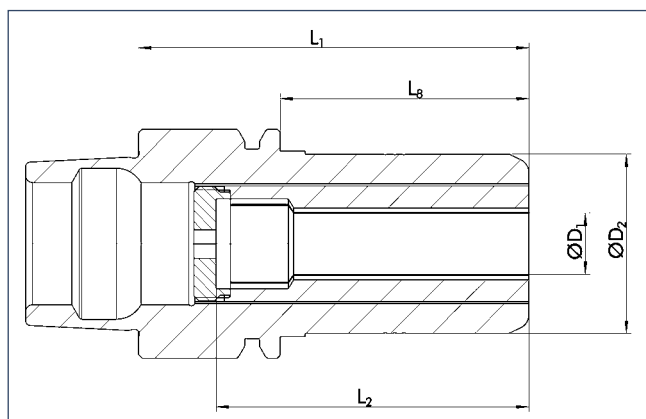
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-RM HSK-E 40

for automatic tool change

TRIBOS SPF-RM HSK-E 40

para cambio automático de herramienta



HSK



< 0.003 mm



80000 min⁻¹



25000 min⁻¹



✓



✓



✓



✓



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	L ₁ [mm]	L ₂ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
3.0	0205566	•	32.0	56.0	45.0	36.0	6.0	0.413	0201894
4.0	0205567	•	32.0	56.0	45.0	36.0	8.0	0.41	0201894
5.0	0205568		32.0	56.0	45.0	36.0	10.0	0.408	0201894
6.0	0205561	•	32.0	56.0	45.0	36.0	20.0	0.402	0201894
8.0	0205562		32.0	56.0	45.0	36.0	25.0	0.395	0201894
10.0	0205563		32.0	56.0	45.0	36.0	35.0	0.382	0201894
12.0	0205564	•	32.0	56.0	45.0	36.0	40.0	0.37	0201894
16.0	0205565		32.0	56.0	45.0	36.0	50.0	0.36	0201894

- ▢ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ▢ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore for data carrier as an option

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificio para portador de datos como opción

- 📄 Very stable design for fast and precise work
Additional sizes and special designs available on request

- 📄 Diseño muy estable para trabajo rápido y preciso
Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensiones



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction insert SRE
see chapter accessories

Inserto de reducción SRE
consulte el capítulo sobre accesorios

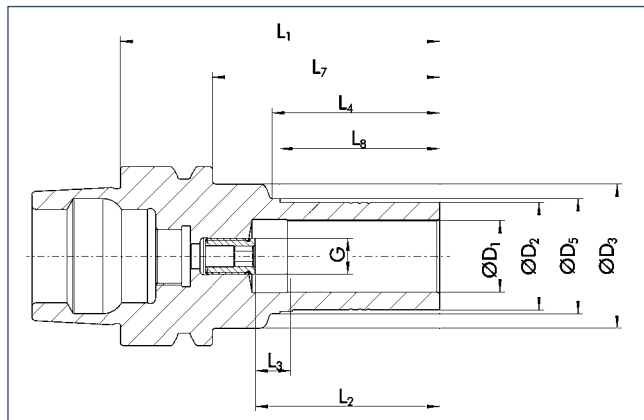


Length measuring devices
see chapter accessories

Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-S HSK-E 40

with axial length adjustment
for automatic tool change



TRIBOS SPF-S HSK-E 40

con ajuste de la longitud axial
para cambio automático de herramienta



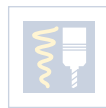
<math>< 0.003 \text{ mm}</math>



60000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	D ₅ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
6.0	0205151	•	10.0	32.0	13.0	70.0	37.0	10.0	37.2	50.0	35.0	M5	5.0	0.3	0201972
8.0	0205152	•	13.0	32.0	15.0	70.0	37.0	10.0	37.2	50.0	35.0	M6	12.0	0.3	0201973
10.0	0205153	•	16.0	32.0	18.0	80.0	42.0	10.0	42.2	60.0	40.0	M8x1	20.0	0.35	0201974
12.0	0205154	•	19.0	32.0	21.0	85.0	47.0	10.0	47.2	65.0	45.0	M8x1	30.0	0.4	0201975
14.0	0205159		22.0	33.0	24.0	85.0	47.0	10.0	47.2	65.0	45.0	M10x1	50.0	0.4	0201976
16.0	0205155	•	25.0	33.0	27.0	85.0	48.0	10.0	47.2	65.0	45.0	M10x1	70.0	0.45	0201977

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Optimal for light machine cutting – consider radial forces
- Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Óptimo para corte con máquinas ligeras; considera fuerzas radiales
- Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions

see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensiones



Clamping devices

see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts

see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios



Length measuring devices

see chapter accessories

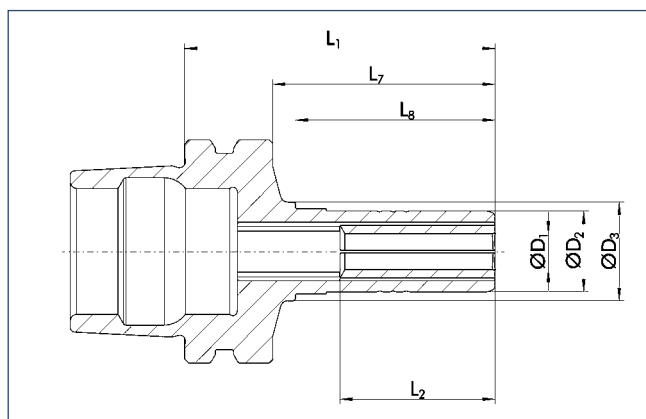
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-Mini HSK-E 40

for automatic tool change

TRIBOS SPF-Mini HSK-E 40

para cambio automático de herramienta



HSK



< 0.003 mm



60000 min⁻¹



25000 min⁻¹



✓



✓



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ * [mm]	L ₇ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
0.3	0225803	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
0.4	0225804	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
0.5	0225805	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
0.6	0225806	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
0.7	0225807	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
0.8	0225808	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
0.9	0225809	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
1.0	0225810	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
1.1	0225811	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
1.2	0225812	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
1.3	0225813	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
1.4	0225814	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
1.5	0225815	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
1.6	0225816	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
1.7	0225817	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
1.8	0225818	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971
1.9	0225819	9.0	11.0	50.0	17.5	30.0	22.5	0.23	0.23	0201971

- ☰ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ☰ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore for data carrier as an option

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificio para portador de datos como opción

📄 Additional sizes and special designs available on request

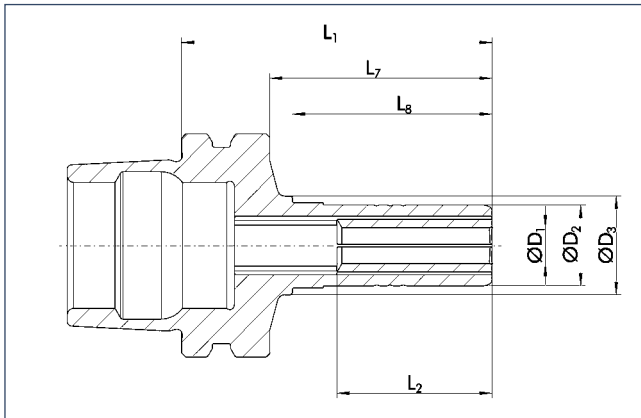
📄 Tamaños adicionales y diseños especiales disponibles a pedido

TRIBOS SPF-Mini HSK-E 40

for automatic tool change

TRIBOS SPF-Mini HSK-E 40

para cambio automático de herramienta



< 0.003 mm



60000 min⁻¹



25000 min⁻¹



✓



✓



Technical data

Datos técnicos

D ₁	ID	D ₂	D ₃	D ₅	L ₁	L ₂ *	L ₇	L ₈	M _{min}	m	SRE
[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[Nm]	[kg]	ID
2.0	0225820	9.0	11.0	9.5	50.0	17.5	30.0	22.5	0.23	0.23	0201971
2.1	0225821	9.0	11.0	9.5	50.0	17.5	30.0	22.5	0.23	0.23	0201971
2.2	0225822	9.0	11.0	9.5	50.0	17.5	30.0	22.5	0.23	0.23	0201971
2.3	0225823	9.0	11.0	9.5	50.0	17.5	30.0	22.5	0.23	0.23	0201971
2.4	0225824	9.0	11.0	9.5	50.0	17.5	30.0	22.5	0.23	0.23	0201971
2.5	0225825	9.0	11.0	9.5	50.0	17.5	30.0	22.5	0.23	0.23	0201971
2.6	0225826	9.0	11.0	9.5	50.0	17.5	30.0	22.5	0.23	0.23	0201971
2.7	0225827	9.0	11.0	9.5	50.0	17.5	30.0	22.5	0.23	0.23	0201971
2.8	0225828	9.0	11.0	9.5	50.0	17.5	30.0	22.5	0.23	0.23	0201971
2.9	0225829	9.0	11.0	9.5	50.0	17.5	30.0	22.5	0.23	0.23	0201971
3.0	0205450	9.0	11.0	9.5	50.0	17.5	30.0	22.5	1.5	0.23	0201971
3.1	0225831	9.0	11.0	9.5	50.0	17.5	30.0	22.5	1.6	0.23	0201971
3.2	0225832	9.0	11.0	9.5	50.0	17.5	30.0	22.5	1.7	0.23	0201971
3.3	0225833	9.0	11.0	9.5	50.0	17.5	30.0	22.5	1.8	0.23	0201971
3.4	0225834	9.0	11.0	9.5	50.0	17.5	30.0	22.5	1.9	0.23	0201971
3.5	0225835	9.0	11.0	9.5	50.0	17.5	30.0	22.5	2.0	0.23	0201971
3.6	0225836	9.0	11.0	9.5	50.0	17.5	30.0	22.5	2.1	0.23	0201971
3.7	0225837	9.0	11.0	9.5	50.0	17.5	30.0	22.5	2.2	0.23	0201971
3.8	0225838	9.0	11.0	9.5	50.0	17.5	30.0	22.5	2.3	0.23	0201971
3.9	0225839	9.0	11.0	9.5	50.0	17.5	30.0	22.5	2.4	0.23	0201971

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

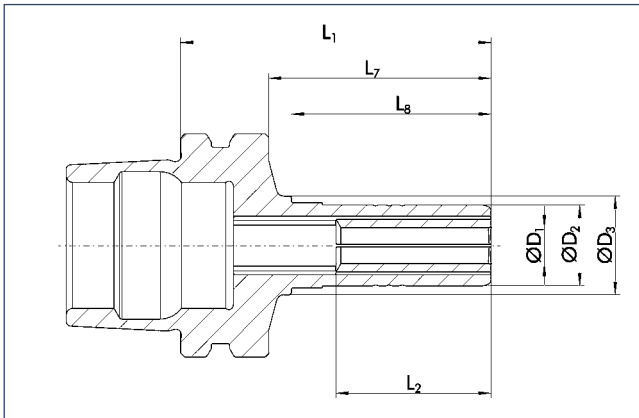
Tamaños adicionales y diseños especiales disponibles a pedido

TRIBOS SPF-Mini HSK-E 40

for automatic tool change

TRIBOS SPF-Mini HSK-E 40

para cambio automático de herramienta



HSK



< 0.003 mm



60000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	D ₅ [mm]	L ₁ [mm]	L ₂ * [mm]	L ₇ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
4.0	0205456	•	9.0	11.0	9.5	50.0	17.5	30.0	22.5	2.5	0.23	0201971
4.1	0225841		9.0	11.0	9.5	50.0	17.5	30.0	22.5	2.6	0.23	0201971
4.2	0225842		9.0	11.0	9.5	50.0	17.5	30.0	22.5	2.7	0.23	0201971
4.3	0225843		9.0	11.0	9.5	50.0	17.5	30.0	22.5	2.8	0.23	0201971
4.4	0225844		9.0	11.0	9.5	50.0	17.5	30.0	22.5	2.9	0.23	0201971
4.5	0225845		9.0	11.0	9.5	50.0	17.5	30.0	22.5	3.0	0.23	0201971
4.6	0225846		9.0	11.0	9.5	50.0	17.5	30.0	22.5	3.1	0.23	0201971
4.7	0225847		9.0	11.0	9.5	50.0	17.5	30.0	22.5	3.2	0.23	0201971
4.8	0225848		9.0	11.0	9.5	50.0	17.5	30.0	22.5	3.3	0.23	0201971
4.9	0225849		9.0	11.0	9.5	50.0	17.5	30.0	22.5	3.4	0.23	0201971
5.0	0205458	•	9.0	11.0	9.5	50.0	17.5	30.0	22.5	3.5	0.23	0201971

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

*L₂ without back stop
Without length adjustment screw
Additional sizes and special designs available on request

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

*L₂ sin tope posterior
Sin tornillo de ajuste de la longitud
Tamaños adicionales y diseños especiales disponibles a pedido



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction insert SRE
see chapter accessories

Inserto de reducción SRE
consulte el capítulo sobre accesorios

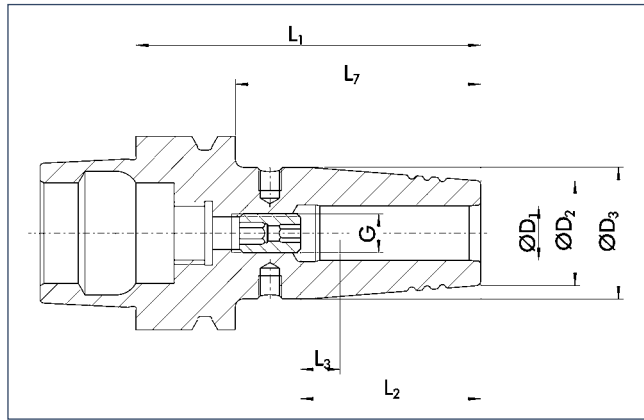


Length measuring devices
see chapter accessories

Disp. de medición de la longitud
consulte el capítulo sobre accesorios

CELSIO SSF HSK-E 40

with axial length adjustment



CELSIO SSF HSK-E 40

con ajuste de la longitud axial



< 0.003 mm



25000 min⁻¹



25000 min⁻¹



Technical data

D ₁	ID	D ₂	D ₃	L ₁	L ₂	L ₃	L ₇	G	M _{min}	m
[inch]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[Nm]	[kg]
1/8"	0210150	10.0	16.0	60.0	9.0		40.0		8.0	0.2
3/16"	0210151	10.0	16.0	60.0	15.0		40.0		12.0	0.2
1/4"	0210152	21.0	27.0	80.0	36.0	10.0	60.0	M5	20.0	0.4
5/16"	0210153	21.0	27.0	80.0	36.0	10.0	60.0	M6	52.0	0.4
3/8"	0210154	24.0	32.0	80.0	42.0	10.0	60.0	M8x1	70.0	0.4
7/16"	0210155	24.0	32.0	80.0	42.0	10.0	60.0	M8x1	150.0	0.5
1/2"	0210156	24.0	32.0	90.0	47.0	10.0	70.0	M10x1	150.0	0.5
5/8"	0210157	27.0	34.0	90.0	50.0	10.0	70.0	M12x1	300.0	0.5

Datos técnicos

- Can be supplied from stock

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Additional sizes and special designs available on request

- Posible suministro de existencias

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Tamaños adicionales y diseños especiales disponibles a pedido



Extensions

see chapter extensions

Extensiones

consulte el capítulo sobre extensiones



Shrinking unit

see chapter accessories

Unidad de compresión

consulte el capítulo sobre accesorios



Further accessories

see chapter accessories

Accesorios adicionales

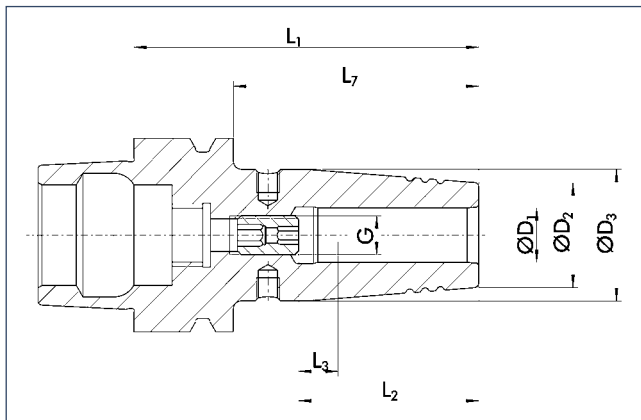
consulte el capítulo sobre accesorios

CELSIO SSF HSK-E 40

with axial length adjustment

CELSIO SSF HSK-E 40

con ajuste de la longitud axial



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
3.0	0210143	•	10.0	16.0	60.0	9.0		40.0		8.0	0.2
4.0	0210144	•	10.0	16.0	60.0	12.0		40.0		10.0	0.2
5.0	0210145	•	10.0	16.0	60.0	15.0		40.0		12.0	0.2
6.0	0208300	•	21.0	27.0	80.0	36.0	10.0	60.0	M5	20.0	0.4
8.0	0208301	•	21.0	27.0	80.0	36.0	10.0	60.0	M6	52.0	0.4
10.0	0208302	•	24.0	32.0	80.0	42.0	10.0	60.0	M8x1	70.0	0.4
12.0	0208303	•	24.0	32.0	90.0	47.0	10.0	70.0	M10x1	150.0	0.5
14.0	0208304	•	27.0	34.0	90.0	47.0	10.0	70.0	M10x1	180.0	0.5
16.0	0208305	•	27.0	34.0	90.0	50.0	10.0	70.0	M12x1	300.0	0.5

• Can be supplied from stock

• Posible suministro de existencias

Design suitable for MQL operations available on request

Diseño apto para operaciones MQL disponible a pedido

Bore for data carrier as an option

Orificio para portador de datos como opción

Additional sizes and special designs available on request

Tamaños adicionales y diseños especiales disponibles a pedido



Extensions
see chapter extensions

Extensiones
consulte el capítulo sobre extensiones



Shrinking unit
see chapter accessories

Unidad de compresión
consulte el capítulo sobre accesorios

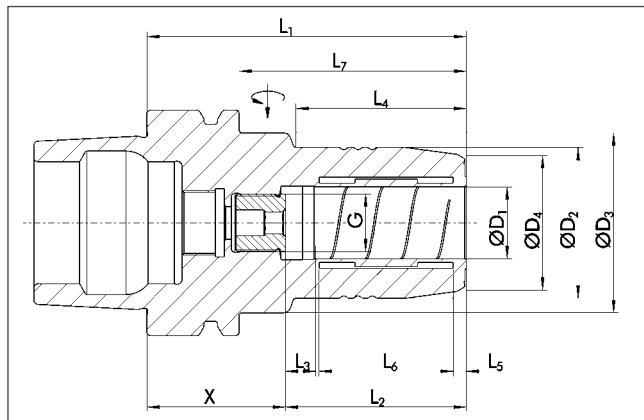


Further accessories
see chapter accessories

Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF HSK-E 50

with axial length adjustment
for automatic tool change



TENDO SDF HSK-E 50

con ajuste de la longitud axial
para cambio automático de herramienta



< 0.003 mm



50000 min⁻¹



25000 min⁻¹



✓



✓



✓



✓



✓

Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
1.0	≡														
2.0	≡														
3.0	≡														
4.0	≡														
5.0	≡														
6.0	0204470	26.0	40.0	22.0	33.0	70.0	37.0	10.0	28.0	3.6	20.5	44.0	M5	16.0	0.7
8.0	0204471	28.0	40.0	24.0	33.0	70.0	37.0	10.0	28.0	3.6	20.5	44.0	M6	23.0	0.7
10.0	0204472	30.0	40.0	26.0	34.0	75.0	41.0	10.0	34.0	3.6	25.5	49.0	M8x1	45.0	0.7
12.0	0204473	• 32.0	40.0	28.0	39.0	85.0	46.0	10.0	44.0	3.6	30.5	59.0	M10x1	90.0	0.8
16.0	0204474	38.0	53.0	34.0	41.0	90.0	49.0	10.0	30.0	3.6	35.0	64.0	M12x1	185.0	1.0
20.0	0204475	42.0	60.0	38.0	39.0	90.0	51.0	10.0	29.0	3.7	37.8	64.0	M16x1	330.0	1.1

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore for data carrier as an option

- 📄 Additional sizes and special designs available on request

- ≡ Se puede sujetar con casquillos intermedios, posibles dimensiones intermedias
- Posible suministro de existencias

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificio para portador de datos como opción

- 📄 Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves

see chapter accessories

Casquillos intermedios

consulte el capítulo sobre accesorios



Sleeve remover

see chapter accessories

Extractor de casquillos

consulte el capítulo sobre accesorios



Further accessories

see chapter accessories

Accesorios adicionales

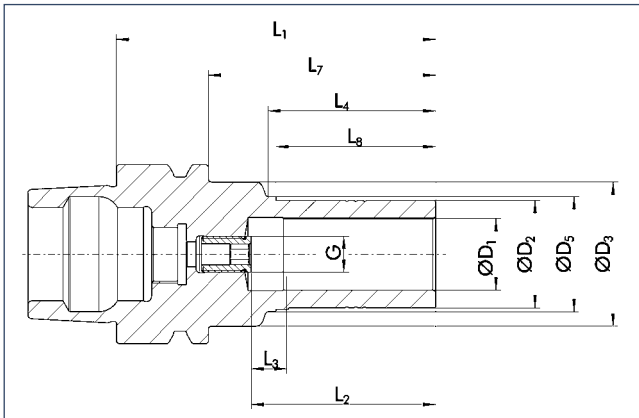
consulte el capítulo sobre accesorios

TRIBOS SPF-S HSK-E 50

with axial length adjustment
for automatic tool change

TRIBOS SPF-S HSK-E 50

con ajuste de la longitud axial
para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	D ₅ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
6.0	0205161	•	10.0	40.0	13.0	75.0	37.0	10.0	37.0	49.0	35.0	M5	5.0	0.5	0201972
8.0	0205162	•	13.0	40.0	15.0	75.0	37.0	10.0	37.0	49.0	35.0	M6	12.0	0.5	0201973
10.0	0205163	•	16.0	40.0	18.0	80.0	42.0	10.0	42.0	54.0	40.0	M8x1	20.0	0.5	0201974
12.0	0205164	•	19.0	40.0	21.0	85.0	47.0	10.0	47.0	59.0	45.0	M8x1	30.0	0.55	0201975
14.0	0205169		22.0	40.0	24.0	85.0	47.0	10.0	47.0	59.0	45.0	M10x1	50.0	0.6	0201976
16.0	0205165		25.0	40.0	27.0	85.0	48.0	10.0	47.0	59.0	45.0	M10x1	70.0	0.65	0201977
18.0	0205160		28.0	40.0	30.0	85.0	48.0	10.0	47.0	59.0	45.0	M10x1	100.0	0.65	0201979
20.0	0205166	•	30.0	40.0	32.0	90.0	52.0	10.0	47.0	64.0	45.0	M10x1	150.0	0.7	0201981

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ≡ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Design suitable for MQL operations available on request
- 📄 Bore for data carrier as an option

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 📄 Orificio para portador de datos como opción

- 📄 Optimal for light machine cutting – consider radial forces
Additional sizes and special designs available on request

- 📄 Óptimo para corte con máquinas ligeras; considera fuerzas radiales
Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensiones



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios

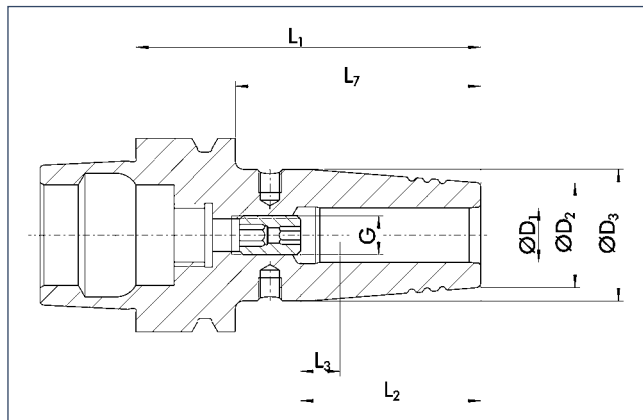


Length measuring devices
see chapter accessories

Disp. de medición de la longitud
consulte el capítulo sobre accesorios

CELSIO SSF HSK-E 50

with axial length adjustment



CELSIO SSF HSK-E 50

con ajuste de la longitud axial



< 0.003 mm



25000 min⁻¹



25000 min⁻¹



✓



✓



Technical data

D ₁ [inch]	ID	D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
1/8"	0210158	10.0	16.0	60.0	9.0		34.0		8.0	0.4
3/16"	0210159	10.0	16.0	60.0	15.0		34.0		12.0	0.4
1/4"	0210160	21.0	27.0	80.0	36.0	10.0	54.0	M5	20.0	0.7
5/16"	0210161	21.0	27.0	80.0	36.0	10.0	54.0	M6	52.0	0.7
3/8"	0210162	24.0	32.0	85.0	42.0	10.0	59.0	M8x1	70.0	0.8
7/16"	0210163	24.0	32.0	85.0	47.0	10.0	59.0	M8x1	150.0	0.8
1/2"	0210164	24.0	32.0	90.0	47.0	10.0	64.0	M10x1	150.0	0.8
5/8"	0210165	27.0	34.0	95.0	50.0	10.0	69.0	M12x1	300.0	0.9

Datos técnicos

- ☰ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore for data carrier as an option

- 📄 Additional sizes and special designs available on request

- ☰ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificio para portador de datos como opción

- 📄 Tamaños adicionales y diseños especiales disponibles a pedido



Extensions

see chapter extensions

Extensiones

consulte el capítulo sobre extensiones



Shrinking unit

see chapter accessories

Unidad de compresión

consulte el capítulo sobre accesorios



Further accessories

see chapter accessories

Accesorios adicionales

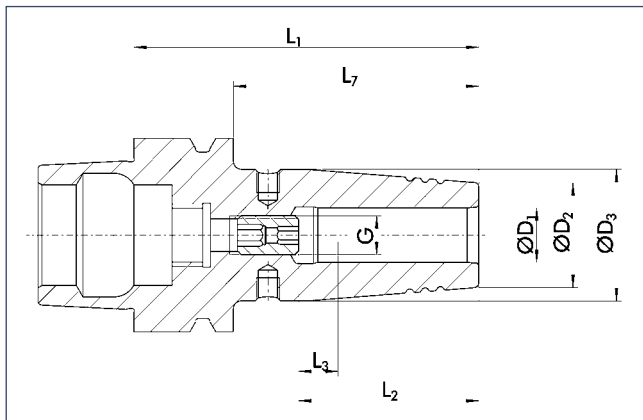
consulte el capítulo sobre accesorios

CELSIO SSF HSK-E 50

with axial length adjustment

CELSIO SSF HSK-E 50

con ajuste de la longitud axial



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₇ [mm]	G	M _{min} [Nm]	m [kg]
3.0	0210146	•	10.0	16.0	60.0	9.0		34.0		8.0	0.4
4.0	0210147	•	10.0	16.0	60.0	12.0		34.0		10.0	0.4
5.0	0210148	•	10.0	16.0	60.0	15.0		34.0		12.0	0.4
6.0	0208310	•	21.0	27.0	80.0	36.0	10.0	54.0	M5	20.0	0.7
8.0	0208311	•	21.0	27.0	80.0	36.0	10.0	54.0	M6	52.0	0.7
10.0	0208312	•	24.0	32.0	85.0	42.0	10.0	59.0	M8x1	70.0	0.8
12.0	0208313	•	24.0	32.0	90.0	47.0	10.0	64.0	M10x1	150.0	0.8
14.0	0208314	•	27.0	34.0	90.0	47.0	10.0	64.0	M10x1	180.0	0.9
16.0	0208315	•	27.0	34.0	95.0	50.0	10.0	69.0	M12x1	300.0	0.9

• Can be supplied from stock

• Posible suministro de existencias

Design suitable for MQL operations available on request

Diseño apto para operaciones MQL disponible a pedido

Bore for data carrier as an option

Orificio para portador de datos como opción

Additional sizes and special designs available on request

Tamaños adicionales y diseños especiales disponibles a pedido



Extensions
see chapter extensions

Extensiones
consulte el capítulo sobre extensiones



Shrinking unit
see chapter accessories

Unidad de compresión
consulte el capítulo sobre accesorios

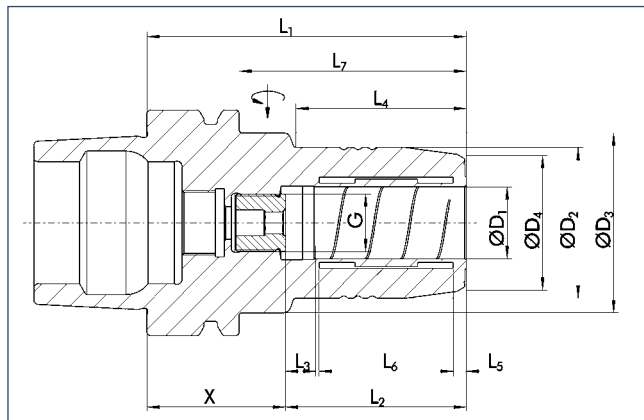


Further accessories
see chapter accessories

Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF HSK-E 63

with axial length adjustment
for automatic tool change



TENDO SDF HSK-E 63

con ajuste de la longitud axial
para cambio automático de herramienta



<math>< 0.003 \text{ mm}</math>



50000 min⁻¹



25000 min⁻¹



✓



✓



✓



✓



✓

Technical data

Datos técnicos

D ₁	ID	D ₂	D ₃	D ₄	X	L ₁	L ₂	L ₃	L ₄	L ₅	L ₆	L ₇	G	M _{min}	m
[mm]		[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[Nm]	[kg]
1.0	≡														
2.0	≡														
3.0	≡														
4.0	≡														
5.0	≡														
6.0	0204921	26.0	50.0	22.0	33.0	70.0	37.0	10.0	24.0	3.6	20.5	44.0	M5	16.0	1.1
8.0	0204922	28.0	50.0	24.0	33.0	70.0	37.0	10.0	24.0	3.6	20.5	44.0	M6	23.0	1.1
10.0	0204923	30.0	50.0	26.0	39.0	80.0	41.0	10.0	35.0	3.6	25.5	54.0	M8x1	45.0	1.1
12.0	0204924	32.0	50.0	28.0	39.0	85.0	46.0	10.0	40.0	3.6	30.5	59.0	M10x1	90.0	1.2
14.0	0204929	34.0	50.0	30.0	39.0	85.0	46.0	10.0	40.0	3.6	30.5	59.0	M10x1	110.0	1.2
16.0	0204925	38.0	50.0	34.0	41.0	90.0	49.0	10.0	46.0	3.6	35.0	64.0	M12x1	185.0	1.3
18.0	0204920	40.0	50.0	36.0	41.0	90.0	49.0	10.0	47.0	3.6	35.0	64.0	M12x1	240.0	1.3
20.0	0204926	42.0	50.0	38.0	39.0			10.0		3.7	37.8		M16x1	330.0	1.3
25.0	0204927	57.0	63.0	53.0	63.0	120.0	57.0	10.0	59.0	4.2	42.3	94.0	M16x1	400.0	2.3
32.0	0204928	64.0	75.0	60.0	64.0	125.0	61.0	10.0	63.0	4.2	47.7	99.0	M16x1	650.0	2.8

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore for data carrier as an option

- 📄 Additional sizes and special designs available on request

Intermediate sleeves
see chapter accessories



Casquillos intermedios
consulte el capítulo sobre accesorios



Sleeve remover
see chapter accessories

Extractor de casquillos
consulte el capítulo sobre accesorios

- ≡ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificio para portador de datos como opción

- 📄 Tamaños adicionales y diseños especiales disponibles a pedido



Further accessories
see chapter accessories

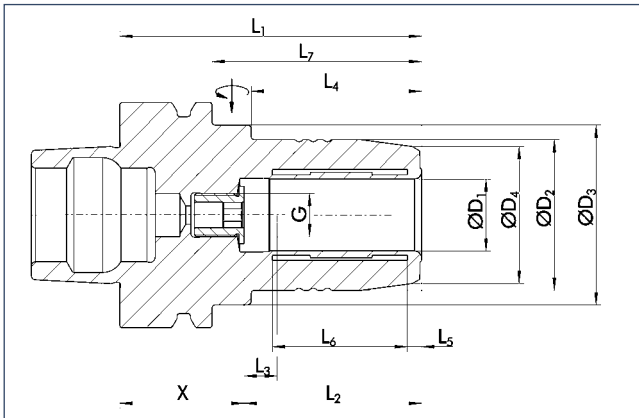
Accesorios adicionales
consulte el capítulo sobre accesorios

TENDO SDF HSK-F 63

with axial length adjustment
for automatic tool change

TENDO SDF HSK-F 63

con ajuste de la longitud axial
para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₄ [mm]	X [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	G	m [kg]
3.0	≡													
4.0	≡													
5.0	≡													
6.0	≡													
8.0	20017758	28.0	50.0	24.0	33.0	70.0	37.0	10.0	25.0	3.6	20.5	44.0	M6	1.0
10.0	20017759	30.0	50.0	26.0	39.0	81.5	42.5	10.0	35.0	3.6	25.5	55.5	M8x1	1.0
12.0	20029674	32.0	50.0	28.0	39.0	85.0	46.0	10.0	40.0	3.6	30.5	40.0	M6	1.1
12.0	20017760	32.0	50.0	28.0	39.0	85.0	46.0	10.0	25.0	3.6	30.5	59.0	M10x1	1.1
14.0	≡													
16.0	≡													
20.0	20029815	42.0	50.0	45.0	35.0	85.0	50.0	7.0	48.0	3.7	37.8	59.0	M12x1	1.3
20.0	20028646	42.0	50.0	37.5	35.0	85.0	50.0	7.0	48.0	3.7	37.8	59.0	M12x1	1.3
25.0	20028647	50.0		45.0	33.0	85.0	52.0			4.2	42.3	59.0		1.8

≡ Additional sizes can be clamped with intermediate sleeves
• Can be supplied from stock

☑ Design suitable for MQL operations available on request
☑ Bore for data carrier as an option

ℹ Additional sizes and special designs available on request

≡ Para sujetar con casquillos intermedios
• Posible suministro de existencias

☑ Diseño apto para operaciones MQL disponible a pedido
☑ Orificio para portador de datos como opción

ℹ Tamaños adicionales y diseños especiales disponibles a pedido

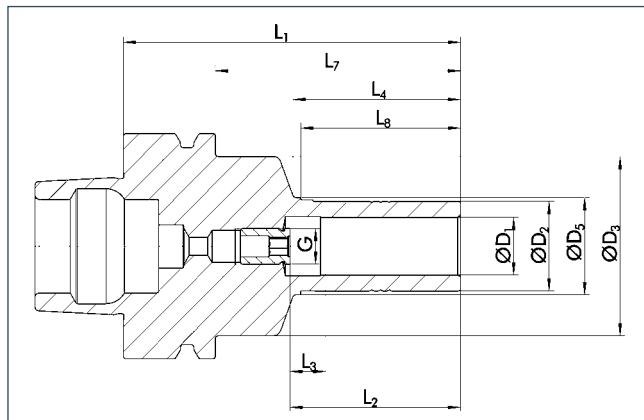
Intermediate sleeves
see chapter accessories
Casquillos intermedios
consulte el capítulo sobre accesorios

Sleeve remover
see chapter accessories
Extractor de casquillos
consulte el capítulo sobre accesorios

Further accessories
see chapter accessories
Accesorios adicionales
consulte el capítulo sobre accesorios

TRIBOS SPF-S HSK-F 63

with axial length adjustment
for automatic tool change



TRIBOS SPF-S HSK-F 63

con ajuste de la longitud axial
para cambio automático de herramienta



< 0.003 mm



42000 min⁻¹



25000 min⁻¹



✓



✓



Technical data

Datos técnicos

D ₁ [inch]	ID	D ₂ [mm]	D ₃ [mm]	D ₅ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
1/8"	≡													
3/16"	≡													
1/4"	25000431	10.3	50.0	13.0	80.0	37.0	10.0	37.0	54.0	35.0	M5	6.0	0.6	0201988
5/16"	≡													
3/8"	25000433	15.0	50.0	17.0	85.0	42.0	10.0	42.0	59.0	40.0	M8x1	20.0	0.65	0201989
7/16"	≡													
1/2"	25000434	20.0	50.0	22.0	90.0	47.0	10.0	47.0	64.0	45.0	M8x1	40.0	0.65	0201991
9/16"	≡													
5/8"	25000435	25.0	50.0	27.0	95.0	48.0	10.0	47.0	69.0	45.0	M10x1	70.0	0.7	0201977
3/4"	25000436	29.0	50.0	31.0	95.0	52.0	10.0	47.0	69.0	45.0	M10x1	120.0	0.7	0201992

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ☑ Design suitable for MQL operations available on request
- ☑ Bore for data carrier as an option

- ℹ Additional sizes and special designs available on request

- ≡ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- ☑ Diseño apto para operaciones MQL disponible a pedido
- ☑ Orificio para portador de datos como opción

- ℹ Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensiones



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios



Length measuring devices
see chapter accessories

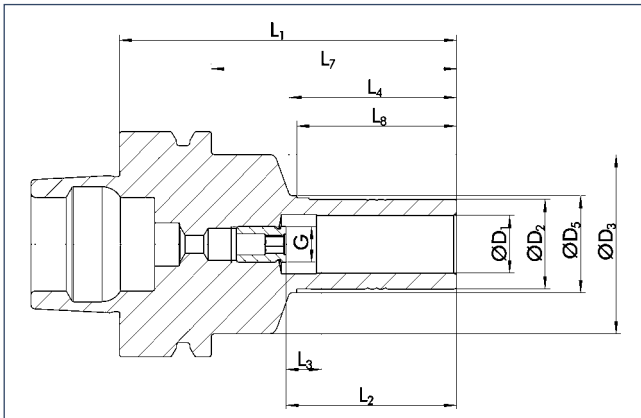
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-S HSK-F 63

with axial length adjustment
for automatic tool change

TRIBOS SPF-S HSK-F 63

con ajuste de la longitud axial
para cambio automático de herramienta



HSK



< 0.003 mm



42000 min⁻¹



25000 min⁻¹



✓



✓



Technical data

Datos técnicos

D ₁ [mm]	ID	D ₂ [mm]	D ₃ [mm]	D ₅ [mm]	L ₁ [mm]	L ₂ [mm]	L ₃ [mm]	L ₄ [mm]	L ₇ [mm]	L ₈ [mm]	G	M _{min} [Nm]	m [kg]	SRE ID
6.0	0203341	10.0	50.0	13.0	80.0	37.0	10.0	37.0	54.0	35.0	M5	5.0	0.65	0201972
8.0	0203342	13.0	50.0	15.0	80.0	37.0	10.0	37.0	54.0	35.0	M6	12.0	0.65	0201973
10.0	0203343	16.0	50.0	18.0	85.0	42.0	10.0	42.0	59.0	40.0	M8x1	20.0	0.7	0201974
12.0	0203344	19.0	50.0	21.0	90.0	47.0	10.0	47.0	64.0	45.0	M8x1	30.0	0.75	0201975
16.0	0203345	25.0	50.0	27.0	95.0	48.0	10.0	47.0	69.0	45.0	M10x1	70.0	0.8	0201977
20.0	0203346	30.0	50.0	32.0	100.0	52.0	10.0	47.0	74.0	45.0	M10x1	150.0	1.0	0201981

- ☰ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- ☰ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore for data carrier as an option

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificio para portador de datos como opción

- 📄 Additional sizes and special designs available on request

- 📄 Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensiones



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios

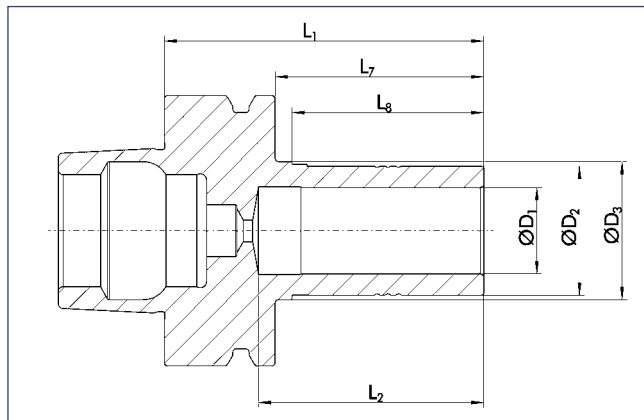


Length measuring devices
see chapter accessories

Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-S HSK-F 63 short

for automatic tool change



TRIBOS SPF-S HSK-F 63 corto

para cambio automático de herramienta



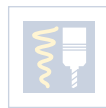
< 0.003 mm



42000 min⁻¹



25000 min⁻¹



✓



✓



Technical data

Datos técnicos

D ₁ [inch]	ID	D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₇ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
1/8"	≡									
3/16"	≡									
1/4"	25001000	10.3	13.0	70.0	38.5	44.0	35.0	6.0	0.6	0201988
5/16"	≡									
3/8"	25001001	15.0	17.0	75.0	43.5	49.0	40.0	20.0	0.65	0201989
7/16"	≡									
1/2"	25000673	20.0	22.0	75.0	48.5	49.0	45.0	40.0	0.65	0201991
9/16"	≡									
5/8"	25001408	25.0	27.0	75.0	49.4	49.0	45.0	70.0	0.7	0201977
3/4"	25000709	29.0	31.0	75.0	52.9	49.0	45.0	120.0	0.7	0201992
1"	25001469	36.5	38.0	75.0	55.0	49.0	45.0	200.0	0.75	0201993

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- 🔧 Design suitable for MQL operations available on request
- 🔧 Bore for data carrier as an option

- 📄 Optimal for light machine cutting – consider radial forces
Caution: For clamping diameter 25 mm please use reduction inserts for O.D. 35 mm.
Additional sizes and special designs available on request

- ≡ Para sujetar con casquillos intermedios
- Posible suministro de existencias

- 🔧 Diseño apto para operaciones MQL disponible a pedido
- 🔧 Orificio para portador de datos como opción

- 📄 Óptimo para corte con máquinas ligeras; considera fuerzas radiales
Precaución: Para el diámetro de sujeción de 25 mm, use insertos de reducción para el diámetro exterior de 35 mm.
Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions

see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensiones



Clamping devices

see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts

see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios



Length measuring devices

see chapter accessories

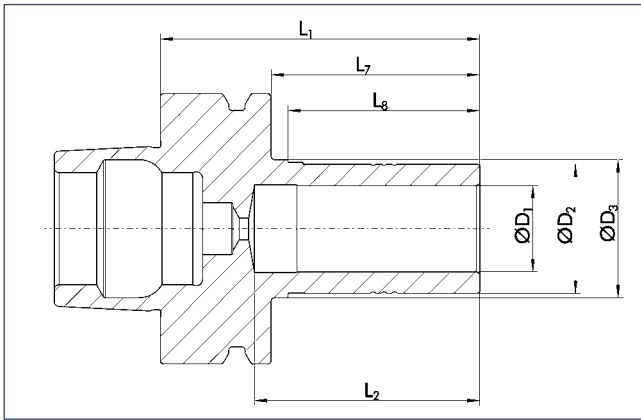
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

TRIBOS SPF-S HSK-F 63 short

for automatic tool change

TRIBOS SPF-S HSK-F 63 corto

para cambio automático de herramienta



HSK



< 0.003 mm



42000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₇ [mm]	L ₈ [mm]	M _{min} [Nm]	m [kg]	SRE ID
12.0	25000132	•	19.0	21.0	75.0	48.5	49.0	45.0	30.0	0.65	0201975
16.0	25000558	•	25.0	27.0	75.0	49.0	49.0	45.0	70.0	0.7	0201977
20.0	25000133	•	30.0	32.0	75.0	53.0	49.0	45.0	150.0	0.7	0201981
25.0	25000459	•	35.0	37.0	75.0	55.0	49.0	40.0	200.0	0.75	0201982

- Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

- Para sujetar con casquillos intermedios
- Posible suministro de existencias

- Design suitable for MQL operations available on request
- Bore for data carrier as an option

- Diseño apto para operaciones MQL disponible a pedido
- Orificio para portador de datos como opción

- Optimal for light machine cutting — consider radial forces
Caution: For clamping diameter 25 mm please use reduction inserts for O.D. 35 mm.
Additional sizes and special designs available on request

- Óptimo para corte con máquinas ligeras; considera fuerzas radiales
Precaución: Para el diámetro de sujeción de 25 mm, use insertos de reducción para el diámetro exterior de 35 mm.
Tamaños adicionales y diseños especiales disponibles a pedido



Tool extensions
see chapter extensions

Extensiones de herramientas
consulte el capítulo sobre extensiones



Clamping devices
see chapter accessories

Dispositivos de sujeción
consulte el capítulo sobre accesorios



Reduction inserts
see chapter accessories

Insertos de reducción
consulte el capítulo sobre accesorios



Length measuring devices
see chapter accessories

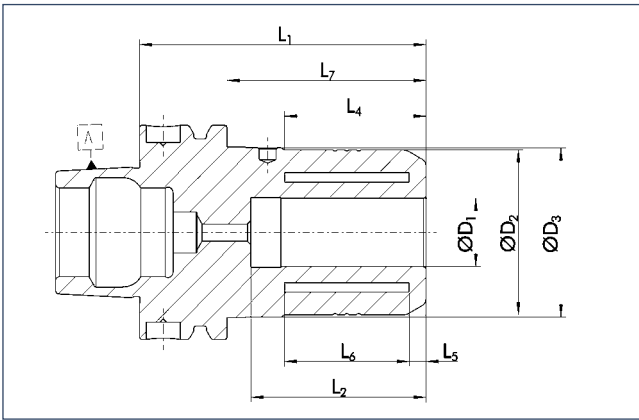
Disp. de medición de la longitud
consulte el capítulo sobre accesorios

SINO-R HSK-F 63

for automatic tool change

SINO-R HSK-F 63

para cambio automático de herramienta



≤ 0.005 mm



40.000 min⁻¹



25000 min⁻¹



Technical data

Datos técnicos

D ₁	ID		D ₂	D ₃	L ₁	L ₂	L ₄	L ₅	L ₆	L ₇	M _{min}	m
[inch]			[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[Nm]	[kg]
1/8"	≡											
3/16"	≡											
1/4"	≡											
5/16"	≡											
3/8"	≡											
7/16"	≡											
1/2"	0209662	•	39.0	44.9	80.0	47.0	34.0	5.0	32.0	54.0	130.0	1.2
9/16"	≡											
5/8"	≡											
3/4"	0209664	•	48.0	50.15	85.0	52.0	42.0	5.0	37.0	59.0	390.0	1.3
1"	0209665	•	48.5	50.15	85.0	58.0	36.0	4.0	38.0	59.0	500.0	1.5

- ≡ Additional sizes can be clamped with intermediate sleeves
- Can be supplied from stock

☐ Bore for data carrier as an option

ℹ Additional sizes and special designs available on request

- ≡ Para sujetar con casquillos intermedios
- Posible suministro de existencias

☐ Orificio para portador de datos como opción

ℹ Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves
see chapter accessories

Casquillos intermedios
consulte el capítulo sobre accesorios



Spanner wrenches
see chapter accessories

Llaves de apriete
consulte el capítulo sobre accesorios



"C"-spanners
see chapter accessories

Llaves de gancho
consulte el capítulo sobre accesorios



Sleeve remover
see chapter accessories

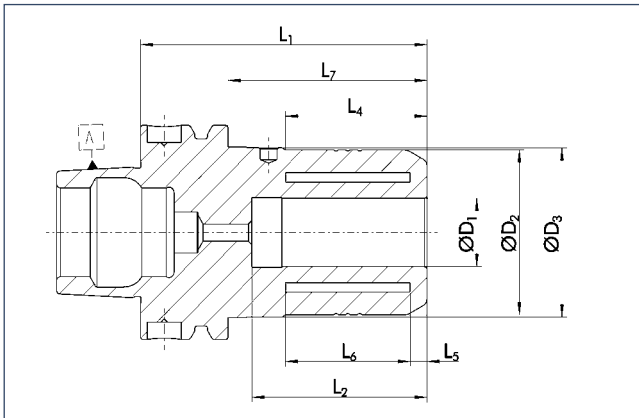
Extractor de casquillos
consulte el capítulo sobre accesorios

SINO-R HSK-F 63

for automatic tool change

SINO-R HSK-F 63

para cambio automático de herramienta



HSK



Technical data

Datos técnicos

D ₁ [mm]	ID		D ₂ [mm]	D ₃ [mm]	L ₁ [mm]	L ₂ [mm]	L ₄ [mm]	L ₅ [mm]	L ₆ [mm]	L ₇ [mm]	M _{min} [Nm]	m [kg]
6.0	≡											
8.0	≡											
10.0	≡											
12.0	0209653	•	39.0	44.9	80.0	47.0	34.0	5.0	32.0	54.0	120.0	1.15
14.0	≡											
16.0	0209655	•	48.5	50.15	85.0	50.0	42.0	5.0	37.0	59.0	310.0	1.25
20.0	0209657	•	48.5	50.15	85.0	52.0	42.0	5.0	37.0	59.0	400.0	1.35
25.0	0209658	•	48.5	50.15	85.0	58.0	36.0	4.0	38.0	59.0	500.0	1.35

≡ Additional sizes can be clamped with intermediate sleeves
 • Can be supplied from stock

≡ Para sujetar con casquillos intermedios
 • Posible suministro de existencias

Ⓞ Bore for data carrier as an option

Ⓞ Orificio para portador de datos como opción

i Additional sizes and special designs available on request

i Tamaños adicionales y diseños especiales disponibles a pedido



Intermediate sleeves
see chapter accessories

Casquillos intermedios
consulte el capítulo sobre accesorios



Spanner wrenches
see chapter accessories

Llaves de apriete
consulte el capítulo sobre accesorios



"C"-spanners
see chapter accessories

Llaves de gancho
consulte el capítulo sobre accesorios



Sleeve remover
see chapter accessories

Extractor de casquillos
consulte el capítulo sobre accesorios