

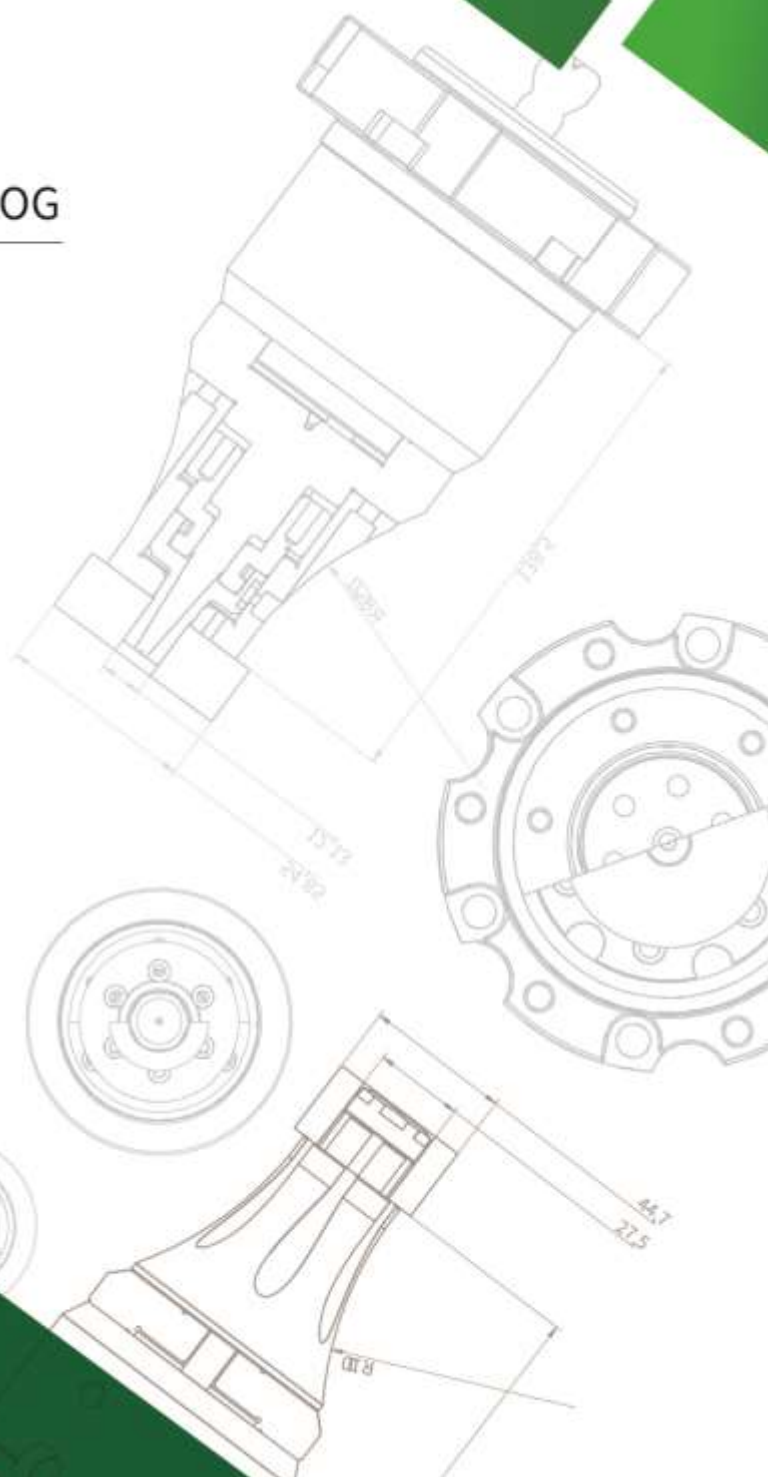
雋業有限公司

Grand-**E**-Light

HIGHER PRECISION
BETTER MEMORY
HIGHER TEMPERATURE
LONG LIFE

STANDARD CLAMPING TOOLS CATALOG

ELASTIC COLLET





GEL COLLETS

TODAY'S PRECISION TOMORROW'S POPULATION

Market leading.

Better shape memory.

Higher temperature.

Longer life.

Did you feel that the workpiece is failing and it is annoying?

Did you spend a lot of time adjusting?

Processing can be simple.

Let GEL make your product market leading.

CLAMPING

is more important than you thought

TABLE OF CONTENTS STANDARD CLAMPING DEVICES

Workpiece clamping

CLAMPING HEADS FOR MULTI-SPINDLES

CLAMPING HEADS	p.01
CHANGING FIXTURES FOR CLAMPING HEADS	p.06
TYPE KSKF POWER-OPERATED COLLET CHUCKS	p.07
KSKF KSKF DRAWBACK COLLET CHUCK WITH THROUGH-HOLE	p.08
KSKF-A KSKF-A DRAWBACK COLLET CHUCK WITH RIGID AXIAL STOP	p.09
KSKF-AF KSKF-AF FIXED CLAMPING HEAD	p.10
INTERMEDIATE FLANGES	p.11
EXCHANGEABLE RUBBER INSERTS	p.12
MSKZ TYPE MSKZ MANUAL CLAMPING UNITS	p.13

SEGMENTED CLAMPING MANDRELS

SVZ TYPE SVZ	
SVZ TYPE SVZ SEGMENTED CLAMPING SLEEVES	p.15-16
KSVZ TYPE KSVZ	p.15-16
SVD TYPE SVD	
SVD TYPE SVD SEGMENTED CLAMPING SLEEVES	p.17-18
KSVD TYPE KSVD	p.17-18



HYD Hydraulically Operated Expanding Systems HYD	p.19-20
HYD Hydraulic Expanding Mandrel HYD	p.21-23
HYD Hydraulic Expanding Chuck HYD	p.23-24
UniERclamp	p.25-26
HYD-UniERclamp	p.27-28



CLAMPING HEADS FOR MULTI-SPINDLES

CLAMPING HEADS

Use

for workpiece clamping
for bar or chuck work
for standard chucks

Patterns

long version
short version
unhardened bore and plane surface

Bore patterns

(G) smooth
(Q) with round grooves
(LQ) serrated
(W) unhardened, ca 42 HRC



G



Q

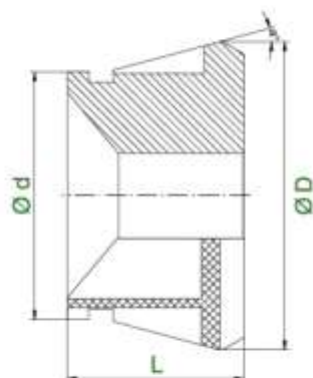


LQ



SIZE 42

02

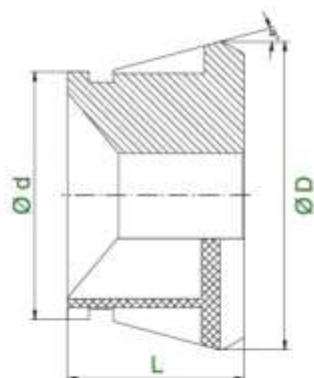


SIZE 52

art. no.		D	L	bore pattern			max. diameter			pitch
				LQ	Q	G	○	⬡	□	
783E	SK 52	79,5	46			*	4 - 7 mm			1.0
783E	SK 52	79,5	46		*		8 - 10 mm			1.0
783E	SK 52	79,5	46	*			11 - 42 mm			1.0
783E	SK 52	79,5	46			*		7 mm		1.0
783E	SK 52	79,5	46		*			8 - 45 mm	8 - 36 mm	1.0
783E	SK 52 G	79,5	46			*	4 - 42 mm			1.0
783E	SK 52 W	79,5	46				8,15,30 mm			1.0

SIZE 65

art. no.		D	L	bore pattern			max. diameter			pitch
				LQ	Q	G	○	⬡	□	
788 E	SK 65	99,5	58			*	4 - 7 mm			0.5
788 E	SK 65	99,5	58		*		8 - 10 mm			0.5
788 E	SK 65	99,5	58	*			11 - 65 mm			0.5
788 E	SK 65	99,5	58			*		7 mm		
788 E	SK 65	99,5	58		*			8 - 56 mm	8 - 46 mm	1.0
788 E	SK 65 G	99,5	53			*	4 - 65 mm			0.5
788 E	SK 65 W	99,5	53			*	8,20,40 mm			

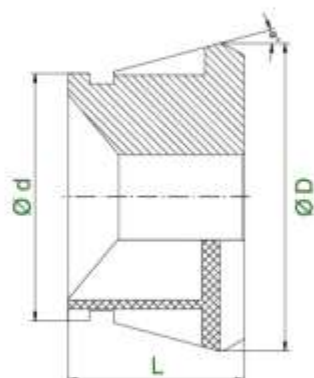


SIZE 80

art. no.		D	L	bore pattern			max. diameter			pitch
				LQ	Q	G	○	⬡	□	
791 E	SK 80	114,5	53		*		8 - 10 mm			1.0
791 E	SK 80	114,5	53	*			11 - 80 mm			1.0
791 E	SK 80	114,5	53		*			8 - 68 mm	8 - 56 mm	1.0
791 E	SK 80 G	114,5	53			*	8 - 80 mm			1.0
791 E	SK 80 W	114,5	53			*	20,40,60 mm			

SIZE 100

art. no.		D	L	bore pattern			max. diameter			pitch
				LQ	Q	G	○	⬡	□	
797 E	SK 100	144,5	59	*			42 - 100 mm			1.0
797 E	SK 100	144,5	59		*			50 - 86 mm	50 - 70 mm	1.0
797 E	SK 100 G	144,5	59			*	42 - 100 mm			1.0
797 E	SK 100 W	144,5	59			*	30,45,65,90 mm			



SIZE 120

art. no.		D	L	bore pattern			max. diameter			pitch
				LQ	Q	G	○	⬡	□	
798 E	SK 120	180,0	61	*			62 - 120 mm			1.0
798 E	SK 120	180,0	61		*			50 - 104 mm	50 - 80 mm	1.0
798 E	SK 120 G	180,0	61			*	62 - 120 mm			1.0
798 E	SK 120 W	180,0	61			*	65,90,110 mm			

SIZE 140

art. no.		D	L	bore pattern			max. diameter			pitch
				LQ	Q	G	○	⬡	□	
796 E	SK 140	195,6	63	*			140 mm			1.0
796 E	SK 140	195,6	63		*			121 mm	98 mm	1.0

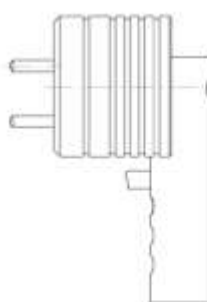
SIZE 160

art. no.		D	L	bore pattern			max. diameter			pitch
				LQ	Q	G	○	⬡	□	
799 E	SK 160	225,5	63	*			160 mm			1.0
799 E	SK 160	225,5	63		*			138 mm	113 mm	1.0

CHANGING FIXTURES FOR CLAMPING HEADS



Pic. 1



Pic. 2

art. no.	Pic.
SK 32 WVM	1
SK 32 WVP	2
SK 42 WVM	1
SK 42 WVP	2
SK 65 WVM	1
SK 65 WVP	2
SK 80 WVM	1
SK 80 WVP	2
SK 100 WVM	1
SK 100 WVP	2

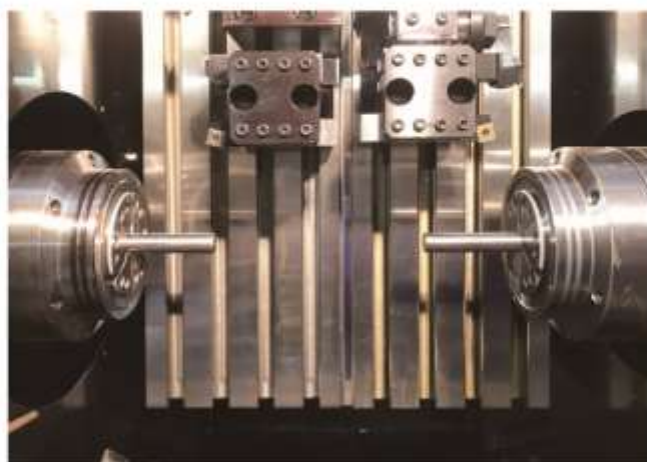
動力夾頭 TYPE KSKF POWER-OPERATED COLLET CHUCKS

創新的夾頭設計，具有從外部夾緊到內部夾緊的短切換時間以及高精度和剛性

- 適用於棒狀工件夾持。
- 最高夾持力和剛性 (KSKF, KSKF-A)。
- 軸向固定夾頭，夾持力及剛度較小 (KSKF-AF)。
- 所有型號為 KSKF 的夾頭都需要一個法蘭連接主軸。法蘭有各種尺寸和各種主軸鼻端。
- 所有型號為 KSKF 的夾頭都是這樣設計的，即一個夾持心軸可以通過面端的孔進行螺栓連接，而不需要對主軸進行較大的更動。
- 筒夾可迅速更換。

THE INNOVATIVE COLLET CHUCKS FEATURE SHORT CHANGEOVER TIMES FROM EXTERNAL TO INTERNAL CLAMPING AND HIGH DEGREES OF PRECISION AND RIGIDITY.

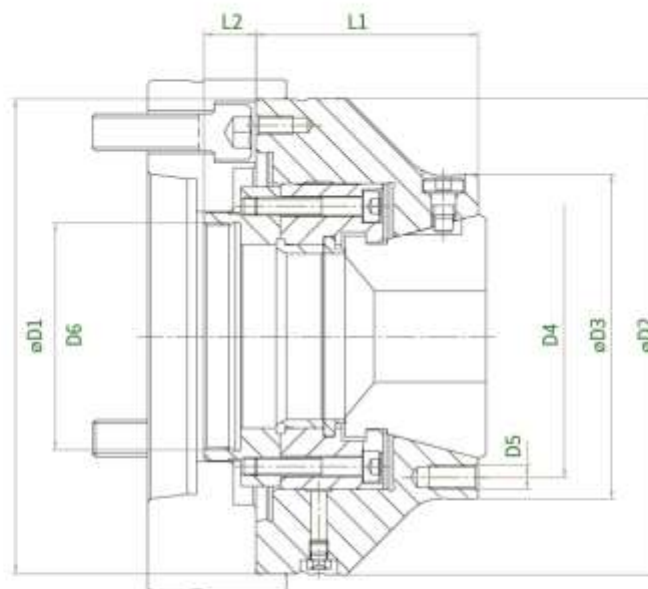
- For workpiece clamping of bar and chucking works.
- Highest clamping forces and rigidity(types KSKF, KSKF-A).
- Axially fixed clamping head, less rigidity(type KSKF-AF).
- An intermediate flange is required for all collet chucks type KSKF. Flanges are available in various dimensions and for a variety of spindle noses.
- All collet chucks type KSKF are designed in a way that a segment clamping mandrel can be bolt on via the bores at the face end without major modifications of the chuck.
- Quick change capability of clamping heads.



通孔夾頭 KSKF KSKF DRAWBACK COLLET CHUCK WITH THROUGH-HOLE

- 帶有通孔的後拉夾頭，用於棒材加工：筒夾在夾緊過程中被拉入夾頭，提供高夾緊力和高剛性。
- 夾頭卡盤工作非常精確，易於設置，運行精度高。
- Drawback collet chuck with through-hole for bar machining: the clamping head is pulled into the chuck during clamping and provides high clamping forces and high rigidity.
- The collet chucks work very precisely and feature an easy set-up as well as high running accuracy.

產品編號 art. no.	夾持範圍 clamping range	L1	L2	D1	D2	D3	D4	D5	D6	max.speed min ⁻¹	collet
KSKF 32	4 - 32	70,5	17	137	137	84	70	M8	M54 x 1,5	8.000	771E,772E
KSKF 42	4 - 42	69	17	137	137	104	90	M8	M54 x 1,5	7.000	781E,782E
KSKF 52	4 - 52	72,5	17	155	155	106	92	M8	M74 x 1,5	6.500	783E
KSKF 65	5 - 65	78	17	155	155	122	110	M8	M74 x 1,5	6.000	787E,788E

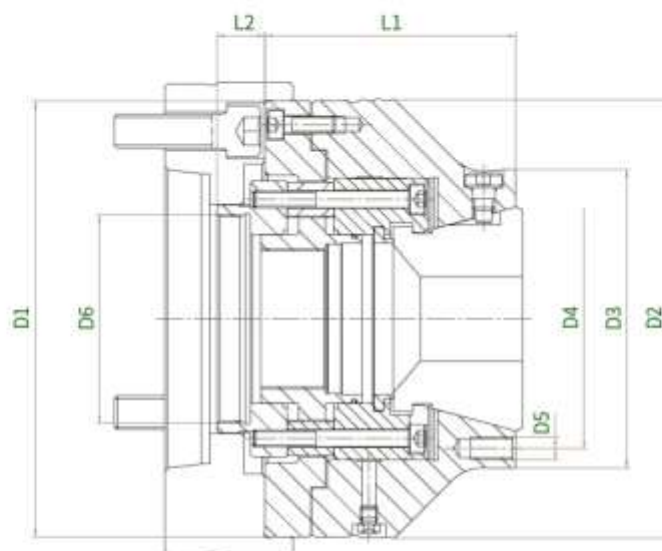


TYPE KSKF

後拉止動夾頭 KSKF-A KSKF-A DRAWBACK COLLET CHUCK WITH RIGID AXIAL STOP

- 與 KSKF 相同，但於夾頭本體中附加了擋塊：夾頭提供高夾緊力和高剛性。由於軸向拉動作用，工件被拉向止擋並提供額外的工件支撐。因此，KSKF-A 型適用於短夾緊工作。
- Same as type KSKF, but with an additional stop for chuck parts which can be screwed on: the clamping head offers high clamping forces and high rigidity as well. Due to the axial pulling effect, the workpiece is pulled against the stop and provides an additional workpiece support. Therefore, the type KSKF-A is perfect with short clamped workpieces.

產品編號 art. no.	夾持範圍 clamping range	L1	L2	D1	D2	D3	D4	D5	D6	max.speed min ⁻¹	collet
KSKF 32-A	4 - 32	70,5	30,5	137	120	84	70	M8	M54 x 1,5	8.000	771E,772E
KSKF 42-A	4 - 42	82,5	17	137	138	104	90	M8	M54 x 1,5	7.000	781E,782E
KSKF 52-A	4 - 52	89	17	155	156	106	92	M8	M74 x 1,5	6.500	783E
KSKF 65-A	5 - 65	94,5	17	155	156	122	110	M8	M74 x 1,5	6.000	787E,788E

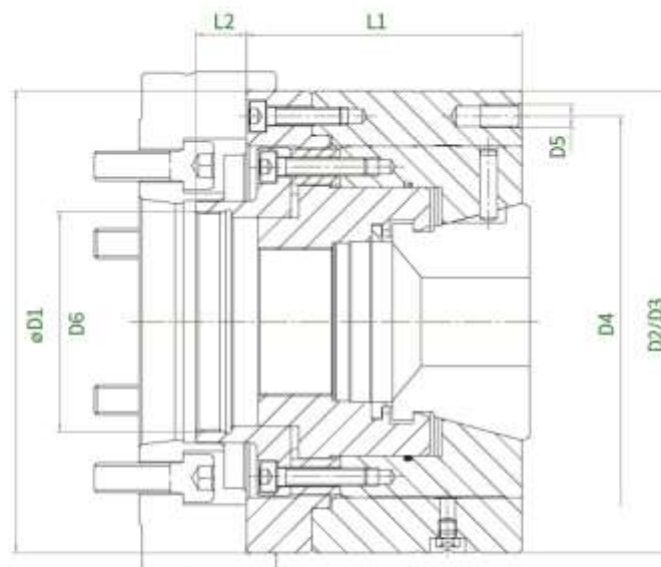


TYPE KSKF-A

前推零位移夾頭 KSKF-AF KSKF-AF FIXED CLAMPING HEAD

- KSKF-AF 型配有固定夾頭，可用於通孔和止動夾持。壓力套筒被推過軸向固定的夾頭。
- Type KSKF-AF is equipped with a fixed clamping head and can be used for through as well as for stop clamping. The pressure sleeve is pushed over the axially fixed clamping head. Type KSKF-AF offers a lesser stiffness than that achieved with types KSKF and KSKF-A.

產品編號 art. no.	夾持範圍 clamping range	L1	L2	D1	D2	D3	D4	D5	D6	max.speed min ⁻¹	collet
KSKF 32-AF	4 - 32	80,5	15,5	137	137	105	94	M6	M48 x 1,5	8.000	771E,772E
KSKF 42-AF	4 - 42	81	16	137	137	137	120	M8	M54 x 1,5	7.000	781E,782E
KSKF 52-AF	4 - 52	92,5	17	155	155	155	138	M8	M74 x 1,5	6.500	783E
KSKF 65-AF	5 - 65	92,5	17	155	155	155	138	M8	M74 x 1,5	6.000	787E,788E



TYPE KSKF-AF

法蘭 INTERMEDIATE FLANGES

中間法蘭 INTERMEDIATE FLANGES

法蘭與夾頭型號 KSKF, KSKF-A 和 KSKF-AF 相匹配。

THE INTERMEDIATE FLANGES MATCH THE COLLET CHUCK TYPES KSKF, KSKF-A UND KSKF-AF.

說明：

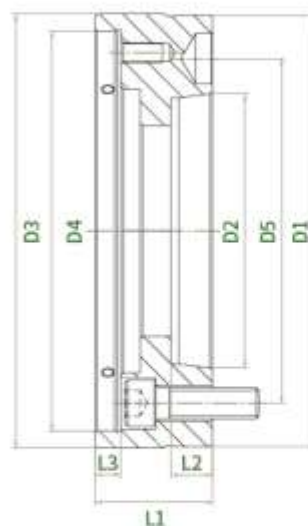
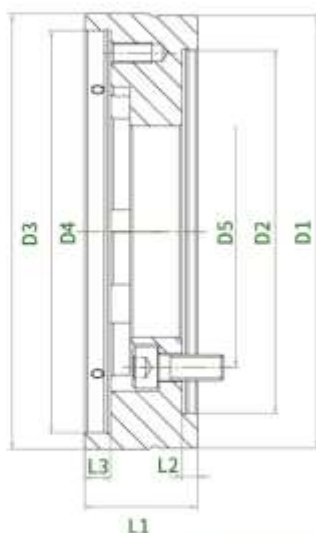
- Z-140 表示直徑為 140 的圓柱形支架
- A-5 表示主軸頭，錐形安裝尺寸為 5

依此類推

EXPLANATION FIRST COLUMN:

- Z-140 MEANS CYLINDRICAL MOUNT WITH DIAMETER 140
- A-5 MEANS SPINDLE NOSE WITH SHORT TAPER MOUNT SIZE 5 AND SO ON.

產品編號 art. no.	L1	L2	D3	D1	D2	D3	D4	D5	fastening screw
KSKF 32/42 - Z - 140	35,5	6	10	149	140	150	137	104,8	6 x M8
KSKF 32/42 - A - 5	44,5	15	10	149	82,563	150	137	104,8	6 x M10
KSKF 52/65 - A - 6	45,5	16	10	164	106,375	165	137	133,4	3 x M12
KSKF 52/65 - Z - 140	27,5	6	10	167	140	168	155	104,8	6 x M10
KSKF 52/65 - Z - 170	32,5	6	10	179	170	180	155	133,4	6 x M12
KSKF 52/65 - A - 5	46	15	10	167	82,563	168	155	104,8	6 x M10
KSKF 52/65 - A - 6	45,5	16	10	167	106,375	168	155	133,4	3 x M12
KSKF 52/65 - A - 8	45,5	18	10	209	139,719	210	155	171,4	3 x M16



INTERMEDIATE FLANGES

硫化橡膠 EXCHANGEABLE RUBBER INSERTS

橡膠插件

筒夾配有橡膠嵌件，可在現場進行更換，不再需要進行大範圍的硫化。插件組裝時間平均為 15 分鐘，這一優勢在實踐中明是決定性的。

THROUGH-HARDENED CLAMPING HEADS WITH EXCHANGEABLE RUBBER INSERTS

Nann clamping heads are equipped with rubber inserts making changeover possible on-site: extensive vulcanization is no longer necessary. The collet is ready to be used after 15 minutes - an advantage that proves to be decisive in practice. The clamping heads can be used for workpiece clamping, chuck and bar work and for all common axial pulling chucks as well.



三合一立式夾具 MSKZ TYPE MSKZ MANUAL CLAMPING UNITS

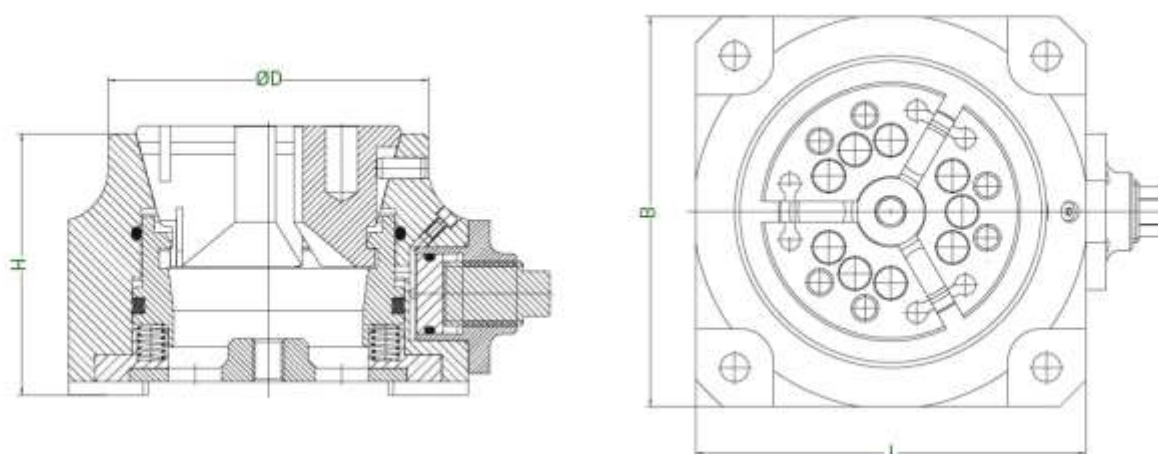
用途

- 適用於棒狀工件夾持。
- 最高夾持力和剛性 (KSKF, KSKF-A)。
- 軸向固定夾頭，夾持力及剛度較小 (KSKF-AF)。
- 所有型號為 KSKF 的夾頭都需要一個法蘭連接主軸。法蘭有各種尺寸和各種主軸鼻端。
- 所有型號為 KSKF 的夾頭都是這樣設計的，即一個夾持心軸可以通過面端的孔進行螺栓連接，而不需要對主軸進行較大的更動。
- 筒夾可迅速更換。

THE INNOVATIVE COLLET CHUCKS FEATURE SHORT CHANGEOVER TIMES FROM EXTERNAL TO INTERNAL CLAMPING AND HIGH DEGREES OF PRECISION AND RIGIDITY.

- For workpiece clamping of bar and chucking works.
- Highest clamping forces and rigidity (types KSKF, KSKF-A).
- Axially fixed clamping head, less rigidity (type KSKF-AF).
- An intermediate flange is required for all collet chucks type KSKF. Flanges are available in various dimensions and for a variety of spindle noses.
- All collet chucks type KSKF are designed in a way that a segment clamping mandrel can be bolt on via the bores at the face end without major modifications of the chuck.
- Quick change capability of clamping heads.





產品編號 art. no.	D	B	L	H	collet
MSKZ 32	80,0	110,0	110,0	110,0	771 E,772E
MSKZ 42	100,0	130,0	130,0	110,0	781E,782E
MSKZ 52	100,0	130,0	130,0	110,0	783E
MSKZ 65	120,0	150,0	150,0	110,0	787E,788E
MSKZ 80	135,0	165,0	165,0	110,0	791E
MSKZ 100	165,0	200,0	200,0	110,0	797E

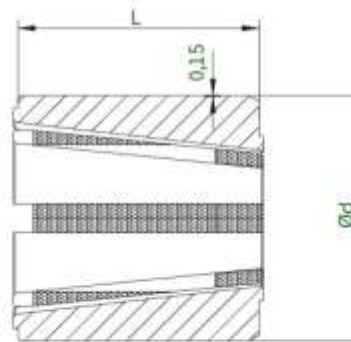
反張筒夾 SEGMENTED CLAMPING MANDRELS

型號 SVZ TYPE SVZ

- 具有硬化鋼段的分段夾持心軸特別適用於夾緊具有內部幾何形狀的工件。主要應用是車削、磨削、銑削、刀具切削、平衡、定心、鑽孔等。
- 硬化低磨損鋼段
- 軸拉伸效果，可實現理想的工件穩定性
- 高同心度和精度
- 高夾緊力和緊湊的設計
- 可針對工件進行部分檢查
- Segmented clamping mandrels with hardened steel segments are especially suited for clamping workpieces having an inner geometry accessible from outside in the form of boreholes or a prismatic take up. Main applications are turning, grinding, milling, toolcutting, balancing, centering, drilling, etc.
- hardened low-wear steel segments
- ideal workpiece stability thanks to the axis draw effect
- high concentricity and repeat accuracy
- high clamping force and compact design
- prepared for part-in-place check

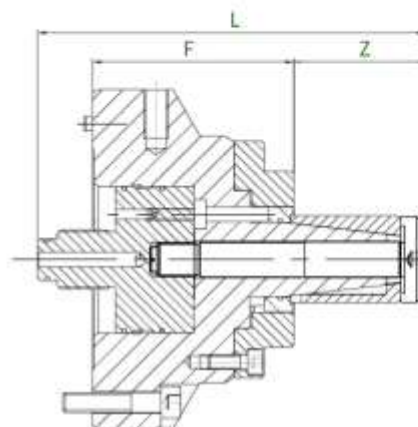


分段式反張筒夾 SVZ TYPE SVZ SEGMENTED CLAMPING SLEEVES



產品編號 art. no.	L	反張 expansion	夾緊直徑 clamping diameter
SVZ - 00	23	1,2	19,7 - 27,7 increment of 1,0
SVZ - 01	27	1,2	25,7 - 38,7 increment of 1,0
SVZ - 02	44	1,2	35,7 - 54,7 increment of 1,0
SVZ - 03	50	1,2	50,7 - 81,7 increment of 1,0
SVZ - 04	60	1,2	72,7 - 105,7 increment of 1,0

分段式反張夾頭 KSVZ TYPE KSVZ



產品編號 art. no.	L	F	Z	max. clamping diameter	max. operating power kN
KSVZ - 00	126	75,0	28,5	29	7
KSVZ - 01	131	75,0	33,5	40	10
KSVZ - 02	159	82,5	54,0	56	20
KSVZ - 03	169	84,5	62,0	83	25
KSVZ - 04	182,5	86,0	74,0	107	30

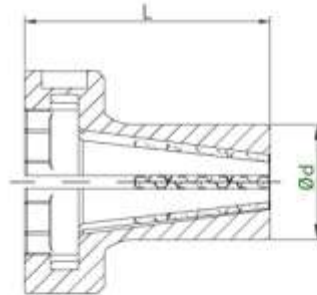
反張筒夾 SEGMENTED CLAMPING MANDRELS

型號 SVD TYPE SVD

- 具有硬化鋼段的分段夾持心軸特別適用於夾緊具有內部幾何形狀的工件。主要應用是車削、磨削、銑削、定心、鑽孔、測量等。
 - 硬化低磨損鋼段
 - 高同心度和重複精度
 - 高夾緊力
 - 緊湊的設計
 - 筒夾套筒無軸向移動
- Segmented clamping mandrels with hardened steel segments are especially suited for clamping workpieces having an inner geometry accessible from outside in the form of boreholes or a prismatic take up. Main applications are turning, grinding, milling, centering, drilling, measuring, etc.
 - hardened low-wear steel segments
 - high concentricity and repeat accuracy
 - high clamping force
 - compact design
 - no axial movement of clamping sleeve

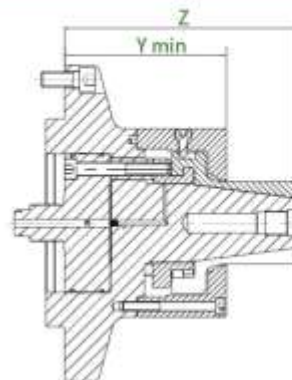


分段式反張筒夾 SVD TYPE SVD SEGMENTED CLAMPING SLEEVES



產品編號 art. no.	L	反張 expansion	夾緊直徑 clamping diameter
SVD - 00	38	0,6	9,7 - 15,7 increment of 0,5
SVD - 01	40	0,6	13,7 - 24,7 increment of 0,5
SVD - 02	52,5	0,6	18,7 - 34,7 increment of 0,5
SVD - 03	57	1,2	26,7 - 44,7 increment of 1,0
SVD - 04	76	1,2	36,7 - 64,7 increment of 1,0
SVD - 05	82	1,2	53,7 - 84,7 increment of 1,0
SVD - 06	95	1,2	71,7 - 104,7 increment of 1,0
SVD - 07	105	1,2	94,7 - 129,7 increment of 1,0

分段式反張夾頭 KSVD TYPE KSVD



產品編號 art. no.	Y min.	Z	max. clamping diameter	max. operating power kN
KSVD - 00	80	96,8	96,8	7,5
KSVD - 01	80	98,8	98,8	10
KSVD - 02	103	127,1	127,1	20
KSVD - 03	103	131,1	131,1	25
KSVD - 04	108	150,1	150,1	30
KSVD - 05	105	151,1	151,1	35
KSVD - 06	109	166,1	166,1	40
KSVD - 07	109	176,1	176,1	50

HYD 油壓式驅動膨脹系統

HYDRAULICALLY OPERATED EXPANDING SYSTEMS HYD

運作說明

- 以螺絲驅動活塞加壓
- 套筒的直徑大小 (最多) 可增加 0.3% (若使用特殊器材, 可增加 1%)
- 可使用膨脹的套筒固定, 或使用兩側設有溝槽的中間迴轉套筒固定
- 套筒的尺寸可依據通孔的大小更替

特性

- 鋼軸可依形狀精確地膨脹, 整體夾持精度在 0.003 mm 內
- 耐磨表面, 表面可鍍硬鉻, 重複研磨還原精度
- 膨脹套筒緊密貼合加工物的通孔, 可減少阻力並使音量降至最低, 同時延長工具的使用壽命
- 透過手動旋緊或油壓機器, 此膨脹系統可用在運轉或靜態加工, 並可以氣壓或油壓迴轉驅動

用途

- 直徑為 10 mm 或以上的膨脹系統, 適用於多種安裝
- 此膨脹系統主要用於薄壁圓筒零件, 例如: 汽車產業的缸套, 用於外徑需要高旋轉精度的機具或套管的輕鋼套
- 其他用途包含夾具、固定裝置、計量檢查裝置

運作原則

- HYD 適用於各種油壓膨脹心軸 (內夾) 和油壓膨脹夾盤 (外夾)
- 此夾具可以手動、力動、或系統壓力驅動



OPERATION

- The Hydraulic fluid is pressurized by a piston.
- The sleeve can be expanded to max. 0.3% (with special material up to 1%) of its diameter.
- Chucking either directly with expanding sleeve or indirectly, using a cylindrical intermediate sleeve with slots on both sides.
- Sets of interchangeable intermediate sleeves are available for adaptation to different hole sizes.

PROPERTIES

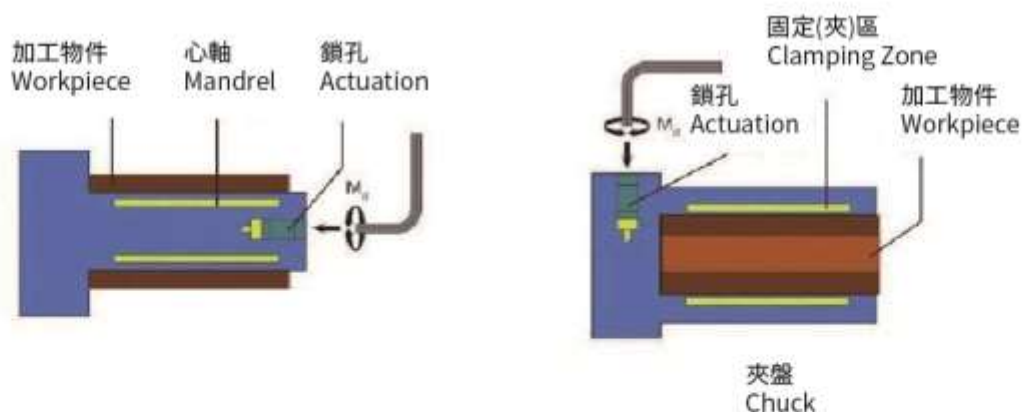
- The steel membrane permits accurate cylindrical and round expansion to within 0.003 mm over the full chucking range
- Wear resistant surface
- The snug fit of the expanding sleeve in the hole of the work piece causes an optimal damping, minimizes noise and substantially increases tool life during machining
- The expanding systems may be used for rotating or stationary work and can be operated by means of hydraulic or air cylinders, directly by the hydraulic system of the screw.

APPLICATIONS

- HYD expanding systems with diameters of 10 mm or more are available in virtually any length and for any type of mounting
- Expanding systems of this type are mainly used for thin-walled cylindrical parts, such as cylinder liners the automotive industry, light metal cylinders for a variety of applications and tubes requiring a high-truerunning accuracy on the outside diameter.
- Other applications include jigs and fixtures as well as gauging and inspection equipments.

PRINCIPLE

- HYD are available in various hydraulic expanding mandrel (Inner clamping) and hydraulic expanding chuck (Outer clamping)
- The clamping can be acutated manually, forceacutated or by system pressure.



油壓式膨脹心軸 HYD Ø 30

HYDRAULIC EXPANDING MANDREL HYD Ø 30

用途：測量

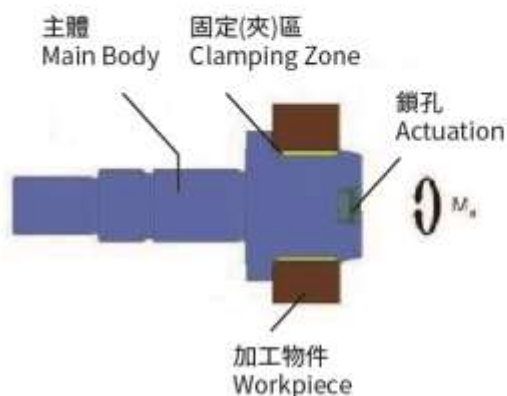
Application: Gauging

特性：高精度穩定運作

Properties: Highest
true-running accuracy

啟動：手動

Actuation: Manually actuation



油壓式膨脹心軸 HYD Ø 12

HYDRAULIC EXPANDING MANDREL HYD Ø 12

用途：迴轉

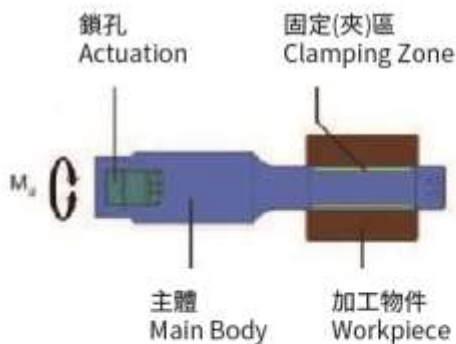
Application: Turning

特性：置中安裝

Properties: Mounting between
centers

啟動：手動

Actuation: Manually actuation



油壓式膨脹心軸 HYD Ø 100

HYDRAULIC EXPANDING MANDREL HYD Ø 100

用途：迴轉

Application: Turning

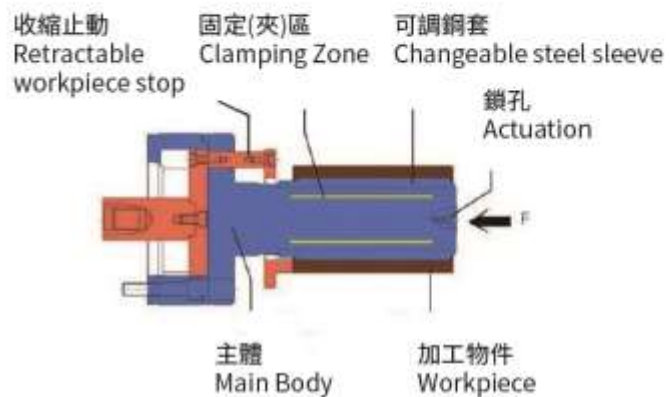
特性：塑膠膜，搭配可調凹槽鋼套筒，

內套筒的夾持直徑範圍廣

Properties: Plastic membrane with a changeable slit steel sleeve. Clamping diameter with intermediate sleeve variable

啟動：尾座驅動

Actuation: Force-actuated by tailstock



油壓式膨脹心軸之加壓元件

HYDRAULIC EXPANDING MANDREL HYD WITH PRESSING UNIT

用途：齒輪處理

Application:

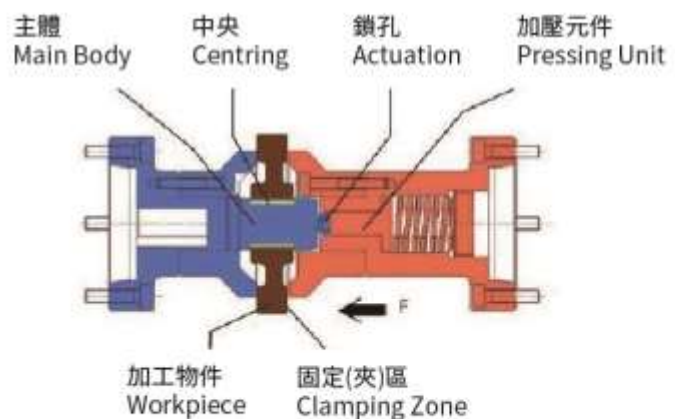
Gear wheel treatment

特性：精確地置中，以加壓元件固定加工物

Properties: Precise centring. Clamping of the workpiece by the pressing unit

啟動：彈簧加壓驅動

Actuation: Force-actuated by pressing unit



油壓式膨脹心軸 HYD Ø 30

HYDRAULIC EXPANDING MANDREL HYD Ø 30

用途：研磨

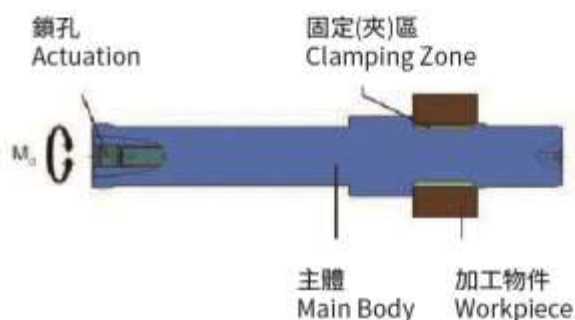
Application: Grinding

特性：置中安裝

Properties: Mounting between centers

啟動：手動

Actuation: Manually actuation



油壓式膨脹刀把 HYD Ø 42

HYDRAULIC EXPANDING CHUCK HYD Ø 42

用途：研磨 + 加工

Application:

Turning / milling

特性：工具或加工物加載常見的錐體，可調式卡榫

Properties: Tool or workpiece clamping with all usual tapers. Adjustable stop

啟動：手動

Actuation: Manually actuation



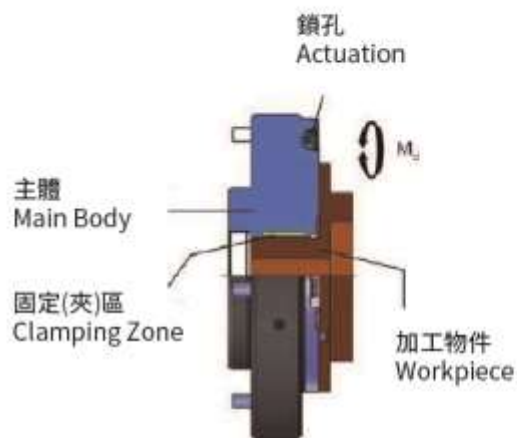
油壓式膨脹卡盤 HYD Ø 70

HYDRAULIC EXPANDING CHUCK HYD Ø 70

用途：旋轉 / 研磨
Application: Milling

特性：壓力表
Properties: Involved pressure
Indication

啟動：手動
Actuation: Manually actuation



油壓式膨脹卡盤 HYD Ø 270

HYDRAULIC EXPANDING CHUCK HYD Ø 270

用途：磨尖和磨製機器
Application: Honing
and grinding
machines

特性：利用數個夾具活塞使夾力更單純
Properties: Purifies dosage of clamping
force by several clamping pistons

啟動：手動
Actuation: Manually actuation
Grand



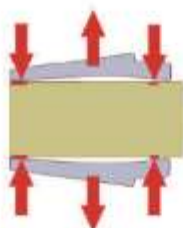
UniERclamp

運作說明

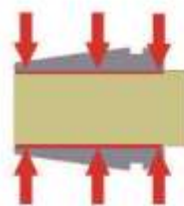
硫化橡膠筒夾的夾持力是傳統鋼性筒夾的 2 到 3 倍。夾持力平均分散在筒夾的所有接觸面上，均勻且平行的。並且不會像傳統鋼性筒夾一樣，只夾持前端和後端。

OPERATE

collets can generate two to three times the gripping power of a conventional split-steel collet. Gripping force is uniform and parallel throughout the collet contact length and not concentrated at the nose or back as is frequently the case with split-steel collets (see illustration below). Construction is of durable synthetic rubber compound permanently bonded to hardened steel jaw insert surfaces and through holes. It is unaffected by heat coolants and cutting compounds and retains its flexibility over a long service life as compared to spring tempered metal designs.



普通筒夾
Conventional Collet



UniERclamp

產品特色

• 面夾持：

硫化後的 ER 筒夾有較高的包覆性，可以完整的包覆刀具，並且有別以往的點夾持，面夾持能有較大的夾持力及穩定性避免刀具打滑。

• 制震：

面夾持所帶來的效益便是降低刀具加工時的震刀頻率，加上硫化物本身具有的吸震效果，能吸收加工時所產生的共振波，藉此延長刀具壽命。

• 防水防塵：

除去了普通 ER 筒夾的的隙縫，硫化過後的 ER 筒夾完全無縫，以此達到防水防塵的效果。

FEATURE OF PRODUCT

• Uniform Clamping：

The UniERclamp collet has a larger clamping area significantly improving the tool clamp area, creating more stability at the tool interface.(E.g reduced resonance,enhanced clamping area).

• Damping：

Enhanced elastomeric polymers improve the vibration frequency generated by the tool during machining process, thus much of the vibration is negated by the customisation of specifically designed elastomer, thereby extending the life of the tool and improving component quality.

• Additional Benefits：

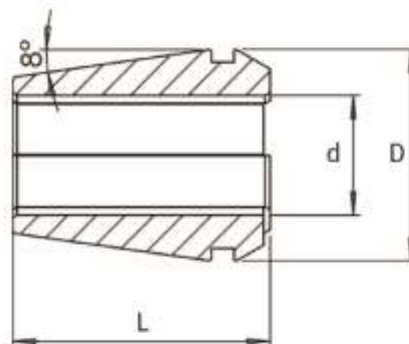
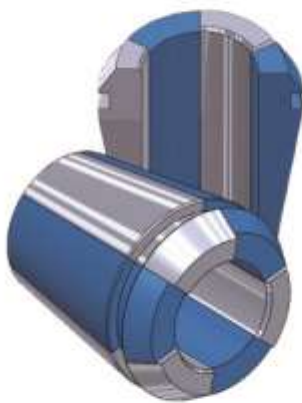
The elastomeric UniERclamp collet stops the ingress of unwanted materials from entering the collet interface thus is waterproof and dustproof.(reducing maintenance and wear) Controlled Water-flow-paths help eliminate swarf and decrease tool maintenance.

產品特點

材質：SUJ2。
 硬度：HRC46°。
 表面粗糙度：RZ2.5 以內。
 夾持精度：0.005 mm。
 夾持範圍為：± 0.5 mm。
 收縮範圍為：± 0.5 mm，
 以 10 mm 為例：9.5 mm-10.5 mm。
 適用水壓為：40 bar。

FEATURES

Material：SUJ2
 Hardness：HRC46°
 Surface roughness：RZ2.5
 Clamping accuracy：0.005 mm
 Clamping tolerance：± 0.5 mm
 Clamping Diamate：± 0.5 mm,
 For 10 mm. EG：9.5 mm-10.5 mm
 Water Pressure：Max 40 bar



產品編號 art. no.	d	D	L
ER11	1, 2, 3, 4, 5, 6, 7	11.5	18.0
ER16	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	17.0	27.0
ER20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	21.0	31.0
ER25	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	26.0	34.0
ER32	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	33.0	40.0
ER40	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32	41.0	46.0

UNIERCLAMP

運作說明

UNIERCLAMP 具有 UniClamp 的所有優點，附加的高壓流體控制以增強局部出水，並利用高水壓除去切削時產生的鐵屑。特殊的尾端設計可提供超高壓中央出水，藉此提高加工精度。

筒夾的夾持力是傳統分體式鋼筒夾的 2 到 3 倍。夾持力在整個夾頭接觸長度上是均勻且平行的，並且不像普通鋼夾頭那樣集中在前端或後端（請參見下圖）。結構是由耐久的高分子聚合物製成，該聚合物半永久性地結合到硬化的鋼製物件表面上。與普通鋼夾設計相比，硬化筒夾具有更佳的防塵性能。高分子聚合不受冷卻劑和切削水的腐蝕，並在較長的使用壽命內保持靈活性。

OUR

HYD-Uni clamp has all the advantages of uniERclamp, with additional high pressure fluid control to enhance localised swarf removal at high pressure. The special tail end design gives ultra-high pressure through the central water outlet thus allowing for high machining accuracy.

Collets generate Uniform Clamping Pressure Un-like Conventional Steel Collets, the gripping force is uniform and parallel throughout the collet contact surface. This reduces the risk of the component and collet damage, thus improving product quality, repeatability and decreasing rejects. Uniform clamping force decreases tool wear improving quality and efficiency.



產品特色

- 更加貼合的「面」夾持：

HYD-UniERclamp 筒夾具有更大的夾持面積，得產生更大的穩定性。（例如減少共振，增強夾緊力區域）。

- 制震：

增強型彈性聚合物可改善機加工過程中工具產生的振動頻率，通過專門設計的彈性體，可消除大部分振動，從而延長了工具的使用壽命並提高了部件的貼合性。

- 附帶的效益和增強鐵屑的去除：

HYD-UniERclamp 夾頭可防止有害物質進入筒夾界面，因此具有防水和防塵的作用（減少了維護和磨損）。

FEATURE OF PRODUCT

Uniform Clamping :

The HYD-UniERclamp collet has a larger clamping area significantly improving the tool clamp area, creating more stability at the tool interface. (E.g reduced resonance, enhanced clamping area).

Damping :

Enhanced elastomeric polymers improve the vibration frequency generated by the tool during machining process, thus much of the vibration is negated by the customisation of specifically designed elastomer, thereby extending the life of the tool and improving component quality.

Additional Benefits and enhanced swarf removal :

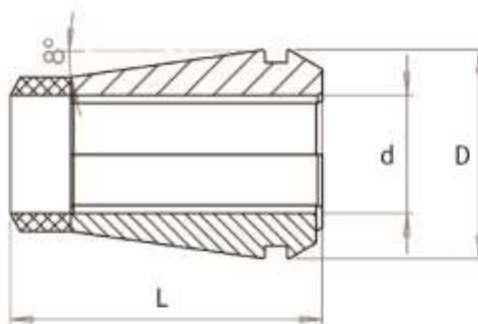
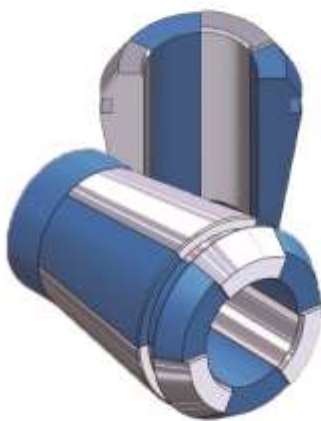
The elastomeric HYD-UniERclamp collet stops the ingress of unwanted materials from entering the collet interface thus is waterproof and dustproof. (reducing maintenance and wear) high pressure centralized Water-flow-paths eliminate swarf increase precision and decrease tool maintenance. where extreme pressure and temperature control is required.

產品特點

材質：SUJ2
 硬度：HRC46°
 表面粗糙度：RZ2.5
 夾持精度：0.005 mm
 夾持範圍：± 0.5 mm
 收縮範圍：± 0.5 mm，
 以 10 mm 為例：9.5 mm-10.5 mm
 適用水壓為：Max 200 bar

FEATURES

Material：SUJ2
 Hardness：HRC46°
 Surface roughness：RZ2.5
 Clamping accuracy：0.005 mm
 Clamping tolerance：± 0.5 mm
 Clamping Diamate：± 0.5 mm,
 For 10 mm. EG：9.5 mm-10.5 mm
 Water Pressure：Max 200 bar



產品編號 art. no.	d	D	L
ER11	1, 2, 3, 4, 5, 6, 7	11.5	27.0
ER16	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	17.0	36.0
ER20	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	21.0	40.0
ER25	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	26.0	63.0
ER32	4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20	33.0	49.0
ER40	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32	41.0	51.0



CLAMPING

is more important than you thought

封底裡空白

Grand-E-Light



Grand-E-Light co.,ltd.

No. 102, Zhongshan 3rd Road, Daya District, Taichung City

Tel : 04-2560 6065

Fax : 04-2560 7211

