



MAX/MAX-Q TOOLHOLDERS
UCHWYTY MAX/MAX-Q

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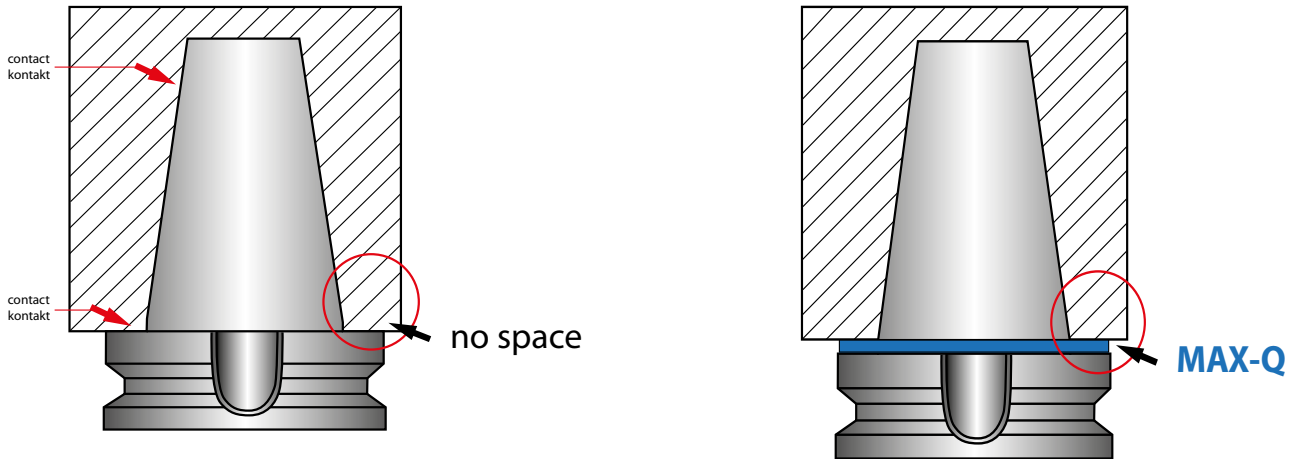


ULTRA PRECISION TOOLHOLDERS

UCHWYTY ULTRAPRECYZYJNE

BT/SK
MAX / MAX-Q

- **Gap between toolholder and spindle is eliminated by dual face contact design.**
Przerwa pomiędzy uchwytem a trzpieniem została wyeliminowana poprzez konstrukcję podwójnej powierzchni styku.
- **Operation stability, dimension precision, and spindle life will all be improved.**
Lepsza stabilność operacji, precyzja wymiarów oraz mniejsze zużycie trzpienia.



MAX toolholder / uchwyt MAX

- Toolholder for spindle with dual contact option.
- Uchwyty dla wrzeciona z opcją podwójnego kontaktu.

Max - Q toolholder / uchwyt Max - Q

- Dual face contact to holder for all kind of spindle.
- Uchwyt z podwójnym kontaktem do wszystkich rodzajów wrzecion.

Advantages / Zalety

Stable and enlarged dual face contact area directly and effectively improves tooling system precision. High speed machining with superior accuracy and surface finish can be easily obtained.

Dzięki podwójnemu kontaktowi, znacznie zwiększa się sztywność i precyzyjność oprawki. Można uzyskać super dokładność i bardzo dobrą powierzchnie obróbki przy obróbce szybkościowej.

Tool MAX - Q series can be used for all existing spindle systems. It is not necessary to invest in costly, custom-made spindles to obtain the result of dual-face contact.

Uchwyty z serii MAX-Q mogą być użyte z wszystkimi rodzajami wrzecion. Nie jest konieczna kosztowna inwestycja w wrzeciona z opcją podwójnego kontaktu.

With enhanced rigidity from MAX and MAX - Q series, tool runout and balance are maintained at a very low level. The cutter service life is extended by several times. This means significantly lower costs and much higher productivity!

Sztywność uchwytów MAX i MAX - Q sprawia, że występuje mniejsze bicie uchwytów, co znacznie wydłuża żywotność narzędzia i zmniejsza koszty narzędziowe przy wyższej produktywności.

With the extra contact surface, MAX and MAX - Q series considerably reduces friction wear on the spindle taper face and thus extends the spindle life.

Uchwyty MAX i MAX-Q dzięki opcji podwójnego kontaktu znacznie zmniejsza się tarcie stożka uchwytu we wrzecionie, co znacznie wydłuża żywotność wrzeciona.

By attenuating impact and vibration from machining, MAX and MAX - Q series dramatically reduces the noise generated. The machine and work piece will also stay in a more stable operation condition.

Uchwyty MAX i MAX-Q znacznie redukują wibracje.

At high rotational speed, the mouth of the spindle often expands slightly due to centrifugal force. This problem can be resolved by using Tool MAX and MAX - Q series, as the extra contact face will prevent the tool holder from being sucked into the spindle.

Podczas dużych prędkości obrotowych uchwyt pod wpływem sił odśrodkowych może się przyblokować we wrzecionie. Uchwyty MAX i MAX-Q dzięki podwójnemu kontaktowi eliminuje ten problem.

ULTRA-PRECISION TOOLHOLDER MAX AND MAX-Q

ULTRA PRECYZYJNE OPRAWKI MAX i MAX-Q



Cone Angle Tolerance

Tolerancja stożka < AT3 (ISO 1947)

TOLERANCE / TOLERANCJA

★ **AT5 - The worst acceptable performance**
Najgorsze dopuszczalne wykonanie

★★ **AT4 - OK for standard machine**
Dopuszczalna do standardowych obrabiarek

★★★ **AT3 - Standard performance**
Standardowe wykonanie

★★★★ **AT2 - Close to pattern performance**
Wykonanie blisko wzorcowego

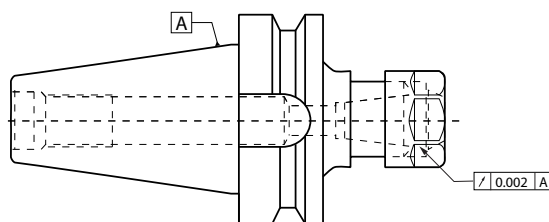
★★★★★ **AT1 - Pattern performance**
Wzorcowe wykonanie

AT5

- **Damage spindles**
- **Degrade machine precision**
- **Incrade machine cost**
- **Behind of your competitor**
- Niszczy wrzeciono
- Zmniejsza dokładność wykonania
- Zwiększa koszty maszynowe
- Zmniejsza konkurencyjność

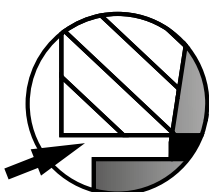
AT1

- **Protected spindles**
- **Upgrade machine precision**
- **Low machine cost**
- **Ahead of your competitor**
- Wydłuża żywotność wrzeciona
- Zwiększa dokładność wykonania
- Zmniejsza koszty maszynowe
- Zwiększa konkurencyjność

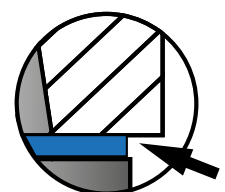


Seat Runour / Bicie 0,002

- **Increases machine precision**
- **Better surface quality**
- **Protected spindles**
- Zwiększa precyzyjność maszyny
- Lepsza jakość powierzchni
- Wydłuża żywotność narzędzia



Standard



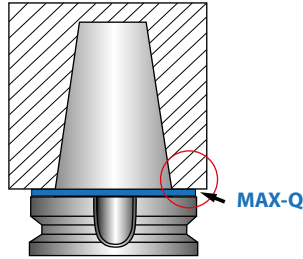
MAX-Q

INFINITY SERIES Toolholder

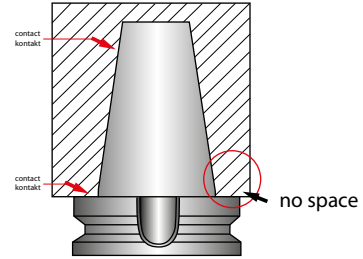
SERIA INFINTY Oprawka

Code decription for BT, SK

Opis kodu dla BT,SK



1 - MAX-Q



2 - MAX

0	AD/B
1	AD
2	A

Length L
Długość L

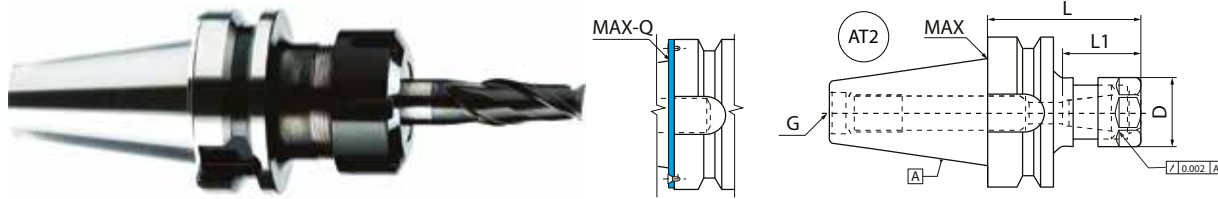
Ultra-precise
Ultraprecyzyjne

B31 1 ERC 07 070 U

Taper type Typ stożka
B3 = BT30
B4 = BT40
B5 = BT50
S4 = SK40
S5 = SK50

Type of toolholder Rodzaj oprawki	
ERC	COLLET CHUCK UCHWYT Z TULEJĄ ZACISKOWĄ
WLD	END MILL WELDON HOLDER UCHWYT DO FREZÓW WELDON
SMA	COMBI SHELL MILL HOLDER UCHWYT FREZARSKIE Z ROWKIEM WPUSTOWYM
FMA	SHELL MILL HOLDER TRZPIENIE FREZARSKIE ZABIERAKOWE
MCA	SCREW-IN HOLDER UCHWYT DO FREZÓW Z GWINTEM
DCC	HIGH SPEED SLIM CHUCK UCHWYT DO OBRÓBKI SZYBKOŚCIOWEJ
SHR	SHRINK FIT HOLDER UCHWYT TERMOKURCZLIWY

d - mountin diameter cutter
średnica mocowania freza

ERC COLLET CHUCK
UCHWYT ERC Z TULEJĄ ZACISKOWĄ
BT JIS 6399 AD
**FOR COLLETS ER DIN 6499
DO TULEJEK ER DIN 6499**


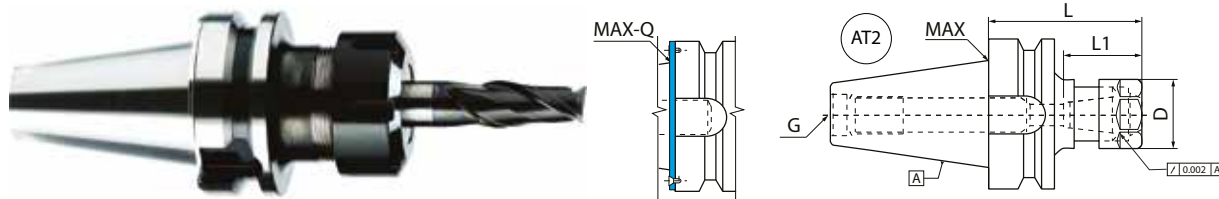
EDP No MAX-Q	Taper Stożek	Collet Tuleje zaciskowe	Range Zakres	D	L	L1	G						
B311ERC07070U	BT30	ER11	0.5 ~ 7	19	70	17	M12	NSX11 NBX11	WRX11	TER11			
B311ERC07100U		ER11	0.5 ~ 7	19	100	17							
B311ERC07160U		ER11	0.5 ~ 7	19	160	17							
B311ERC10070U		ER16	0.5 ~ 10	28	70	22		NSX16 NSH16 NBX16 NBH16	WRX16	TER16			
B311ERC10100U		ER16	0.5 ~ 10	28	100	22							
B311ERC10160U		ER16	0.5 ~ 10	28	160	22							
B311ERC10200U		ER16	0.5 ~ 10	28	200	22							
B311ERC13070U		ER20	1 ~ 13	34	70	26					NSX20 NSH20 NBX20 NBH20	WRX20 WRC20	TER20
B311ERC13100U		ER20	1 ~ 13	34	100	26							
B311ERC13160U		ER20	1 ~ 13	34	160	26							
B311ERC16060U		ER25	1 ~ 16	42	60	29		NSH25 NBH25	WRH25	TER25			
B311ERC16070U		ER25	1 ~ 16	42	70	29							
B311ERC16100U		ER25	1 ~ 16	42	100	29							
B311ERC16160U		ER25	1 ~ 16	42	160	29		NSH32 NBH32	WRH32	TER32			
B311ERC20070U		ER32	1 ~ 20	50	70	34							
B311ERC20100U		ER32	1 ~ 20	50	100	34							
B311ERC20160U		ER32	1 ~ 20	50	160	34		M16	NSX11 NBX11	WRX11	TER11		
B411ERC07070U		ER11	0.5 ~ 7	50	70	17							
B411ERC07100U	ER11	0.5 ~ 7	19	100	17								
B411ERC07160U	ER11	0.5 ~ 7	19	160	17	NSX16 NSH16 NBX16 NBH16	WRX16		TER16				
B411ERC07200U	ER11	0.5 ~ 7	19	200	17								
B411ERC10063U	ER16	0.5 ~ 10	19	63	22								
B411ERC10070U	ER16	0.5 ~ 10	28	70	22								
B411ERC10100U	ER16	0.5 ~ 10	28	100	22								
B411ERC10160U	ER16	0.5 ~ 10	28	160	22								
B411ERC10200U	ER16	0.5 ~ 10	28	200	22	NSX20 NSH20 NBX20 NBH20	WRX20 WRC20		TER20				
B411ERC13060U	ER20	1 ~ 13	28	60	26								
B411ERC13070U	ER20	1 ~ 13	34	70	26								
B411ERC13100U	ER20	1 ~ 13	34	100	26	NSX20 NSH20 NBX20 NBH20	WRX20 WRC20		TER20				
B411ERC13160U	ER20	1 ~ 13	34	160	26								
B411ERC13200U	ER20	1 ~ 13	34	200	26								

optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.003mm

ERC COLLET CHUCK
UCHWYT ERC Z TULEJĄ ZACISKOWĄ
BT JIS 6399 AD
**FOR COLLETS ER DIN 6499
DO TULEJEK ER DIN 6499**


EDP No MAX-Q	Taper Stożek	Collet Tuleje zaciskowe	Range Zakres	D	L	L1	G			
B411ERC16060U	BT40	ER25	1 ~ 16	42	60	29	M16	NSH25 NBH25	WRH25	TER25
B411ERC16070U		ER25	1 ~ 16	42	70	29				
B411ERC16100U		ER25	1 ~ 16	42	100	29				
B411ERC16160U		ER25	1 ~ 16	42	160	29				
B411ERC16200U		ER25	1 ~ 16	42	200	29				
B411ERC20070U		ER32	1 ~ 20	50	70	34				
B411ERC20100U		ER32	1 ~ 20	50	100	34				
B411ERC20160U		ER32	1 ~ 20	50	160	34				
B411ERC20200U		ER32	1 ~ 20	50	200	34				
B411ERC26080U		ER40	1 ~ 26	63	080	38				
B411ERC26100U		ER40	1 ~ 26	63	100	38				
B411ERC26160U		ER40	1 ~ 26	63	160	38				
B411ERC26200U	ER40	1 ~ 26	63	200	38					
B511ERC10100U	BT50	ER16	0.5 ~ 10	28	100	22	M24	NSX16 NSH16 NBX16 NBH16	WRX16	TER16
B511ERC10150U		ER16	0.5 ~ 10	28	150	22				
B511ERC10160U		ER16	0.5 ~ 10	28	160	22				
B511ERC10200U		ER16	0.5 ~ 10	28	200	22				
B511ERC13100U		ER20	1 ~ 13	34	100	26				
B511ERC13150U		ER20	1 ~ 13	34	150	26				
B511ERC13160U		ER20	1 ~ 13	34	160	26				
B511ERC13200U		ER20	1 ~ 13	34	200	26				
B511ERC16100U		ER25	1 ~ 16	42	100	29				
B511ERC16150U		ER25	1 ~ 16	42	150	29				
B511ERC16160U		ER25	1 ~ 16	42	160	29				
B511ERC16200U		ER25	1 ~ 16	42	200	29				
B511ERC20070U		ER32	1 ~ 20	50	70	34				
B511ERC20100U		ER32	1 ~ 20	50	100	34				
B511ERC20150U		ER32	1 ~ 20	50	150	34				
B511ERC20160U		ER32	1 ~ 20	50	160	34				
B511ERC20200U		ER32	1 ~ 20	50	200	34				
B511ERC26105U		ER40	1 ~ 26	63	105	38				
B511ERC26120U		ER40	1 ~ 26	63	120	38				
B511ERC26150U		ER40	1 ~ 26	63	150	38				
B511ERC26160U	ER40	1 ~ 26	63	160	38					
B511ERC26200U	ER40	1 ~ 26	63	200	38					

FEATURES WŁAŚCIWOŚCI

optional AD/B opcjonalnie AD/B

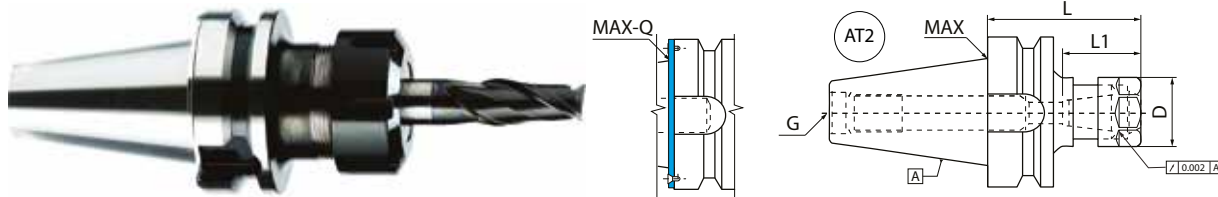
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runoff / Bicie: 0.003mm

ERC COLLET CHUCK - MINI NUT

UCHWYT ERC Z TULEJĄ ZACISKOWĄ - MINI NAKRĘTKA

BT JIS 6399 AD
FOR ER COLLETS - MINI NUTS DIN 6499
 DO TULEJEK ER - MAŁE NAKRĘTKI DIN 6499


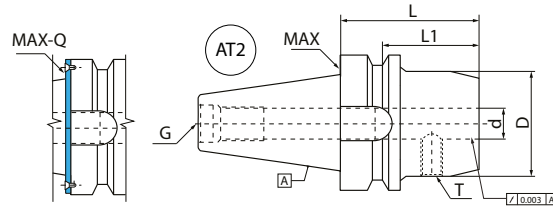
EDP No MAX-Q	Taper Stożek	Collet Tuleje zaciskowe	Range Zakres	D	L	L1	G		
B311ERC07070MU	BT30	ER11	0.5 ~ 7	16	70	17	M12	NTM11	WRM11
B311ERC07100MU		ER11	0.5 ~ 7	16	100	17			
B311ERC10070MU		ER16	0.5 ~ 10	22	70	22		NTM16	WRM16
B311ERC10100MU		ER16	0.5 ~ 10	22	100	22			
B311ERC10160MU		ER16	0.5 ~ 10	22	160	22		NTM20	WRM20
B311ERC13070MU		ER20	1 ~ 13	28	70	26			
B311ERC13100MU		ER20	1 ~ 13	28	100	26		NTM20	WRM20
B311ERC13160MU		ER20	1 ~ 13	28	160	26			
B411ERC07070MU	BT40	ER11	0.5 ~ 7	16	70	17	M16	NTM11	WRM11
B411ERC07100MU		ER11	0.5 ~ 7	16	100	17			
B411ERC10070MU		ER16	0.5 ~ 10	22	70	22		NTM16	WRM16
B411ERC10100MU		ER16	0.5 ~ 10	22	100	22			
B411ERC10160MU		ER16	0.5 ~ 10	22	160	22		NTM20	WRM20
B411ERC13070MU		ER20	1 ~ 13	28	70	26			
B411ERC13100MU		ER20	1 ~ 13	28	100	26		NTM20	WRM20
B411ERC13160MU		ER20	1 ~ 13	28	160	26			
B511ERC07100MU	BT50	ER11	0.5 ~ 7	16	100	17	M24	NTM11	WRM11
B511ERC07160MU		ER11	0.5 ~ 7	16	160	17			
B511ERC10100MU		ER16	0.5 ~ 10	22	100	22		NTM16	WRM16
B511ERC10160MU		ER16	0.5 ~ 10	22	160	22			
B511ERC13100MU		ER20	1 ~ 13	28	100	26		NTM20	WRM20
B511ERC13160MU		ER20	1 ~ 13	28	160	26			

optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.003mm

WLD - END MILL WELDON HOLDER
WLD - UCHWYT DO FREZÓW WELDON
BT JIS 6399 AD
**FOR HOLDER DIN 1835B WELDON
DO UCHWYTU WELDON DIN 1835B**


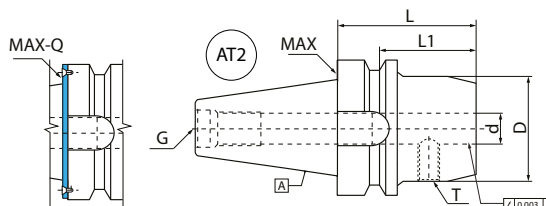
EDP No MAX-Q	Taper Stożek	d	D	L	L1	T	G	
B311WLD06050U	BT30	6	25	50	30	M6	M12	
B311WLD08050U		8	28	50	35	M8		
B311WLD10050U		10	35	50	40	M10		
B311WLD12063U		12	42	63	44	M12		
B311WLD16063U		16	48	63	47	M14		
B311WLD20063U		20	52	63	49	M16		
B411WLD06050U	BT40	6	25	50	30	M6	M16	
B411WLD06100U			25	100	30	M6		
B411WLD06160U			25	160	30	M6		
B411WLD06200U			25	200	30	M6		
B411WLD08050U		8	28	50	35	M8		
B411WLD08100U			28	100	35	M8		
B411WLD08160U			28	160	35	M8		
B411WLD08200U			28	200	35	M8		
B411WLD10063U		10	35	63	39	M10		
B411WLD10100U			35	100	39	M10		
B411WLD10160U			35	160	39	M10		
B411WLD10200U			35	200	39	M10		
B411WLD12063U		12	42	63	44	M12		
B411WLD12100U			42	100	44	M12		
B411WLD12160U			42	160	44	M12		
B411WLD12200U			42	200	44	M12		
B411WLD14063U		14	42	63	44	M12		
B411WLD14100U			42	100	44	M12		
B411WLD16063U			16	48	63	47		M14
B411WLD16100U				48	100	47		M14
B411WLD16160U		48		160	47	M14		
B411WLD16200U		48		200	47	M14		
B411WLD18063U		18	48	63	47	M14		
B411WLD18100U			48	100	47	M14		

optional AD/B opcjonalnie AD/B

optional UC (with coolant slot) opcjonalnie UC (with coolant slot)

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm
Seat runout / Bicie: 0.003mm

WLD - END MILL WELDON HOLDER
WLD - UCHWYT DO FREZÓW WELDON
BT JIS 6399 AD
**FOR HOLDER DIN 1835B WELDON
DO UCHWYTU WELDON DIN 1835B**


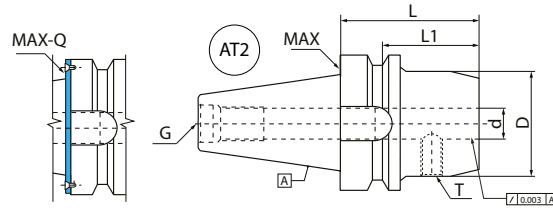
EDP No MAX-Q	Taper Stożek	d	D	L	L1	T	G
B411WLD20063U	BT40	20	52	63	49	M16	M16
B411WLD20100U			52	100	49	M16	
B411WLD20160U			52	160	49	M16	
B411WLD20200U			52	200	49	M16	
B411WLD25090U		25	65	90	64	M18	
B411WLD25160U			65	160	64	M18	
B411WLD25200U			65	200	64	M18	
B411WLD32100U		32	72	100	68	M20	
B411WLD32160U			72	160	68	M20	
B411WLD32200U			72	200	68	M20	
B411WLD40120U		40	90	120	78	M20	
B411WLD40160U			90	160	78	M20	
B411WLD40200U			90	200	78	M20	
B411WLD42105U		42	80	105	80	M20	
B511WLD06063U	BT50	6	25	63	30	M6	M24
B511WLD06100U			25	100	30	M6	
B511WLD06160U			25	160	30	M6	
B511WLD06200U			25	200	30	M6	
B511WLD08063U		8	28	63	35	M8	
B511WLD08100U			28	100	35	M8	
B511WLD08160U			28	160	35	M8	
B511WLD08200U		28	200	35	M8		
B511WLD10080U		10	35	80	39	M10	
B511WLD10100U			35	100	39	M10	
B511WLD10160U			35	160	39	M10	
B511WLD10200U			35	200	39	M10	
B511WLD12080U		12	42	80	44	M12	
B511WLD12100U			42	100	44	M12	
B511WLD12160U			42	160	44	M12	
B511WLD12200U			42	200	44	M12	
B511WLD14080U		14	42	80	44	M12	
B511WLD14100U			42	100	44	M12	

optional AD/B opcjonalnie AD/B

optional UC (with coolant slot) opcjonalnie UC (with coolant slot)

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25000rpm
Seat runout / Bicie: 0.003mm

WLD - END MILL WELDON HOLDER
WLD - UCHWYT DO FREZÓW WELDON
BT JIS 6399 AD
**FOR HOLDER DIN 1835B WELDON
DO UCHWYTU WELDON DIN 1835B**


EDP No MAX-Q	Taper Stożek	d	D	L	L1	T	G
B511WLD16080U	BT50	16	48	80	47	M14	M24
B511WLD16100U			48	100	47	M14	
B511WLD16160U			48	160	47	M14	
B511WLD16200U			48	200	47	M14	
B511WLD18080U		18	48	80	47	M14	
B511WLD18100U			48	100	47	M14	
B511WLD20080U		20	52	80	49	M16	
B511WLD20100U			52	100	49	M16	
B511WLD20160U			52	160	49	M16	
B511WLD20200U			52	200	49	M16	
B511WLD25105U		25	65	105	64	M18	
B511WLD25160U			65	160	64	M18	
B511WLD25200U			65	200	64	M18	
B511WLD32105U		32	72	105	68	M20	
B511WLD32160U			72	160	68	M20	
B511WLD32200U			72	200	68	M20	
B511WLD40105U		40	80	105	78	M20	
B511WLD40160U			80	160	78	M20	
B511WLD40200U			80	200	78	M20	
B511WLD50130U		50	92	130	80	M20	
B511WLD50160U	92		160	80	M20		
B511WLD50200U	92		200	80	M20		

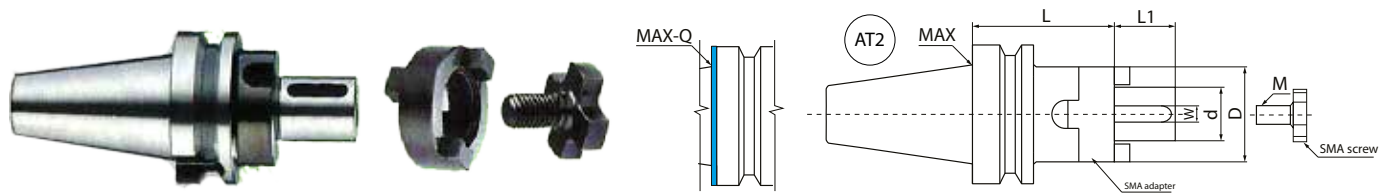
optional AD/B opcjonalnie AD/B

optional UC (with coolant slot) opcjonalnie UC (with coolant slot)

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.003mm

SMA - COMBI SHELL MILL HOLDER
SMA - UCHWYT FREZARSKIE Z ROWKIEM WPUSTOWYM
BT JIS 6399 AD
**FOR HOLDER DIN 6358
DO UCHWYTÓW DIN 6358**


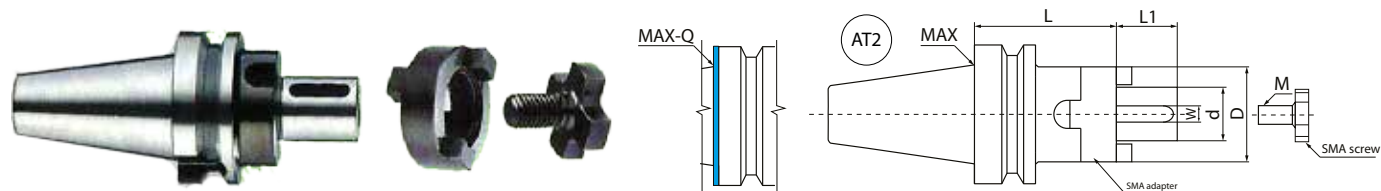
EDP No MAX-Q	Taper Stożek	d	D	L	L1	W	M				
B411SMA16055U	BT40	16	32	55	27	4X20	M8	PNN16 PNK16	RNG16	LSC16	
B411SMA16100U			32	100	27	4X20	M8				
B411SMA16160U			32	160	27	4X20	M8				
B411SMA16200U			32	200	27	4X20	M8				
B411SMA22055U		22	22	40	55	31	6X25	M10	PNN22 PNK22	RNG22	LSC22
B411SMA22100U				40	100	31	6X25	M10			
B411SMA22160U				40	160	31	6X25	M10			
B411SMA22200U				40	200	31	6X25	M10			
B411SMA27055U		27	27	48	55	33	7X25	M12	PNN27 PNK27	RNG27	LSC27
B411SMA27100U				48	100	33	7X25	M12			
B411SMA27160U				48	160	33	7X25	M12			
B411SMA27200U				48	200	33	7X25	M12			
B411SMA32060U		32	32	58	60	38	8X28	M16	PNN32 PNK32	RNG32	LSC32
B411SMA32100U				58	100	38	8X28	M16			
B411SMA32160U				58	160	38	8X28	M16			
B411SMA32200U				58	200	38	8X28	M16			
B411SMA40060U		40	40	70	60	41	10X32	M20	PNN40 PNK40	RNG40	LSC40
B411SMA40100U				70	100	41	10X32	M20			
B411SMA40160U				70	160	41	10X32	M20			
B411SMA40200U				70	200	41	10X32	M20			
B511SMA16070U	BT50	16	32	55	27	4X20	M8	PNN16 PNK16	RNG16	LSC16	
B511SMA16100U			32	100	27	4X20	M8				
B511SMA16160U			32	160	27	4X20	M8				
B511SMA16200U			32	200	27	4X20	M8				
B511SMA22070U		22	22	40	55	31	6X25	M10	PNN22 PNK22	RNG22	LSC22
B511SMA22100U				40	100	31	6X25	M10			
B511SMA22160U				40	160	31	6X25	M10			
B511SMA22200U				40	200	31	6X25	M10			
B511SMA27070U		27	27	48	55	33	7X25	M12	PNN27 PNK27	RNG27	LSC27
B511SMA27100U				48	100	33	7X25	M12			
B511SMA27160U				48	160	33	7X25	M12			
B511SMA27200U				48	200	33	7X25	M12			

optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.005mm

SMA - COMBI SHELL MILL HOLDER
SMA - UCHWYT FREZARSKIE Z ROWKIEM WPUSTOWYM
BT JIS 6399 AD
**FOR HOLDER DIN 6358
DO UCHWYTÓW DIN 6358**


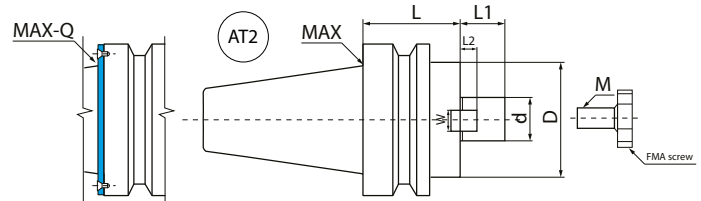
EDP No MAX-Q	Taper Stożek	d	D	L	L1	W	M			
B511SMA32070U	BT50	32	58	60	38	8X28	M16	PNN32 PNK32	RNG32	LSC32
B511SMA32100U	BT50		58	100	38	8X28	M16			
B511SMA32160U	BT50		58	160	38	8X28	M16			
B511SMA32200U	BT50		58	200	38	8X28	M16			
B511SMA40070U	BT50	40	70	60	41	10X32	M20	PNN40 PNK40	RNG40	LSC40
B511SMA40100U	BT50		70	100	41	10X32	M20			
B511SMA40160U	BT50		70	160	41	10X32	M20			
B511SMA40200U	BT50		70	200	41	10X32	M20			

optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.005mm

FMA - SHELL MILL HOLDER
FMA - TRZPIENIE FREZARSKIE ZABIERAKOWE
BT JIS 6399 AD
**FOR HOLDER DIN 6357
DO UCHWYTÓW DIN 6357**


EDP No MAX-Q	Taper Stożek	d	D	L	L1	L2	W	M		
B311FMA16040U	BT30	16	38	40	17	5	8	M8	DRK16	LSC16
B311FMA22040U		22	48	40	19	5	10	M10	DRK22	LSC22
B311FMA27040U		27	60	40	21	6	12	M12	DRK27	
B411FMA16040U	BT40	16	38	40	17	5	8	M8	DRK16	LSC16
B411FMA16100U			38	100	17	5	8	M8		
B411FMA16160U			38	160	17	5	8	M8		
B411FMA16200U			38	200	17	5	8	M8		
B411FMA22040U		22	48	40	19	5	10	M10	DRK22	LSC22
B411FMA22100U			48	100	19	5	10	M10		
B411FMA22160U			48	160	19	5	10	M10		
B411FMA22200U			48	200	19	5	10	M10		
B411FMA27060U		27	60	60	21	6	12	M12	DRK27	LSC27
B411FMA27100U			60	100	21	6	12	M12		
B411FMA27160U			60	160	21	6	12	M12		
B411FMA27200U			60	200	21	6	12	M12		
B411FMA32050U	32	78	50	24	7	14	M16	DRK32	LSC32	
B411FMA32100U		78	100	24	7	14	M16			
B411FMA32160U		78	160	24	7	14	M16			
B411FMA32200U		78	200	24	7	14	M16			
B411FMA40050U	40	88	50	27	8,5	16	M20	DRK40	LSC40	
B411FMA40100U		88	100	27	8,5	16	M20			
B411FMA40160U		88	160	27	8,5	16	M20			
B411FMA40200U		88	200	27	8,5	16	M20			
B511FMA16050U	BT50	16	38	50	17	5	8	M8	DRK16	LSC16
B511FMA16100U			38	100	17	5	8	M8		
B511FMA16160U			38	160	17	5	8	M8		
B511FMA16200U			38	200	17	5	8	M8		
B511FMA22050U		22	48	50	19	5	10	M10	DRK22	LSC22
B511FMA22100U			48	100	19	5	10	M10		
B511FMA22160U			48	160	19	5	10	M10		
B511FMA22200U			48	200	19	5	10	M10		

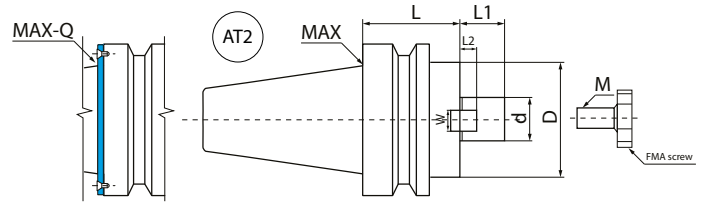
optional AD/B opcjonalnie AD/B

optional UC (with coolant slot) opcjonalnie UC (with coolant slot)

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.005mm

FMA - SHELL MILL HOLDER
FMA - TRZPIENIE FREZARSKIE ZABIERAKOWE
BT JIS 6399 AD
**FOR HOLDER DIN 6357
DO UCHWYTÓW DIN 6357**


EDP No MAX-Q	Taper Stożek	d	D	L	L1	L2	W	M			
B511FMA27050U	BT50	27	60	50	12	6	12	M12	DRK27	LSC27	
B511FMA27100U			60	100	12	6	12	M12			
B511FMA27160U			60	160	12	6	12	M12			
B511FMA27200U			60	200	12	6	12	M12			
B511FMA32050U		32	32	78	50	24	7	14	M16	DRK32	LSC32
B511FMA32100U				78	100	24	7	14	M16		
B511FMA32160U				78	160	24	7	14	M16		
B511FMA32200U				78	200	24	7	16	M16		
B511FMA40050U		40	40	89	50	27	8,5	16	M20	DRK40	LSC40
B511FMA40100U				89	100	27	8,5	16	M20		
B511FMA40160U				89	160	27	8,5	16	M20		
B511FMA40200U				89	200	27	8,5	16	M20		
B511FMA60075U	60	60	129	75	40	12,5	25,4	M16*4			

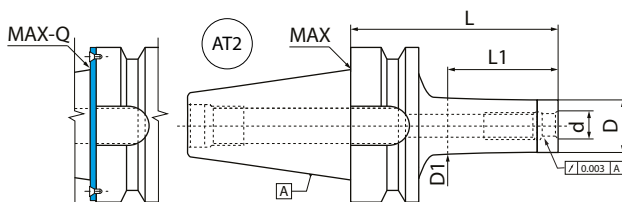
optional AD/B opcjonalnie AD/B

optional UC (with coolant slot) opcjonalnie UC (with coolant slot)

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.005mm

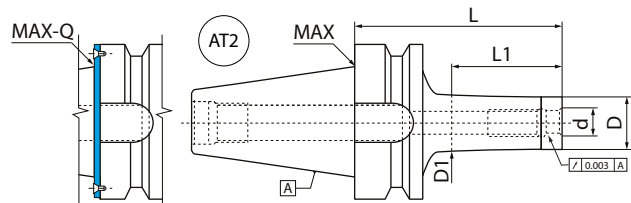
MCA - SCREW-IN HOLDER
MCA - UCHWYT DO FREZÓW Z GWINTEM
BT JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	M	
B311MCA08035U	BT30	8,5	15	15	35	10	M8	
B311MCA08065U		8,5	15	16	65	40	M8	
B311MCA08087U		8,5	13	23	87	50	M8	
B311MCA08100U		8,5	13	23	100	50	M8	
B311MCA10065U		10,5	18	18	65	50	M10	
B311MCA10087U		10,5	18	18	87	50	M10	
B311MCA10100U		10,5	18	18	100	50	M10	
B311MCA12087U		12,5	21	24	87	50	M12	
B311MCA12100U		12,5	21	24	100	50	M12	
B311MCA16087U		17	29	34	87	50	M16	
B311MCA16100U		17	29	34	100	50	M16	
B411MCA08087U		BT40	8,5	13	23	87	50	M8
B411MCA08100U	8,5		13	23	100	50	M8	
B411MCA08127U	8,5		13	23	127	50	M8	
B411MCA08160U	8,5		13	23	160	50	M8	
B411MCA08200U	8,5		13	23	200	50	M8	
B411MCA10065U	10,5		18	20	65	30	M10	
B411MCA10087U	10,5		18	25	87	50	M10	
B411MCA10100U	10,5		18	25	100	50	M10	
B411MCA10127U	10,5		18	25	127	50	M10	
B411MCA10160U	10,5		18	25	160	50	M10	
B411MCA10200U	10,5		18	25	200	50	M10	
B411MCA12087U	12,5		21	24	87	50	M12	
B411MCA12100U	12,5		21	24	100	50	M12	
B411MCA12127U	12,5		21	35	127	90	M12	
B411MCA12160U	12,5		21	35	160	90	M12	
B411MCA12200U	12,5		21	35	200	90	M12	
B411MCA16087U	17		29	34	87	50	M16	
B411MCA16100U	17		29	34	100	50	M16	
B411MCA16127U	17		29	39	127	90	M16	
B411MCA16160U	17		29	39	160	90	M16	
B411MCA16200U	17		29	39	200	90	M16	
B511MCA08087U	BT50		12,5	13	23	87	40	M8
B511MCA08100U			12,5	13	23	100	50	M8

optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G = 2,5 25000rpm
Seat runout / Bicie: 0.005mm

MCA - SCREW-IN HOLDER
MCA - UCHWYT DO FREZÓW Z GWINTEM
BT JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	M
B511MCA08127U	BT50	12,5	13	23	127	50	M8
B511MCA10087U		12,5	18	25	87	30	M10
B511MCA10100U		12,5	18	25	100	50	M10
B511MCA10127U		12,5	18	25	127	50	M10
B511MCA12100U		12,5	21	24	100	50	M12
B511MCA12127U		12,5	21	35	127	75	M12
B511MCA12160U		12,5	21	35	160	75	M12
B511MCA12200U		12,5	21	35	200	75	M12
B511MCA16100U		17	29	34	100	50	M16
B511MCA16127U		17	29	39	127	75	M16
B511MCA16160U		17	29	39	160	75	M16
B511MCA16200U		17	29	39	200	75	M16

optional AD/B opcjonalnie AD/B

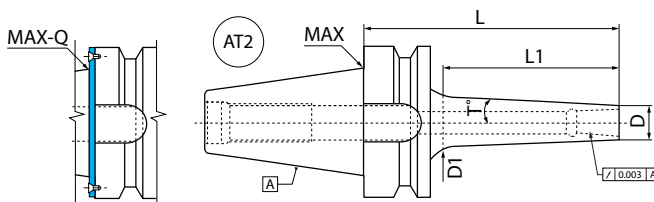
FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25000rpm

Seat runout / Bicie: 0.005mm

DCC - HIGH SPEED SLIM CHUCK

DCC - UCHWYT DO OBRÓBK SZYBKOŚCIOWEJ

BT JIS 6399 AD


EDP No MAX-Q	Taper Stożek	D	D1	L	L1	T°	Collet Oprawka			
B311DCC06100U	BT30	13	20	100	75	2,5	HC06	COP0306 COP0406 COP0606	DR0630	
B311DCC06160U		13	25	160	135	2,5				
B311DCC06200U		13	29	200	175	2,5				
B311DCC10100U		20	29	100	75	3	HC10	COP0410 COP0610 COP0810 COP1010	DR1030	
B311DCC10160U		20	29	160	135	3				
B311DCC10200U		20	39	200	175	3				
B411DCC06100U	BT40	13	20	100	70	2,5	HC06	COP0306 COP0406 COP0606	DR0640	SRS14 SRS24
B411DCC06160U		13	25	160	130	2,5				
B411DCC06200U		13	29	200	170	2,5				
B411DCC10100U		20	28	100	70	3	HC10	COP0410 COP0610 COP0810 COP1010	DR1040	SRS14 SRS24
B411DCC10160U		20	34	160	130	3				
B411DCC10200U		20	38	200	170	3				
B511DCC06100U	BT50	13	19	100	60	2,5	HC06	COP0306 COP0406 COP0606		
B511DCC06160U		13	24	160	120	2,5				
B511DCC06200U		13	28	200	160	2,5				
B511DCC10100U		20	27	100	60	3	HC10	COP0410 COP0610 COP0810 COP1010		
B511DCC10160U		20	33	160	120	3				
B511DCC10200U		20	37	200	160	3				
B511DCC16120U		32	40	120	80	3	HC16			
B511DCC16160U		32	44	160	120	3				
B511DCC16200U		32	49	200	160	3				

optional AD/B opcjonalnie AD/B

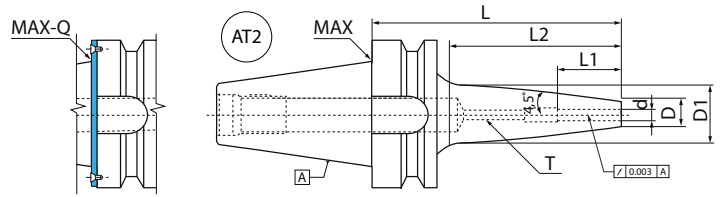
FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.003mm

SHR - 4,5° SHRINK FIT HOLDER

SHR - UCHWYT TERMOKURCZLIWY 4,5°

BT JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
B311SHR0307045U	BT30	3	10	16	70	15	35	S10
B311SHR0310045U		3	10	16	100	15	35	S10
B311SHR0407045U		4	12	18	70	16	35	S10
B311SHR0410045U		4	12	18	100	16	35	S10
B311SHR0507045U		5	12	18	70	20	35	S10
B311SHR0510045U		5	12	18	100	20	35	S10
B311SHR0607045U		6	21	27	70	22	35	S10
B311SHR0610045U		6	21	27	100	22	35	S10
B311SHR0807045U		8	21	27	70	26	35	M5
B311SHR0810045U		8	21	27	100	26	35	M5
B311SHR1007045U		10	24	30	70	31	35	M8
B311SHR1010045U		10	24	30	100	31	35	M8
B311SHR1207045U		12	24	30	70	36	35	M10
B311SHR1210045U		12	24	30	100	36	35	M10
B311SHR1407045U		14	27	39	70	36	40	M10
B311SHR1410045U		14	27	39	100	36	40	M10
B311SHR1607045U		16	27	39	70	39	40	M12
B311SHR1610045U		16	27	39	100	39	40	M12
B311SHR1807045U		18	33	39	70	39	45	M12
B311SHR1810045U		18	33	39	100	39	45	M12
B311SHR2007045U	20	33	41	70	41	45	M16	
B311SHR2010045U	20	33	41	100	41	45	M16	
B411SHR0308045U	BT40	3	10	18	80	15	48	S10
B411SHR0310045U		3	10	20	100	15	63	S10
B411SHR0316045U		3	10	20	160	15	63	S10
B411SHR0408045U		4	12	20	80	16	48	S10
B411SHR0410045U		4	12	23	100	16	68	S10
B411SHR0416045U		4	12	22	160	16	63	S10
B411SHR0508045U		5	12	20	80	20	48	S10
B411SHR0510045U		5	12	23	100	20	68	S10
B411SHR0516045U		5	12	22	160	20	63	S10
B411SHR0609045U		6	21	27	90	22	38	S10
B411SHR0610045U		6	21	27	100	22	38	S10
B411SHR0612045U		6	21	27	120	22	38	S10
B411SHR0616045U		6	21	27	160	22	38	S10
B411SHR0620045U		6	21	27	200	22	38	S10

FEATURES WŁAŚCIWOŚCI

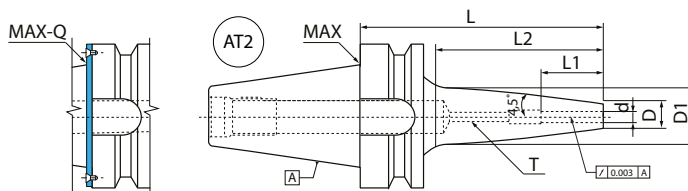
optional AD/B opcjonalnie AD/B

Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm
Seat runout / Bicie: 0.003mm

SHR - 4,5° SHRINK FIT HOLDER

SHR - UCHWYT TERMOKURCZLIWY 4,5°

BT JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
B411SHR0809045U	BT40	8	21	27	90	22	38	M6
B411SHR0810045U		8	21	27	100	22	38	M6
B411SHR0812045U		8	21	27	120	22	38	M6
B411SHR0816045U		8	21	27	160	22	38	M6
B411SHR0820045U		8	21	27	200	22	38	M6
B411SHR1009045U		10	24	33	90	31	59	M8
B411SHR1010045U		10	24	34	100	31	64	M8
B411SHR1012045U		10	24	34	120	31	64	M8
B411SHR1016045U		10	24	34	160	31	64	M8
B411SHR1020045U		10	24	34	200	31	64	M8
B411SHR1209045U		12	24	33	90	36	59	M10
B411SHR1212045U		12	24	34	120	36	64	M10
B411SHR1216045U		12	24	34	160	36	64	M10
B411SHR1220045U		12	24	34	200	36	64	M10
B411SHR1409045U		14	27	36	90	36	57	M10
B411SHR1412045U		14	27	36	120	36	57	M10
B411SHR1416045U		14	27	36	160	36	57	M10
B411SHR1420045U		14	27	36	200	36	57	M10
B411SHR1609045U		16	27	36	90	39	57	M12
B411SHR1612045U		16	27	36	120	39	57	M12
B411SHR1616045U		16	27	36	160	39	57	M12
B411SHR1620045U		16	27	36	200	39	57	M12
B411SHR1809045U		18	33	42	90	39	57	M12
B411SHR1812045U		18	33	42	120	39	57	M12
B411SHR1816045U		18	33	42	160	39	57	M12
B411SHR1820045U		18	33	42	200	39	57	M12
B411SHR2009045U		20	33	42	90	39	57	M16
B411SHR2012045U		20	33	42	120	39	57	M16
B411SHR2016045U		20	33	42	160	39	57	M16
B411SHR2020045U		20	33	42	200	39	57	M16
B411SHR2510045U		25	44	53	100	47	57	M16
B411SHR2512045U		25	44	53	120	47	57	M16
B411SHR2516045U	25	44	53	160	47	57	M16	
B411SHR2520045U	25	44	53	200	47	57	M16	
B511SHR0310045U	BT50	3	10	19	100	15	58	S10
B511SHR0316045U		3	10	20	160	15	68	S10
B511SHR0320045U		3	10	20	200	15	68	S10

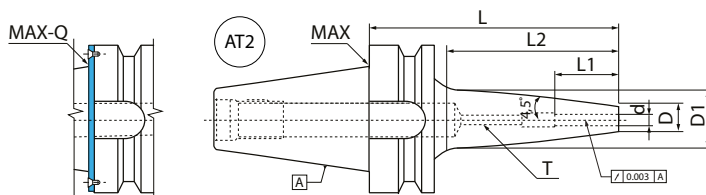
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm
Seat runout / Bicie: 0.003mm

optional AD/B opcjonalnie AD/B

SHR - 4,5° SHRINK FIT HOLDER

SHR - UCHWYT TERMOKURCZLIWY 4,5°

BT JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
B511SHR0410045U	BT50	4	12	21	100	16	58	S10
B511SHR0416045U		4	12	22	160	16	63	S10
B511SHR0420045U		4	12	22	200	16	63	S10
B511SHR0510045U		5	12	21	100	20	58	S10
B511SHR0516045U		5	12	21	160	20	58	S10
B511SHR0520045U		5	12	21	200	20	58	S10
B511SHR0610045U		6	21	27	100	22	38	M5
B511SHR0616045U		6	21	27	160	22	38	M5
B511SHR0620045U		6	21	27	200	22	38	M5
B511SHR0810045U		8	21	27	100	22	38	M5
B511SHR0816045U		8	21	27	160	22	38	M5
B511SHR0820045U		8	21	27	200	22	38	M5
B511SHR1010045U		10	24	33	100	31	59	M8
B511SHR1016045U		10	24	34	160	31	64	M8
B511SHR1020045U		10	24	34	200	36	64	M8
B511SHR1210045U		12	24	33	100	36	59	M8
B511SHR1216045U		12	24	34	160	36	64	M8
B511SHR1220045U		12	24	34	200	36	64	M8
B511SHR1410045U		14	27	36	100	36	64	M10
B511SHR1416045U		14	27	36	160	36	64	M10
B511SHR1420045U		14	27	36	200	36	64	M10
B511SHR1610045U		16	27	34	100	36	44	M10
B511SHR1616045U		16	27	36	160	36	64	M10
B511SHR1620045U		16	27	36	200	36	64	M10
B511SHR1810045U		18	33	42	100	39	57	M12
B511SHR1816045U		18	33	42	160	39	57	M12
B511SHR1820045U		18	33	42	200	39	57	M12
B511SHR2010045U		20	33	42	100	39	57	M16
B511SHR2016045U		20	33	42	160	39	57	M16
B511SHR2020045U		20	33	42	200	39	57	M16
B511SHR2510045U		25	44	53	100	47	57	M16
B511SHR2516045U		25	44	53	160	47	57	M16
B511SHR2520045U	25	44	53	200	47	57	M16	
B511SHR3210045U	32	44	53	100	47	57	M16	
B511SHR3216045U	32	44	53	160	47	57	M16	
B511SHR3220045U	32	44	53	200	47	57	M16	

FEATURES WŁAŚCIWOŚCI

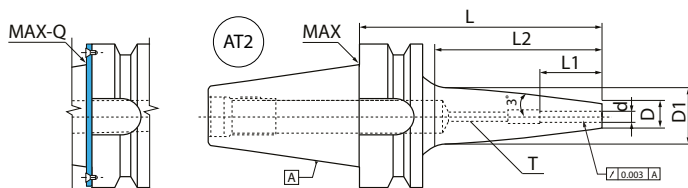
optional AD/B opcjonalnie AD/B

Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm
Seat runout / Bicie: 0.003mm

SHR - 3° SHRINK FIT HOLDER

SHR - UCHWYT TERMOKURCZLIWY 3°

BT JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
B311SHR0310030U	BT30	3	9	17	100	15	75	S10
B311SHR0316030U		3	9	23	160	15	135	S10
B311SHR0410030U		4	10	18	100	16	75	S10
B311SHR0416030U		4	10	24	160	16	135	S10
B311SHR0510030U		5	11	19	100	20	75	S10
B311SHR0516030U		5	11	25	160	20	135	S10
B311SHR0610030U		6	12	20	100	22	75	M5
B311SHR0616030U		6	12	26	160	22	135	M5
B311SHR0810030U		8	14	22	100	26	75	M6
B311SHR0816030U		8	14	28	160	26	135	M6
B311SHR1010030U		10	16	24	100	31	75	M8
B311SHR1016030U		10	16	30	160	31	135	M8
B311SHR1210030U		12	18	26	100	36	75	M10
B311SHR1216030U		12	18	32	160	36	135	M10
B311SHR1610030U		16	22	30	100	39	75	M12
B311SHR1616030U		16	22	36	160	39	135	M12
B411SHR0300030U	BT40	3	9	17	100	15	70	S10
B411SHR0300030U		3	9	23	160	15	130	S10
B411SHR0400030U		4	10	18	100	16	70	S10
B411SHR0400030U		4	10	24	160	16	130	S10
B411SHR0500030U		5	11	19	100	20	75	S10
B411SHR0500030U		5	11	25	160	20	130	S10
B411SHR0600030U		6	12	20	100	22	70	S10
B411SHR0600030U		6	12	26	160	22	130	S10
B411SHR0600030U		6	12	30	200	22	170	S10
B411SHR0800030U		8	14	22	100	26	70	M6
B411SHR0800030U		8	14	28	160	26	130	M6
B411SHR0800030U		8	14	32	200	26	170	M6
B411SHR1000030U		10	16	24	100	31	70	M8
B411SHR1000030U		10	16	30	160	31	130	M8
B411SHR1000030U		10	16	34	200	31	170	M8
B411SHR1200030U		12	18	26	100	36	70	M10
B411SHR1200030U	12	18	32	160	36	130	M10	
B411SHR1200030U	12	18	36	200	36	170	M10	
B411SHR1600030U	16	22	30	100	39	70	M12	

FEATURES WŁAŚCIWOŚCI

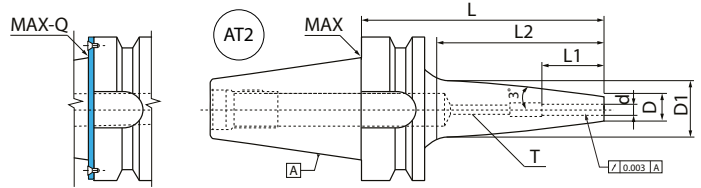
optional AD/B opcjonalnie AD/B

Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 1,0 20 000rpm
Seat runout / Bicie: 0.003mm

SHR - 3° SHRINK FIT HOLDER

SHR - UCHWYT TERMOKURCZLIWY 3°

BT JIS 6399 AD/B


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
B411SHR1600030U	BT40	16	22	36	160	39	130	M12
B411SHR1600030U		16	22	40	200	39	170	M12
B411SHR2000030U		20	27	35	100	41	70	M16
B411SHR2000030U		20	27	41	160	41	130	M16
B411SHR2000030U		20	27	45	200	41	170	M16
B411SHR2500030U		25	34	42	100	47	70	M16
B411SHR2500030U		25	34	48	160	47	130	M16
B411SHR2500030U		25	34	52	200	47	170	M16
B511SHR0610030U	BT50	6	12	19	100	22	60	S10
B511SHR0616030U		6	12	25	160	22	120	S10
B511SHR0620030U		6	12	29	200	22	160	S10
B511SHR0810030U		8	14	21	100	26	60	M6
B511SHR0816030U		8	14	27	160	26	120	M6
B511SHR0820030U		8	14	31	200	26	160	M6
B511SHR1010030U		10	16	23	100	31	60	M8
B511SHR1016030U		10	16	29	160	31	120	M8
B511SHR1020030U		10	16	33	200	31	160	M8
B511SHR1210030U		12	18	25	100	36	60	M10
B511SHR1216030U		12	18	31	160	36	120	M10
B511SHR1220030U		12	18	35	200	36	160	M10
B511SHR1610030U		16	22	29	100	39	60	M12
B511SHR1616030U		16	22	35	160	39	120	M12
B511SHR1620030U		16	22	39	200	39	160	M12
B511SHR2010030U		20	27	34	100	41	60	M16
B511SHR2016030U		20	27	40	160	41	120	M16
B511SHR2020030U		20	27	44	200	41	160	M16
B511SHR2510030U		25	34	41	100	47	60	M16
B511SHR2516030U		25	34	47	160	47	120	M16
B511SHR2520030U	25	34	51	200	47	160	M16	

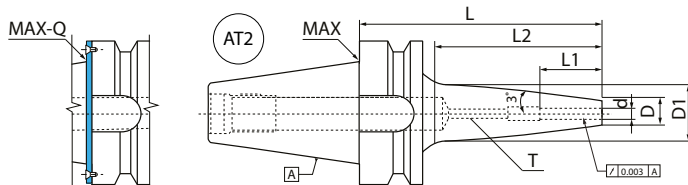
optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm
Seat runout / Bicie: 0.003mm

SHR - 3° SHRINK FIT HOLDER - SLIM

SHR - UCHWYT TERMOKURCZLIWY 3° - SMUKŁY

BT JIS 6399 AD/B


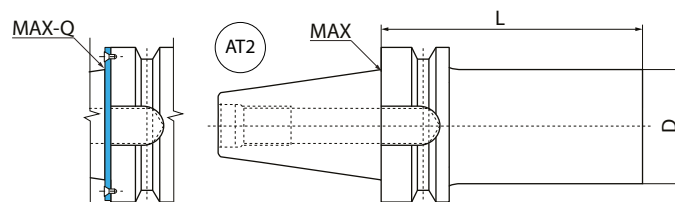
EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
B411SHR03100S30U	BT40	3	6	14	100	15	70	S10
B411SHR03160S30U		3	6	20	160	15	130	S10
B411SHR04100S30U		4	7	15	100	16	70	S10
B411SHR04160S30U		4	7	21	160	16	130	S10
B411SHR05100S30U		5	8	16	100	20	70	S10
B411SHR05160S30U		5	8	22	160	20	130	S10
B411SHR06100S30U		6	9	17	100	22	70	S10
B411SHR06160S30U		6	9	23	160	22	130	S10
B411SHR06200S30U		6	9	27	200	22	170	S10
B411SHR08100S30U		8	11	19	100	26	70	M6
B411SHR08160S30U		8	11	25	160	26	130	M6
B411SHR08200S30U		8	11	29	200	26	170	M6
B411SHR10100S30U		10	13	21	100	31	70	M8
B411SHR10160S30U		10	13	27	160	31	130	M8
B411SHR10200S30U		10	13	31	200	31	170	M8
B411SHR12100S30U		12	15	23	100	36	70	M10
B411SHR12160S30U		12	15	29	160	36	130	M10
B411SHR12200S30U		12	15	33	200	36	170	M10
B511SHR06100S30U	BT50	6	9	16	100	22	60	S10
B511SHR06160S30U		6	9	22	160	22	120	S10
B511SHR08100S30U		8	11	18	100	26	60	M6
B511SHR08160S30U		8	11	24	160	26	120	M6
B511SHR10100S30U		10	13	20	100	31	60	M8
B511SHR10160S30U		10	13	26	160	31	120	M8
B511SHR12100S30U		12	15	22	100	36	60	M10
B511SHR12160S30U		12	15	28	160	36	120	M10

optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

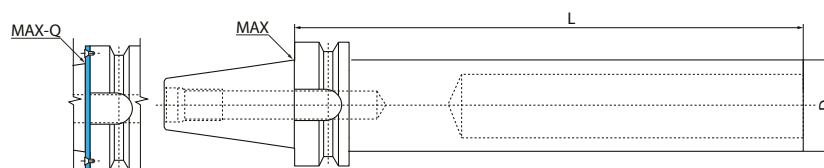
Balance / Wyważone G 2,5 25 000rpm

Seat runoff / Bicie: 0.003mm

BLA - BLANK ARBOR
BLA - UCHWYT NARZĘDZIOWY PÓŁFABRYKAT
BT JIS 6399 AD


EDP No MAX-Q	D	L
B311BLA64160	63.5	160
B311BLA64200	63.5	200
B411BLA64160	63.5	160
B411BLA64200	63.5	200
B511BLA99200	99	200
B511BLA99280	99	280

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

MASTER GAUGE
GŁÓWNY WZORNIK
BT JIS 6399 AD


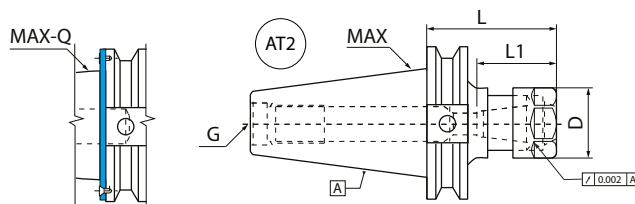
EDP No MAX-Q	D	L
B311MAG32235000	32	235
B311MAG32200000	32	200
B411MAG40320000	40	320
B411MAG40320000	40	320
B511MAG50320000	50	320
B511MAG50320000	50	320

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT1

Seat runout / Bicie: 0.002mm

ERC COLLET CHUCK

UCHWYT ERC Z TULEJĄ ZACISKOWĄ

SK JIS 6399 AD
FOR COLLETS ER DIN 6499
DO TULEJEK ER DIN 6499


EDP No MAX-Q	Taper Stożek	Collet Tuleje zaciskowe	Range Zakres	D	L	L1	G			
S411ERC07070U	SK40	ER11	0.5 ~ 7	19	70	15	M16	NSH11 NBH11	WRX11	TER11
S411ERC07100U			0.5 ~ 7	19	100	15				
S411ERC07160U			0.5 ~ 7	19	160	15				
S411ERC07200U			0.5 ~ 7	19	200	16				
S411ERC10063U		ER16	0.5 ~ 10	28	63	22		NSX16 NSH16 NBX16 NBH16	WRX16	TER16
S411ERC10070U			0.5 ~ 10	28	70	22				
S411ERC10100U			0.5 ~ 10	28	100	22				
S411ERC10160U			0.5 ~ 10	28	160	22				
S411ERC10200U		ER20	0.5 ~ 10	28	200	22		NSX20 NSH20 NBX20 NBH20	WRX20 WRC20	TER20
S411ERC13060U			1 ~ 13	34	60	26				
S411ERC13070U			1 ~ 13	34	70	26				
S411ERC13100U			1 ~ 13	34	100	26				
S411ERC13160U		ER25	1 ~ 13	34	160	26		NSH25 NBH25	WRH25	TER25
S411ERC13200U			1 ~ 16	42	60	29				
S411ERC16060U			1 ~ 16	42	70	29				
S411ERC16070U			1 ~ 16	42	100	29				
S411ERC16100U		ER32	1 ~ 16	42	160	29		NSH32 NBH32	WRH32	TER32
S411ERC16160U			1 ~ 16	42	200	29				
S411ERC16200U			2 ~ 20	50	70	34				
S411ERC20070U			2 ~ 20	50	100	34				
S411ERC20100U		ER40	2 ~ 20	50	160	34		NSH40 NBH40	WRH40	TER40
S411ERC20160U			2 ~ 20	50	200	34				
S411ERC20200U			3 ~ 26	63	80	38				
S411ERC26080U			3 ~ 26	63	100	38				
S411ERC26100U	ER16	3 ~ 26	63	160	38	NSX16 NSH16 NBX16 NBH16	WRX16	TER16		
S411ERC26160U		3 ~ 26	63	200	38					
S411ERC26200U		0.5 ~ 10	28	100	22					
S511ERC10100U		SK50	0.5 ~ 10	28	160				22	M24
S511ERC10160U	0.5 ~ 10		28	200	22					
S511ERC10200U	0.5 ~ 10		28	200	22					

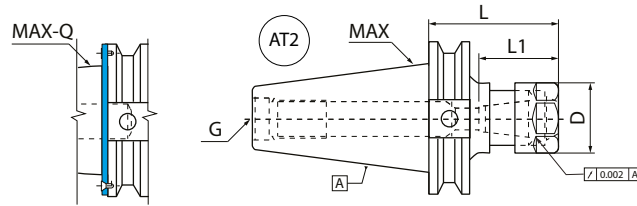
optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI

Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.003mm

ERC COLLET CHUCK
UCHWYT ERC Z TULEJĄ ZACISKOWĄ
SK JIS 6399 AD
**FOR COLLETS ER DIN 6499
DO TULEJEK ER DIN 6499**


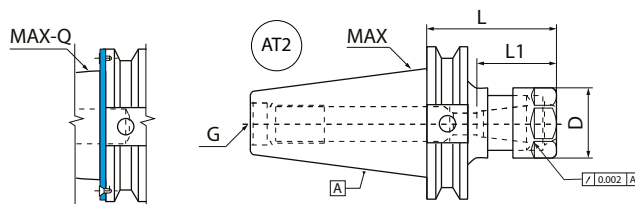
EDP No MAX-Q	Taper Stożek	Collet Tuleje zaciskowe	Range Zakres	D	L	L1	G			
S511ERC13100U	SK50	ER20	1 ~ 13	34	100	26	M24	NSX20 NSH20 NBX20 NBH20	WRX20 WRC20	TER20
S511ERC13160U			1 ~ 13	34	160	26				
S511ERC13200U			1 ~ 13	34	200	26				
S511ERC16100U		ER25	1 ~ 16	42	100	29		NSH25 NBH25	WRH25	TER25
S511ERC16160U			1 ~ 16	42	160	29				
S511ERC16200U			1 ~ 16	42	200	29				
S511ERC20070U		ER32	3 ~ 20	50	70	34		NSH32 NBH32	WRH32	TER32
S511ERC20100U			3 ~ 20	50	100	34				
S511ERC20160U			3 ~ 20	50	160	34				
S511ERC20200U			3 ~ 20	50	200	34				
S511ERC26100U		ER40	3 ~ 26	63	100	38		NSH40 NBH40	WRH40	TER40
S511ERC26105U			3 ~ 26	63	105	38				
S511ERC26160U			3 ~ 26	63	160	38				
S511ERC26200U			3 ~ 26	63	200	38				

optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.003mm

ERC COLLET CHUCK - MINI NUT
UCHWYT ERC Z TULEJĄ ZACISKOWĄ - MINI NAKRĘTKA
SK JIS 6399 AD
FOR ER COLLETS - MINI NUTS DIN 6499
DO TULEJEK ER - MAŁE NAKRĘTKI DIN 6499


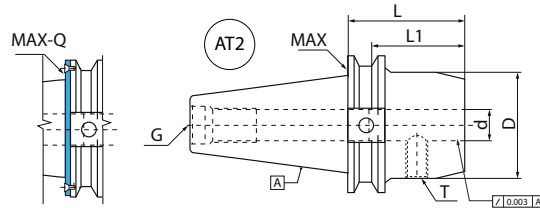
EDP No MAX-Q	Taper Stożek	Collet Tuleje zaciskowe	Range Zakres	D	L	L1	G			
S411ERC07070MU	SK40	ER11	0.5 ~ 7	16	70	15	M16	NTM11	WRM11	
S411ERC07100MU			0.5 ~ 7	16	100	15				
S411ERC10070MU		ER16	0.5 ~ 10	22	70	22		NTM16	WRM16	
S411ERC10100MU			0.5 ~ 10	22	100	22				
S411ERC10160MU			0.5 ~ 10	22	160	22				
S411ERC13070MU		ER20	ER20	1 ~ 13	28	70		26,5	NTM20	WRM20
S411ERC13100MU				1 ~ 13	28	100		26,5		
S411ERC13160MU				1 ~ 13	28	160		26,5		
S511ERC07100MU	SK50	ER11	0.5 ~ 7	16	100	15	M24	NTM11	WRM11	
S511ERC07160MU			0.5 ~ 7	16	100	15				
S511ERC10100MU		ER16	0.5 ~ 10	22	100	22		NTM16	WRM16	
S511ERC10160MU			0.5 ~ 10	22	160	22				
S511ERC13100MU		ER20	ER20	1 ~ 13	28	100		26	NTM20	WRM20
S511ERC13160MU				1 ~ 13	28	160		26		

optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.003mm

WLD - END MILL WELDON HOLDER
WLD - UCHWYT DO FREZÓW WELDON
SK JIS 6399 AD
**FOR HOLDER DIN 1835B WELDON
DO UCHWYTU WELDON DIN 1835B**


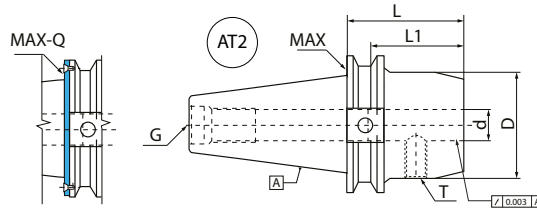
EDP No MAX-Q	Taper Stożek	d	D	L	L1	T	G
S411WLD06050U	SK40	6	25	50	30	M06	M16
S411WLD06100U		6	25	100	30	M06	
S411WLD06160U		6	25	160	30	M06	
S411WLD06200U		6	25	200	30	M06	
S411WLD08050U		8	28	50	35	M08	
S411WLD08100U		8	28	100	35	M08	
S411WLD08160U		8	28	160	35	M08	
S411WLD08200U		8	28	200	35	M08	
S411WLD10050U		10	35	50	39	M10	
S411WLD10100U		10	35	100	39	M10	
S411WLD10160U		10	35	160	39	M10	
S411WLD10200U		10	35	200	39	M10	
S411WLD12063U		12	42	63	44	M12	
S411WLD12100U		12	42	100	44	M12	
S411WLD12160U		12	42	160	44	M12	
S411WLD12200U		12	42	200	44	M12	
S411WLD14063U		14	42	63	44	M12	
S411WLD14100U		14	42	100	44	M12	
S411WLD16063U		16	48	63	47	M14	
S411WLD16100U		16	48	100	47	M14	
S411WLD16160U		16	48	160	47	M14	
S411WLD16200U		16	48	200	47	M14	
S411WLD18063U		18	48	63	47	M14	
S411WLD18100U		18	48	100	47	M14	
S411WLD20063U		20	48	63	55	M16	
S411WLD20100U		20	48	100	49	M16	
S411WLD20160U		20	52	160	49	M16	
S411WLD20200U		20	52	200	49	M16	
S411WLD25100U		25	65	100	64	M18	
S411WLD25160U		25	65	160	64	M18	
S411WLD25200U		25	65	200	64	M18	
S411WLD32100U		32	72	100	68	M20	
S411WLD32160U	32	72	160	68	M20		
S411WLD32200U	32	72	200	68	M20		

optional AD/B opcjonalnie AD/B

optional UC (with coolant slot) opcjonalnie UC (with coolant slot)

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25000rpm
Seat runout / Bicie: 0.003mm

WLD - END MILL WELDON HOLDER
WLD - UCHWYT DO FREZÓW WELDON
SK JIS 6399 AD
**FOR HOLDER DIN 1835B WELDON
DO UCHWYTU WELDON DIN 1835B**


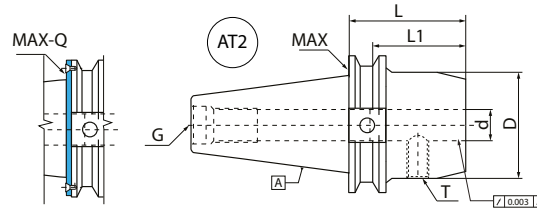
EDP No MAX-Q	Taper Stożek	d	D	L	L1	T	G
S411WLD40120U	SK40	40	80	120	78	M20	M16
S411WLD40160U		40	80	160	78	M20	
S411WLD40200U		40	80	200	78	M20	
S511WLD06063U	SK50	6	25	63	30	M06	M24
S511WLD06100U		6	25	100	30	M06	
S511WLD06160U		6	25	160	30	M06	
S511WLD06200U		6	25	200	30	M06	
S511WLD08063U		8	28	63	35	M08	
S511WLD08100U		8	28	100	35	M08	
S511WLD08160U		8	28	160	35	M08	
S511WLD08200U		8	28	200	35	M08	
S511WLD10063U		10	35	63	40	M10	
S511WLD10100U		10	35	100	40	M10	
S511WLD10160U		10	35	160	40	M10	
S511WLD10200U		10	35	200	40	M10	
S511WLD12063U		12	42	63	44	M12	
S511WLD12100U		12	42	100	44	M12	
S511WLD12160U		12	42	160	44	M12	
S511WLD12200U		12	42	200	44	M12	
S511WLD14063U		14	42	63	44	M12	
S511WLD14100U		14	42	100	44	M12	
S511WLD16063U		16	48	63	47	M14	
S511WLD16100U		16	48	100	47	M14	
S511WLD16160U		16	48	160	47	M14	
S511WLD16200U		16	48	200	47	M14	
S511WLD18063U		18	48	63	47	M14	
S511WLD18100U		18	48	100	47	M14	
S511WLD20063U		20	52	63	49	M16	
S511WLD20100U		20	52	100	49	M16	
S511WLD20160U		20	52	160	49	M16	
S511WLD20200U	20	52	200	49	M16		
S511WLD25100U	25	65	100	64	M18		
S511WLD25160U	25	65	160	64	M18		
S511WLD25200U	25	65	200	64	M18		

optional AD/B opcjonalnie AD/B

optional UC (with coolant slot) opcjonalnie UC (with coolant slot)

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25000rpm
Seat runout / Bicie: 0.003mm

WLD - END MILL WELDON HOLDER
WLD - UCHWYT DO FREZÓW WELDON
SK JIS 6399 AD
**FOR HOLDER DIN 1835B WELDON
DO UCHWYTU WELDON DIN 1835B**


EDP No MAX-Q	Taper Stożek	d	D	L	L1	T	G
S511WLD32100U	SK50	32	72	100	68	M20	M24
S511WLD32160U		32	72	160	68	M20	
S511WLD32200U		32	72	200	68	M20	
S511WLD40100U		40	80	100	78	M20	
S511WLD40130U		40	80	130	78	M20	
S511WLD40160U		40	80	160	78	M20	
S511WLD40200U		40	80	200	78	M20	
S511WLD50130U		50	90	130	83	M24	
S511WLD50160U		50	90	160	83	M24	
S511WLD50200U		50	90	200	83	M24	

optional AD/B opcjonalnie AD/B

optional UC (with coolant slot) opcjonalnie UC (with coolant slot)

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25000rpm

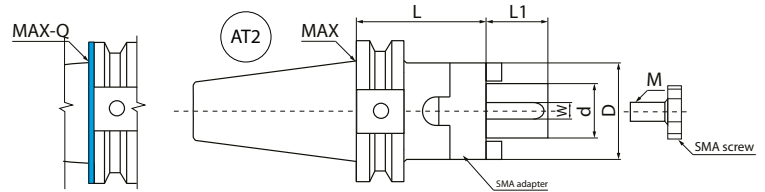
Seat runout / Bicie: 0.003mm

SMA - COMBI SHELL MILL HOLDER

SMA - UCHWYT FREZARSKIE Z ROWKIEM WPUSTOWYM

SK JIS 6399 AD

FOR HOLDER DIN 6358
DO UCHWYTÓW DIN 6358



EDP No MAX-Q	Taper Stożek	d	D	L	L1	W	M				
S411SMA16055U	SK40	16	32	55	27	4X20	M8	PNN16 PNK16	RNG16	LSC16	
S411SMA16100U			32	100	27	4X20	M8				
S411SMA16160U			32	160	27	4X20	M8				
S411SMA16200U			32	200	27	4X20	M8				
S411SMA22055U		22	22	40	55	31	6X25	M10	PNN22 PNK22	RNG22	LSC22
S411SMA22100U				40	100	31	6X25	M10			
S411SMA22160U				40	160	31	6X25	M10			
S411SMA22200U				40	200	31	6X25	M10			
S411SMA27055U		27	27	48	55	33	7X25	M12	PNN27 PNK27	RNG27	LSC27
S411SMA27100U				48	100	33	7X25	M12			
S411SMA27160U				48	160	33	7X25	M12			
S411SMA27200U				48	200	33	7X25	M12			
S411SMA32060U		32	32	58	60	38	8X28	M16	PNN32 PNK32	RNG32	LSC32
S411SMA32100U				58	100	38	8X28	M16			
S411SMA32160U				58	160	38	8X28	M16			
S411SMA32200U				58	200	38	8X28	M16			
S411SMA40060U		40	40	70	60	41	10X32	M20	PNN40 PNK40	RNG40	LSC40
S411SMA40100U				70	100	41	10X32	M20			
S411SMA40160U				70	160	41	10X32	M20			
S411SMA40200U				70	200	41	10X32	M20			
S511SMA16055U	SK50	16	32	55	27	4X20	M8	PNN16 PNK16	RNG16	LSC16	
S511SMA16100U			32	100	27	4X20	M8				
S511SMA16160U			32	160	27	4X20	M8				
S511SMA16200U			32	200	27	4X20	M8				
S511SMA22055U		22	22	40	55	31	6X25	M10	PNN22 PNK22	RNG22	LSC22
S511SMA22100U				40	100	31	6X25	M10			
S511SMA22160U				40	160	31	6X25	M10			
S511SMA22200U				40	200	31	6X25	M10			
S511SMA27055U		27	27	48	55	33	7X25	M12	PNN27 PNK27	RNG27	LSC27
S511SMA27100U				48	100	33	7X25	M12			
S511SMA27160U				48	160	33	7X25	M12			
S511SMA27200U				48	200	33	7X25	M12			

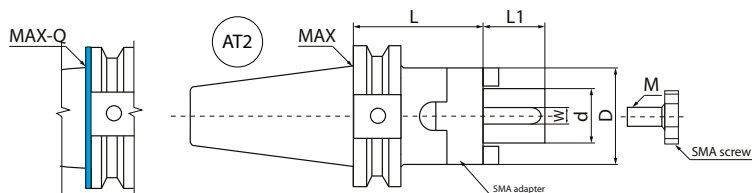
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FEATURES WŁAŚCIWOŚCI

Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25000rpm

Seat runout / Bicie: 0.005mm

SMA - COMBI SHELL MILL HOLDER
SMA - UCHWYT FREZARSKIE Z ROWKIEM WPUSTOWYM
SK JIS 6399 AD
**FOR HOLDER DIN 6358
DO UCHWYTÓW DIN 6358**


EDP No MAX-Q	Taper Stożek	d	D	L	L1	W	M				
S511SMA32055U	SK50	32	58	55	38	8X28	M16	PNN32 PNK32	RNG32	LSC32	
S511SMA32100U			58	100	38	8X28	M16				
S511SMA32160U			58	160	38	8X28	M16				
S511SMA32200U			58	200	38	8X28	M16				
S511SMA40055U		40	70	70	55	41	10X32	M20	PNN40 PNK40	RNG40	LSC40
S511SMA40100U				70	100	41	10X32	M20			
S511SMA40160U				70	160	41	10X32	M20			
S511SMA40200U				70	200	41	10X32	M20			

optional AD/B opcjonalnie AD/B

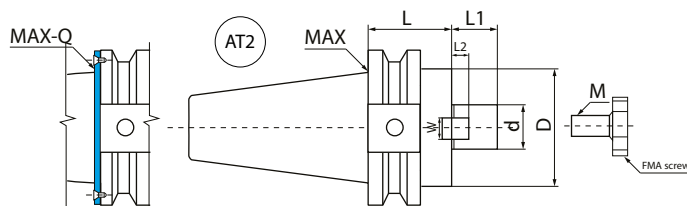
FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25000rpm

Seat runout / Bicie: 0.005mm

FMA - SHELL MILL HOLDER

FMA - TRZPIENIE FREZARSKIE ZABIERAKOWE

SK JIS 6399 AD
**FOR HOLDER DIN 6358
DO UCHWYTÓW DIN 6358**


EDP No MAX-Q	Taper Stożek	d	D	L	L1	L2	W	M		
S411FMA16035U	SK40	16	38	35	17	5	8	M08	DRK16	LSC16
S411FMA16100U		16	38	100	17	5	8	M08		
S411FMA16160U		16	38	160	17	5	8	M08		
S411FMA16200U		16	38	200	17	5	8	M08		
S411FMA22035U		22	50	35	19	5	10	M10	DRK22	LSC22
S411FMA22100U		22	50	100	19	5	10	M10		
S411FMA22160U		22	50	160	19	5	10	M10		
S411FMA22200U		22	50	200	19	5	10	M10		
S411FMA27040U		27	60	40	21	6	12	M12	DRK27	LSC27
S411FMA27100U		27	60	100	21	6	12	M12		
S411FMA27160U		27	60	160	21	6	12	M12		
S411FMA27200U		27	60	200	21	6	12	M12		
S411FMA32050U		32	78	50	24	7	14	M16	DRK32	LSC32
S411FMA32100U		32	78	100	24	7	14	M16		
S411FMA32160U		32	78	160	24	7	14	M16		
S411FMA40050U		40	89	50	27	8.5	16	M20	DRK40	LSC40
S411FMA40100U	40	89	100	27	8.5	16	M20			
S511FMA16035U	SK50	16	38	35	17	5	8	M8	DRK16	LSC16
S511FMA16100U			38	100	17	5	8	M8		
S511FMA16160U			38	160	17	5	8	M8		
S511FMA16200U			38	200	17	5	8	M8		
S511FMA22050U		22	50	50	19	5	10	M10	DRK22	LSC22
S511FMA22100U			50	100	19	5	10	M10		
S511FMA22160U			50	160	19	5	10	M10		
S511FMA22200U			50	200	19	5	10	M10		
S511FMA27050U		27	60	50	21	6	12	M12	DRK27	LSC27
S511FMA27100U			60	100	21	6	12	M12		
S511FMA27160U			60	160	21	6	12	M12		
S511FMA27200U			60	200	21	6	12	M12		

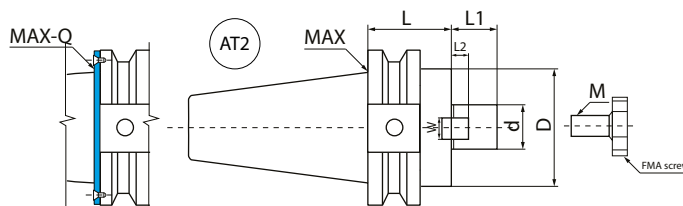
optional AD/B opcjonalnie AD/B

optional UC (with coolant slot) opcjonalnie UC (with coolant slot)

FEATURES WŁAŚCIWOŚCI

Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25000rpm
Seat runout / Bicie: 0.005mm

FMA - SHELL MILL HOLDER
FMA - TRZPIENIE FREZARSKIE ZABIERAKOWE
SK JIS 6399 AD
**FOR HOLDER DIN 6358
DO UCHWYTÓW DIN 6358**


EDP No MAX-Q	Taper Stożek	d	D	L	L1	L2	W	M		
S511FMA32050U	SK50	32	78	50	24	7	14	M16	DRK32	LSC32
S511FMA32100U	SK50		78	100	24	7	14	M16		
S511FMA32160U	SK50		78	160	24	7	14	M16		
S511FMA32200U	SK50		78	200	24	7	14	M16		
S511FMA40050U	SK50	40	89	50	27	8.5	16	M20	DRK40	LSC40
S511FMA40100U	SK50		89	100	27	8.5	16	M20		
S511FMA40160U	SK50		89	160	27	8.5	16	M20		
S511FMA40200U	SK50		89	200	27	8.5	16	M20		

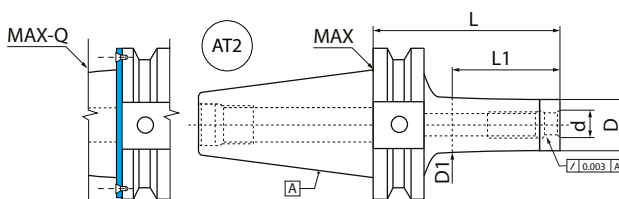
optional AD/B opcjonalnie AD/B

optional UC (with coolant slot) opcjonalnie UC (with coolant slot)

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25000rpm

Seat runout / Bicie: 0.005mm

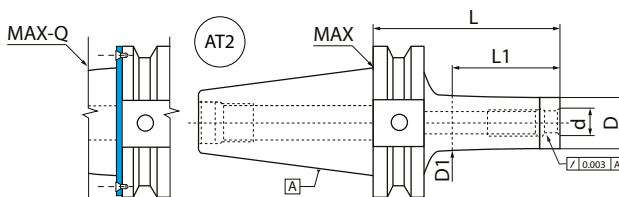
MCA - SCREW-IN HOLDER
MCA - UCHWYT DO FREZÓW Z GWINTEM
SK JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	M	
S411MCA08040U	SK40	8.5	15	15	40	10	M08	
S411MCA08065U		8.5	15	16	65	35	M08	
S411MCA08087U		8.5	13	23	87	50	M08	
S411MCA08100U		8.5	13	23	100	50	M08	
S411MCA08127U		8.5	13	23	127	50	M08	
S411MCA08160U		8.5	13	23	160	50	M08	
S411MCA08200U		8.5	13	23	200	50	M08	
S411MCA10040U		10.5	18	18	40	10	M10	
S411MCA10065U		10.5	18	20	65	30	M10	
S411MCA10087U		10.5	18	25	87	50	M10	
S411MCA10100U		10.5	18	25	100	50	M10	
S411MCA10127U		10.5	18	25	127	50	M10	
S411MCA10160U		10.5	18	25	160	50	M10	
S411MCA10200U		10.5	18	25	200	50	M10	
S411MCA12040U		12.5	21	21	40	10	M12	
S411MCA12065U		12.5	21	23	65	40	M12	
S411MCA12087U		12.5	21	24	87	50	M12	
S411MCA12100U		12.5	21	24	100	50	M12	
S411MCA12127U		12.5	21	35	127	90	M12	
S411MCA12160U		12.5	21	35	160	90	M12	
S411MCA12200U		12.5	21	35	200	90	M12	
S411MCA16040U		17	29	29	40	10	M16	
S411MCA16065U		17	29	33	65	40	M16	
S411MCA16087U		17	29	34	87	50	M16	
S411MCA16100U		17	29	34	100	65	M16	
S411MCA16127U		17	29	39	127	90	M16	
S411MCA16160U		17	29	39	160	90	M16	
S411MCA16200U		17	29	39	200	90	M16	
S511MCA08087U		SK50	12.5	13	23	87	40	M08
S511MCA08100U			12.5	13	23	100	50	M08
S511MCA08127U			12.5	13	23	127	50	M08
S511MCA10087U			12.5	18	25	87	30	M10
S511MCA10100U	12.5		18	25	100	50	M10	

optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25000rpm
Seat runout / Bicie: 0.003mm

MCA - SCREW-IN HOLDER
MCA - UCHWYT DO FREZÓW Z GWINTEM
SK JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	M
S511MCA10127U	SK50	12.5	18	25	127	50	M10
S511MCA12100U		12.5	21	24	100	65	M12
S511MCA12127U		12.5	21	35	127	90	M12
S511MCA12160U		12.5	21	35	160	90	M12
S511MCA12200U		12.5	21	35	200	90	M12
S511MCA16100U		17	29	34	100	65	M16
S511MCA16127U		17	29	39	127	90	M16
S511MCA16160U		17	29	39	160	90	M16
S511MCA16200U		17	29	39	200	90	M16

optional AD/B opcjonalnie AD/B

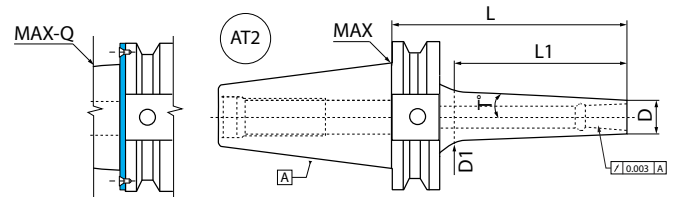
FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25000rpm

Seat runout / Bicie: 0.003mm

DCC - HIGH SPEED SLIM CHUCK

DCC - UCHWYT DO OBRÓBKI SZYBKOŚCIOWEJ

SK JIS 6399 AD


EDP No MAX-Q	Taper Stożek	D	D1	L	L1	T°	Collet Oprawka			
S411DCC06100U	SK40	13	19	100	75	2.5	HC06	COP0306 COP0406 COP0606	DR0640	SRS14 SRS24
S411DCC06160U		13	24	160	135	2.5				
S411DCC06200U		13	28	200	175	2.5				
S411DCC10100U		20	28	100	75	3.0	HC10	COP0410 COP0610 COP0810 COP1010	DR1040	SRS14 SRS24
S411DCC10160U		20	34	160	135	3.0				
S411DCC10200U		20	38	200	175	3.0				
S411DCC16100U		32	39	100	75	3.0	HC16	COP0410 COP0610 COP0810 COP1010	DR1640	SRS14 SRS24
S411DCC16160U		32	45	160	135	3.0				
S411DCC16200U		32	50	200	175	3.0				

optional AD/B opcjonalnie AD/B

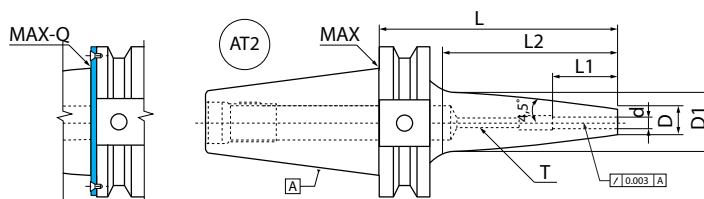
FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.003mm

SHR - 4,5° SHRINK FIT HOLDER

SHR - UCHWYT TERMOKURCZLIWY 4,5°

SK JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
S411SHR0308045U	SK40	3	10	18	80	15	48	S10
S411SHR0310045U		3	10	20	100	15	63.5	S10
S411SHR0316045U		3	10	20	160	15	63.5	S10
S411SHR0408045U		4	12	20	80	16	48	S10
S411SHR0410045U		4	12	23	100	16	68	S10
S411SHR0416045U		4	12	22	160	16	63.5	S10
S411SHR0508045U		5	12	20	80	20	48	S10
S411SHR0510045U		5	12	23	100	20	68	S10
S411SHR0516045U		5	12	22	160	20	63.5	S10
S411SHR0608045U		6	21	27	80	22	38	M05
S411SHR0610045U		6	21	27	100	22	38	M05
S411SHR0612045U		6	21	27	120	22	38	M05
S411SHR0616045U		6	21	27	160	22	38	M05
S411SHR0620045U		6	21	27	200	22	38	M05
S411SHR0808045U		8	21	27	80	22	38	M06
S411SHR0810045U		8	21	27	100	22	38	M06
S411SHR0812045U		8	21	27	120	22	38	M06
S411SHR0816045U		8	21	27	160	22	38	M06
S411SHR0820045U		8	21	27	200	22	38	M06
S411SHR1008045U		10	24	32	80	31	51	M08
S411SHR1010045U		10	24	32	100	31	51	M08
S411SHR1012045U		10	24	32	120	31	51	M08
S411SHR1016045U		10	24	32	160	31	51	M08
S411SHR1020045U		10	24	32	200	31	51	M08
S411SHR1208045U		12	24	32	80	31	51	M10
S411SHR1212045U		12	24	32	120	31	51	M10
S411SHR1216045U		12	24	32	160	31	51	M10
S411SHR1220045U		12	24	32	200	31	51	M10
S411SHR1408045U		14	27	34	80	36	44	M10
S411SHR1412045U		14	27	34	120	36	44	M10
S411SHR1416045U		14	27	34	160	36	44	M10
S411SHR1420045U		14	27	34	200	36	44	M10
S411SHR1608045U		16	27	34	80	36	44	M12
S411SHR1612045U	16	27	34	120	36	44	M12	

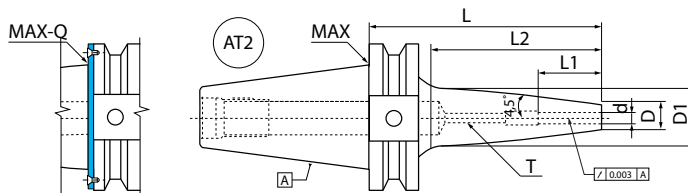
optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm
Seat runout / Bicie: 0.003mm

SHR - 4,5° SHRINK FIT HOLDER

SHR - UCHWYT TERMOKURCZLIWY 4,5°

SK JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
S411SHR1616045U	SK40	16	27	34	160	36	44	M12
S411SHR1620045U		16	27	34	200	36	44	M12
S411SHR1808045U		18	33	42	80	39	57	M16
S411SHR1812045U		18	33	42	120	39	57	M16
S411SHR1816045U		18	33	42	160	39	57	M16
S411SHR1820045U		18	33	42	200	39	57	M16
S411SHR2008045U		20	33	42	80	39	57	M16
S411SHR2012045U		20	33	42	120	39	57	M16
S411SHR2016045U		20	33	42	160	39	57	M16
S411SHR2020045U		20	33	42	200	39	57	M16
S411SHR2510045U		25	44	53	100	47	57	M16
S411SHR2512045U		25	44	53	120	47	57	M16
S411SHR2516045U		25	44	53	160	47	57	M16
S411SHR2520045U		25	44	53	200	47	57	M16
S411SHR3210045U		32	44	53	100	47	57	M16
S511SHR0310045U		SK50	3	10	19	100	15	58
S511SHR0316045U	3		10	20	160	15	63.5	S10
S511SHR0320045U	3		10	20	200	15	63.5	S10
S511SHR0410045U	4		12	19	100	16	58	S10
S511SHR0416045U	4		12	22	160	16	63.5	S10
S511SHR0420045U	4		12	22	200	16	63.5	S10
S511SHR0510045U	5		12	21	100	20	58	S10
S511SHR0608045U	6		21	27	80	22	38	M05
S511SHR0610045U	6		21	27	100	22	38	M05
S511SHR0616045U	6		21	27	160	22	38	M05
S511SHR0620045U	6		21	27	200	22	38	M05
S511SHR0808045U	8		21	27	80	22	38	M06
S511SHR0810045U	8		21	27	100	22	38	M06
S511SHR0816045U	8		21	27	160	22	38	M06
S511SHR0820045U	8		21	27	200	22	38	M06
S511SHR1008045U	10		24	32	80	31	51	M08
S511SHR1010045U	10		24	32	100	31	51	M08
S511SHR1016045U	10		24	32	160	31	51	M08
S511SHR1020045U	10	24	32	200	31	51	M08	

optional AD/B opcjonalnie AD/B

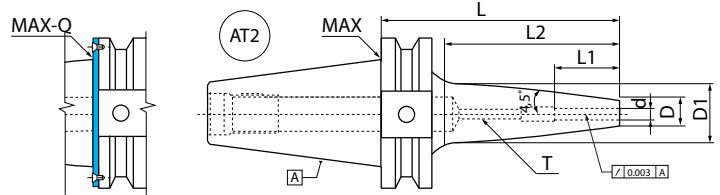
FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.003mm

SHR - 4,5° SHRINK FIT HOLDER

SHR - UCHWYT TERMOKURCZLIWY 4,5°

SK JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
S511SHR1208045U	SK50	12	24	32	80	31	51	M10
S511SHR1210045U		12	24	32	100	31	51	M10
S511SHR1216045U		12	24	32	160	31	51	M10
S511SHR1220045U		12	24	32	200	31	51	M10
S511SHR1408045U		14	27	34	80	36	44	M10
S511SHR1410045U		14	27	34	100	36	44	M10
S511SHR1416045U		14	27	34	160	36	44	M10
S511SHR1420045U		14	27	34	200	36	44	M10
S511SHR1608045U		16	27	34	80	36	44	M12
S511SHR1610045U		16	27	34	100	36	44	M12
S511SHR1616045U		16	27	34	160	36	44	M12
S511SHR1620045U		16	27	34	200	36	44	M12
S511SHR1808045U		18	33	42	80	39	57	M16
S511SHR1810045U		18	33	42	100	39	57	M16
S511SHR1816045U		18	33	42	160	39	57	M16
S511SHR1820045U		18	33	42	200	39	57	M16
S511SHR2008045U		20	33	42	80	39	57	M16
S511SHR2010045U		20	33	42	100	39	57	M16
S511SHR2016045U		20	33	42	160	39	57	M16
S511SHR2020045U		20	33	42	200	39	57	M16
S511SHR2510045U		25	44	53	100	47	58	M16
S511SHR2516045U		25	44	53	160	47	58	M16
S511SHR2520045U		25	44	53	200	47	58	M16
S511SHR3210045U		32	44	53	100	47	58	M16
S511SHR3216045U		32	44	53	160	47	58	M16
S511SHR3220045U		32	44	53	200	47	58	M16

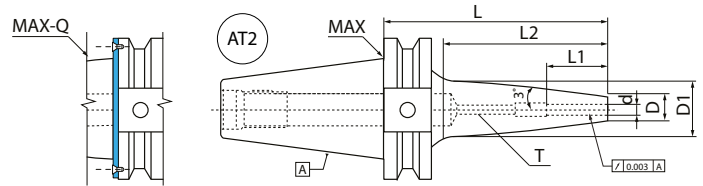
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FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm
Seat runout / Bicie: 0.003mm

SHR - 3° SHRINK FIT HOLDER

SHR - UCHWYT TERMOKURCZLIWY 3°

SK JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
S411SHR0308030U	SK40	3	9	15	80	15	50	S10
S411SHR0310030U		3	9	17	100	15	70	S10
S411SHR0316030U		3	9	23	160	15	130	S10
S411SHR0408030U		4	10	16	80	16	50	S10
S411SHR0410030U		4	10	18	100	16	70	S10
S411SHR0416030U		4	10	24	160	16	130	S10
S411SHR0508030U		5	11	17	80	20	50	S10
S411SHR0516030U		5	11	19	160	20	70	S10
S411SHR0608030U		6	11	25	80	20	130	S10
S411SHR0610030U		6	12	18	100	22	50	S10
S411SHR0612030U		6	12	20	120	22	70	S10
S411SHR0616030U		6	12	26	160	22	130	S10
S411SHR0620030U		6	12	30	200	22	170	S10
S411SHR0808030U		8	14	20	80	26	50	M6
S411SHR0810030U		8	14	22	100	26	70	M6
S411SHR0812030U		8	14	28	120	26	130	M6
S411SHR0816030U		8	14	32	160	26	170	M6
S411SHR0820030U		8	16	22	200	31	50	M6
S411SHR1008030U		10	16	24	80	31	70	M8
S411SHR1010030U		10	16	30	100	31	130	M8
S411SHR1012030U		10	16	34	120	31	170	M8
S411SHR1016030U		10	18	24	160	36	50	M8
S411SHR1020030U		10	18	26	200	36	70	M8
S411SHR1208030U		12	18	32	80	36	130	M10
S411SHR1212030U		12	18	36	120	36	170	M10
S411SHR1216030U		12	22	28	160	39	50	M10
S411SHR1220030U		12	22	30	200	39	70	M10
S411SHR1608030U		16	22	36	80	39	130	M12
S411SHR1612030U		16	22	40	120	39	170	M12
S411SHR1616030U		16	27	33	160	41	50	M12
S411SHR1620030U		16	27	35	200	41	70	M12
S411SHR2008030U		20	27	41	80	41	130	M16
S411SHR2012030U	20	27	45	120	41	170	M16	

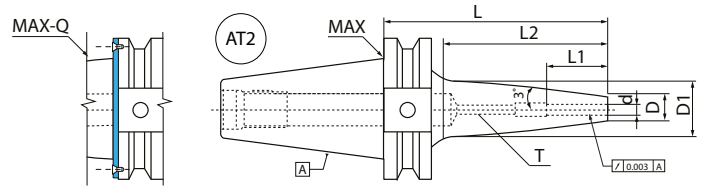
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FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm
Seat runout / Bicie: 0.003mm

SHR - 3° SHRINK FIT HOLDER

SHR - UCHWYT TERMOKURCZLIWY 3°

SK JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
S411SHR2016030U	SK40	20	34	42	160	47	70	M16
S411SHR2020030U		20	34	48	200	47	130	M16
S411SHR2510030U		25	34	52	100	47	170	M16
S411SHR2512030U		25	34	44	120	47	90	M16
S411SHR2516030U		25	34	48	160	47	130	M16
S411SHR2520030U		25	34	52	200	47	170	M16
S511SHR0610030U	SK50	6	12	19	100	22	60	S10
S511SHR0616030U		6	12	25	160	22	120	S10
S511SHR0620030U		6	12	29	200	22	160	S10
S511SHR0810030U		8	14	21	100	26	60	M6
S511SHR0816030U		8	14	27	160	26	120	M6
S511SHR0820030U		8	14	31	200	26	160	M6
S511SHR1010030U		10	16	23	100	31	60	M8
S511SHR1016030U		10	16	29	160	31	120	M8
S511SHR1020030U		10	16	33	200	31	160	M8
S511SHR1210030U		12	18	25	100	36	60	M10
S511SHR1216030U		12	18	31	160	36	120	M10
S511SHR1220030U		12	18	35	200	36	160	M10
S511SHR1610030U		16	22	29	100	39	60	M12
S511SHR1616030U		16	22	35	160	39	120	M12
S511SHR1620030U		16	22	39	200	39	160	M12
S511SHR2010030U		20	27	34	100	41	60	M16
S511SHR2016030U		20	27	40	160	41	120	M16
S511SHR2020030U		20	27	44	200	41	160	M16
S511SHR2510030U		25	34	41	100	47	60	M16
S511SHR2516030U		25	34	47	160	47	120	M16
S511SHR2520030U		25	34	51	200	47	160	M16

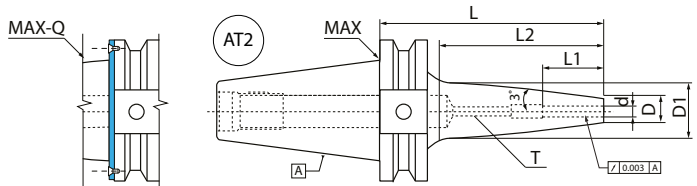
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FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm
Seat runout / Bicie: 0.003mm

SHR - 3° SHRINK FIT HOLDER - SLIM

SHR - UCHWYT TERMOKURCZLIWY 3° - SMUKŁY

SK JIS 6399 AD


EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
S411SHR03080S30U	SK40	3	6	12	80	15	50	S10
S411SHR03100S30U		3	6	14	100	15	70	S10
S411SHR03160S30U		3	6	20	160	15	130	S10
S411SHR04080S30U		4	7	13	80	16	50	S10
S411SHR04100S30U		4	7	15	100	16	70	S10
S411SHR04160S30U		4	7	21	160	16	130	S10
S411SHR05080S30U		5	8	14	80	20	50	S10
S411SHR05160S30U		5	8	22	160	20	130	S10
S411SHR06080S30U		6	9	15	80	22	50	M05
S411SHR06100S30U		6	9	17	100	22	70	M05
S411SHR06160S30U		6	9	23	160	22	130	M05
S411SHR06200S30U		6	9	27	200	22	170	M05
S411SHR08080S30U		8	11	17	80	26	50	M06
S411SHR08100S30U		8	11	19	100	26	70	M06
S411SHR08160S30U		8	11	25	160	26	130	M06
S411SHR08200S30U		8	11	29	200	26	170	M06
S411SHR10080S30U		10	13	19	80	31	50	M08
S411SHR10100S30U		10	13	21	100	31	70	M08
S411SHR10160S30U		10	13	27	160	31	130	M08
S411SHR10200S30U		10	13	31	200	31	170	M08
S411SHR12080S30U		12	15	21	80	36	50	M10
S411SHR12160S30U		12	15	29	100	36	70	M10
S411SHR12200S30U		12	15	33	160	36	130	M10
S411SHR16080S30U		12	24	29	200	36	170	M10
S411SHR16160S30U		16	24	38	160	39	130	M12
S411SHR16200S30U		16	24	42	200	39	170	M12
S411SHR20080S30U		20	29	34	80	41	50	M12
S411SHR20160S30U		20	29	43	160	41	130	M16
S411SHR20200S30U		20	29	47	200	41	170	M16

optional AD/B opcjonalnie AD/B

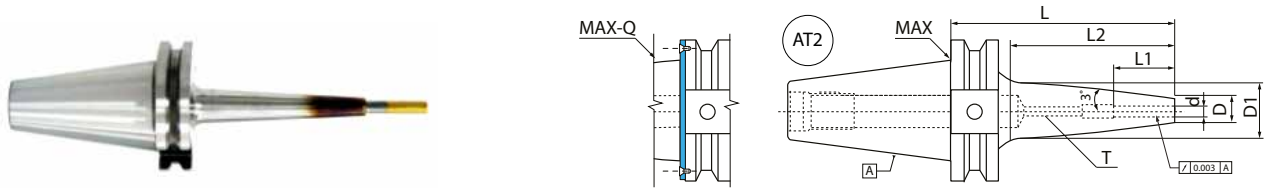
FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.003mm

SHR - 3° SHRINK FIT HOLDER - SLIM

SHR - UCHWYT TERMOKURCZLIWY - SMUKŁY

SK JIS 6399 AD


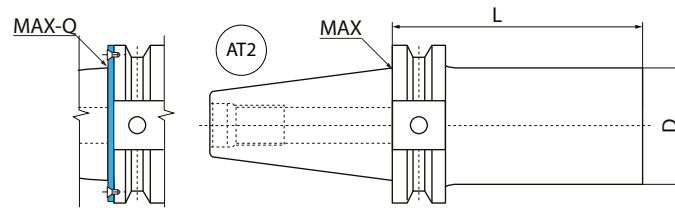
EDP No MAX-Q	Taper Stożek	d	D	D1	L	L1	L2	T
S511SHR06100S30U	SK50	6	9	16	100	22	60	M05
S511SHR06160S30U		6	9	22	160	22	120	M05
S511SHR08100S30U		8	11	18	100	26	60	M06
S511SHR08160S30U		8	11	24	160	26	120	M06
S511SHR10100S30U		10	13	20	100	31	60	M08
S511SHR10160S30U		10	13	26	160	31	120	M08
S511SHR12100S30U		12	15	22	100	36	60	M10
S511SHR12160S30U		12	15	28	160	36	120	M10

optional AD/B opcjonalnie AD/B

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

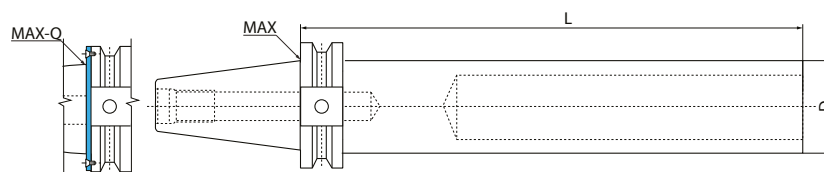
Balance / Wyważone G 2,5 25 000rpm

Seat runout / Bicie: 0.003mm

BLA - BLANK ARBOR
BLA - UCHWYT NARZĘDZIOWY PÓLFABRYKAT
SK JIS 6399 AD


EDP No MAX-Q	D	L
S301BLA64160	63.5	160
S301BLA64250	63.5	250
S401BLA64250	63.5	250
S401BLA96315	95.5	315

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT2

BLANK ARBOR
UCHWYT NARZĘDZIOWY PÓLFABRYKAT
SK JIS 6399 AD


EDP No MAX-Q	D	L
S301MAG40320	40	320
S301MAG41320	40	320
S401MAG50320	50	320
S401MAG51320	50	320

FEATURES WŁAŚCIWOŚCI
Taper Angle Tolerance / Tolerancja stożka: AT1

Seat runout / Bicie 0.002mm

ACCESSORIES AKCESORIA

Set Screw Śruba nastawcza

EDP No	Type Typ
SCR06	6
SCR08	8
SCR10	10
SCR12	12
SCR16	16
SCR20	20
SCR25	25
SCR32	32
SCR40	40
SCR50	50
SCR63	63



Driving Key Klucz prowadzący

EDP No	Pilot Size Rozmiar prowadnika
DRK16	FMU16
DRK22	FMU22
DRK27	FMU27
DRK32	FMU32
DRK40	FMU40



Lock screws Śruby blokujące

EDP No	Pilot Size Rozmiar prowadnika
LSC16	FMU16
LSC22	FMU22
LSC27	FMU27
LSC32	FMU32
LSC40	FMU40



HC Collets Oprawka HC

EDP No	Collet Tuleje zaciskowe	Shank Uchwyt
COP0306	HCU06	3
COP0406	HCU06	4
COP0606	HCU06	6
COP0410	HCU10	4
COP0610	HCU10	6
COP0810	HCU10	8
COP1010	HCU10	10



HC Drawbar Screw HC śruba dyszli

EDP No
DR0630
DR1030
DR0640
DR1040



HC Screw HC śruba

EDP No
SRS14
SRS24



ACCESSORIES AKCESORIA

ER Collet Nuts - Standard Nakrętki Oprawki ER - Standardowe

EDP No	Collet Tuleje zaciskowe	Thread Gwint	Type Typ
NSX11	ERU11	M14x0.75	Hex
NSX16	ERU16	M22x1,5	Hex
NSH16	ERU16	M22x1,5	Hook
NSX20	ERU20	M25x1,5	Hex
NSH20	ERU20	M25x1,5	Hook
NSH25	ERU25	M32x1,5	Hook
NSH32	ERU32	M40x1,5	Hook
NSH40	ERU40	M50x1,5	Hook

ER Collet Nuts <1g-mm Nakrętki Uchwytu ER <1g-mm

EDP No	Collet Tuleje zaciskowe	Thread Gwint	Type Typ
NBX16	ERU16	M22x1,5	Hex
NBH16	ERU16	M22x1,5	Hook
NBX20	ERU20	M25x1,5	Hex
NBH20	ERU20	M25x1,5	Hook
NBH25	ERU25	M32x1,5	Hook
NBH32	ERU32	M40x1,5	Hook
NBH40	ERU40	M50x1,5	Hook



Hex



Hook

Mini Nut Mini nakrętka

ED No	Collet Tuleje zaciskowe	Thread Gwint
NTM08	ERU08	M22x1,5
NTM11	ERU11	M22x1,5
NTM16	ERU16	M25x1,5
NTM20	ERU20	M25x1,5



Backup Screws Śruby zabezpieczające

ED No	Collet Tuleje zaciskowe	Type Ty
TER16	ER16	M12x1,5-LH
TER20	ER20	M14x1,5-LH
TER25	ER25	M18x1,5-LH
TER32	ER32	M24x1,5-LH
TER40	ER40	M28x1,5-LH


Backup Screws
Śruby zabezpieczające

MINI Wrench Klucz MINI

EDP No	Collet Tuleje zaciskowe
WRM08	ERU08
WRM11	ERU11
WRM16	ERU16
WRM20	ERU20



ER Collet Nut Wrenches Klucze do oprawek ER

EDP No	Collet Tuleje zaciskowe	Type Typ
WRX11	ERU11	Hex
WRX16	ERU16	Hex
WRX20	ERU20	Hex
WRH25	ERU25	Hook
WRH32	ERU32	Hook
WRH40	ERU40	Hook



Hex Wrench Klucz



C type Wrench Klucz

ACCESSORIES AKCESORIA

Apply for Pasuje do	Pin 1	Pin 2
	for improving unbalanceable effect do poprawy sztywności	for slot key do rowków
SMU16	PNN16	PNK16
SMU22	PNN22	PNK22
SMU27	PNN27	PNK27
SMU32	PNN32	PNK32
SMU40	PNN40	PNK40



Driving ring Pierścień prowadzący

EDP No	Pilot Size Rozmiar prowadnika
RNG16	SMU16
RNG22	SMU22
RNG27	SMU27
RNG32	SMU32
RNG40	SMU40



Lock screws Śruby blokujące

EDP No	Pilot Size Rozmiar prowadnika
LSC16	SMU16
LSC22	SMU22
LSC27	SMU27
LSC32	SMU32
LSC40	SMU40



BT Pull Stud wo/center coolant BT Śruba ściągająca wo/centralnie chłodzona

EDP No	θ	L	L1	L2	d1	d2	d3	M
SPS04501130	45	43	23	18	11	7	12,5	M12
SPS06001130	60	43	23	18	11	7	12,5	M12
SPS09001130	90	43	23	18	11	7	12,5	M12
SPS04501540	45	60	35	28	15	10	17	M16
SPS06001540	60	60	35	28	15	10	17	M16
SPS09001540	90	60	35	28	15	10	17	M16
SPS04502350	45	85	45	35	23	17	25	M24
SPS06002350	60	85	45	35	23	17	25	M24
SPS09002350	90	85	45	35	23	17	25	M24



BT Pull Stud wo/center coolant BT Śruba ściągająca wo/centralnie chłodzona

EDP No	θ	L	L1	L2	d1	d2	d3	d4	M
SPS045W1540	45	60	35	28	15	10	17	4	M16
SPS060W1540	60	60	35	28	15	10	17	4	M16
SPS090W1540	90	60	35	28	15	10	17	4	M16
SPS045W2350	45	85	45	35	23	17	25	7	M24
SPS060W2350	60	85	45	35	23	17	25	7	M24
SPS090W2350	90	85	45	35	23	17	25	7	M24

ACCESSORIES AKCESORIA

ERC COLLET TULEJA ZACISKOWA ERC



ER16 Collet Tuleja zaciskowa ER16

EDP No	Clamping Range Zakres zacisku (mm)
ERC1103	3,0-2,0
ERC1104	4,0-3,0
ERC1105	5,0-4,0
ERC1106	6,0-5,0
ERC1107	7,0-6,0

ER16 Collet Tuleja zaciskowa ER16

EDP No	Clamping Range Zakres zacisku (mm)
ERC1603	3,0-2,0
ERC1604	4,0-3,0
ERC1605	5,0-4,0
ERC1606	6,0-5,0
ERC1607	7,0-6,0
ERC1608	8,0-7,0
ERC1609	9,0-8,0
ERC1610	10,0-9,0

ER20 Collet Tuleja zaciskowa ER20

EDP No	Clamping Range Zakres zacisku (mm)
ERC2003	3,0-2,0
ERC2004	4,0-3,0
ERC2005	5,0-4,0
ERC2006	6,0-5,0
ERC2007	7,0-6,0
ERC2008	8,0-7,0
ERC2009	9,0-8,0
ERC2010	10,0-9,0
ERC2011	11,0-10,0
ERC2012	12,0-11,0
ERC2013	13,0-12,0

ER32 Collet Tuleja zaciskowa ER32

EDP No	Clamping Range Zakres zacisku (mm)
ERC3203	3,0-2,0
ERC3204	4,0-3,0
ERC3205	5,0-4,0
ERC3206	6,0-5,0
ERC3207	7,0-6,0
ERC3208	8,0-7,0
ERC3209	9,0-8,0
ERC3210	10,0-9,0
ERC3211	11,0-10,0
ERC3212	12,0-11,0
ERC3213	13,0-12,0
ERC3214	14,0-13,0
ERC3215	15,0-14,0
ERC3216	16,0-15,0
ERC3217	17,0-16,0
ERC3218	18,0-17,0
ERC3219	19,0-18,0
ERC3220	20,0-19,0

ER40 Collet Tuleja zaciskowa ER40

EDP No	Clamping Range Zakres zacisku (mm)
ERC4003	3,0-2,0
ERC4004	4,0-3,0
ERC4005	5,0-4,0
ERC4006	6,0-5,0
ERC4007	7,0-6,0
ERC4008	8,0-7,0
ERC4009	9,0-8,0
ERC4010	10,0-9,0
ERC4011	11,0-10,0
ERC4012	12,0-11,0
ERC4013	13,0-12,0
ERC4014	14,0-13,0
ERC4015	15,0-14,0
ERC4016	16,0-15,0
ERC4017	17,0-16,0
ERC4018	18,0-17,0
ERC4019	19,0-18,0
ERC4020	20,0-19,0
ERC4021	21,0-20,0
ERC4022	22,0-21,
ERC4023	23,0-22,0
ERC4024	24,0-23,0
ERC4025	25,0-24,0
ERC4026	26,0-25,0

ERC COLLET TULEJA ZACISKOWA ERC**ER25 Collet Tuleja zaciskowa ER25**

EDP No	Clamping Range Zakres zacisku (mm)
ERC2503	3,0-2,0
ERC2504	4,0-3,0
ERC2505	5,0-4,0
ERC2506	6,0-5,0
ERC2507	7,0-6,0
ERC2508	8,0-7,0
ERC2509	9,0-8,0
ERC2510	10,0-9,0
ERC2511	11,0-10,0
ERC2512	12,0-11,0
ERC2513	13,0-12,0
ERC2514	14,0-13,0
ERC2515	15,0-14,0
ERC2516	16,0-15,0



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