



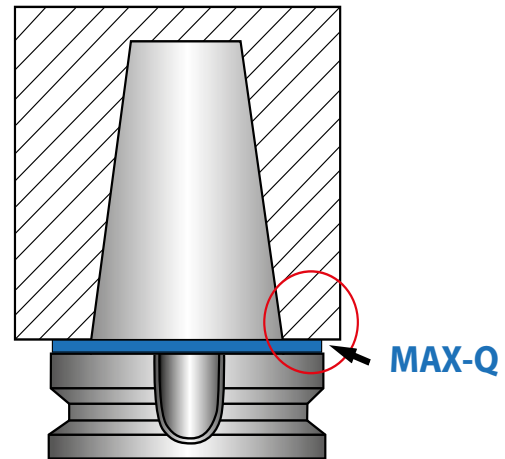
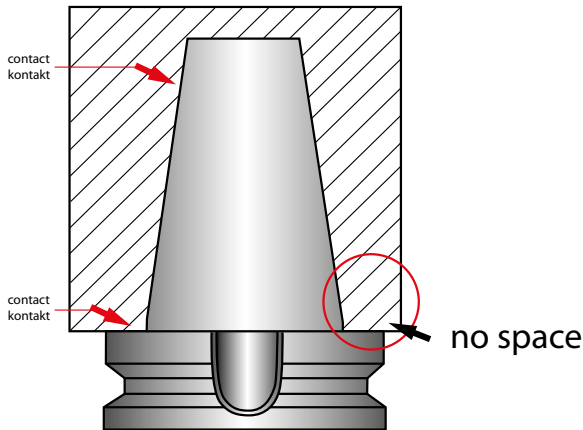
# **ULTRA PRECISION TOOLHOLDERS**

## ОПРАВКИ INFINITY

---

**BT/SK**  
**MAX / MAX-Q**

- **Gap between toolholder and spindle is eliminated by dual face contact design.**
- Зазор между оправкой и штоком был устранён с помощью конструкции двойной поверхности соединения.
- **Operation stability, dimension precision, and spindle life will all be improved.**
- Лучшая стабильность операций, точность измерений и меньший износ штока.



### MAX toolholder / оправка MAX

- Toolholder for spindle with dual contact option.

### Max- Q toolholder / оправка MAX-Q

- Dual face contact to holder for all kind of spindle.

### Advantages / Преимущества

**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.**

Благодаря двухконтактной функции, значительно увеличивается жёсткость и точность оправки. Это даёт возможность получить высокую точность и качество получаемой поверхности при скоростной обработке.

**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.**

Оправки серии MAX-Q могут использоваться со всеми видами шпинделей. Это исключает потребность в дорогостоящем оснащении шпинделя двойным контактом.

**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!**

Жёсткость оправок MAX и MAX-Q значительно снижает биение оправок, что увеличивает время эксплуатации инструмента и снижает затраты на его покупку при одновременном увеличении производительности.

**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.**

Оправки MAX и MAX-Q - благодаря функции двойного контакта, значительно снижается трение конуса оправки в шпинделе, что значительно увеличивает время эксплуатации шпинделя.

**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.**

Оправки MAX и MAX-Q значительно снижают вибрации. Производственный процесс отличается стабильностью.

**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.**

При повышенной скорости оборотов, оправка под влиянием центробежной силы, может заблокироваться в шпинделе, но оправки MAX и MAX-Q исключают такую возможность.

# ULTRA-PRECISION TOOLHOLDER MAX AND MAX-Q

## СВЕРХТОЧНЫЕ ОПРАВКИ MAX и MAX-Q



### Cone Angle Tolerance

Погрешность конуса < AT3 (ISO 1947)

### TOLERANCE / ПОГРЕШНОСТЬ

★ **AT5 - The worst acceptable performance**  
 Наименьший из допустимых уровней качества

★★ **AT4 - OK for standard machine**  
 Допустимо для стандартных моделей станков

★★★ **AT3 - Standard performance**  
 Стандартное исполнение

★★★★ **AT2 - Close to pattern performance**  
 Исполнение близкое к образцово-показательному

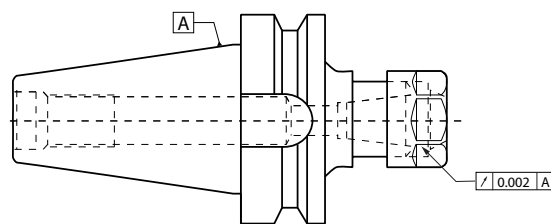
★★★★★ **AT1 - Pattern performance**  
 Образцово-показательное исполнение

#### AT5

- **Damage spindles**
- **Degrade machine precision**
- **Incrade machine cost**
- **Behind of your competitor**
- Повреждает шпиндель
- Понижает качество исполнения
- Увеличивает стоимость эксплуатации оборудования
- Увеличивает Вашу конкурентность

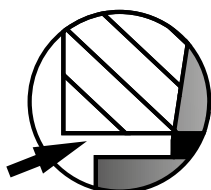
#### AT1

- **Protected spindles**
- **Upgrade machine precision**
- **Low machine cost**
- **Ahead of your competitor**
- Увеличивает время эксплуатации шпинделя
- Увеличивает точность исполнения
- Уменьшает стоимость эксплуатации оборудования
- Уменьшает Вашу конкурентность

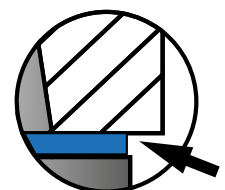


### Seat Runour / Биение

- **Increases machine precision**
- **Better surface quality**
- **Protected spindles**
- Увеличивает точность оборудования
- Увеличивает качество поверхности
- Увеличивает время эксплуатации инструмента



Standard



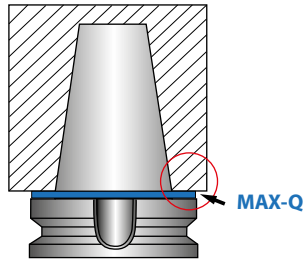
MAX-Q

## INFINITY SERIES Toolholder

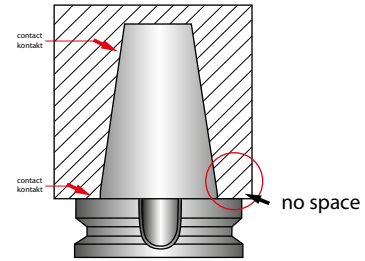
СЕРИЯ INFINITY Оправка

### Code decription for BT, SK

Наименование кода BT,SK



**1 - MAX-Q**



**2 - MAX**

0	AD/B
1	AD
2	A

**Length L**  
Длина L

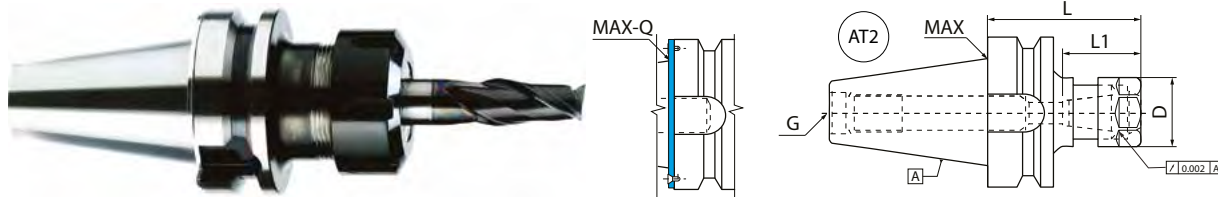
**Ultra-precise**  
Сверхточные

**B31 1 ERC 07 070 U**

Taper type Тип конуса
<b>B3 = BT30</b>
<b>B4 = BT40</b>
<b>B5 = BT50</b>
<b>S4 = SK40</b>
<b>S5 = SK50</b>

Type of toolholder Вид оправки	
ERC	<b>COLLET CHUCK</b> ЦАНГОВЫЙ ПАТРОН UCHWYT Z TULEJĄ ZACISKOWĄ
WLD	<b>END MILL WELDON HOLDER</b> ДЕРЖАТЕЛЬ ФРЕЗЫ WELDON
SMA	<b>COMBI SHELL MILL HOLDER</b> ДЕРЖАТЕЛЬ ФРЕЗЫ
FMA	<b>SHELL MILL HOLDER</b> ШТОК ФРЕЗЕРОВОЧНЫЙ
MCA	<b>SCREW-IN HOLDER</b> ДЕРЖАТЕЛЬ ФРЕЗЫ В РЕЗЬБОЙ
DCC	<b>HIGH SPEED SLIM CHUCK</b> ДЕРЖАТЕЛЬ ДЛЯ СКОРОСТНОЙ ОБРАБОТКИ
SHR	<b>SHRINK FIT HOLDER</b> ДЕРЖАТЕЛЬ ТЕРМОУСАДОЧНЫЙ

**d - mountin diameter cutter**  
диаметр держателя фрезы

**ERC COLLET CHUCK**
**ЦАНГОВЫЙ ПАТРОН ERC**
**BT JIS 6399 AD**
**FOR COLLETS ER DIN 6499**  
**ДЛЯ ЦАНГ ER DIN 6499**


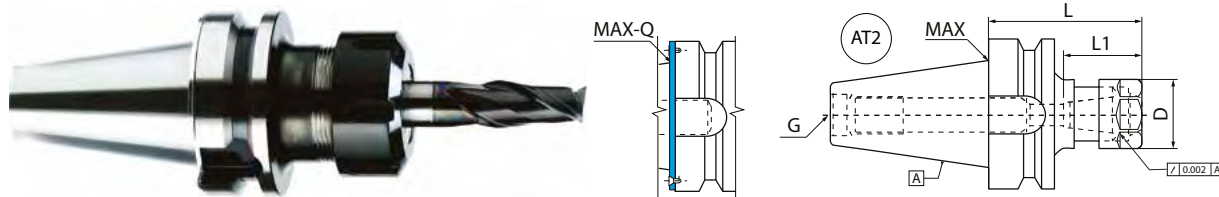
EDP No MAX-Q	Taper Конус	Collet Цанги	Range Диапазон	D	L	L1	G			
B311ERC07070U	BT30	ER11	0.5 ~ 7	19	70	17	M12	NSX11 NBX11	WRX11	TER11
B311ERC07100U		ER11	0.5 ~ 7	19	100	17				
B311ERC07160U		ER11	0.5 ~ 7	19	160	17				
B311ERC10070U		ER16	0.5 ~ 10	28	70	22		NSX16 NSH16 NBX16 NBH16	WRX16	TER16
B311ERC10100U		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				
B311ERC13100U		ER20	1 ~ 13	34	100	26				
B311ERC13160U		ER20	1 ~ 13	34	160	26		NSX20 NSH20 NBX20 NBH20	WRX20 WRC20	TER20
B311ERC16060U		ER25	1 ~ 16	42	60	29				
B311ERC16070U		ER25	1 ~ 16	42	70	29				
B311ERC16100U		ER25	1 ~ 16	42	100	29		NSH25 NBH25	WRH25	TER25
B311ERC16160U		ER25	1 ~ 16	42	160	29				
B311ERC20070U		ER32	1 ~ 20	50	70	34				
B311ERC20100U		ER32	1 ~ 20	50	100	34		NSH32 NBH32	WRH32	TER32
B311ERC20160U		ER32	1 ~ 20	50	160	34				
B411ERC07070U		BT40	ER11	0.5 ~ 7	50	70				
B411ERC07100U	ER11		0.5 ~ 7	19	100	17				
B411ERC07160U	ER11		0.5 ~ 7	19	160	17				
B411ERC07200U	ER11		0.5 ~ 7	19	200	17	NSX16 NSH16 NBX16 NBH16	WRX16	TER16	
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				
B411ERC13060U	ER20		1 ~ 13	28	60	26	NSX20 NSH20 NBX20 NBH20	WRX20 WRC20	TER20	
B411ERC13070U	ER20		1 ~ 13	34	70	26				
B411ERC13100U	ER20		1 ~ 13	34	100	26				
B411ERC13160U	ER20		1 ~ 13	34	160	26				
B411ERC13200U	ER20		1 ~ 13	34	200	26				
B411ERC13200U	ER20		1 ~ 13	34	200	26				

optional AD/B опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runoff / Биение:** 0.003mm

**ERC COLLET CHUCK**
**ЦАНГОВЫЙ ПАТРОН ERC**
**BT JIS 6399 AD**
**FOR COLLETS ER DIN 6499  
ДЛЯ ЦАНГ ER DIN 6499**


EDP No MAX-Q	Taper Конус	Collet Цанги	Range Диапазон	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		NSH32 ERU32	WRH32	TER32			
B411ERC20160U		ER32	1 ~ 20	50	160	34							
B411ERC20200U		ER32	1 ~ 20	50	200	34							
B411ERC26080U		ER40	1 ~ 26	63	080	38					NSH40 NBH40	WRH40	TER40
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					NSX20 NSH20 NBX20 NBH20	WRX20 WRC20	TER20
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		NSH25 NBH25	WRH25	TER25			
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					NSH32 NBH32	WRH32	TER32
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		NSH40 NBH40	WRH40	TER40			
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 СВОЙСТВА**

optional AD/B опционально AD/B

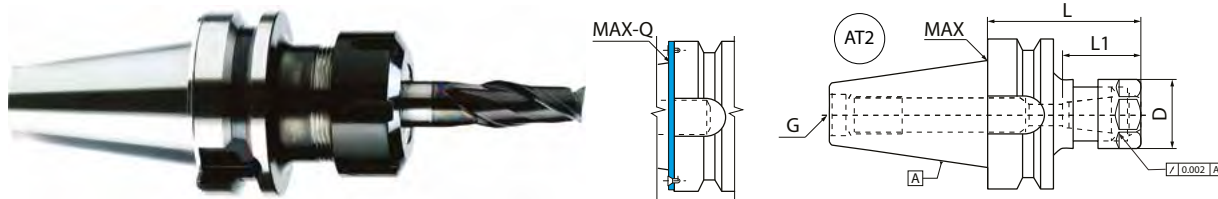
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm

**ERC COLLET CHUCK - MINI NUT**

ЦАНГОВЫЙ ПАТРОН ERC - С МИНИ-ГАЙКОЙ

**BT JIS 6399 AD**
**FOR ER COLLETS - MINI NUTS DIN 6499**  
 ДЛЯ ЦАНГ ER - С МИНИ-ГАЙКОЙ DIN 6499


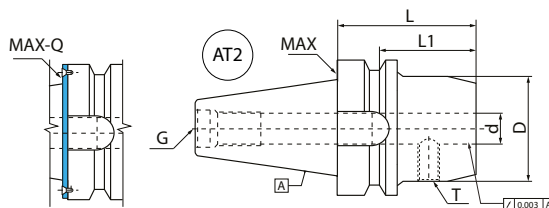
EDP No MAX-Q	Taper Конус	Collet	Range Диапазон	D	L	L1	G		
B311ERC07070MU	BT30	ER11	0.5 ~ 7	16	70	17	M12	NTM11	WRM11
B311ERC07100MU		ER11	0.5 ~ 7	16	100	17			
B311ERC10070MU		ER16	0.5 ~ 10	22	70	22		NTM16	WRM16
B311ERC10100MU		ER16	0.5 ~ 10	22	100	22			
B311ERC10160MU		ER16	0.5 ~ 10	22	160	22		NTM20	WRM20
B311ERC13070MU		ER20	1 ~ 13	28	70	26			
B311ERC13100MU		ER20	1 ~ 13	28	100	26			
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			
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 опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runoff / Биение:** 0.003mm

**WLD - END MILL WELDON HOLDER**
**ФРЕЗЕРНАЯ ОПРАВКА WELDON**
**BT JIS 6399 AD**
**FOR HOLDER DIN 1835B WELDON  
ДЛЯ ХВОСТОВИКА WELDON DIN 1835B**


EDP No MAX-Q	Taper Конус	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 опціонально AD/B

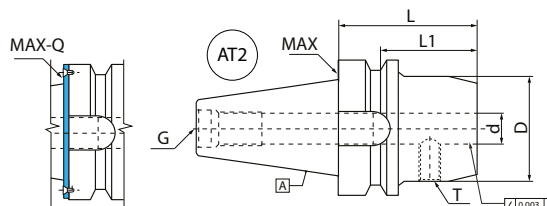
optional UC (with coolant slot) опціонально UC

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка G** 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm



**WLD - END MILL WELDON HOLDER**
**ФРЕЗЕРНАЯ ОПРАВКА WELDON**
**BT JIS 6399 AD**
**FOR HOLDER DIN 1835B WELDON  
ДЛЯ ХВОСТОВИКА WELDON DIN 1835B**


EDP No MAX-Q	Taper Конус	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	6	6	25	63	30	M6	
B511WLD06100U			25	100	30	M6	
B511WLD06160U			25	160	30	M6	
B511WLD06200U			25	200	30	M6	
B511WLD08063U	8	8	28	63	35	M8	
B511WLD08100U			28	100	35	M8	
B511WLD08160U			28	160	35	M8	
B511WLD08200U	28	200	35	M8			
B511WLD10080U	10	10	35	80	39	M10	
B511WLD10100U			35	100	39	M10	
B511WLD10160U			35	160	39	M10	
B511WLD10200U			35	200	39	M10	
B511WLD12080U	12	12	42	80	44	M12	
B511WLD12100U			42	100	44	M12	
B511WLD12160U			42	160	44	M12	
B511WLD12200U			42	200	44	M12	
B511WLD14080U	14	14	42	80	44	M12	
B511WLD14100U			42	100	44	M12	

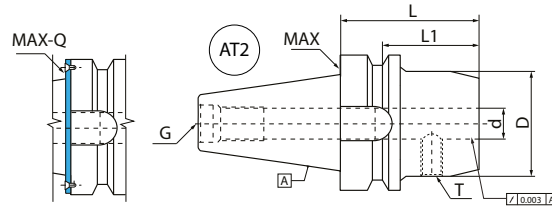
optional AD/B опционально AD/B

optional UC (with coolant slot) опционально UC

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25000rpm

**Seat runout / Биение:** 0.003mm

**WLD - END MILL WELDON HOLDER**
**ФРЕЗЕРНАЯ ОПРАВКА WELDON**
**BT JIS 6399 AD**
**FOR HOLDER DIN 1835B WELDON**  
**ДЛЯ ХВОСТОВИКА WELDON DIN 1835B**


EDP No MAX-Q	Taper Конус	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		

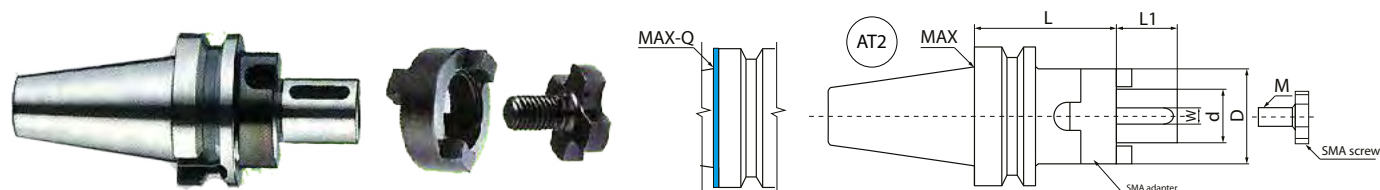
**optional AD/B** опціонально AD/B

**optional UC (with coolant slot)** опціонально UC

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

**Balance** / Балансировка G 2,5 25 000rpm

**Seat runout** / Биение: 0.003mm

**SMA - COMBI SHELL MILL HOLDER**
**ДЕРЖАТЕЛЬ ФРЕЗЫ**
**BT JIS 6399 AD**
**FOR HOLDER DIN 6358  
ДЛЯ ОПРАВОК DIN 6358**


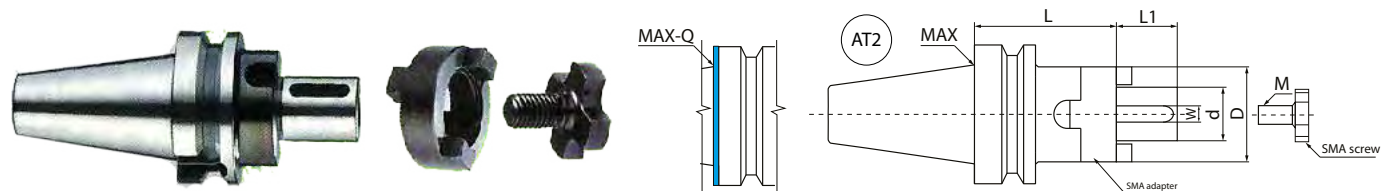
EDP No MAX-Q	Taper Конус	d	D	L	L1	W	M				
B411SMA16055U	BT40	16	32	55	27	4X20	M8	PNN16 PNK16	RNG16	LSC16	
B411SMA16100U			32	100	27	4X20	M8				
B411SMA16160U			32	160	27	4X20	M8				
B411SMA16200U			32	200	27	4X20	M8				
B411SMA22055U		22	22	40	55	31	6X25	M10	PNN22 PNK22	RNG22	LSC22
B411SMA22100U				40	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 опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.005mm

**SMA - COMBI SHELL MILL HOLDER**
**ДЕРЖАТЕЛЬ ФРЕЗЫ**
**BT JIS 6399 AD**
**FOR HOLDER DIN 6358  
ДЛЯ ОПРАВОК DIN 6358**


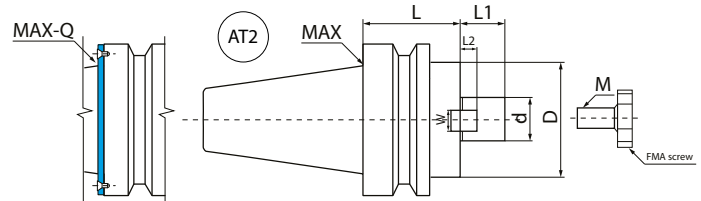
EDP No MAX-Q	Taper Конус	d	D	L	L1	W	M			
B511SMA32070U	BT50	32	58	60	38	8X28	M16	PNN32 PNK32	RNG32	LSC32
B511SMA32100U	BT50		58	100	38	8X28	M16			
B511SMA32160U	BT50		58	160	38	8X28	M16			
B511SMA32200U	BT50		58	200	38	8X28	M16			
B511SMA40070U	BT50	40	70	60	41	10X32	M20	PNN40 PNK40	RNG40	LSC40
B511SMA40100U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

**optional AD/B** опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

**Balance** / Балансировка G 2,5 25 000rpm

**Seat runout** / Биение: 0.005mm

**FMA - SHELL MILL HOLDER**
**ШТОК ФРЕЗЕРОВОЧНЫЙ**
**BT JIS 6399 AD**
**FOR HOLDER DIN 6357  
ДЛЯ ОПРАВОК DIN 6357**


EDP No MAX-Q	Taper Конус	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** опционально AD/B

**optional UC (with coolant slot)** опционально UC

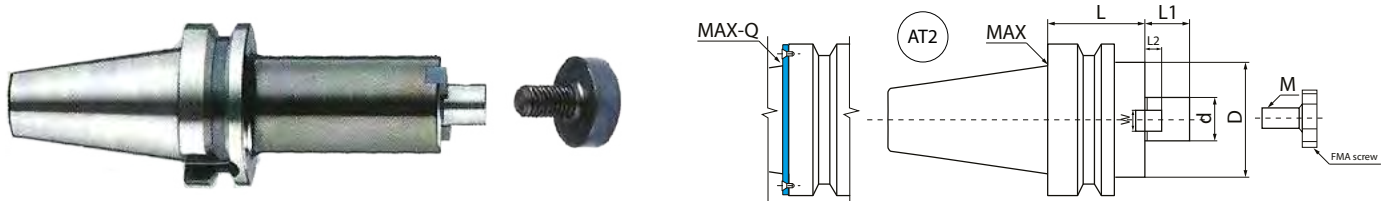
**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runoff / Биение:** 0.005mm

**FMA - SHELL MILL HOLDER**

ШТОК ФРЕЗЕРОВОЧНЫЙ

**BT JIS 6399 AD**
**FOR HOLDER DIN 6357  
ДЛЯ ОПРАВОК DIN 6357**


EDP No MAX-Q	Taper Конус	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			

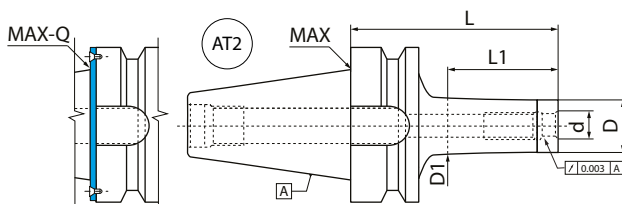
**optional AD/B** опционально AD/B

**optional UC (with coolant slot)** опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

**Balance** / Балансировка G 2,5 25 000rpm

**Seat runout** / Биение: 0.005mm

**MCA - SCREW-IN HOLDER**
**ОПРАВКА ДЛЯ ФРЕЗ С РЕЗЬБОВЫМ ХВОСТОВИКОМ**
**BT JIS 6399 AD**


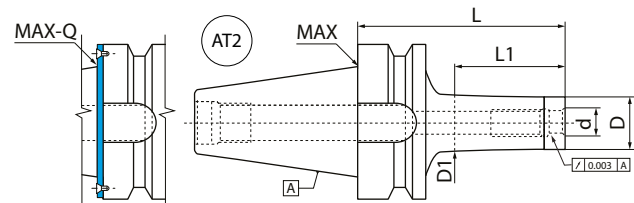
EDP No MAX-Q	Taper Конус	d	D	D1	L	L1	M	
B311MCA08035U	BT30	8,5	15	15	35	10	M8	
B311MCA08065U		8,5	15	16	65	40	M8	
B311MCA08087U		8,5	13	23	87	50	M8	
B311MCA08100U		8,5	13	23	100	50	M8	
B311MCA10065U		10,5	18	18	65	50	M10	
B311MCA10087U		10,5	18	18	87	50	M10	
B311MCA10100U		10,5	18	18	100	50	M10	
B311MCA12087U		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 опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G = 2,5 25000rpm

**Seat runout / Биение:** 0.005mm

**MCA - SCREW-IN HOLDER**
**ОПРАВКА ДЛЯ ФРЕЗ С РЕЗЬБОВЫМ ХВОСТОВИКОМ**
**BT JIS 6399 AD**


EDP No MAX-Q	Тaper Конус	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

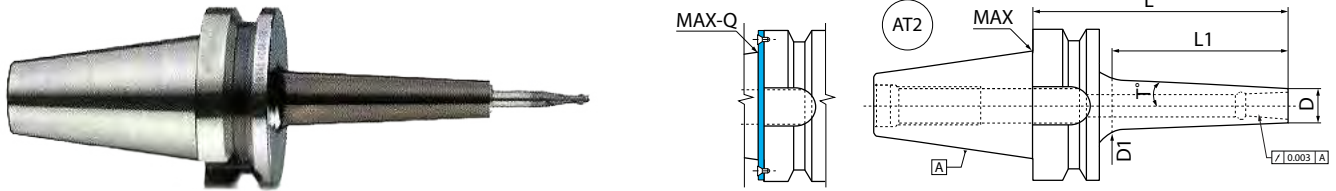
**optional AD/B** опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

**Balance** / Балансировка G 2,5 25000rpm

**Seat runout** / Биение: 0.005mm



**DCC - HIGH SPEED SLIM CHUCK**
**ПАТРОН ДЛЯ СКОРОСТНОЙ ОБРАБОТКИ**
**BT JIS 6399 AD**


EDP No MAX-Q	Taper Конус	D	D1	L	L1	T°	Collet Цанги				
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** опционально AD/B

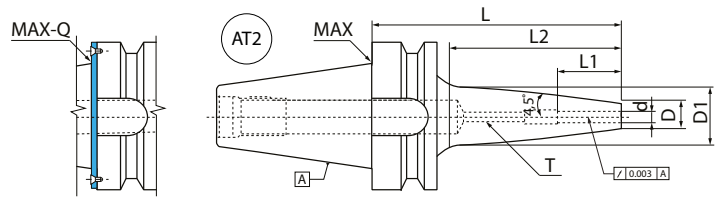
**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runoff / Биение:** 0.003mm

**SHR - 4,5° SHRINK FIT HOLDER**

ПАТРОН С ТЕРМОЗАЖИМОМ 4,5°

**BT JIS 6399 AD**


EDP No MAX-Q	Тaper Конус	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

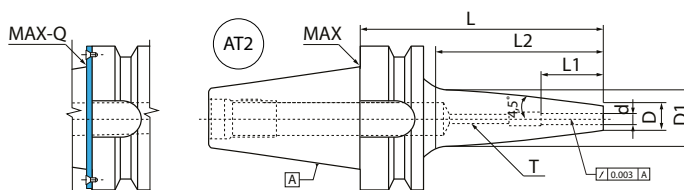
**FEATURES СВОЙСТВА**

optional AD/B опционально AD/B

**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm

**SHR - 4,5° SHRINK FIT HOLDER**
**ПАТРОН С ТЕРМОЗАЖИМОМ 4,5°**
**BT JIS 6399 AD**


EDP No MAX-Q	Тарер Конус	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 / Допуск конуса:** AT2

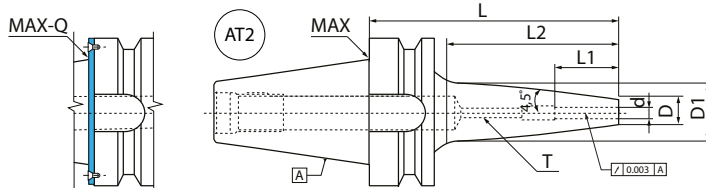
**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm

**optional AD/B** опціонально AD/B

**SHR - 4,5° SHRINK FIT HOLDER**

ПАТРОН С ТЕРМОЗАЖИМОМ 4,5°

**BT JIS 6399 AD**


EDP No MAX-Q	Тaper Конус	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 СВОЙСТВА**

optional AD/B опционально AD/B

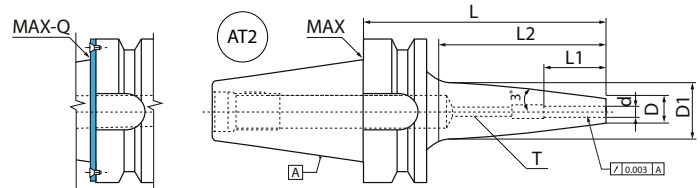
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm

**SHR - 3° SHRINK FIT HOLDER**

ПАТРОН С ТЕРМОЗАЖИМОМ 3°

**BT JIS 6399 AD**


EDP No MAX-Q	Тaper Конус	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 СВОЙСТВА**

optional AD/B опціонально AD/B

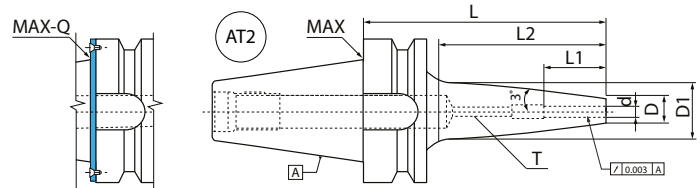
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 1,0 20 000rpm

**Seat runout / Биение:** 0.003mm

**SHR - 3° SHRINK FIT HOLDER**

ПАТРОН С ТЕРМОЗАЖИМОМ 3°

**BT JIS 6399 AD/B**


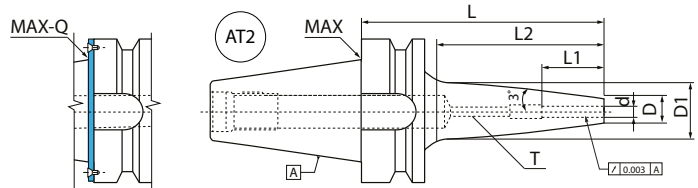
EDP No MAX-Q	Тaper Конус	d	D	D1	L	L1	L2	T
B411SHR1600030U	BT40	16	22	36	160	39	130	M12
B411SHR1600030U		16	22	40	200	39	170	M12
B411SHR2000030U		20	27	35	100	41	70	M16
B411SHR2000030U		20	27	41	160	41	130	M16
B411SHR2000030U		20	27	45	200	41	170	M16
B411SHR2500030U		25	34	42	100	47	70	M16
B411SHR2500030U		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 опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm

**SHR - 3° SHRINK FIT HOLDER - SLIM**
**3° ПАТРОН С ТЕРМОЗАЖИМОМ - ТОНКИЙ**
**BT JIS 6399 AD/B**


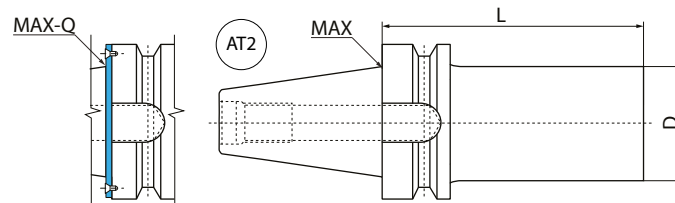
EDP No MAX-Q	Тaper Конус	d	D	D1	L	L1	L2	T
B411SHR03100S30U	BT40	3	6	14	100	15	70	S10
B411SHR03160S30U		3	6	20	160	15	130	S10
B411SHR04100S30U		4	7	15	100	16	70	S10
B411SHR04160S30U		4	7	21	160	16	130	S10
B411SHR05100S30U		5	8	16	100	20	70	S10
B411SHR05160S30U		5	8	22	160	20	130	S10
B411SHR06100S30U		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** опціонально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

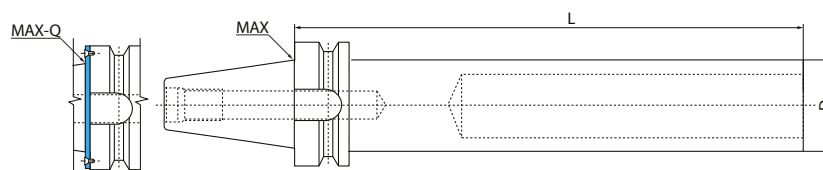
**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm

**BLA - BLANK ARBOR**
**BLA - ДЕРЖАТЕЛИ ДЛЯ СПЕЦИНСТРУМЕНТА**
**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 СВОЙСТВА**
**Taper Angle Tolerance** Допуск конуса: AT2

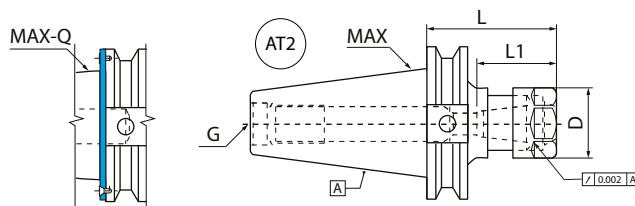
**MASTER GAUGE**
**ЭТАЛОННЫЙ КАЛИБР**
**BT JIS 6399 AD**


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 СВОЙСТВА**
**Taper Angle Tolerance** Допуск конуса: AT1

**Seat runout** / Биение: 0.002mm



**ERC COLLET CHUCK**
**ЦАНГОВЫЙ ПАТРОН ERC**
**SK JIS 6399 AD**
**FOR COLLETS ER DIN 6499  
ДЛЯ ЦАНГ ER DIN 6499**


EDP No MAX-Q	Taper Конус	Collet Цанги	Range Диапазон	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			0.5 ~ 10	28	200	22								
S411ERC13060U			ER20	1 ~ 13	34	60					26	NSX20 NSH20 NBX20 NBH20	WRX20 WRC20	TER20
S411ERC13070U				1 ~ 13	34	70					26			
S411ERC13100U				1 ~ 13	34	100					26			
S411ERC13160U		1 ~ 13		34	160	26								
S411ERC13200U		ER25	1 ~ 13	34	200	26		NSH25 NBH25	WRH25	TER25				
S411ERC16060U			1 ~ 16	42	60	29								
S411ERC16070U			1 ~ 16	42	70	29								
S411ERC16100U			1 ~ 16	42	100	29								
S411ERC16160U			1 ~ 16	42	160	29								
S411ERC16200U			1 ~ 16	42	200	29								
S411ERC20070U			ER32	2 ~ 20	50	70					34	NSH32 NBH32	WRH32	TER32
S411ERC20100U				2 ~ 20	50	100					34			
S411ERC20160U		2 ~ 20		50	160	34								
S411ERC20200U		2 ~ 20		50	200	34								
S411ERC26080U		ER40	3 ~ 26	63	80	38		NSH40 NBH40	WRH40	TER40				
S411ERC26100U			3 ~ 26	63	100	38								
S411ERC26160U			3 ~ 26	63	160	38								
S411ERC26200U			3 ~ 26	63	200	38								
S511ERC10100U		SK50	ER16	0.5 ~ 10	28	100		22	M24	NSX16 NSH16 NBX16 NBH16	WRX16	TER16		
S511ERC10160U	0.5 ~ 10			28	160	22								
S511ERC10200U	0.5 ~ 10			28	200	22								

**optional AD/B** опціонально AD/B

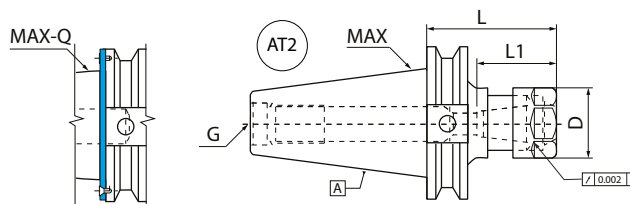
**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm

**ERC COLLET CHUCK**
**ЦАНГОВЫЙ ПАТРОН ERC**
**SK JIS 6399 AD**
**FOR COLLETS ER DIN 6499**

ДЛЯ ЦАНГ ER DIN 6499



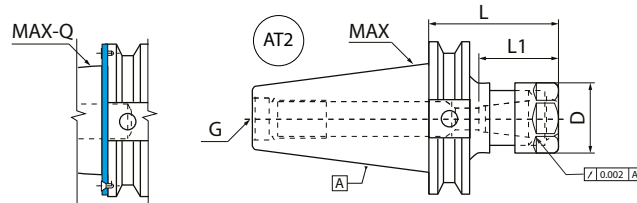
EDP No MAX-Q	Taper Конус	Collet Цанги	Range Диапазон	D	L	L1	G			
S511ERC13100U	SK50	ER20	1 ~ 13	34	100	26	M24	NSX20 NSH20 NBX20 NBH20	WRX20 WRC20	TER20
S511ERC13160U			1 ~ 13	34	160	26				
S511ERC13200U			1 ~ 13	34	200	26				
S511ERC16100U		ER25	1 ~ 16	42	100	29		NSH25 NBH25	WRH25	TER25
S511ERC16160U			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 опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка G** 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm

**ERC COLLET CHUCK - MINI NUT**
**ЦАНГОВЫЙ ПАТРОН ERC - С МИНИ-ГАЙКОЙ**
**SK JIS 6399 AD**
**FOR ER COLLETS - MINI NUTS DIN 6499**  
**ДЛЯ ЦАНГ ER - С МИНИ-ГАЙКОЙ DIN 6499**


EDP No MAX-Q	Taper Конус	Collet	Range Диапазон	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		SK50	ER20	1 ~ 13	28	70		26,5	M24	NTM20	WRM20
S411ERC13100MU				1 ~ 13	28	100		26,5			
S411ERC13160MU			1 ~ 13	28	160	26,5					
S511ERC07100MU	ER11		0.5 ~ 7	16	100	15	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	1 ~ 13	28	100			26	NTM20	WRM20	
S511ERC13160MU	1 ~ 13		28	160	26						

**optional AD/B** опционально AD/B

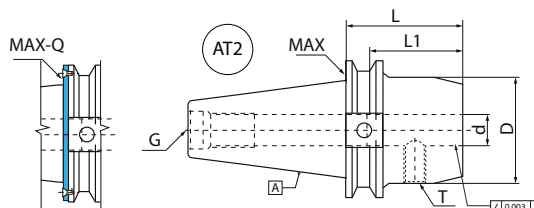
**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

**Balance** / Балансировка G 2,5 25 000rpm

**Seat runout** / Биение: 0.003mm

**WLD - END MILL WELDON HOLDER**

## ФРЕЗЕРНАЯ ОПРАВКА WELDON

**SK JIS 6399 AD**
**FOR HOLDER DIN 1835B WELDON  
ДЛЯ ХВОСТОВИКА WELDON DIN 1835B**


EDP No MAX-Q	Taper Конус	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 опціонально AD/B

optional UC (with coolant slot) опціонально AD/B

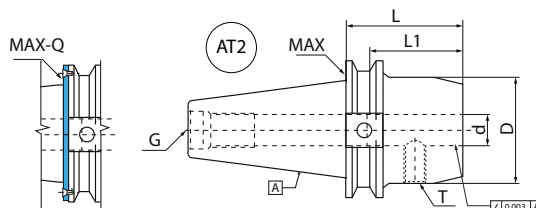
**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 2500rpm

**Seat runout / Биение:** 0.003mm

**WLD - END MILL WELDON HOLDER**

## ФРЕЗЕРНАЯ ОПРАВКА WELDON

**SK JIS 6399 AD**
**FOR HOLDER DIN 1835B WELDON  
ДЛЯ ХВОСТОВИКА WELDON DIN 1835B**


EDP No MAX-Q	Тaper Конус	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 опционально AD/B

optional UC (with coolant slot) опционально AD/B

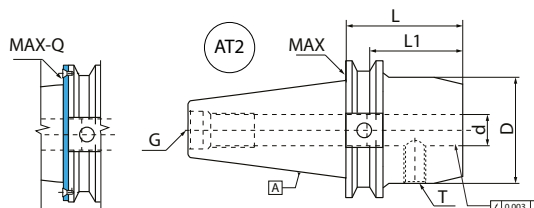
**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 2500rpm

**Seat runout / Биение:** 0.003mm

**WLD - END MILL WELDON HOLDER**

## ФРЕЗЕРНАЯ ОПРАВКА WELDON

**SK JIS 6399 AD**
**FOR HOLDER DIN 1835B WELDON**  
 ДЛЯ ХВОСТОВИКА WELDON DIN 1835B


EDP No MAX-Q	Taper Конус	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	

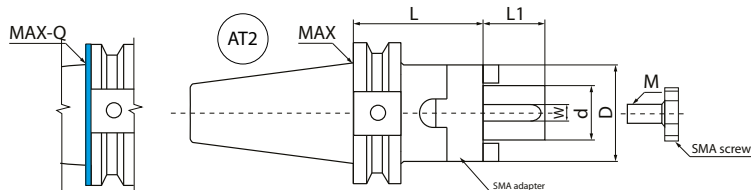
**optional AD/B** опціонально AD/B

**optional UC (with coolant slot)** опціонально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

**Balance** / Балансировка G 2,5 25000rpm

**Seat runout** / Биение: 0.003mm

**SMA - COMBI SHELL MILL HOLDER**
**ДЕРЖАТЕЛЬ ФРЕЗЫ**
**SK JIS 6399 AD**
**FOR HOLDER DIN 6358  
ДЛЯ ОПРАВОК DIN 6358**


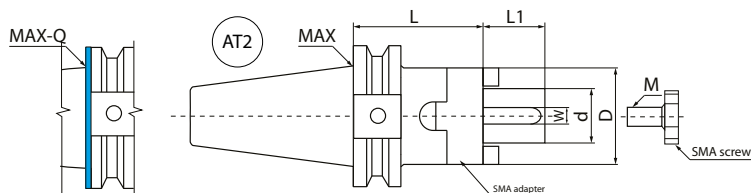
EDP No MAX-Q	Тaper Конус	d	D	L	L1	W	M			
S411SMA16055U	SK40	16	32	55	27	4X20	M8	PNN16 PNK16	RNG16	LSC16
S411SMA16100U			32	100	27	4X20	M8			
S411SMA16160U			32	160	27	4X20	M8			
S411SMA16200U			32	200	27	4X20	M8			
S411SMA22055U		22	40	55	31	6X25	M10	PNN22 PNK22	RNG22	LSC22
S411SMA22100U			40	100	31	6X25	M10			
S411SMA22160U			40	160	31	6X25	M10			
S411SMA22200U			40	200	31	6X25	M10			
S411SMA27055U		27	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	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	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	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	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			

**optional AD/B** опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25000rpm

**Seat runout / Биение:** 0.005mm

**SMA - COMBI SHELL MILL HOLDER**
**СМА - ДЕРЖАТЕЛЬ ФРЕЗЫ**
**SK JIS 6399 AD**
**FOR HOLDER DIN 6358  
ДЛЯ ОПРАВОК DIN 6358**


EDP No MAX-Q	Тaper Конус	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	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** опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

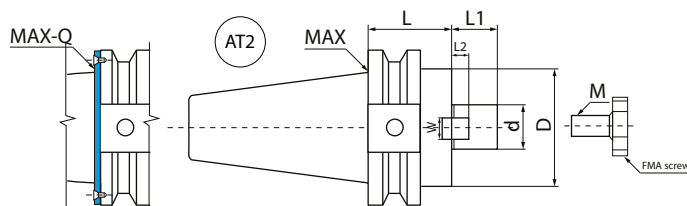
**Balance** / Балансировка G 2,5 25000rpm

**Seat runout** / Биение: 0.005mm



**FMA - SHELL MILL HOLDER**

ОПРАВКИ ДЛЯ ФРЕЗ С ПРЕДОХРАНИТЕЛЬНОЙ МУФТОЙ И ПОДВОДОМ СОЖ

**SK JIS 6399 AD**
**FOR HOLDER DIN 6358  
ДЛЯ ОПРАВОК DIN 6358**


EDP No MAX-Q	Taper Конус	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 опционально AD/B

optional UC (with coolant slot) опционально AD/B

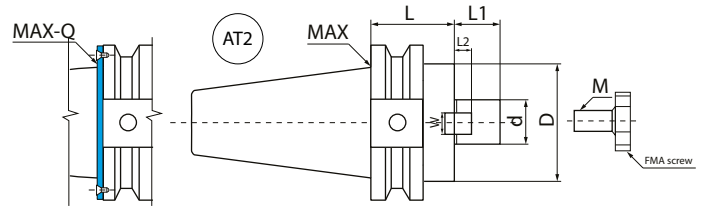
**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 2500rpm

**Seat runout / Биение:** 0.005mm

**FMA - SHELL MILL HOLDER**

ОПРАВКИ ДЛЯ ФРЕЗ С ПРЕДОХРАНИТЕЛЬНОЙ МУФТОЙ И ПОДВОДОМ СОЖ

**SK JIS 6399 AD**
**FOR HOLDER DIN 6358**  
 ДЛЯ ОПРАВОК DIN 6358


EDP No MAX-Q	Taper Конус	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		

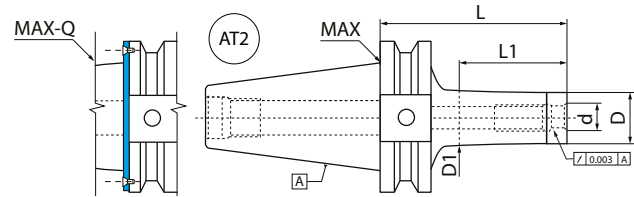
**optional AD/B** опционально AD/B

**optional UC (with coolant slot)** опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

**Balance** / Балансировка G 2,5 25000rpm

**Seat runout** / Биение: 0.005mm

**MCA - SCREW-IN HOLDER**
**ОПРАВКА ДЛЯ ФРЕЗ С РЕЗЬБОВЫМ ХВОСТОВИКОМ**
**SK JIS 6399 AD**


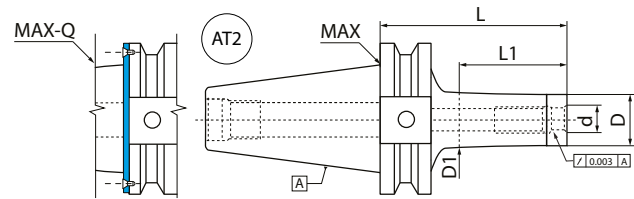
EDP No MAX-Q	Тaper Конус	d	D	D1	L	L1	M	
S411MCA08040U	SK40	8.5	15	15	40	10	M08	
S411MCA08065U		8.5	15	16	65	35	M08	
S411MCA08087U		8.5	13	23	87	50	M08	
S411MCA08100U		8.5	13	23	100	50	M08	
S411MCA08127U		8.5	13	23	127	50	M08	
S411MCA08160U		8.5	13	23	160	50	M08	
S411MCA08200U		8.5	13	23	200	50	M08	
S411MCA10040U		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 опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25000rpm

**Seat runout / Биение:** 0.003mm

**MCA - SCREW-IN HOLDER**
**ОПРАВКА ДЛЯ ФРЕЗ С РЕЗЬБОВЫМ ХВОСТОВИКОМ**
**SK JIS 6399 AD**


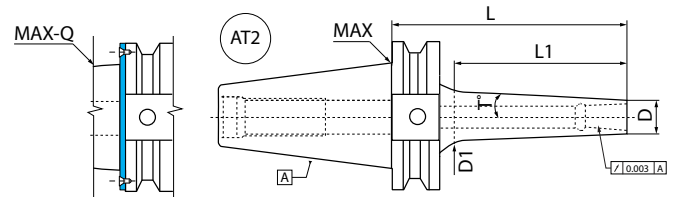
EDP No MAX-Q	Тaper Конус	d	D	D1	L	L1	M
S511MCA10127U	SK50	12.5	18	25	127	50	M10
S511MCA12100U		12.5	21	24	100	65	M12
S511MCA12127U		12.5	21	35	127	90	M12
S511MCA12160U		12.5	21	35	160	90	M12
S511MCA12200U		12.5	21	35	200	90	M12
S511MCA16100U		17	29	34	100	65	M16
S511MCA16127U		17	29	39	127	90	M16
S511MCA16160U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

**optional AD/B** опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

**Balance** / Балансировка G 2,5 25000rpm

**Seat runout** / Биение: 0.003mm

**DCC - HIGH SPEED SLIM CHUCK**
**ПАТРОН ДЛЯ СКОРОСТНОЙ ОБРАБОТКИ**
**SK JIS 6399 AD**


EDP No MAX-Q	Тaper Конус	D	D1	L	L1	T°	Collet Цанги			
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** опционально AD/B

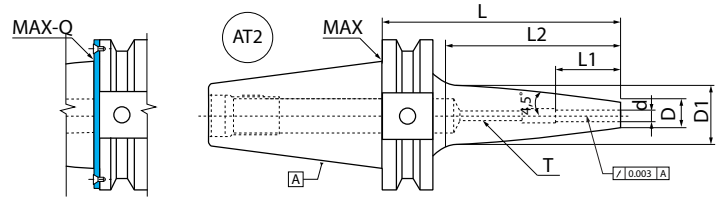
**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

**Balance** / Балансировка G 2,5 25 000rpm

**Seat runout** / Биение: 0.003mm

**SHR - 4,5° SHRINK FIT HOLDER**

ПАТРОН С ТЕРМОЗАЖИМОМ 4,5°

**SK JIS 6399 AD**


EDP No MAX-Q	Тaper Конус	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 опционально AD/B

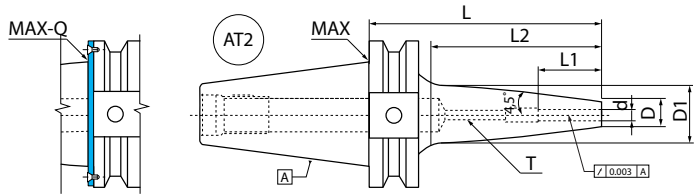
**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm

**SHR - 4,5° SHRINK FIT HOLDER**

ПАТРОН С ТЕРМОЗАЖИМОМ 4,5°

**SK JIS 6399 AD**


EDP No MAX-Q	Тяпер Конус	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 опционально AD/B

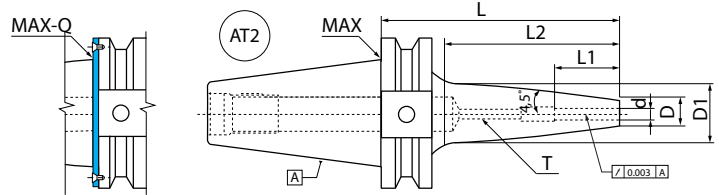
**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm

**SHR - 4,5° SHRINK FIT HOLDER**

ПАТРОН С ТЕРМОЗАЖИМОМ 4,5°

**SK JIS 6399 AD**


EDP No MAX-Q	Тaper Конус	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

optional AD/B опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

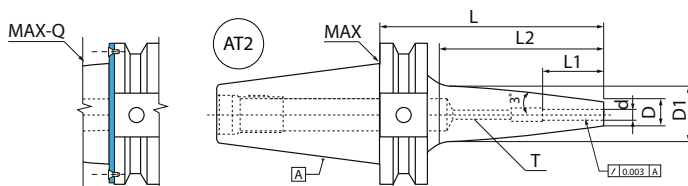
**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm



**SHR - 3° SHRINK FIT HOLDER**

ПАТРОН С ТЕРМОЗАЖИМОМ 3°

**SK JIS 6399 AD**


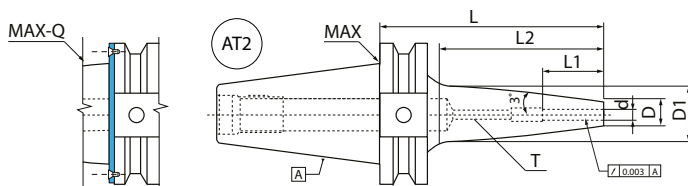
EDP No MAX-Q	Тaper Конус	d	D	D1	L	L1	L2	T
S411SHR0308030U	SK40	3	9	15	80	15	50	S10
S411SHR0310030U		3	9	17	100	15	70	S10
S411SHR0316030U		3	9	23	160	15	130	S10
S411SHR0408030U		4	10	16	80	16	50	S10
S411SHR0410030U		4	10	18	100	16	70	S10
S411SHR0416030U		4	10	24	160	16	130	S10
S411SHR0508030U		5	11	17	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	

optional AD/B опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** Допуск конуса: AT2

**Balance /** Балансировка G 2,5 25 000rpm

**Seat runout /** Биение: 0.003mm

**SHR - 3° SHRINK FIT HOLDER**
**ПАТРОН С ТЕРМОЗАЖИМОМ 3°**
**SK JIS 6399 AD**


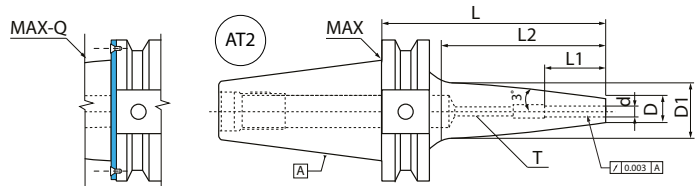
EDP No MAX-Q	Тaper Конус	d	D	D1	L	L1	L2	T
S411SHR2016030U	SK40	20	34	42	160	47	70	M16
S411SHR2020030U		20	34	48	200	47	130	M16
S411SHR2510030U		25	34	52	100	47	170	M16
S411SHR2512030U		25	34	44	120	47	90	M16
S411SHR2516030U		25	34	48	160	47	130	M16
S411SHR2520030U		25	34	52	200	47	170	M16
S511SHR0610030U	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

optional AD/B опціонально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm

**SHR - 3° SHRINK FIT HOLDER - SLIM**
**3° ПАТРОН С ТЕРМОЗАЖИМОМ - ТОНКИЙ**
**SK JIS 6399 AD**


EDP No MAX-Q	Тaper Конус	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 опционально AD/B

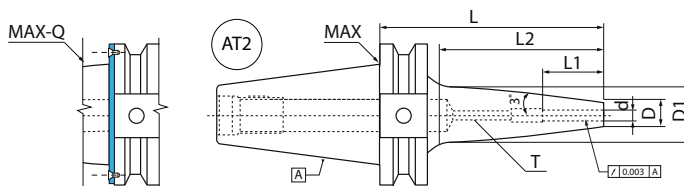
**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 2,5 25 000rpm

**Seat runout / Биение:** 0.003mm

**SHR - 3° SHRINK FIT HOLDER - SLIM**

ПАТРОН С ТЕРМОЗАЖИМОМ - ТОНКИЙ

**SK JIS 6399 AD**


EDP No MAX-Q	Тaper Конус	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** опціонально AD/B

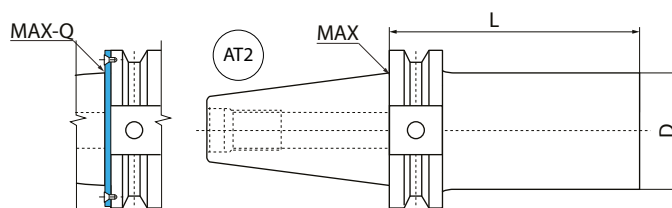
**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

**Balance** / Балансировка G 2,5 25 000rpm

**Seat runout** / Биение: 0.003mm

**BLA - BLANK ARBOR**

## ДЕРЖАТЕЛИ ДЛЯ СПЕЦИНСТРУМЕНТА

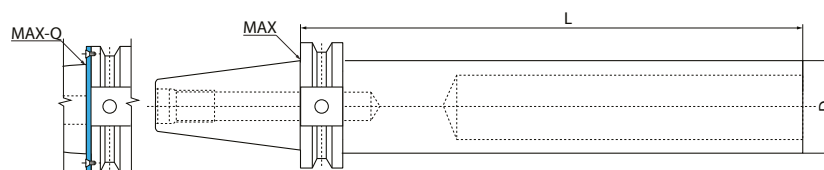
**SK JIS 6399 AD**


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

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** Допуск конуса: AT2

**BLANK ARBOR**

## ДЕРЖАТЕЛИ ДЛЯ СПЕЦИНСТРУМЕНТА

**SK JIS 6399 AD**


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

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** Допуск конуса: AT1

**Seat runout** / Биение: 0.002mm

## ACCESSORIES АКЦЕССУАРЫ

### Set Screw Установочный винт

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



### Driving Key Ведущая шпонка

EDP No	Pilot Size Пилотный размер
DRK16	FMU16
DRK22	FMU22
DRK27	FMU27
DRK32	FMU32
DRK40	FMU40



### Lock screws Стопорные винты

EDP No	Pilot Size Пилотный размер
LSC16	FMU16
LSC22	FMU22
LSC27	FMU27
LSC32	FMU32
LSC40	FMU40



### HC Collets Цанга HC

EDP No	Collet Цанги	Shank Хвостовик
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 затяжной винт

EDP No
DR0630
DR1030
DR0640
DR1040



### HC Screw HC винт

EDP No
SRS14
SRS24



## ACCESSORIES АКЦЕССУАРЫ

### ER Collet Nuts - Standard Гайки оправки ER - Стандартные

EDP No	Collet Цанги	Thread Резьба	Type Тип
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 Гайки оправки ER<1g-mm

EDP No	Collet Цанги	Thread Резьба	Type Тип
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 Мини-гайка

ED No	Collet Цанги	Thread Резьба
NTM08	ERU08	M22x1,5
NTM11	ERU11	M22x1,5
NTM16	ERU16	M25x1,5
NTM20	ERU20	M25x1,5



### Backup Screws Установочный винт

ED No	Collet Цанги	Type Тип
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**  
Установочный винт

### MINI Wrench Ключ

EDP No	Collet Цанги
WRM08	ERU08
WRM11	ERU11
WRM16	ERU16
WRM20	ERU20



### ER Collet Nut Wrenches Ключи для оправок ER

EDP No	Collet Цанги	Type Тип
WRX11	ERU11	Hex
WRX16	ERU16	Hex
WRX20	ERU20	Hex
WRH25	ERU25	Hook
WRH32	ERU32	Hook
WRH40	ERU40	Hook



Hex Wrench Ключ



C type Wrench Ключ

## ACCESSORIES АКЦЕССУАРЫ

Apply for Совместимость с	Pin 1	Pin 2
	for improving unbalanceable effect для повышения жёсткости	for slot key для шпонки
SMU16	PNN16	PNK16
SMU22	PNN22	PNK22
SMU27	PNN27	PNK27
SMU32	PNN32	PNK32
SMU40	PNN40	PNK40



### Driving ring Подводковое кольцо

EDP No	Pilot Size Пилотный размер
RNG16	SMU16
RNG22	SMU22
RNG27	SMU27
RNG32	SMU32
RNG40	SMU40



### Lock screws Стопорные винты

EDP No	Pilot Size Пилотный размер
LSC16	SMU16
LSC22	SMU22
LSC27	SMU27
LSC32	SMU32
LSC40	SMU40



### BT Pull Stud wo/center coolant BT Затяжной винт wo/центральное охлаждение

EDP No	$\theta$	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 Затяжной винт wo/центральное охлаждение

EDP No	$\theta$	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 АКЦЕССУАРЫ

### ERC COLLET



#### ER16 Collet Цанга ER16

EDP No	Clamping Range Диапазон зажима(мм)
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 Цанга ER16

EDP No	Clamping Range Диапазон зажима(мм)
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 Цанга ER20

EDP No	Clamping Range Диапазон зажима(мм)
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 Цанга ER32

EDP No	Clamping Range Диапазон зажима(мм)
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

#### ER40Collet Цанга ER40

EDP No	Clamping Range Диапазон зажима (мм)
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



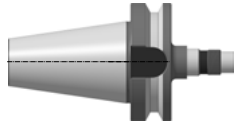









## ER25 Collet Цанга ER25

EDP No	Clamping Range Диапазон зажима(мм)
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

# INFINITY TOOLHOLDERS ОПРАВКИ INFINITY

High quality  
System modułowy  
Balance **G1.0**  
Seat Runout **0.003 [mm]**  
Taper Angle Tolerance **AT2**



<b>BT BASE TOOLHOLDER FO EXTENSION</b>	БАЗОВЫЙ ДЕРЖАТЕЛЬ BT ДЛЯ УДЛИНИТЕЛЯ		A5
<b>SK BASE TOOLHOLDER FO EXTENSION</b>	БАЗОВЫЙ ДЕРЖАТЕЛЬ SK ДЛЯ УДЛИНИТЕЛЯ		A6
<b>HSK-A BASE TOOLHOLDER FO EXTENSION</b>	БАЗОВЫЙ ДЕРЖАТЕЛЬ HSK-A ДЛЯ УДЛИНИТЕЛЯ		A7-A8
<b>EXTENSION BASE SHANK</b>	БАЗОВЫЙ УДЛИНИТЕЛЬ		A9 - A10
<b>ER COLLET CHUCK - MINI NUT EXTENSION</b>	ЦАНГОВЫЙ ПАТРОН ER - ЗАТЯЖНАЯ ГАЙКА –УДЛИНИТЕЛЬ		A11
<b>ER COLLET CHUCK</b>	ЦАНГОВЫЙ ПАТРОН ER		A12
<b>REVERSED ER COLLET CHUCK EXTENSION</b>	УДЛИНИТЕЛЬ РЕВЕРСИВНОГО ПАТРОНА ER		A13
<b>SCREW-IN CHUCK - EXTENSION</b>	УДЛИНИТЕЛЬ ОПРАВКИ ДЛЯ ФРЕЗ С РЕЗЬБОВЫМ ХВОСТОВИКОМ		A14
<b>HIGH SPEED SLIM CHUCK - EXTENSION</b>	УДЛИНИТЕЛЬ ОПРАВКИ ДЛЯ СКОРОСТНОЙ ОБРАБОТКИ		A15
<b>END MILL CHUCK EXTENSION WITH COOLANT</b>	УДЛИНИТЕЛЬ WELDON С ОХЛАЖДЕНИЕМ		A16
<b>END MILL CHUCK EXTENSION WITHOUT COOLANT</b>	УДЛИНИТЕЛЬ WELDON БЕЗ ОХЛАЖДЕНИЯ		A17
<b>SHELL MILL CHUCK EXTENSION WITH COOLANT</b>	УДЛИНИТЕЛЬ УНИВЕРСАЛЬНЫЙ С ОХЛАЖДЕНИЕМ		A18
<b>SHELL MILL CHUCK EXTENSION WITHOUT COOLANT</b>	УДЛИНИТЕЛЬ УНИВЕРСАЛЬНЫЙ БЕЗ ОХЛАЖДЕНИЯ		A19
<b>4,5° SHRINK FIT HOLDER - EXTENSION</b>	УДЛИНИТЕЛЬ ТЕРМОЗАЖИМНОГО ПАТРОНА		A20
<b>4,5° SHRINK FIT HOLDER - SLIM - EXTENSION</b>	УДЛИНИТЕЛЬ ТЕРМОЗАЖИМНОГО ПАТРОНА - ТОНКИЙ		A21
<b>3° SHRINK FIT HOLDER - EXTENSION</b>	УДЛИНИТЕЛЬ ТЕРМОЗАЖИМНОГО ПАТРОНА		A22
<b>3° SHRINK FIT HOLDER - SLIM - EXTENSION</b>	УДЛИНИТЕЛЬ ТЕРМОЗАЖИМНОГО ПАТРОНА - ТОНКИЙ		A23
<b>ER COLLETS</b>	ER ЦАНГИ		A23-A24
<b>IR COLLETS</b>	IR ЦАНГИ		A25-A26
<b>ACCESSORIES</b>	АКСЕССУАРЫ		A27-A34

End Mill Chuck Extension Interchangeable between Collet Chuck, Screw-In Chuck, High Speed Slim Chuck, Shrink Fit Chuck and more.

Удлинитель Weldon заменяемый на:  
 Удлинитель с цангой,  
 Удлинитель для фрез с резьбой,  
 Удлинитель для скоростной обработки,  
 Удлинитель термозажимного патрона и др.



End Mill Chuck Extension Interchangeable between Collet Chuck, Screw-In Chuck, High Speed Slim Chuck, Shrink Fit Chuck and more.

Удлинитель Weldon заменяемый на:  
 Удлинитель с цангой,  
 Удлинитель для фрез с резьбой,  
 Удлинитель для скоростной обработки,  
 Удлинитель термозажимного патрона и др.



BT 40 Toolholder Base Interchangeable between:

Базовый держатель BT 40 заменяемый на:  
 BT30, BT50, SK30, SK40, SK50,  
 HSK63A, HSK100A



Etension Chuck  
 Удлинитель патрон

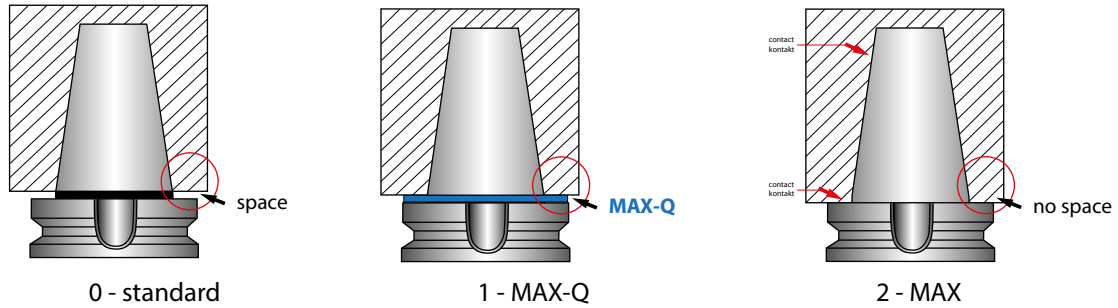
Etension Chuck  
 Удлинитель патрон

BT 40 Toolholder Base Interchangeable between:

Базовый держатель BT 40 заменяемый на:  
 BT30, BT50, SK30, SK40, SK50,  
 HSK63A, HSK100A

**INFINITY SERIES Toolholder**  
СЕРИЯ INFINITY Оправка

**Code decription for BT, SK**  
Наименование кода BT,SK



0	AD/B
1	AD
2	A

Length Длина
70mm
100mm
102mm
105mm
120mm

**B31 1 INF 11 100**

Taper type Тип конуса
B3 = BT30
B4 = BT40
B5 = BT50
S4 = SK40
S5 = SK50

BASE TOOLHOLDRER INFINITY БАЗОВЫЙ ОПРАВКИ INFINITY

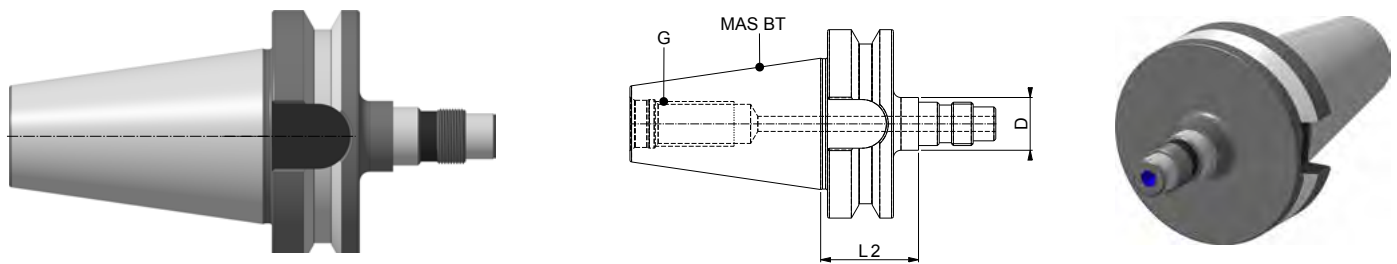
Conector size Размер разъема
11 = R11
16 = R16
25 = R25
32 = R32
40 = R40

**Code decription for HSK-A**  
Наименование кода HSK-A

**A63 INF 11 100**

Taper type Тип конуса
A63 = HSK-63A
A10 = HSK-100A

BASE TOOLHOLDRER INFINITY БАЗОВЫЙ ОПРАВКИ INFINITY

**BT BASE TOOLHOLDER FO EXTENSION**
**БАЗОВЫЙ ДЕРЖАТЕЛЬ BT ДЛЯ УДЛИНИТЕЛЯ**
**FOR COLLETS DIN 6499**
**ДЛЯ ЦАНГ ER DIN 6499**


EDP No	Taper Конус	Base Базовый размер	D	Length Длина	L2	G
B311INFR08070	BT30	R8	12	70	50,6	M12
B311INFR8S070	BT30	R8S	16	70	50,6	
B311INFR11100	BT30	R11	19	100	65	
B311INFR16100	BT30	R16	28	100	46	
B311INFR20100	BT30	R20	34	100	45	
B311INFR25100	BT30	R25	42	100	38	
B311INFR32100	BT30	R32	50	100	34,5	

B411INFR08070	BT40	R8	12	70	50,6	M16
B411INFR8S070	BT40	R8S	16	70	50,6	
B411INFR11070	BT40	R11	19	70	35	
B411INFR11100	BT40	R11	19	100	65	
B411INFR16100	BT40	R16	28	100	46	
B411INFR20100	BT40	R20	34	100	45	
B411INFR25100	BT40	R25	42	100	38	
B411INFR32100	BT40	R32	50	100	34,5	
B411INFR40100	BT40	R40	63	100	30,5	

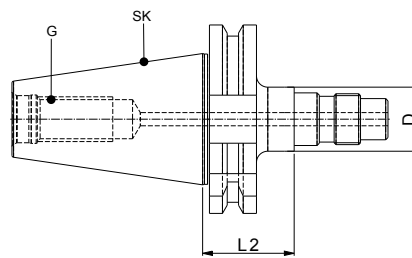
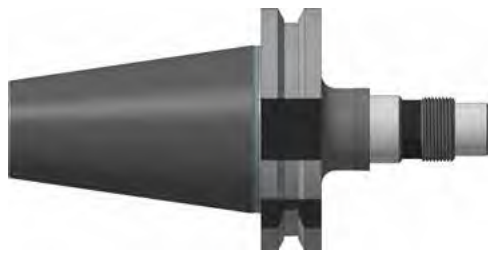
B511INFR08070	BT40	R8	12	70	50,6	M24
B511INFR8S070	BT40	R8S	16	70	50,6	
B511INFR11100	BT50	R11	19	100	65	
B511INFR16100	BT50	R16	28	100	46	
B511INFR20100	BT50	R20	34	100	45	
B511INFR25110	BT50	R25	42	110	38	
B511INFR32110	BT50	R32	50	110	44,5	
B511INFR40120	BT50	R40	63	120	50,5	

**optional AD/B** опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 1,0 20 000rpm

**Seat runout / Биение:** 0.003mm

**SK BASE TOOLHOLDER FO EXTENSION**
**БАЗОВЫЙ ДЕРЖАТЕЛЬ SK ДЛЯ УДЛИНИТЕЛЯ**
**FOR COLLETS DIN 6499**
**ДЛЯ ЦАНГ ER DIN 6499**


EDP No	Taper Конус	Base Базовый размер	D	Length Длина	L2	G
S411INFR08050	SK40	IR08	12	50	30,6	M16
S411INFR8S050	SK40	IR8S	16	50	30,6	
S411INFR11070	SK40	IR11	19	70	35	
S411INFR16100	SK40	IR16	28	100	46	
S411INFR20100	SK40	IR20	34	100	45	
S411INFR25100	SK40	IR25	42	100	38	
S411INFR32100	SK40	IR32	50	100	34,5	
S411INFR40100	SK40	IR40	63	120	50,5	

S511INFR08050	SK50	IR08	12	50	30,6	M24
S511INFR8S050	SK50	IR8S	16	50	30,6	
S511INFR11100	SK50	IR11	19	100	65	
S511INFR16100	SK50	IR16	28	100	46	
S511INFR20100	SK50	IR20	34	100	45	
S511INFR25100	SK50	IR25	42	100	38	
S511INFR32100	SK50	IR32	50	100	34,5	
S511INFR40105	SK50	IR40	63	105	35,5	
S511INFR41105	SK50	IR40	70	105	35,5	

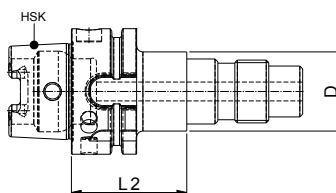
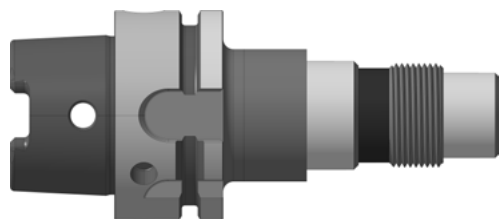
optional AD/B опционально AD/B

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

**Balance** / Балансировка G 1,0 20 000rpm

**Seat runout** / Биение: 0.003mm



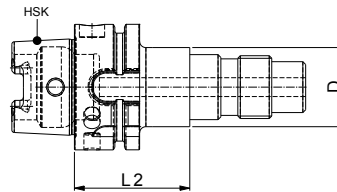
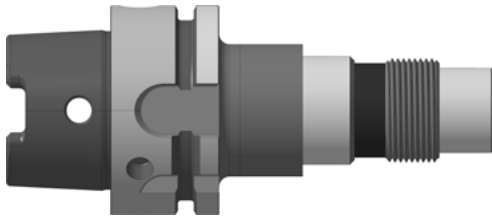
**HSK-A BASE TOOLHOLDER FO EXTENSION**
**БАЗОВЫЙ ДЕРЖАТЕЛЬ HSK-A ДЛЯ УДЛИНИТЕЛЯ**
**FOR COLLETS DIN 6499**
**ДЛЯ ЦАНГ ER DIN 6499**


EDP No	Taper Конус	Base Базовый размер	D	Length Длина	L2
A32INFR08050	HSK32A	R08	12	50	30,6
A32INFR8S050	HSK32A	R8S	16	50	30,6
A32INFR11070	HSK32A	R11	19	70	35
A40INFR08050	HSK40A	R08	12	50	30,6
A40INFR8S050	HSK40A	R8S	16	50	30,6
A40INFR11080	HSK40A	R11	19	80	45
A40INFR16080	HSK40A	R16	28	80	26
A40INFR20080	HSK40A	R20	34	80	25
A50INFR08050	HSK50A	R08	12	50	30,6
A50INFR8S050	HSK50A	R8S	16	50	30,6
A50INFR11070	HSK50A	R11	19	70	35
A50INFR16100	HSK50A	R16	28	100	46
A50INFR20100	HSK50A	R20	34	100	45
A50INFR25100	HSK50A	R25	42	100	38
A50INFR32110	HSK50A	R32	50	100	44,5
A63INFR08070	HSK63A	R08	12	70	50,6
A63INFR8S070	HSK63A	R8S	16	70	50,6
A63INFR11070	HSK63A	R11	19	70	35
A63INFR11100	HSK63A	R11	19	100	65
A63INFR16100	HSK63A	R16	28	100	46
A63INFR20100	HSK63A	R20	34	100	45
A63INFR25100	HSK63A	R25	42	100	38
A63INFR32110	HSK63A	R32	50	110	44,5
A63INFR40120	HSK63A	R40	63	120	50,5

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance** / Допуск конуса: AT2

**Balance** / Балансировка G 1,0 20 000rpm

**Seat runout** / Биение: 0.003mm

**HSK-A BASE TOOLHOLDER FOR EXTENSION**
**БАЗОВЫЙ ДЕРЖАТЕЛЬ HSK-A ДЛЯ УДЛИНИТЕЛЯ**
**FOR COLLETS DIN 6499**
**ДЛЯ ЦАНГ ER DIN 6499**


EDP No	Taper Конус	Base Базовый размер	D	Length Длина	L2
A80INFR16100	HSK80A	R16	28	100	46
A80INFR20100	HSK80A	R20	34	100	45
A80INFR25100	HSK80A	R25	42	100	38
A80INFR32110	HSK80A	R32	50	110	44,5
A80INFR40120	HSK80A	R40	63	120	50,5

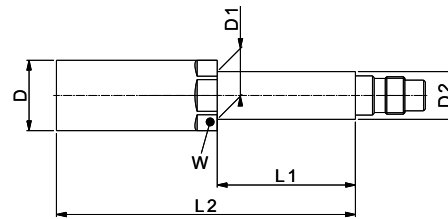
A10INFR08070	HSK100A	R08	12	70	50,6
A10INFR8S070	HSK100A	R8S	16	70	50,6
A10INFR11100	HSK100A	R11	19	100	65
A10INFR16100	HSK100A	R16	28	100	46
A10INFR20100	HSK100A	R20	34	100	45
A10INFR25110	HSK100A	R25	42	110	38
A10INFR32110	HSK100A	R32	50	110	44,5
A10INFR40120	HSK100A	R40	63	120	50,5
A10INFR42120	HSK100A	R42	85	120	50,5

A12INFR16100	HSK125A	R16	28	100	46
A12INFR20100	HSK125A	R20	34	100	45
A12INFR25100	HSK125A	R25	42	100	38
A12INFR32110	HSK125A	R32	50	110	44,5
A12INFR40120	HSK125A	R40	63	120	50,5
A12INFR42120	HSK125A	R42	70	120	50,5

**FEATURES СВОЙСТВА**
**Taper Angle Tolerance / Допуск конуса:** AT2

**Balance / Балансировка** G 1,0 20 000rpm

**Seat runout / Биение:** 0.003mm

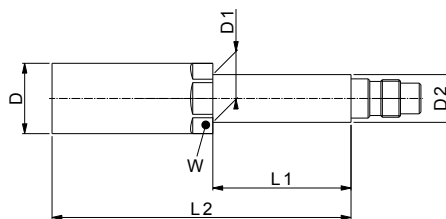
**EXTENSION BASE SHANK**
**БАЗОВЫЙ УДЛИНИТЕЛЬ**


EDP No	Base size Базовый размер	Extension Удлинитель		D	D1	D2	L1	L2	W
		Size Размер	Ln Length Длина						
R08INFR080035EX	R08	R8	35	12	12	12	X	35	WRX108
R08INFR080500EX	R08	R8	50	12	12	12	X	50	WRX108
R08INFR081000EX	R08	R8	100	12	12	12	X	100	WRX108
R8SINFR080500EX	R08	R8	50	16	14	12	X	50	WRX18S
R8SINFR081000EX	R08	R8	100	16	16	12	X	100	WRX18S
R8SINFR8S0500EX	R8S	R8S	50	16	16	16	X	50	WRX18S
R8SINFR8S1000EX	R8S	R8S	100	16	16	16	X	100	WRX18S

R11INFR080200EX	R11	R8	20	19	12	12	X	20	WRX11
R11INFR080500EX	R11	R8	50	19	15	12	29	50	WRX11
R11INFR080700EX	R11	R8	70	19	17	12	49	70	WRX11
R11INFR081000EX	R11	R8	100	19	12	12	80	100	WRX11
R11INFR8S0500EX	R11	R8S	50	19	16	16	29	50	WRX11
R11INFR8S0700EX	R11	R8S	70	19	16	16	49	70	WRX11
R11INFR8S1000EX	R11	R8S	100	19	16	16	79	100	WRX11
R11INFR111000EX	R11	R11	100	19	19	19	X	100	WRX11
R11INFR112000EX	R11	R11	200	19	19	19	X	200	WRX11

R16INFR110500EX	R16	R11	50	28	28	28	X	50	WRX16
R16INFR111000EX	R16	R11	100	28	19	19	73	100	WRX16
R16INFR161000EX	R16	R16	100	28	28	28	X	100	WRX16
R16INFR161120EX	R16	R16	112	28	28	28	X	112	WRX16
R16INFR162000EX	R16	R16	200	28	28	28	X	200	WRX16

R20INFR160500EX	R20	R16	50	34	34	34	X	50	WRC20
R20INFR161000EX	R20	R16	100	34	28	28	53	100	WRC20
R20INFR161120EX	R20	R16	112	34	28	28	65	112	WRC20
R20INFR201000EX	R20	R20	100	34	34	34	X	100	WRC20
R20INFR201120EX	R20	R20	112	34	34	34	X	112	WRC20

**EXTENSION BASE SHANK**
**БАЗОВЫЙ УДЛИНИТЕЛЬ**


EDP No	Base size Базовый размер	Extension Удлинитель		D	D1	D2	L1	L2	W
		Size Размер	Ln Length Длина						
R20INFR202000EX	R20	R20	200	34	34	34	X	200	WRC20

R25INFR160500EX	R25	R16	50	42	42	42	X	50	WRH25
R25INFR161000EX	R25	R16	100	42	28	28	47	100	WRH25
R25INFR161120EX	R25	R16	112	42	28	28	59	112	WRH25
R25INFR200500EX	R25	R20	50	42	42	42	X	50	WRH25
R25INFR201000EX	R25	R20	100	42	34	34	46	100	WRH25
R25INFR201120EX	R25	R20	112	42	34	34	58	112	WRH25
R25INFR251000EX	R25	R25	100	42	42	42	X	100	WRH25
R25INFR251120EX	R25	R25	112	42	42	42	X	112	WRH25
R25INFR252000EX	R25	R25	200	42	42	42	X	200	WRH25

R32INFR160500EX	R32	R16	50	50	50	34	4	50	WRH32
R32INFR161000EX	R32	R16	100	50	28	28	54	100	WRH32
R32INFR200500EX	R32	R20	50	50	50	50	X	50	WRH32
R32INFR201000EX	R32	R20	100	50	34	34	40	100	WRH32
R32INFR250500EX	R32	R25	50	50	50	50	X	50	WRH32
R32INFR251000EX	R32	R25	100	50	42	42	77	100	WRH32
R32INFR251120EX	R32	R25	112	50	42	42	89	112	WRH32
R32INFR321000EX	R32	R32	100	50	50	50	X	100	WRH32
R32INFR322000EX	R32	R32	200	50	50	50	X	200	WRH32

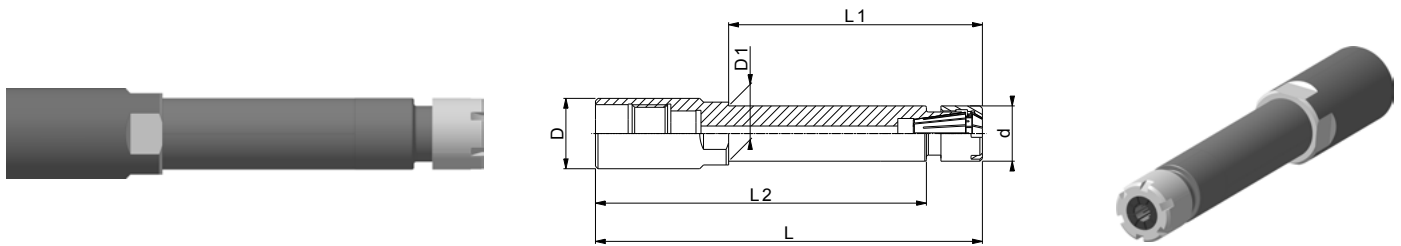
R40INFR250600EX	R40	R25	60	63	42	42	10	60	WRH40
R40INFR251000EX	R40	R25	100	63	42	42	50	100	WRH40
R40INFR251120EX	R40	R25	112	63	42	42	62	112	WRH40
R40INFR320600EX	R40	R32	60	63	50	50	47	60	WRH40
R40INFR321000EX	R40	R32	100	63	50	50	47	100	WRH40
R40INFR321120EX	R40	R32	112	63	50	50	59	112	WRH40
R40INFR401000EX	R40	R40	100	63	63	63	X	100	WRH40
R40INFR401120EX	R40	R40	112	63	63	63	X	112	WRH40
R40INFR411000EX	R40	R41	100	63	70	70	40	100	WRH40
R40INFR421000EX	R40	R42	100	63	85	85	40	100	WRH40

R41NFR411000EX	R41	R41	100	70	70	70	X	100	WRCI41
R41NFR421000EX	R41	R42	100	70	85	85	40	100	WRCI41

R42NFR421000EX	R42	R42	100	85	85	85	X	100	WRCI42
----------------	-----	-----	-----	----	----	----	---	-----	--------

**ER COLLET CHUCK - MINI NUT EXTENSION**

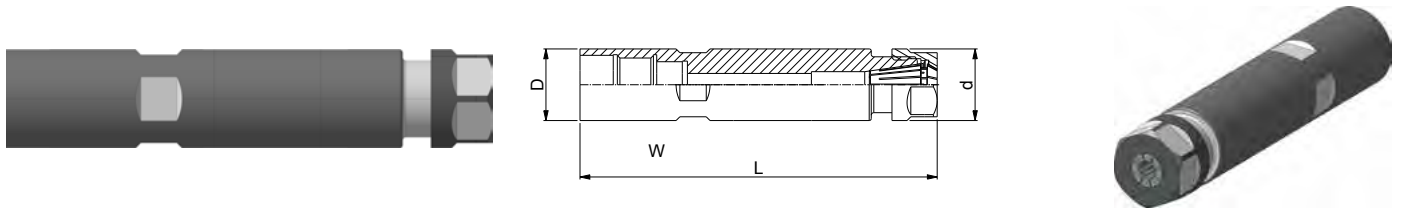
ЦАНГОВЫЙ ПАТРОН ER - ЗАТЯЖНАЯ ГАЙКА –УДЛИНИТЕЛЬ



EDP No	Base size Базовый размер	Extension Удлинитель		D	D1	d	L	L1	L2	W
		Size Размер	Length Длина							
R08INFER080600T	R8	ER8M	60	12	12	12	79,4	X	62,4	WRX108
R08INFER080900T	R8	ER8M	90	12	12	12	109,4	X	92,4	WRX108
R08INFER081000T	R8	ER8M	100	12	12	12	119,4	X	102,4	WRX108
R08INFER081300T	R8	ER8M	130	12	12	12	149,4	X	132,4	WRX108
R8SINFER080600T	R8S	ER8M	60	16	12	12	80	51	63	WRX18S
R8SINFER081000T	R8S	ER8M	100	16	12	12	120	91	133	WRX18S
R8SINFER110300T	R8S	ER11M	30	16	16	16	49,4	X	30,8	WRX18S
R8SINFER110600T	R8S	ER11M	60	16	16	16	79,4	X	60,8	WRX18S
R8SINFER111000T	R8S	ER11M	100	16	16	16	119,4	X	100,8	WRX18S
R11INFER080600T	R11	ER8M	60	19	12	12	95	59	79	WRX11
R11INFER081000T	R11	ER8M	100	19	12	12	135	99	119	WRX11
R11INFER110230T	R11	ER11M	23	19	16	16	58	22	40	WRX11
R11INFER110600T	R11	ER11M	60	19	16	16	95	59	76,4	WRX11
R11INFER111000T	R11	ER11M	100	19	16	16	135	99	116,4	WRX11
R16INFER110600T	R16	ER11M	60	28	16	16	114	61	95,4	WRX16
R16INFER111000T	R16	ER11M	100	28	16	16	154	101	135,4	WRX16
R16INFER160600T	R16	ER16M	60	28	22	22	114	61	89	WRX16
R16INFER161000T	R16	ER16M	100	28	22	22	154	101	129	WRX16
R16INFER200600T	R16	ER20M	60	28	28	28	114	x	86	WRX16
R16INFER201000T	R16	ER20M	100	28	28	28	154	x	126	WRX16

**ER COLLET CHUCK EXTENSION**

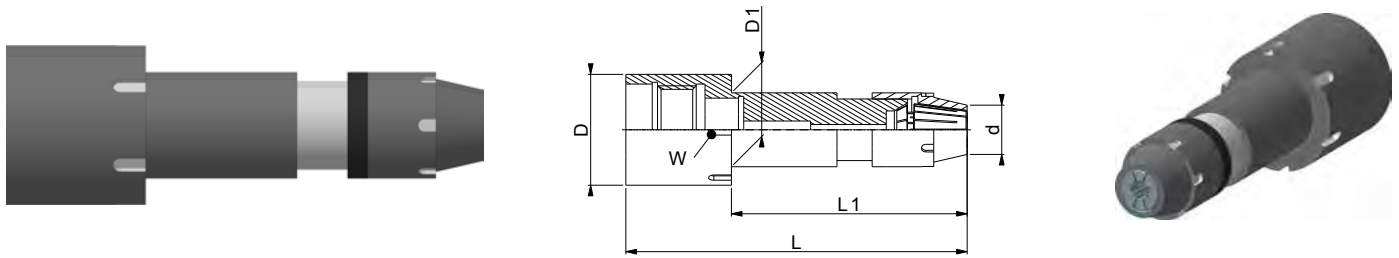
## УДЛИНИТЕЛЬ ЦАНГОВОГО ПАТРОНА ER



EDP No	Base size Базовый размер	Extension Удлинитель		D	D1	d	L	L1	L2	W
		Size Размер	Length Длина							
R11INFER110600N	R11	ER11	60	19	19	19	95	x	78	WRX11
R11INFER111000N	R11	ER11	100	19	19	19	135	x	118	WRX11
R16INFER110600N	R16	ER11	60	28	19	19	114	48,5	97	WRX16
R16INFER111000N	R16	ER11	100	28	19	19	154	88,5	137	WRX16
R16INFER160600N	R16	ER16	60	28	28	28	115	x	88,5	WRX16
R16INFER161000N	R16	ER16	100	28	28	28	155	x	128,5	WRX16
R16INFER161120N	R16	ER16	112	28	28	28	167	x	140,5	WRX16
R20INFER161000N	R20	ER16	100	34	28	28	156	105,6	129,5	WRC20
R20INFER161120N	R20	ER16	112	34	28	28	168	117,6	141,5	WRC20
R20INFER200600N	R20	ER20	60	34	34	34	117	x	89	WRC20
R20INFER201000N	R20	ER20	100	34	34	34	157	x	129	WRC20
R20INFER201120N	R20	ER20	112	34	34	34	166	x	141	WRC20
R25INFER161000N	R25	ER16	100	42	28	28	163	104,5	136,5	WRH25
R25INFER161120N	R25	ER16	112	42	28	28	175	116,5	148,5	WRH25
R25INFER201000N	R25	ER20	100	42	34	34	164	104,5	136	WRH25
R25INFER250600N	R25	ER25	60	42	42	42	122	x	90	WRH25
R25INFER251000N	R25	ER25	100	42	42	42	162	x	130	WRH25
R32INFER161000N	R32	ER16	100	50	28	28	166	109	140	WRH32
R32INFER161120N	R32	ER16	112	50	28	28	178	121	152	WRH32
R32INFER201000N	R32	ER20	100	50	35	34	166	86	137,5	WRH32
R32INFER201120N	R32	ER20	112	50	35	34	178	98	149,5	WRH32
R32INFER251000N	R32	ER25	100	50	42	42	166	106	108,5	WRH32
R32INFER251120N	R32	ER25	112	50	42	42	178	118	120,5	WRH32
R32INFER320600N	R32	ER32	60	50	50	50	126	x	94	WRH32
R32INFER321000N	R32	ER32	100	50	50	50	166	x	134	WRH32
R32INFER321120N	R32	ER32	112	50	50	50	178	x	146	WRH32
R40INFER251000N	R40	ER25	100	63	42	42	170	141	112,5	WRH40
R40INFER251120N	R40	ER25	112	63	42	42	182	153	124,5	WRH40
R40INFER321000N	R40	ER32	100	63	50	50	170	112	138	WRH40
R40INFER321120N	R40	ER32	112	63	50	50	182	124	150	WRH40
R40INFER400600N	R40	ER40	60	63	63	63	130	x	92,5	WRH40
R40INFER401000N	R40	ER40	100	63	63	63	170	x	132,5	WRH40
R40INFER401120N	R40	ER40	112	63	63	63	182	x	144,5	WRH40

**REVERSED ER COLLET CHUCK EXTENSION**

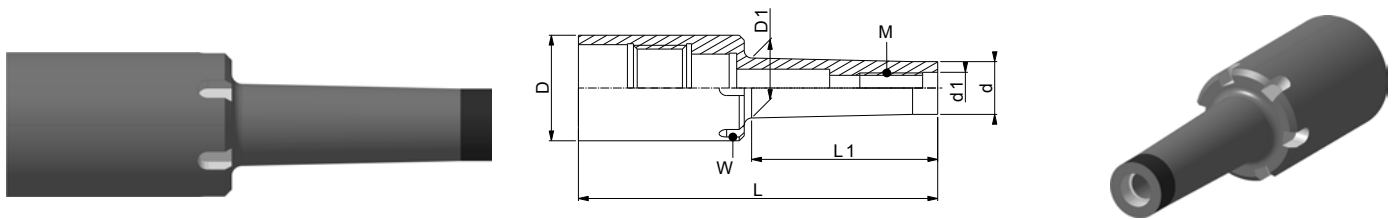
## УДЛИНИТЕЛЬ РЕВЕРСИВНОГО ПАТРОНА ER



EDP No	Base size Базовый размер	Extension Удлинитель		D	D1	d	L	L1	L2	L3	W
		Size Размер	Length Длина								
R16INFER160600R	R16	ER16	60	28	28	19	114	114	19	x	WRX16
R16INFER161000R	R16	ER16	100	28	28	19	154	154	19	x	WRX16
R16INFER161120R	R16	ER16	112	28	28	19	166	166	19	x	WRX16
R20INFER161000R	R20	ER16	100	34	28	19	155	102	19	101~	WRC20
R20INFER161120R	R20	ER16	112	34	28	19	167	114	19	113	WRC20
R20INFER200600R	R20	ER20	60	34	34	23	110	110	20	x	WRC20
R20INFER201000R	R20	ER20	100	34	34	23	150	150	20	x	WRC20
R20INFER201120R	R20	ER20	112	34	34	23	167	167	20	x	WRC20
R25INFER161000R	R25	ER16	100	42	28	19	151	83	19	108	WRH25
R25INFER161120R	R25	ER16	112	42	28	19	163	95	19	120	WRH25
R25INFER201000R	R25	ER20	100	42	35	23	131	73	20	107	WRH25
R25INFER201120R	R25	ER20	112	42	35	23	153	85	20	119	WRH25
R25INFER250600R	R25	ER25	60	42	42	28	122	122	22	x	WRH25
R25INFER251000R	R25	ER25	100	42	42	28	162	162	22	x	WRH25
R25INFER251120R	R25	ER25	112	42	42	28	174	174	22	x	WRH25
R32INFER161000R	R32	ER16	100	50	28	19	155	73	19	111	WRH32
R32INFER161120R	R32	ER16	112	50	28	19	167	85	19	123	WRH32
R32INFER201000R	R32	ER20	100	50	35	23	158	88	20	110	WRH32
R32INFER201120R	R32	ER20	112	50	35	23	170	100	20	122	WRH32
R32INFER251000R	R32	ER25	100	50	42	28	160	101	22	103	WRH32
R32INFER251120R	R32	ER25	112	50	42	28	172	113	22	115	WRH32
R32INFER320600R	R32	ER32	60	50	50	34	125	125	25	x	WRH32
R32INFER321000R	R32	ER32	100	50	50	34	165	165	25	x	WRH32
R40INFER251000R	R40	ER25	100	63	42	28	170	98	22	107	WRH40
R40INFER251120R	R40	ER25	112	63	42	28	182	110	22	119	WRH40
R40INFER321000R	R40	ER32	100	63	50	34	170	75	25	104	WRH40
R40INFER321120R	R40	ER32	112	63	50	34	182	87	25	116	WRH40
R40INFER400600R	R40	ER40	60	63	63	42	130	130	24	x	WRH40
R40INFER401000R	R40	ER40	100	63	63	42	170	170	24	x	WRH40
R40INFER401120R	R40	ER40	112	63	63	42	182	182	24	x	WRH40

**SCREW-IN CHUCK - EXTENSION**

УДЛИНИТЕЛЬ ОПРАВКИ ДЛЯ ФРЕЗ С РЕЗЬБОВЫМ ХВОСТОВИКОМ

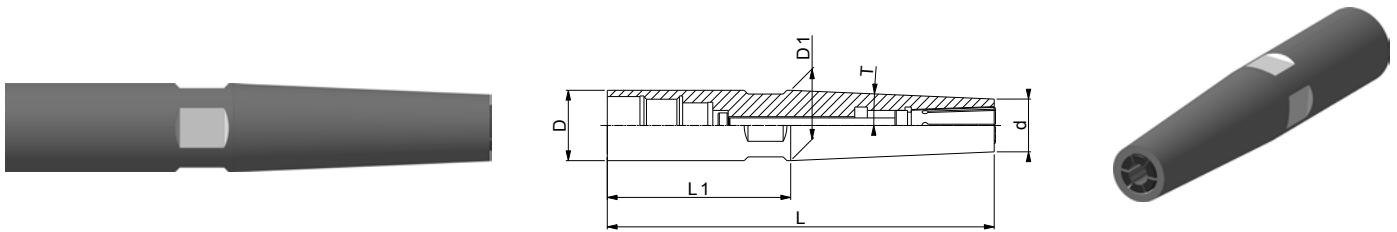


EDP No	Base Базовый	Size Размер	Length Длина	D	D1	d	d1	L	L1	W
R11INFM080600S	R11	M08	60	19	19	13	8.5	95	55	WRX11
R11INFM081000S	R11	M08	100	19	19	13	8.5	135	95	WRX11
R11INFM100600S	R11	M10	60	19	19	18	10.5	95	55	WRX11
R11INFM101000S	R11	M10	100	19	19	18	10.5	135	95	WRX11
R16INFM100600S	R16	M10	60	28	25	18	10.5	114	58	WRX16
R16INFM101000S	R16	M10	100	28	25	18	10.5	154	98	WRX16
R16INFM120600S	R16	M12	60	28	25	21	12.5	114	58	WRX16
R16INFM121000S	R16	M12	100	28	25	21	12.5	154	98	WRX16
R20INFM100600S	R20	M10	60	34	25	18	10.5	115	62	WRC20
R20INFM101000S	R20	M10	100	34	25	18	10.5	155	102	WRC20
R20INFM101120S	R20	M10	112	34	25	18	10.5	167	110	WRC20
R20INFM120600S	R20	M12	60	34	24	21	12.5	115	62	WRC20
R20INFM121000S	R20	M12	100	34	24	21	12.5	155	102	WRC20
R20INFM160600S	R20	M16	60	34	34	29	17	115	62	WRC20
R20INFM161000S	R20	M16	100	34	34	29	17	155	102	WRC20
R25INFM121120S	R25	M12	112	42	24	21	12.5	143	77	WRH25
R25INFM161120S	R25	M16	112	42	34	29	17	143	90	WRH25

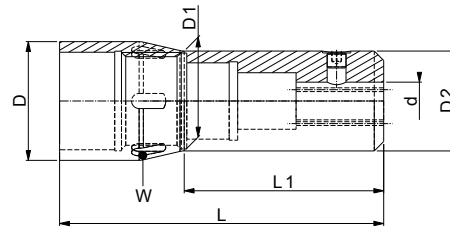


## HIGH SPEED SLIM CHUCK - EXTENSION

УДЛИНИТЕЛЬ ОПРАВКИ ДЛЯ СКОРОСТНОЙ ОБРАБОТКИ



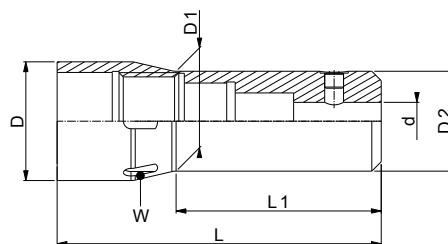
EDP No	Base Базовый	Size Размер	Length Длина	D	D1	d	L	L1	T	W
R11INFHC06100H	R11	HC06	100	19	19	13	135	68	2,5	WRX11
R16INFHC06100H	R16	HC06	100	28	21	13	154	87	2,5	WRX16
R16INFHC10100H	R16	HC10	100	28	28	21	154	73	3	WRX16
R20INFHC16100H	R20	HC16	100	34	34	32	155	18	3	WRX20

**END MILL CHUCK EXTENSION WITH COOLANT**
**УДЛИНИТЕЛЬ WELDON С ОХЛАЖДЕНИЕМ**


EDP No	Base Базовый	Size Размер	Length Длина	D	D1	D2	d	L	L1	W
R16INFEM060600C	R16	EM06	60	28	25	25	6	114	52	WRX16
R16INFEM061000C	R16	EM06	100	28	25	25	6	154	92	WRX16
R16INFEM080600C	R16	EM08	60	28	28	28	8	114	x	WRX16
R16INFEM081000C	R16	EM08	100	28	28	28	8	154	x	WRX16
R20INFEM100600C	R20	EM10	60	34	35	35	10	115	65	WRC20
R20INFEM101000C	R20	EM10	100	34	35	35	10	155	105	WRC20
R25INFEM120600C	R25	EM12	60	42	42	42	12	122	x	WRH25
R25INFEM121000C	R25	EM12	100	42	42	42	12	162	x	WRH25
R25INFEM160600C	R25	EM16	60	42	48	48	16	122	62	WRH25
R25INFEM161000C	R25	EM16	100	42	48	48	16	162	102	WRH25
R32INFEM160600C	R32	EM16	60	50	48	48	16	126	65	WRH32
R32INFEM161000C	R32	EM16	100	50	48	48	16	166	105	WRH32
R32INFEM200600C	R32	EM20	60	50	52	52	20	172	65	WRH32
R32INFEM201000C	R32	EM20	100	50	52	52	20	166	105	WRH32
R40INFEM201000C	R40	EM20	100	63	52	52	20	172	111	WRH40
R40INFEM250600C	R40	EM25	60	63	63	63	25	130	x	WRH40
R40INFEM251000C	R40	EM25	100	63	63	63	25	170	x	WRH40
R41INFEM320600C	R41	EM32	60	70	72	72	32	130	69	WRH40
R41INFEM321000C	R41	EM32	100	70	72	72	32	170	109	WRH40

**END MILL CHUCK EXTENSION WITHOUT COOLANT**

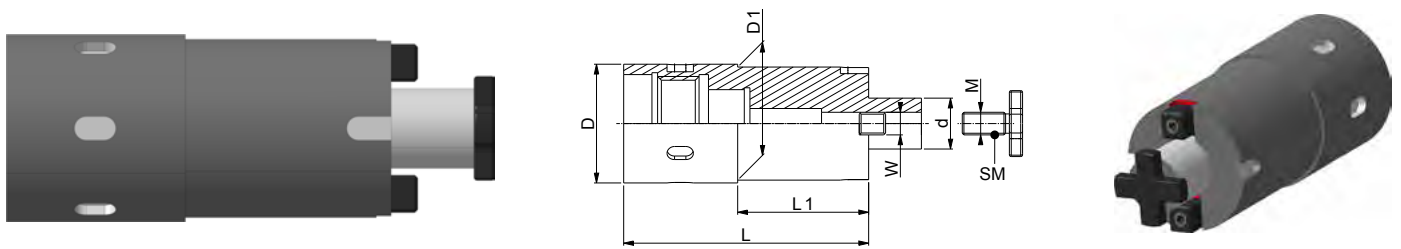
## УДЛИНИТЕЛЬ WELDON БЕЗ ОХЛАЖДЕНИЯ



EDP No	Base Базовый	Size Размер	Length Длина	D	D1	D2	d	L	L1	W
R16INFR060600E	R16	EM06	60	28	25	25	6	114	52	WRX16
R16INFR061000E	R16	EM06	100	28	25	25	6	154	92	WRX16
R16INFR080600E	R16	EM08	60	28	28	28	8	114	x	WRX16
R16INFR081000E	R16	EM08	100	28	28	28	8	154	x	WRX16
R20INFR081120E	R20	EM08	112	34	28	28	8	167	x	WRC20
R20INFR100600E	R20	EM10	60	34	35	35	10	115	65	WRC20
R20INFR101000E	R20	EM10	100	34	35	35	10	155	105	WRC20
R25INFR120600E	R25	EM12	60	42	42	42	12	122	x	WRH25
R25INFR121000E	R25	EM12	100	42	42	42	12	162	x	WRH25
R25INFR140600E	R25	EM14	60	42	44	44	14	122	62	WRH25
R25INFR140100E	R26	EM14	100	42	44	44	14	162	102	WRH25
R25INFR160600E	R25	EM16	60	42	48	48	16	122	62	WRH25
R25INFR161000E	R25	EM16	100	42	48	48	16	162	102	WRH25
R32INFR160600E	R32	EM16	60	50	48	48	16	126	65	WRH32
R32INFR161000E	R32	EM16	100	50	48	48	16	166	105	WRH32
R32INFR180600E	R32	EM18	60	50	50	50	18	126	x	WRH32
R32INFR180100E	R32	EM18	100	50	50	50	18	166	x	WRH32
R32INFR200600E	R32	EM20	60	50	52	52	20	126	65	WRH32
R32INFR201000E	R32	EM20	100	50	52	52	20	166	105	WRH32
R40INFR201120E	R40	EM20	112	63	52	52	20	182	121	WRH40
R40INFR250600E	R40	EM25	60	63	63	63	25	129,5	x	WRH40
R40INFR251000E	R40	EM25	100	63	63	63	25	169,5	x	WRH40
R40INFR251120E	R40	EM25	112	63	63	63	25	181,5	x	WRH40
R41INFR320600E	R41	EM32	60	70	72	72	32	129,5	69	WRH40
R41INFR321000E	R41	EM32	100	70	72	72	32	169,5	109	WRH40
R41INFR401000E	R41	EM40	100	70	80	80	40	169,5	109	WRH40
R42INFR501000E	R42	EM50	100	85	92	92	50	169,5	109	WRH40

## SHELL MILL CHUCK EXTENSION WITH COOLANT

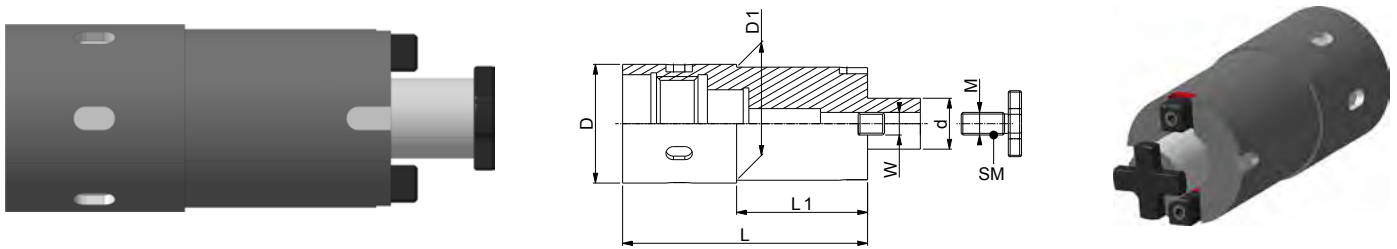
УДЛИНИТЕЛЬ УНИВЕРСАЛЬНЫЙ С ОХЛАЖДЕНИЕМ



EDP No	Base Базовый	Size Размер	Length Длина	d	L	D1	L1	L2	M	W
R20INFFMA16060C	R20	FMA16	60	16	115	38	17	5	M8	8
R20INFFMA16100C	R20	FMA16	100	16	155	38	17	5	M8	8
R25INFFMA16060C	R25	FMA16	60	16	122	38	17	5	M8	8
R25INFFMA16100C	R25	FMA16	100	16	162	38	17	5	M8	8
R32INFFMA22060C	R32	FMA22	60	22	89	50	19	5	M10	10
R32INFFMA22096C	R32	FMA22	96	22	125	50	19	5	M10	10
R32INFFMA22100C	R32	FMA22	100	22	129	50	19	5	M10	10
R32INFFMA27060C	R32	FMA27	60	27	89	60	21	6	M12	12
R32INFFMA27100C	R32	FMA27	100	27	129	60	21	6	M12	12
R40INFFMA27060C	R40	FMA27	60	27	130	60	21	6	M12	12
R40INFFMA27100C	R40	FMA27	100	27	170	60	21	6	M12	12
R40INFFMA32060C	R40	FMA32	60	32	130	78	24	7	M16	14
R40INFFMA32100C	R40	FMA32	100	32	170	78	24	7	M16	14
R40INFFMA40060C	R40	FMA40	60	40	130	89	27	8,5	M20	16
R40INFFMA40100C	R40	FMA40	100	40	170	89	27	8,5	M20	16
R40INFFMA60060C	R40	FMA60	60	60	130	129	40	12,5	M16*4	25,4
R40INFFMA60100C	R40	FMA60	100	60	170	129	40	12,5	M16*4	25,4

**SHELL MILL CHUCK EXTENSION WITHOUT COOLANT**

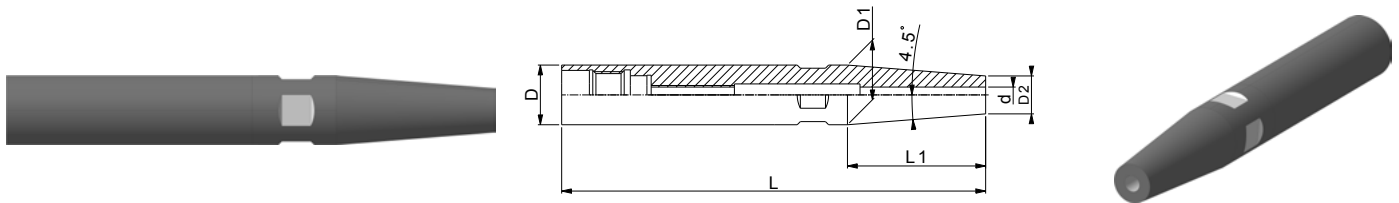
УДЛИНИТЕЛЬ УНИВЕРСАЛЬНЫЙ БЕЗ ОХЛАЖДЕНИЯ



EDP No	Base Базовый	Size Размер	Length Длина	d	L	D1	L1	L2	M	W
R20INFFMA16060N	R20	FMA16	60	16	115	38	17	5	M8	8
R20INFFMA16100N	R20	FMA16	100	16	155	38	17	5	M8	8
R25INFFMA16060N	R25	FMA16	60	16	122	38	17	5	M8	8
R25INFFMA16100N	R25	FMA16	100	16	162	38	17	5	M8	8
R32INFFMA22060N	R32	FMA22	60	22	89	50	19	5	M10	10
R32INFFMA22096N	R32	FMA22	96	22	125	50	19	5	M10	10
R32INFFMA22100N	R32	FMA22	100	22	129	50	19	5	M10	10
R32INFFMA27060N	R32	FMA27	60	27	89	60	21	6	M12	12
R32INFFMA27100N	R32	FMA27	100	27	129	60	21	6	M12	12
R40INFFMA27060N	R40	FMA27	60	27	130	60	21	6	M12	12
R40INFFMA27100N	R40	FMA27	100	27	170	60	21	6	M12	12
R40INFFMA32060N	R40	FMA32	60	32	130	78	24	7	M16	14
R40INFFMA32100N	R40	FMA32	100	32	170	78	24	7	M16	14
R40INFFMA40060N	R40	FMA40	60	40	130	89	27	8,5	M20	16
R40INFFMA40100N	R40	FMA40	100	40	170	89	27	8,5	M20	16
R40INFFMA60060N	R40	FMA60	60	60	130	129	40	12,5	M16*4	25,4
R40INFFMA60100N	R40	FMA60	100	60	170	129	40	12,5	M16*4	25,4

**4,5° SHRINK FIT HOLDER - EXTENSION**

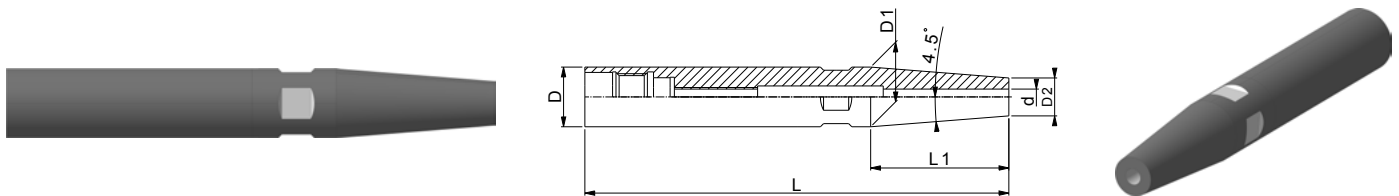
## УДЛИНИТЕЛЬ ТЕРМОЗАЖИМНОГО ПАТРОНА



EDP No	Base Базовый	Size Размер	Length Длина	D	D1	D2	d	L	L1	W
R8SINF50306004	R8S	S03	60	16	16	10	3	80	38	WRX18S
R8SINF50306014	R8S	S03	100	16	16	10	3	120	38	WRX18S
R11INF50306004	R11	S03	60	19	19	10	3	95	57	WRX11
R11INF50310004	R11	S03	100	19	19	10	3	135	57	WRX11
R11INF50406004	R11	S04	60	19	19	12	4	95	44	WRX11
R11INF50410004	R11	S04	100	19	19	12	4	135	44	WRX11
R11INF50506004	R11	S05	60	19	19	12	5	95	44	WRX11
R11INF50510004	R11	S05	100	19	19	12	5	135	44	WRX11
R16INF50606004	R16	S06	60	28	28	21	6	114	44	WRX16
R16INF50610004	R16	S06	100	28	28	21	6	154	44	WRX16
R16INF50806004	R16	S08	60	28	28	21	8	114	44	WRX16
R16INF50810004	R16	S08	100	28	28	21	8	154	44	WRX16
R16INF51006004	R16	S10	60	28	28	24	10	114	25	WRX16
R16INF51010004	R16	S10	100	28	28	24	10	154	25	WRX16
R16INF51206004	R16	S12	60	28	28	24	12	114	25	WRX16
R16INF51210004	R16	S12	100	28	28	24	12	154	25	WRX16
R20INF51406004	R20	S14	60	34	34	27	14	115	44	WRC20
R20INF51410004	R20	S14	100	34	34	27	14	155	44	WRC20
R20INF51606004	R20	S16	60	34	34	27	16	115	44	WRC20
R20INF51610004	R20	S16	100	34	34	27	16	155	44	WRC20
R25INF51806004	R25	S18	60	42	42	33	18	122	57	WRH25
R25INF51810004	R25	S18	100	42	42	33	18	162	57	WRH25
R25INF52006004	R25	S20	60	42	42	33	20	122	57	WRH25
R25INF52010004	R25	S20	100	42	42	33	20	162	57	WRH25
R32INF52506004	R32	S25	60	50	50	44	25	126	38	WRH32
R32INF52510004	R32	S25	100	50	50	44	25	166	38	WRH32
R32INF53206004	R32	S32	60	50	50	44	32	126	38	WRH32
R32INF53210004	R32	S32	100	50	50	44	32	166	38	WRH32

**4,5° SHRINK FIT HOLDER - SLIM - EXTENSION**

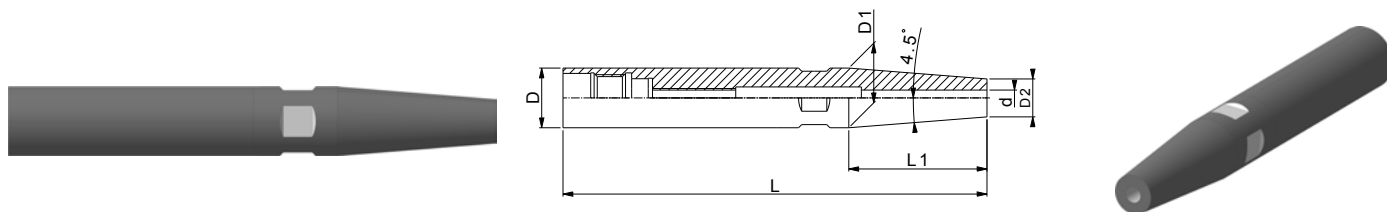
УДЛИНИТЕЛЬ ТЕРМОЗАЖИМНОГО ПАТРОНА - ТОНКИЙ



EDP No	Base Базовый	Size Размер	Length Длина	D	D1	D2	d	L	L1	W
R11INFS060604S	R11	S06	60	19	19	15	6	95	31	WRX11
R11INFS061004S	R11	S06	100	19	19	15	6	135	31	WRX11
R11INFS080604S	R11	S08	60	19	19	15	8	95	31	WRX11
R11INFS081004S	R11	S08	100	19	19	15	8	135	31	WRX11
R16INFS100604S	R16	S10	60	28	27	18	10	114	57	WRX16
R16INFS101004S	R16	S10	100	28	28	18	10	154	63	WRX16
R16INFS120604S	R16	S12	60	28	27	18	12	114	57	WRX16
R16INFS121004S	R16	S12	100	28	27	18	12	154	57	WRX16
R16INFS160604S	R16	S16	60	28	28	21	16	114	45	WRX16
R16INFS161004S	R16	S16	100	28	28	21	16	154	45	WRX16
R20INFS200604S	R20	S20	60	34	34	25	20	114	57	WRX20
R20INFS201004S	R20	S20	100	34	34	25	20	154	57	WRX20

**3° SHRINK FIT HOLDER - EXTENSION**

## УДЛИНИТЕЛЬ ТЕРМОЗАЖИМНОГО ПАТРОНА

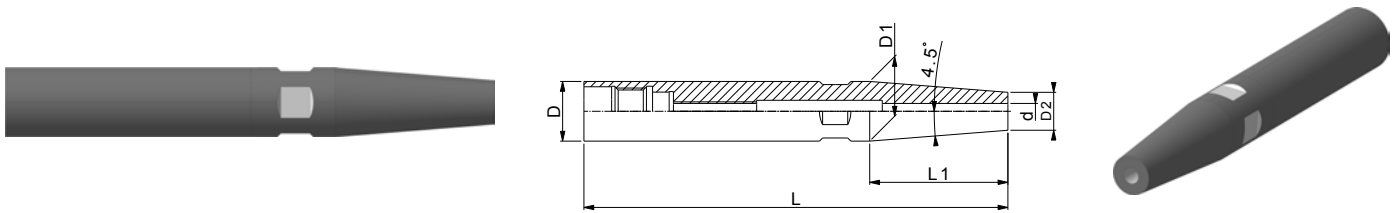


EDP No	Base Базовый	Size Размер	Length Длина	D	D1	D2	d	L	L1	W
R8SINF50306003	R8S	S03	60	16	14	9	3	80	44	WRX18S
R8SINF50310003	R8S	S03	100	16	16	9	3	120	66	WRX18S
R8SINF50406003	R8S	S04	60	16	14	10	4	80	39	WRX18S
R8SINF50410003	R8S	S04	100	16	16	10	4	120	57	WRX18S
R8SINF50506003	R8S	S05	60	16	15	11	5	80	39	WRX18S
R8SINF50510003	R8S	S05	100	16	16	11	5	120	47	WRX18S
R8SINF50606003	R8S	S06	60	16	16	12	6	80	38	WRX18S
R8SINF50610003	R8S	S06	100	16	16	12	6	120	38	WRX18S
R11INF50306003	R11	S03	60	19	15	9	3	95	58	WRX11
R11INF50310003	R11	S03	100	19	19	9	3	135	95	WRX11
R11INF50406003	R11	S04	60	19	16	10	4	95	53	WRX11
R11INF50410003	R11	S04	100	19	19	10	4	135	85	WRX11
R11INF50506003	R11	S05	60	19	16	11	5	95	54	WRX11
R11INF50510003	R11	S05	100	19	19	11	5	135	76	WRX11
R11INF50606003	R11	S06	60	19	18	12	6	95	54	WRX11
R11INF50610003	R11	S06	100	19	19	12	6	135	66	WRX11
R11INF50806003	R11	S08	60	19	19	14	8	95	47	WRX11
R11INF50810003	R11	S08	100	19	19	14	8	135	47	WRX11
R11INF51006003	R11	S10	60	19	19	16	10	95	28	WRX11
R11INF51010003	R11	S10	100	19	19	16	10	135	28	WRX11
R11INF51206003	R11	S12	60	21	21	18	12	95	28	WRX11
R11INF51210003	R11	S12	100	21	21	18	12	135	28	WRX11
R16INF51210003	R16	S12	100	28	28	18	12	154	95	WRX16
R16INF51606003	R16	S16	60	28	28	22	16	114	57	WRX16
R16INF51610003	R16	S16	100	28	28	22	16	154	57	WRX16
R20INF51610003	R20	S16	100	34	33	22	16	155	105	WRC20
R20INF52006003	R20	S20	60	34	34	27	20	115	66	WRC20
R20INF52010003	R20	S20	100	34	34	27	20	155	66	WRC20
R25INF52506003	R25	S25	60	42	41	34	25	122	64	WRH25
R25INF52510003	R25	S25	100	42	42	34	25	162	64	WRH25



**3° SHRINK FIT HOLDER - SLIM - EXTENSION**

УДЛИНИТЕЛЬ ТЕРМОЗАЖИМНОГО ПАТРОНА - ТОНКИЙ



EDP No	Base Базовый	Size Размер	Length Длина	D	D1	D2	d	L	L1	W
R08INF5030603S	R8	S03	60	12	12	6	3	80	43	WRX108
R08INF5031003S	R8	S03	100	12	12	6	3	120	57	WRX108
R08INF5040603S	R8	S04	60	12	12	7	4	80	47	WRX108
R08INF5041003S	R8	S04	100	12	12	7	4	120	47	WRX108
R08INF5050603S	R8	S05	60	12	12	8	5	80	38	WRX108
R08INF5051003S	R8	S05	100	12	12	8	5	120	38	WRX108
R08INF5060603S	R8	S06	60	12	12	9	6	80	28	WRX108
R08INF5061003S	R8	S06	100	12	12	9	6	120	28	WRX108
R8SINF5030603S	R8S	S03	60	16	11	6	3	80	42	WRX18S
R8SINF5031003S	R8S	S03	100	16	14	6	3	120	78	WRX18S
R8SINF5040603S	R8S	S04	60	16	12	7	4	80	37	WRX18S
R8SINF5041003S	R8S	S04	100	16	16	7	4	120	85	WRX18S
R8SINF5050603S	R8S	S05	60	16	12	8	5	80	38	WRX18S
R8SINF5051003S	R8S	S05	100	16	16	8	5	120	76	WRX18S
R8SINF5060603S	R8S	S06	60	16	15	9	6	80	43	WRX18S
R8SINF5061003S	R8S	S06	100	16	16	9	6	120	66	WRX18S
R8SINF5080603S	R8S	S08	60	16	16	11	8	80	47	WRX18S
R8SINF5081003S	R8S	S08	100	16	16	11	8	120	47	WRX18S
R8SINF5100603S	R8S	S10	60	16	16	13	10	80	28	WRX18S
R8SINF5101003S	R8S	S10	100	16	16	13	10	120	28	WRX18S
R11INF5030603S	R11	S03	60	19	12	6	3	95	59	WRX11
R11INF5031003S	R11	S03	100	19	16	6	3	135	99	WRX11
R11INF5040603S	R11	S04	60	19	13	7	4	95	57	WRX11
R11INF5041003S	R11	S04	100	19	17	7	4	135	94	WRX11
R11INF5050603S	R11	S05	60	19	14	8	5	95	58	WRX11
R11INF5051003S	R11	S05	100	19	18	8	5	135	94	WRX11
R11INF5060603S	R11	S06	60	19	15	9	6	95	59	WRX11
R11INF5061003S	R11	S06	100	19	19	9	6	135	95	WRX11
R11INF5080603S	R11	S08	60	19	17	11	8	95	59	WRX11
R11INF5081003S	R11	S08	100	19	19	11	8	135	76	WRX11
R11INF5100603S	R11	S10	60	19	19	13	10	95	57	WRX11
R11INF5101003S	R11	S10	100	19	19	13	10	135	57	WRX11
R11INF5120603S	R11	S12	60	19	19	15	12	95	38	WRX11
R11INF5121003S	R11	S12	100	19	19	15	12	135	38	WRX11

**ER COLLET- TPT**
**ER ЦАНГИ - ТРТ**

ДЛЯ ЦАНГ ER DIN 6499



EDP No	Size Размер	Clamping range
TPT00ER8030	ER8	3.0-2.5
TPT00ER8035		3.5-3.0
TPT00ER8040		4.0-3.5
TPT00ER8045		4.5-4.0
TPT00ER8050		5.0-4.5

TPT00ER11030	ER11	3.0-2.0
TPT00ER11040		4.0-3.0
TPT00ER11050		5.0-4.0
TPT00ER11060		6.0-5.0
TPT00ER11070		7.0-6.0

TPT00ER16030	ER16	3.0-2.0
TPT00ER16040		4.0-3.0
TPT00ER16050		5.0-4.0
TPT00ER16060		6.0-5.0
TPT00ER16070		7.0-6.0
TPT00ER16080		8.0-7.0
TPT00ER16090		9.0-8.0
TPT00ER16100		10.0-9.0

TPT00ER20030	ER20	3.0-2.0
TPT00ER20040		4.0-3.0
TPT00ER20050		5.0-4.0
TPT00ER20060		6.0-5.0
TPT00ER20070		7.0-6.0
TPT00ER20080		8.0-7.0
TPT00ER20090		9.0-8.0
TPT00ER20100		10.0-9.0
TPT00ER20110		11.0-10.0
TPT00ER20120		12.0-11.0
TPT00ER20130		13.0-12.0

TPT00ER25030	ER25	3.0-2.0
TPT00ER25040		4.0-3.0
TPT00ER25050		5.0-4.0
TPT00ER25060		6.0-5.0
TPT00ER25070		7.0-6.0

EDP No	Size Размер	Clamping range
TPT00ER25080	ER25	8.0-7.0
TPT00ER25090		9.0-8.0
TPT00ER25100		10.0-9.0
TPT00ER25110		11.0-10.0
TPT00ER25120		12.0-11.0
TPT00ER25130		13.0-12.0
TPT00ER25140		14.0-13.0
TPT00ER25150		15.0-14.0
TPT00ER25160		16.0-15.0

TPT00ER32030	ER32	3.0-2.0
TPT00ER32040		4.0-3.0
TPT00ER32050		5.0-4.0
TPT00ER32060		6.0-5.0
TPT00ER32070		7.0-6.0
TPT00ER32080		8.0-7.0
TPT00ER32090		9.0-8.0
TPT00ER32100		10.0-9.0
TPT00ER32110		11.0-10.0
TPT00ER32120		12.0-11.0
TPT00ER32130		13.0-12.0
TPT00ER32140		14.0-13.0
TPT00ER32150		15.0-14.0
TPT00ER32160		16.0-15.0
TPT00ER32170		17.0-16.0
TPT00ER32180		18.0-17.0
TPT00ER32190		19.0-18.0
TPT00ER32200	20.0-19.0	

TPT00ER40030	ER40	3.0-2.0
TPT00ER40040		4.0-3.0
TPT00ER40050		5.0-4.0
TPT00ER40060		6.0-5.0
TPT00ER40070		7.0-6.0
TPT00ER40080		8.0-7.0
TPT00ER40090		9.0-8.0
TPT00ER40100		10.0-9.0
TPT00ER40110		11.0-10.0

**ER COLLET- TPT**
**ER ЦАНГИ - ТРТ**

 ДЛЯ ЦАНГ ER DIN  
6499


EDP No	Size Размер	Clamping range
TPT00ER40120	ER40	12.0-11.0
TPT00ER40130		13.0-12.0
TPT00ER40140		14.0-13.0
TPT00ER40150		15.0-14.0
TPT00ER40160		16.0-15.0
TPT00ER40170		17.0-16.0
TPT00ER40180		18.0-17.0
TPT00ER40190		19.0-18.0
TPT00ER40200		20.0-19.0
TPT00ER40210		21.0-20.0
TPT00ER40220		22.0-21.0
TPT00ER40230		23.0-22.0
TPT00ER40240		24.0-23.0
TPT00ER40250		25.0-24.0
TPT00ER40260		26.0-25.0

**IR COLLET- TPT**
**IR ЦАНГИ - ТРТ**

ДЛЯ ЦАНГ ER DIN 6499



EDP No	Size Размер	Clamping range
TPT00IR8030	ER8	3.0-2.5
TPT00IR8035		3.5-3.0
TPT00IR8040		4.0-3.5
TPT00IR8045		4.5-4.0
TPT00IR8050		5.0-4.5

TPT00IR11030	ER11	3.0-2.0
TPT00IR11040		4.0-3.0
TPT00IR11050		5.0-4.0
TPT00IR11060		6.0-5.0
TPT00IR11070		7.0-6.0

TPT00IR16030	ER16	3.0-2.0
TPT00IR16040		4.0-3.0
TPT00IR16050		5.0-4.0
TPT00IR16060		6.0-5.0
TPT00IR16070		7.0-6.0
TPT00IR16080		8.0-7.0
TPT00IR16090		9.0-8.0
TPT00IR16100		10.0-9.0

TPT00IR20030	ER20	3.0-2.0
TPT00IR20040		4.0-3.0
TPT00IR20050		5.0-4.0
TPT00IR20060		6.0-5.0
TPT00IR20070		7.0-6.0
TPT00IR20080		8.0-7.0
TPT00IR20090		9.0-8.0
TPT00IR20100		10.0-9.0
TPT00IR20110		11.0-10.0
TPT00IR20120		12.0-11.0
TPT00IR20130	13.0-12.0	

TPT00IR25030	ER25	3.0-2.0
TPT00IR25040		4.0-3.0
TPT00IR25050		5.0-4.0
TPT00IR25060		6.0-5.0
TPT00IR25070		7.0-6.0

EDP No	Size Размер	Clamping range
TPT00IR25080	ER25	8.0-7.0
TPT00IR25090		9.0-8.0
TPT00IR25100		10.0-9.0
TPT00IR25110		11.0-10.0
TPT00IR25120		12.0-11.0
TPT00IR25130		13.0-12.0
TPT00IR25140		14.0-13.0
TPT00IR25150		15.0-14.0
TPT00IR25160		16.0-15.0

TPT00IR32030	ER32	3.0-2.0
TPT00IR32040		4.0-3.0
TPT00IR32050		5.0-4.0
TPT00IR32060		6.0-5.0
TPT00IR32070		7.0-6.0
TPT00IR32080		8.0-7.0
TPT00IR32090		9.0-8.0
TPT00IR32100		10.0-9.0
TPT00IR32110		11.0-10.0
TPT00IR32120		12.0-11.0
TPT00IR32130		13.0-12.0
TPT00IR32140		14.0-13.0
TPT00IR32150		15.0-14.0
TPT00IR32160		16.0-15.0
TPT00IR32170		17.0-16.0
TPT00IR32180		18.0-17.0
TPT00IR32190	19.0-18.0	
TPT00IR32200	20.0-19.0	

TPT00IR40030	ER40	3.0-2.0
TPT00IR40040		4.0-3.0
TPT00IR40050		5.0-4.0
TPT00IR40060		6.0-5.0
TPT00IR40070		7.0-6.0
TPT00IR40080		8.0-7.0
TPT00IR40090		9.0-8.0
TPT00IR40100		10.0-9.0
TPT00IR40110		11.0-10.0

**IR COLLET- TPT**

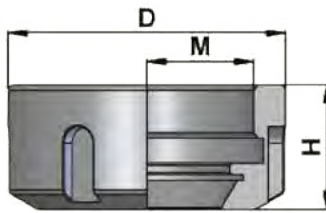
## IR ЦАНГИ - ТРТ

 ДЛЯ ЦАНГ ER DIN  
6499


EDP No	Size Размер	Clamping range
TPT00IR40120	ER40	12.0-11.0
TPT00IR40130		13.0-12.0
TPT00IR40140		14.0-13.0
TPT00IR40150		15.0-14.0
TPT00IR40160		16.0-15.0
TPT00IR40170		17.0-16.0
TPT00IR40180		18.0-17.0
TPT00IR40190		19.0-18.0
TPT00IR40200		20.0-19.0
TPT00IR40210		21.0-20.0
TPT00IR40220		22.0-21.0
TPT00IR40230		23.0-22.0
TPT00IR40240		24.0-23.0
TPT00IR40250		25.0-24.0
TPT00IR40260		26.0-25.0

**ER CLAMPING NUT**

ДЛЯ ЦАНГ ER DIN 6499


**ER MINI NUT**

EDP No		Collet Цанги	D	H	M	Wrench Ключ	
NTM08	ER8 Mini Nut	ER8	12	10.8	M10xP0.75	Mini	WRM08
NTM11	ER11 Mini Nut	ER11	16	12.0	M13xP0.75	Mini	WR012
NTM16	ER16 Mini Nut	ER16	22	18.4	M19xP1.00	Mini	WRM16
NTM20	ER20 Mini Nut	ER20	28	19.0	M24xP1.00	Mini	WR014

**ER MINI BALANCED NUT**

EDP No		Collet Цанги	D	H	M	Wrench Ключ	
NMB08	ER8-HB,Mini Nut	ER8	12	10.8	M10xP0.75	Mini	WRM08
NMB11	ER11-HB,Mini Nut	ER11	16	12.0	M13xP0.75	Mini	WR012
NMB16	ER16-HB,Mini Nut	ER16	22	18.4	M19xP1.00	Mini	WRM16
NMB20	ER20-HB,Mini Nut	ER20	28	19.0	M24xP1.00	Mini	WR014

**ER NUT**

EDP No		Collet Цанги	D	H	M	Wrench Ключ	
NSX11	ER11 Nut,Hex	ER11	19	11.3	M14xP0.75	Hex	WRX11
NSX16	ER16 Nut, Hex	ER16	28	17.5	M22xP1.50	Hex	WRX16
NSX20	ER20 Nut,Hex	ER20	34	19.0	M25xP1.50	Hex	WRX20
NSH20	ER20 Nut,Spanner	ER20	35	19.0	M25xP1.50	IR	WRCI20
NSH25	ER25 Nut	ER25	42	20.0	M32xP1.50	ER	WRH25
NSH32	ER32 Nut	ER32	50	22.5	M40xP1.50	ER	WRH32
NSH40	ER40 Nut	ER40	63	25.5	M50xP1.50	ER	WRH40

**ER BALANCE NUT**

EDP No		Collet Цанги	D	H	M	Wrench Ключ	
NBH11	ER11-HB Nut	ER11	19	11.3	M14xP0.75	Hex	WRX11
NBH16	ER16-HB Nut	ER16	28	17.5	M22xP1.50	Hex	WRX16
NBH20	ER20-HB Nut	ER20	34	19.0	M25xP1.50	Hex	WRX20
NBH21	ER20-HB Nut,Spanner	ER20	35	19.0	M25xP1.50	IR	WRCI20
NBH25	ER25-HB Nut	ER25	42	20.0	M32xP1.50	ER	WRH25
NBH32	ER32-HB Nut	ER32	50	22.5	M40xP1.50	ER	WRH32
NBH40	ER40-HB Nut	ER40	63	25.5	M50xP1.50	ER	WRH40

**ER CLAMPING NUT**

ДЛЯ ЦАНГ ER DIN 6499

**ER RR NUT**

EDP No		Collet Цанги	D	H	M	Wrench Ключ	
NRR11	ER11-RR Nut	ER11	19	11.3	M14xP0.75	Hex	WRX11
NRR16	ER16-RR Nut	ER16	28	17.5	M22xP1.50	Hex	WRX16
NRR20	ER20-RR Nut	ER20	34	19.0	M25xP1.50	Hex	WRX20
NRR25	ER25-RR Nut	ER25	42	20.0	M32xP1.50	ER	WRH25
NRR32	ER32-RR Nut	ER32	50	22.5	M40xP1.50	ER	WRH32
NRR40	ER40-RR Nut	ER40	63	25.5	M50xP1.50	ER	WRH40

**ER RR BALANCED NUT**

EDP No		Collet Цанги	D	H	M	Wrench Ключ	
NRRB11	ER11-RR-HB Nut	ER11	19	11.3	M14xP0.75	Hex	WRX11
NRRB16	ER16-RR-HB Nut	ER16	28	17.5	M22xP1.50	Hex	WRX16
NRRB20	ER20-RR-HB Nut	ER20	34	19.0	M25xP1.50	Hex	WRX20
NRRB25	ER25-RR-HB Nut	ER25	42	20.0	M32xP1.50	ER	WRH25
NRRB32	ER32-RR-HB Nut	ER32	50	22.5	M40xP1.50	ER	WRH32
NRRB40	ER40-RR-HB Nut	ER40	63	25.5	M50xP1.50	ER	WRH40

**ER BALL BEARING NUT**

EDP No		Collet Цанги	D	H	M	Wrench Ключ	
NRBB25	ER25-BB,Ball Bearing	ER25	42	20.0	M32xP1.5	ER	WRH25
NRBB32	ER32-BB,Ball Bearing	ER32	50	22.5	M40xP1.5	ER	WRH32
NRBB40	ER40-BB,Ball Bearing	ER40	63	25.5	M50xP1.5	ER	WRH40

**ER COOLANT MINI NUT**

EDP No		Collet Цанги	D	H	M	Wrench Ключ	
NCM08	ER08C,Coolant Mini	ER08	12	10.8	M10xP0.75	Mini	WRM08
NCM11	ER11C,Coolant Mini	ER11	16	12	M13xP0.75	Mini	WR012
NCM16	ER16C,Coolant Mini	ER16	22	18.4	M19xP1.00	Mini	WRM16
NCM20	ER20C,Coolant Mini	ER20	28	19	M24xP1.00	Mini	WR014

**ER CLAMPING NUT**

ДЛЯ ЦАНГ ER DIN 6499

**ER RR COOLANT NUT**

EDP No		Collet Цанги	D	H	M	Wrench Ключ	
NERCN11	ER11C,Coolant, Hex	ER11	19		M14xP0.75	Hex	WRX11
NERCN16	ER16C,Coolant,Hex	ER16	28		M22xP1.50	Hex	WRX16
NERCN20	ER20C,Coolant,Hex	ER20	34		M25xP1.50	Hex	WRX20
NERCN25	ER25C,Coolant Nut	ER25	42		M32xP1.50	Spanner	WRH25
NERCN32	ER32C,Coolant Nut	ER32	50		M40xP1.50	Spanner	WRH32
NERCN40	ER40C,Coolant Nut	ER40	63		M50xP1.50	Spanner	WRH40

Recommended Torque					
ER nut ER nakreţka	N-m	ft-lb	ER nut ER nakreţka	N-m	ft-lb
ER08 MINI	5	4	ER16	54	40
ER11 MINI	16	12	ER20	81	60
ER16 MINI	24	18	ER25	108	80
ER20 MINI	28	21	ER32	136	100
ER11	27	20	ER40	176	130

Recommended Torque					
ER nut ER nakreţka	N-m	ft-lb	ER nut ER nakreţka	N-m	ft-lb
IR08	12	9	IR25	115	85
IR8S	12	9	IR32	140	103
IR11	30	22	IR40	163	120
IR16	60	44	IR41	163	120
IR20	85	63	IR42	163	120



**WRENCHES**

Ключ

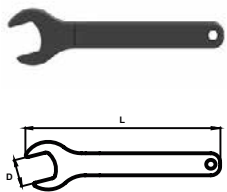
ДЛЯ ЦАНГ ER DIN 6499

**MINI WRENCH**

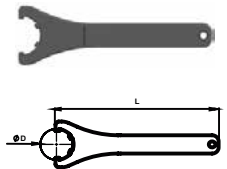
Code	Part Name	D	L	Nut
WR015	ER08 Mini	12	100	ER08M
WRM11	ER11 Mini	16	100	ER11M
WR017	ER16 Mini	22	120	ER16M
WR018	ER20 Mini	28	120	ER20M


**HEX WRENCH**

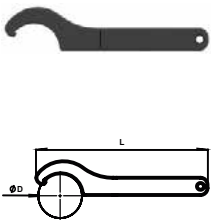
Code	Part Name	D	L	Nut
WRX08	IR08 Hex	11	165	ER11Hex
WRX85	IR85 Hex	15	165	ER11 Hex
WRX11	ER11 Hex	17	165	ER11 Hex
WRX16	ER16 Hex	25	204	ER16 Hex
WRX20	ER20 Hex	30	210	ER20 Hex


**ER WRENCH**

Code	Part Name	D	L	Nut
WRH25	ER25 Wrench	42	210	ER25
WRH32	ER32 Wrench	50	250	ER32
WRH40	ER40 Wrench	63	290	ER40


**IR WRENCH**

Code	Part Name	D	L	Nut
WRCI20	IR20 Wrench	34	203	ER20
WRI25	IR25 Wrench	42	205	ER25
WRCI32	IR32 Wrench	50	240	ER32
WRI40	IR40 Wrench	63	245	ER40
WRI41	IR41 Wrench	70	250	-
WRI42	IR42 Wrench	85	256	-



**WRENCH**

Ключ

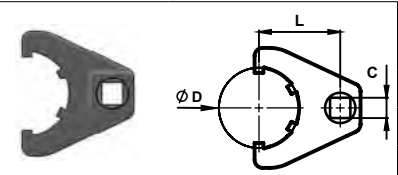
ДЛЯ ЦАНГ ER DIN 6499

**HEX WRENCH ADAPTOR**

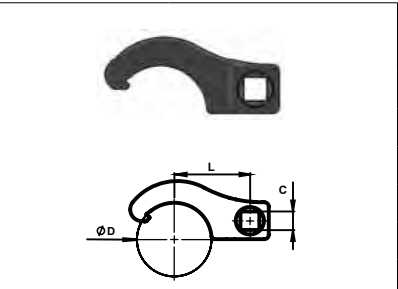
Code	Part Name	D	L		Nut
WRI08H	IR08 Hex Wrench Adaptor	11	50.8	3/8"	-
WRI8SH	IR8S Hex Wrench Adaptor	14	50.8	3/8"	-
WR11H	ER11 Hex Wrench Adaptor	17	50.8	3/8"	ER11 Hex
WR16H	ER16 Hex Wrench Adaptor	25	50.8	1/2"	ER16 Hex
WR20H	ER20 Hex Wrench Adaptor	30	50.8	1/2"	ER20 Hex


**ER WRENCH ADAPTOR**

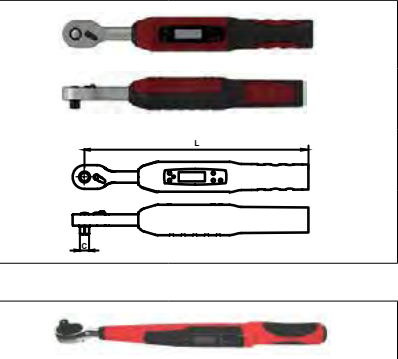
Code	Part Name	D	L		Nut
WR25A	ER 25 Wrench Adaptor	42	50.8	1/2"	ER25
WR32A	ER 32 Wrench Adaptor	50	50.8	1/2"	ER32
WR40A	ER 40 Wrench Adaptor	63	50.8	1/2"	ER40


**IR WRENCH ADAPTOR**

Code	Part Name	D	L		Nut
WRI20A	IR20 Wrench 1/2" Adaptor	34	50.8	1/2"	-
WRI25A	IR25 Wrench 1/2" Adaptor	42	50.8	1/2"	ER25
WRI32A	IR32 Wrench 1/2" Adaptor	50	50.8	1/2"	ER32
WRI40A	IR40 Wrench 1/2" Adaptor	63	50.8	1/2"	ER40
WRI41A	IR41 Wrench 1/2" Adaptor	70	76.2	1/2"	-
WRI42A	Ir42 Wrench 1/2" Adaptor	83	76.2	1/2"	-


**TORQUE WRENCH**

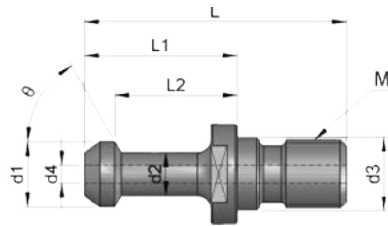
Code	Part Name	C	L		ft-lb
W10DT	Digital Torque Wrench, 3/8"	3/8"	310	10-100	7.4-74
W20DT	Digital Torque Wrench, 1/2"	1/2"	480	20-200	15-147
W30DT	Digital Torque Wrench, 1/2"	1/2"	630	68-340	50-250
W20DTV	Digital Torque Wrench, 1/2",V	1/2"	480	20-200	15-147



**PULL STUD**

Затяжной винт

ДЛЯ ЦАНГ ER DIN 6499


**MAS 403**

**JIS B6339**

**Mazak**
**BT PULL STUD - MAS 403**

EDP No	$\theta$	L	L1	L2	d1	d2	d3	d4	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 - Coolant hole - MAS 403**

EDP No	$\theta$	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

**BT PULL STUD - Coolant hole - Mazak**

EDP No	$\theta$	L	L1	L2	d1	d2	d3	d4	M
PS02BT40B45	45	44.1	19.1	14	18.8	12.45	17	7	M16
PS03BT40B45	45	41.1	16.1	11	18.8	12.45	17	7	M16
PS02BT50B45	45	65.2	25.2	17.58	28.95	20.83	25	10	M24

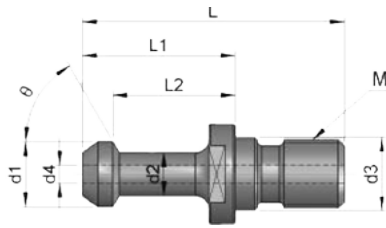
**BT PULL STUD - Coolant hole - JIS B6339P**

EDP No	$\theta$	L	L1	L2	d1	d2	d3	d4	M
PS04BT30B75	75	43	23.4	18.4	12	8	12.5	4	M12
PS04BT40B75	75	54	29	23	19	14	17	7	M16
PS04BT50B75	75	74	34	25	28	21	25	10	M24

**PULL STUD**

Затяжной винт

ДЛЯ ЦАНГ ER DIN 6499


**SK PULL STUD**

SK Затяжной винт

EDP No	$\theta$	L	L1	L2	d1	d2	d3	d4	M
PS01SK40B15	15	54	26	20	19	14	17	7	M16
PS01SK50B15	15	74	34	25	28	21	25	12	M24

**HIGHEST PRECISION**
**SK PULL STUD**

SK Затяжной винт

EDP No	$\theta$	L	L1	L2	d1	d2	d3	d4	M
PS05SK40B15	15	54	26	20	19	14	17	7	M16
PS05SK50B15	15	74	34	25	28	21	25	12	M24



[www.tizimplements.eu](http://www.tizimplements.eu)  
[tiz@tiz.pl](mailto:tiz@tiz.pl)