

# SE60



# SE 60 STANDARD ENDMILLS

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

 Solid Carbide SE 60 Standard Endmills, 4 flutes

 Fraises 2 tailles SE 60 Standard en carbure monobloc, 4 dents

 整体硬质合金 SE 60 系列 立铣刀 4 刃 - 标准长度

 VHM SE 60 Standard Fräser, 4 Zähne

 Frese SE 60 Standard in metallo duro integrale, 4 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )					384*		A35*	
	D	I1	I2	L	d2 (h6)	B0819	B0909	B0819	B0909
0100 040 04	1	3		40	4	●	●	●	●
0100 050 06	1	3		50	6	●	●	●	●
0150 040 04	1.5	4.5		40	4	●	●	●	●
0150 050 06	1.5	4.5		50	6	●	●	●	●
0200 040 04	2	6.5		40	4	●	●	●	●
0200 050 06	2	6.5		50	6	●	●	●	●
0250 040 04	2.5	6.5		40	4	●	●	●	●
0300	3	9		40	3	●	●	●	●
0300 050 06	3	9		50	6	●	●	●	●
0400	4	12		50	4	●	●	●	●
0400 050 06	4	12		50	6	●	●	●	●
0500	5	15		50	5	●	●	●	●
0500 050 06	5	15		50	6	●	●	●	●
0600 050	6	16		50	6	●	●	●	●
0600 060	6	20		60	6	●	●	●	●
0800	8	20		64	8	●	●	●	●
1000 070	10	22		70	10	●	●	●	●
1000 075	10	22		75	10	●	●	●	●
1200	12	25		75	12	●	●	●	●
1400	14	32		90	14	●	●	●	●
1600	16	32		90	16	●	●	●	●
1800	18	38		100	18	●	●	●	●
2000	20	38		100	20	●	●	●	●
2200	22	40		100	22	●	●	●	●
2500	25	40		100	25	●	●	●	●

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

277

SPÉCIFICATIONS TECHNIQUES SUJETTES À CHANGEMENT SANS AVIS PRÉALABLE

# SE 60 ENDMILLS - LONG

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

UK Solid Carbide SE 60 Endmills - Long, 4 flutes

FR Fraises 2 tailles SE 60 longues en carbure monobloc, 4 dents

CN 整体硬质合金 SE 60 系列 立铣刀 4 刃 - 中长

DE VHM SE 60 Fräser, lang, 4 Zähne

IT Frese SE 60 lunghe in metallo duro integrale, 4 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )					372*	A36*
	D	L1	L2	L	d2 (h6)	B0819	B0909
0300 075 06	3	19		75	6	●	●
0400 075 06	4	19		75	6	●	●
0500	5	19		60	5	●	●
0500 075 06	5	19		75	6	●	●
0600	6	31		75	6	●	●
0800	8	31		75	8	●	●
1000 075	10	31		75	10	●	●
1000 100	10	50		100	10	●	●
1200	12	50		100	12	●	●
1400	14	57		125	14	●	●
1600	16	57		125	16	●	●
1800	18	57		125	18	●	●
2000	20	57		125	20	●	●

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

279

MODIFICHE TECNICHE POSSIBILI SENZA PREAVVISO



# SE 60 ENDMILLS - EXTRA-LONG

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

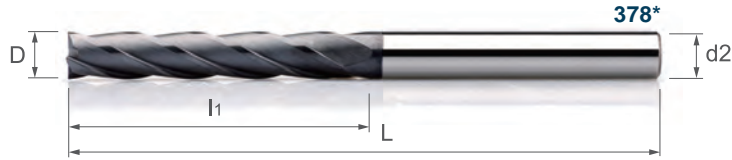
Solid Carbide SE 60 Endmills - extra-long, 4 flutes

Fraises 2 tailles SE 60 extra-longues en carbure monobloc, 4 dents

整体硬质合金 SE 60 系列 立铣刀 4 刃 - 加长

VHM SE 60 Fräser, extra-lang, 4 Zähne

Frese SE 60 extra-lunghe in metallo duro integrale, 4 taglienti



				<b>B0819</b>	<b>B0909</b>	
VHM		-6°	λ = 40°	HPT	HSC	DIN 6535 HA HB HE

EDPNo./EDV-Nr./ CODEusine/CodiceEDP = *+Ødata	Dimension ( mm )					378*		A37*	
	D	L1	L2	L	d2 (h6)	B0819	B0909		
0300 100 06	3	25		100	6	●	●		
0400 100 06	4	31		100	6	●	●		
0500	5	31		100	5	●	●		
0500 100 06	5	31		100	6	●	●		
0600	6	38		100	6	●	●		
0800	8	41		100	8	●	●		
1000	10	57		125	10	●	●		
1200	12	75		150	12	●	●		
1400	14	75		150	14	●	●		
1600	16	75		150	16	●	●		
1800	18	75		150	18	●	●		
2000	20	75		150	20	●	●		

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576




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若有技术规格变更，恕不事先通知

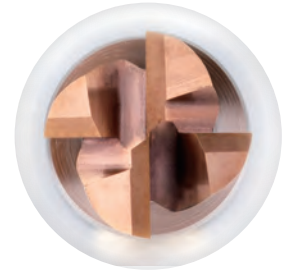
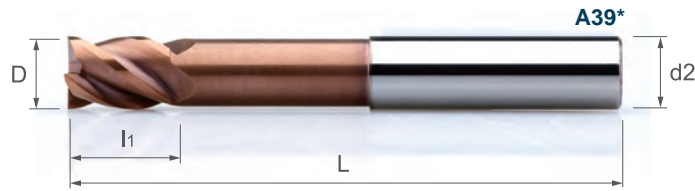


# SE 60 SHORT FLUTES LONG REACH ENDMILLS - LONG

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC






 Solid Carbide SE 60 long LONG REACH  
Endmills with short flutes, 4 flutes  
 Fraises 2 tailles SE 60 LONG REACH longues  
à hélices courtes en carbure monobloc, 4 dents  
 整体硬质合金 SE 60 系列 短刃 立铣刀  
4 刃 - 中长

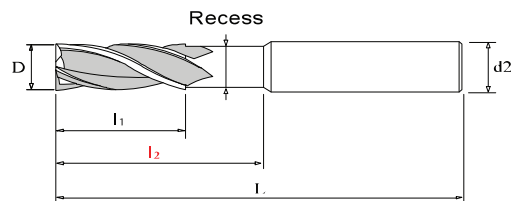
 VHM SE 60 lange LONG REACH Fräser mit  
kurzen Nuten, 4 Zähne  
 Frese SE 60 LONG REACH lunghe in metallo  
duro integrale, con gole corte, 4 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )					404*	A38*
	D	L1	L2	L	d2 (h6)	B0819	B0909
0300 075 06	3	5	30	75	6	●	●
0400 075 06	4	8	32	75	6	●	●
0500 075 06	5	9	32	75	6	●	●
0600	5	10	40	75	6	●	●
0800	6	12	40	75	6	●	●
1000 075	8	14	40	75	8	●	●
1000 100	10	14	60	100	10	●	●
1200	12	16	60	100	12	●	●
1400	14	22	85	125	14	●	●
1600	16	22	85	125	16	●	●
1800	18	26	85	125	18	●	●
2000	20	26	85	125	20	●	●

449\*      A39\*

 Tools with **recess** upon request  
 Fräser mit **Freistellung** auf Bestellung  
 Outils avec **dégagement** sur demande  
 Utensilli con **riduzione gambo** su richiesta  
 密齿 立铣刀 带颈位 特别要求



Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material      Cutting Parameter

576

279

# SE 60 SHORT FLUTES LONG REACH ENDMILLS - EXTRA-LONG

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

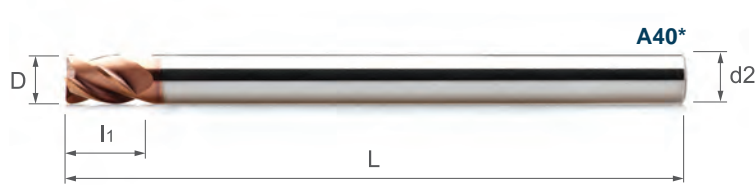
UK Solid Carbide SE 60 extra-long LONG REACH  
Endmills with short flutes, 4 flutes

FR Fraises 2 tailles SE 60 LONG REACH extra-longues  
à hélices courtes en carbure monobloc, 4 dents

CN 整体硬质合金 SE 60 系列 短刃 立铣刀  
4 刃 - 加长

DE VHM SE 60 extra-lange LONG REACH Fräser  
mit kurzen Nuten, 4 Zähne

IT Frese SE 60 LONG REACH extra-lunghe in  
metallo duro integrale, con gole corte, 4 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )					408*		A40*	
	D	l1	l2	L	d2 (h6)	B0819		B0909	
0300 100 06	3	5	60	100	6	●	●	●	●
0400 100 06	4	8	60	100	6	●	●	●	●
0500 100 06	5	9	60	100	6	●	●	●	●
0600	6	10	60	100	6	●	●	●	●
0800	8	12	60	100	8	●	●	●	●
1000	10	14	85	125	10	●	●	●	●
1200	12	16	110	150	12	●	●	●	●
1400	14	22	110	150	14	●	●	●	●
1600	16	22	110	150	16	●	●	●	●
1800	18	26	110	150	18	●	●	●	●
2000	20	26	110	150	20	●	●	●	●

631\*

A41\*

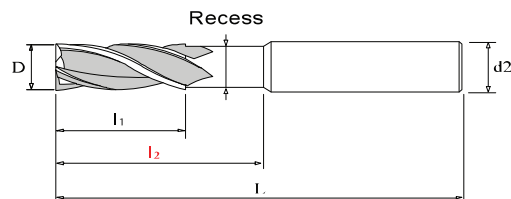
UK Tools with recess upon request

DE Fräser mit Freistellung auf Bestellung

FR Outils avec dégagement sur demande

IT Utensilli con riduzione gambo su richiesta

密齿 立铣刀 带颈位 特别要求



Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

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# SE 60 MULTIFLUTE ENDMILLS

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

United Kingdom Solid Carbide SE 60 Multiflute Endmills, 6 respectively 8 Flutes

France Fraises 2 tailles Multidentés SE 60 en carbure monobloc, 6 respectivement 8 dents

China 整体硬质合金 SE 60 系列 密齿 立铣刀 6 - 8 刃 - 标准长度

Germany VHM Mehrzahnfräser SE 60 - 6 bzw. 8 Zähne

Italy Frese multi-taglienti SE 60 in metallo duro integrale, 6 rispettivamente 8 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )					450*	A42*
	D	L1	L2	L	d2 (h6)	B0819	B0909
0300 050 06	3	8	20	50	6	●	●
0400 050 06	4	11	20	50	6	●	●
0500 050 06	5	13	20	50	6	●	●
0600 050	6	15	20	50	6	●	●
0600 060	6	20	30	60	6	●	●
0800	8	20	30	64	8	●	●
1000	10	22	32	70	10	●	●
1200	12	25	37	75	12	●	●
1400	14	30	44	90	14	●	●

EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )					450*	A42*
	D	L1	L2	L	d2 (h6)	B0819	B0909
1600	16	30	46	90	16	●	●
1800	18	35	53	100	18	●	●
2000	20	38	58	100	20	●	●

451\*      A43\*

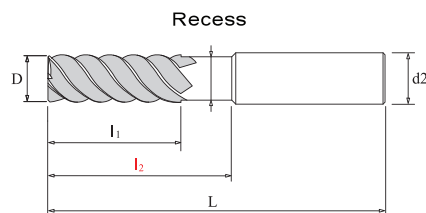
United Kingdom Tools with recess upon request

Germany Fräser mit Freistellung auf Bestellung

France Outils avec dégagement sur demande

Italy Utensilli con riduzione gambo su richiesta

China 密齿 立铣刀 带颈位 特别要求



Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material      Cutting Parameter

576

283

SPÉCIFICATIONS TECHNIQUES SUJETTES À CHANGEMENT SANS AVIS PRÉALABLE



# SE 60 MULTIFLUTE ENDMILLS - LONG

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

- Solid Carbide SE 60 Long Multiflute Endmills, 6 respectively 8 Flutes
- Fraises 2 tailles Multidentés SE 60 longues en carbure monobloc, 6 respectivement 8 dents
- 整体硬质合金 SE 60 系列 密齿 立铣刀 6-8 刃 - 中长

- VHM lange Mehrzahnfräser SE 60 - 6 bzw. 8 Zähne
- Frese multi-taglienti SE 60 lunghe in metallo duro integrale, 6 rispettivamente 8 taglienti



				<b>B0819</b>	<b>B0909</b>	
VHM		-26°	λ <sub>v</sub> = 50°	HPT	HSC	DIN 6535 HA HB HE

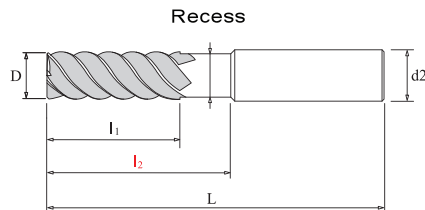
EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )					452*		A44*	
	D	L1	L2	L	d2 (h6)	B0819	B0909	B0819	B0909
0300 075 06	3	19	30	75	6	●	●	●	●
0400 075 06	4	19	32	75	6	●	●	●	●
0500 075 06	5	19	32	75	6	●	●	●	●
0600	6	31	40	75	6	●	●	●	●
0800	8	31	40	75	8	●	●	●	●
1000	10	45	60	100	10	●	●	●	●
1200	12	50	60	100	12	●	●	●	●
1400	14	57	85	125	14	●	●	●	●



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )					452*		A44*	
	D	L1	L2	L	d2 (h6)	B0819	B0909	B0819	B0909
1600	16	57	85	125	16	●	●	●	●
1800	18	57	85	125	18	●	●	●	●
2000	20	57	85	125	20	●	●	●	●

453\*      A45\*

- Tools with **recess** upon request
- Fräser mit **Freistellung** auf Bestellung
- Outils avec **dégagement** sur demande
- Utensilli con **riduzione gambo** su richiesta
- 密齿 立铣刀 带颈位 特别要求



Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material	Cutting Parameter
576	284

MODIFICHE TECNICHE POSSIBILI SENZA PREAVVISO



# SE 60 MULTIFLUTE ENDMILLS - EXTRA LONG

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

🇬🇧 Solid Carbide SE 60 Extra-Long Multiflute Endmills, 6 respectively 8 Flutes

🇫🇷 Fraises 2 tailles Multidentés SE 60 extra-longues en carbure monobloc, 6 respectivement 8 dents

🇨🇳 整体硬质合金 SE 60 系列 密齿 立铣刀 6-8 刃 - 加长

🇩🇪 VHM extra-lange Mehrzahnfräser SE 60, 6 bzw. 8 Zähne

🇮🇹 Frese multi-taglienti SE 60 extra-lunghe in metallo duro integrale, 6 rispettivamente 8 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )					459*		A46*	
	D	I1	I2	L	d2 (h6)	B0819	B0909	B0819	B0909
0300 100 06	3	25	60	100	6	●	●	●	●
0400 100 06	4	31	60	100	6	●	●	●	●
0500 100 06	5	31	60	100	6	●	●	●	●
0600	6	38	60	100	6	●	●	●	●
0800	8	41	60	100	8	●	●	●	●
1000	10	57	85	125	10	●	●	●	●
1200	12	75	110	150	12	●	●	●	●
1400	14	75	110	150	14	●	●	●	●

EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )					459*		A46*	
	D	I1	I2	L	d2 (h6)	B0819	B0909	B0819	B0909
1600	16	75	110	150	16	●	●	●	●
1800	18	75	110	150	18	●	●	●	●
2000	20	75	110	150	20	●	●	●	●

558\*      A47\*

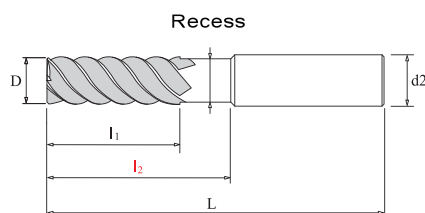
🇬🇧 Tools with recess upon request

🇩🇪 Fräser mit Freistellung auf Bestellung

🇫🇷 Outils avec dégagement sur demande

🇮🇹 Utensilli con riduzione gambo su richiesta

🇨🇳 密齿 立铣刀 带颈位 特别要求



Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material      Cutting Parameter

576

285

若有技术规格变更, 恕不事先通知

# SE 60 STANDARD ENDMILLS, SHORT FLUTES

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

 Solid Carbide SE 60 Standard Endmills, 4 flutes

 Fraises 2 tailles SE 60 Standard en carbure monobloc, 4 dents

 整体硬质合金 SE 60 系列 立铣刀 4 刃 - 标准长度

 VHM SE 60 Standard Fräser, 4 Zähne

 Frese Standard SE 60 in metallo duro integrale, 4 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP = *+Ødata	Dimension ( mm )					910*	A34*
	D	L1	L2	L	d2 (h6)	B0819	B0909
0300 060 06	3	4		60	6	●	●
0400 060 06	4	5		60	6	●	●
0500 060 06	5	6		60	6	●	●
0600	6	7		60	6	●	●
0800	8	9		64	8	●	●
1000	10	11		70	10	●	●
1200	12	13		75	12	●	●
1600	16	17		90	16	●	●

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

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# SE 60R SHORT FLUTE TORUS ENDMILLS

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

United Kingdom Solid Carbide SE 60R Torus Endmills, short flutes, 4 flutes

France Fraises toriques 2 tailles SE 60R toriques, goujures courtes, 4 dents

China 整体硬质合金 SE 60R 系列 圆鼻短刃 立铣刀 4 刃 - 标准长度

Germany VHM SE 60R Standard Torusfräser, kurzen Nuten, 4 Zähne

Italy Frese toroidali SE 60R in metallo duro integrale, gole corte, 4 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )						789*	A48*
	D	l1	l2	L	d2 (h6)	R	B0819	B0909
0300 060 0600 030	3	4	14	60	6	0.3	●	●
0300 060 0600 050	3	4	14	60	6	0.5	●	●
0400 060 0600 030	4	5	16	60	6	0.3	●	●
0400 060 0600 050	4	5	16	60	6	0.5	●	●
0500 060 0600 030	5	6	18	60	6	0.3	●	●
0500 060 0600 050	5	6	18	60	6	0.5	●	●
0600 060 0600 030	6	7	20	60	6	0.3	●	●
0600 060 0600 050	6	7	20	60	6	0.5	●	●
0600 060 0600 100	6	7	20	60	6	1.0	●	●
0800 064 0800 030	8	9	26	64	8	0.3	●	●
0800 064 0800 050	8	9	26	64	8	0.5	●	●
0800 064 0800 100	8	9	26	64	8	1.0	●	●
1000 070 1000 050	10	11	31	70	10	0.5	●	●
1000 070 1000 100	10	11	31	70	10	1.0	●	●
1000 070 1000 200	10	11	31	70	10	2.0	●	●
1200 075 1200 050	12	13	37	75	12	0.5	●	●
1200 075 1200 100	12	13	37	75	12	1.0	●	●
1200 075 1200 200	12	13	37	75	12	2.0	●	●
1600 090 1600 050	16	17	43	90	16	0.5	●	●
1600 090 1600 100	16	17	43	90	16	1.0	●	●
1600 090 1600 200	16	17	43	90	16	2.0	●	●
1600 090 1600 300	16	17	43	90	16	3.0	●	●
							575*	A49*

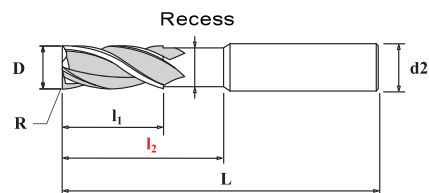
United Kingdom Tools with recess upon request

Germany Fräser mit Freistellung auf Bestellung

France Outils avec dégagement sur demande

Italy Utensilli con riduzione gambo su richiesta

China 密齿 立铣刀 带颈位 特别要求



Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

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## SE 60R STANDARD TORUS ENDMILLS - with Recess and Weldon Shank

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

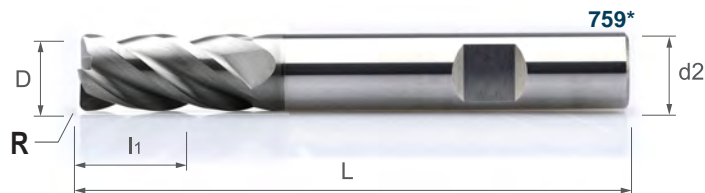
UK Solid Carbide SE 60R Torus Endmills,  
4 Flutes, with Recess and Weldon Shank

FR Fraises toriques 2 tailles SE 60R en carburemonobloc,  
4 dents, avec dégagement, queue Weldon

CN 整体硬质合金 SE 60R 系列 圆鼻 立铣刀  
4 刃 - 标准长度, 带颈位, 柄部标准 DIN 6535HB

DE VHM SE 60R Torusfräser, 4 Zähne,  
mit Freistellung und Weldon-Schaft

IT Frese toroidali SE 60R in metallo duro integrale, 4 taglienti,  
con diminuzione del collo, gambo con piano Weldon



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )							759*
	D	l1	l2	L	d2 (h6)	d3	R	B0819
0300 060 0600 030	3	4	14	60	6	2.8	0.3	●
0300 060 0600 050	3	4	14	60	6	2.8	0.5	●
0400 060 0600 030	4	5	16	60	6	3.8	0.3	●
0400 060 0600 050	4	5	16	60	6	3.8	0.5	●
0500 060 0600 030	5	6	18	60	6	4.8	0.3	●
0500 060 0600 050	5	6	18	60	6	4.8	0.5	●
0600 060 0600 030	6	7	20	60	6	5.7	0.3	●
0600 060 0600 050	6	7	20	60	6	5.7	0.5	●
0600 060 0600 100	6	7	20	60	6	5.7	1.0	●
0800 064 0800 030	8	9	26	64	8	7.7	0.3	●
0800 064 0800 050	8	9	26	64	8	7.7	0.5	●
0800 064 0800 100	8	9	26	64	8	7.7	1.0	●
1000 070 1000 050	10	11	31	70	10	9.6	0.5	●
1000 070 1000 100	10	11	31	70	10	9.6	1.0	●
1000 070 1000 200	10	11	31	70	10	9.6	2.0	●
1200 075 1200 050	12	13	37	75	12	11.6	0.5	●
1200 075 1200 100	12	13	37	75	12	11.6	1.0	●
1200 075 1200 200	12	13	37	75	12	11.6	2.0	●
1600 090 1600 050	16	17	43	90	16	15.6	0.5	●
1600 090 1600 100	16	17	43	90	16	15.6	1.0	●
1600 090 1600 200	16	17	43	90	16	15.6	2.0	●
1600 090 1600 300	16	17	43	90	16	15.6	3.0	●

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

277



# SE 60R STANDARD TORUS ENDMILLS

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

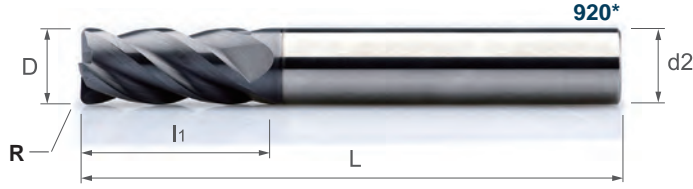
Solid Carbide SE 60R Standard Torus Endmills, 4 flutes

Fraises 2 tailles SE 60R toriques Standard en carbure monobloc, 4 dents

整体硬质合金 SE 60R 系列 圆鼻 立铣刀 4 刃 - 标准长度

VHM SE 60R Standard Torusfräser, 4 Zähne

Frese SE 60R toroidali Standard, in metallo duro integrale, 4 taglienti



VHM	R±0.010	-5° ~ -7°	λ <sub>v</sub> = 40°	HPT	HSC	DIN 6535 HA HB HE

EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )						920*		A50*	
	D	I1	I2	L	d2 (h6)	R	B0819	B0909		
0100 040 0400 020	1	3		40	4	0.2	●	●		
0100 050 0600 020	1	3		50	6	0.2	●	●		
0150 040 0400 020	1.5	4.5		40	4	0.2	●	●		
0150 050 0600 020	1.5	4.5		50	6	0.2	●	●		
0200 040 0400 020	2	6.5		40	4	0.2	●	●		
0200 040 0400 030	2	6.5		40	4	0.3	●	●		
0200 050 0600 020	2	6.5		50	6	0.2	●	●		
0200 050 0600 030	2	6.5		50	6	0.3	●	●		
0250 040 0400 020	2.5	6.5		40	4	0.2	●	●		
0250 040 0400 030	2.5	6.5		40	4	0.3	●	●		
0250 040 0400 050	2.5	6.5		40	4	0.5	●	●		
0250 050 0600 020	2.5	6.5		50	6	0.2	●	●		
0250 050 0600 030	2.5	6.5		50	6	0.3	●	●		
0250 050 0600 050	2.5	6.5		50	6	0.5	●	●		
0300 040 0300 020	3	9		40	3	0.2	●	●		
0300 040 0300 030	3	9		40	3	0.3	●	●		
0300 040 0300 050	3	9		40	3	0.5	●	●		
0300 040 0400 020	3	9		40	4	0.2	●	●		
0300 040 0400 030	3	9		40	4	0.3	●	●		
0300 040 0400 050	3	9		40	4	0.5	●	●		
0300 050 0600 020	3	9		50	6	0.2	●	●		
0300 050 0600 030	3	9		50	6	0.3	●	●		
0300 050 0600 050	3	9		50	6	0.5	●	●		
0400 050 0400 020	4	12		50	4	0.2	●	●		
0400 050 0400 030	4	12		50	4	0.3	●	●		
0400 050 0400 050	4	12		50	4	0.5	●	●		
0400 050 0400 100	4	12		50	4	1	●	●		
0400 050 0600 020	4	12		50	6	0.2	●	●		
0400 050 0600 030	4	12		50	6	0.3	●	●		
0400 050 0600 050	4	12		50	6	0.5	●	●		
0400 050 0600 100	4	12		50	6	1	●	●		

cont'd ▶

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

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MODIFICHE TECNICHE POSSIBILI SENZA PREAVVISO





# SE 60R STANDARD TORUS ENDMILLS

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

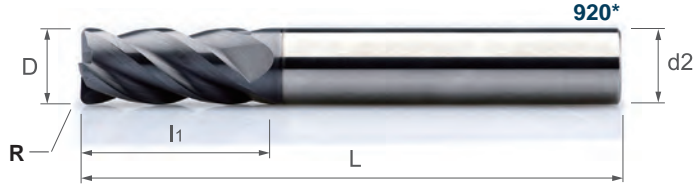
Solid Carbide SE 60R Standard Torus Endmills, 4 flutes

Fraises 2 tailles SE 60R toriques Standard en carbure monobloc, 4 dents

整体硬质合金 SE 60R 系列 圆鼻 立铣刀 4 刃 - 标准长度

VHM SE 60R Standard Torusfräser, 4 Zähne

Frese SE 60R toroidali Standard, in metallo duro integrale, 4 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )						920*		A50*	
	D	l1	l2	L	d2 (h6)	R	B0819	B0909		
0500 050 0500 020	5	15		50	5	0.2	●	●		
0500 050 0500 030	5	15		50	5	0.3	●	●		
0500 050 0500 050	5	15		50	5	0.5	●	●		
0500 050 0500 100	5	15		50	5	1	●	●		
0500 050 0600 020	5	15		50	6	0.2	●	●		
0500 050 0600 030	5	15		50	6	0.3	●	●		
0500 050 0600 050	5	15		50	6	0.5	●	●		
0500 050 0600 100	5	15		50	6	1	●	●		
0600 050 0600 020	6	16		50	6	0.2	●	●		
0600 050 0600 030	6	16		50	6	0.3	●	●		
0600 050 0600 050	6	16		50	6	0.5	●	●		
0600 050 0600 100	6	16		50	6	1.0	●	●		
0600 060 0600 020	6	20		60	6	0.2	●	●		
0600 060 0600 030	6	20		60	6	0.3	●	●		
0600 060 0600 050	6	20		60	6	0.5	●	●		
0600 060 0600 100	6	20		60	6	1.0	●	●		
0800 064 0800 020	8	20		64	8	0.2	●	●		
0800 064 0800 030	8	20		64	8	0.3	●	●		
0800 064 0800 050	8	20		64	8	0.5	●	●		
0800 064 0800 100	8	20		64	8	1.0	●	●		
0800 064 0800 150	8	20		64	8	1.5	●	●		
0800 064 0800 200	8	20		64	8	2.0	●	●		
1000 070 1000 030	10	22		70	10	0.3	●	●		
1000 070 1000 050	10	22		70	10	0.5	●	●		
1000 070 1000 100	10	22		70	10	1.0	●	●		
1000 070 1000 150	10	22		70	10	1.5	●	●		
1000 070 1000 200	10	22		70	10	2.0	●	●		
1000 075 1000 030	10	22		75	10	0.3	●	●		
1000 075 1000 050	10	22		75	10	0.5	●	●		
1000 075 1000 100	10	22		75	10	1.0	●	●		
1000 075 1000 150	10	22		75	10	1.5	●	●		

cont'd ▶

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

277

若有技术规格变更, 恕不事先通知



# SE 60R STANDARD TORUS ENDMILLS

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

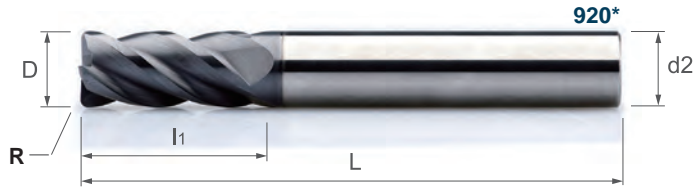
Solid Carbide SE 60R Standard Torus Endmills, 4 flutes

Fraises 2 tailles SE 60R toriques Standard en carbure monobloc, 4 dents

整体硬质合金 SE 60R 系列 圆鼻 立铣刀 4 刃 - 标准长度

VHM SE 60R Standard Torusfräser, 4 Zähne

Frese SE 60R toroidali Standard, in metallo duro integrale, 4 taglienti



VHM	R=0.010	-5° ~ -7°	λ <sub>v</sub> = 40°	HPT	HSC	DIN 6535 HA HB HE

EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )						920*		A50*	
	D	l1	l2	L	d2 (h6)	R	B0819	B0909	B0819	B0909
1000 075 1000 200	10	22		75	10	2	●	●		
1200 075 1200 030	12	25		75	12	0.3	●	●		
1200 075 1200 050	12	25		75	12	0.5	●	●		
1200 075 1200 100	12	25		75	12	1	●	●		
1200 075 1200 150	12	25		75	12	1.5	●	●		
1200 075 1200 200	12	25		75	12	2	●	●		
1200 075 1200 300	12	25		75	12	3	●	●		
1400 090 1400 050	14	32		90	14	0.5	●	●		
1400 090 1400 100	14	32		90	14	1	●	●		
1400 090 1400 150	14	32		90	14	1.5	●	●		
1400 090 1400 200	14	32		90	14	2	●	●		
1400 090 1400 300	14	32		90	14	3	●	●		
1600 090 1600 050	16	32		90	16	0.5	●	●		
1600 090 1600 100	16	32		90	16	1	●	●		
1600 090 1600 150	16	32		90	16	1.5	●	●		
1600 090 1600 200	16	32		90	16	2.0	●	●		
1600 090 1600 300	16	32		90	16	3.0	●	●		
1800 100 1800 050	18	38		100	18	0.5	○	○		
1800 100 1800 100	18	38		100	18	1	○	○		
1800 100 1800 150	18	38		100	18	1.5	○	○		
1800 100 1800 200	18	38		100	18	2	○	○		
1800 100 1800 300	18	38		100	18	3	○	○		
2000 100 2000 050	20	38		100	20	0.5	●	●		
2000 100 2000 100	20	38		100	20	1	●	●		
2000 100 2000 150	20	38		100	20	1.5	●	●		
2000 100 2000 200	20	38		100	20	2	●	●		
2000 100 2000 300	20	38		100	20	3	●	●		

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

277

TECHNICAL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

## SE 60R SHORT FLUTES TORUS ENDMILLS - LONG REACH - LONG

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

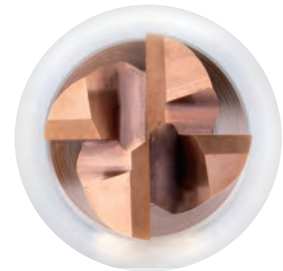
United Kingdom Solid Carbide SE 60R long LONG REACH Torus Endmills, short flutes, 4 flutes

France Fraises 2 tailles SE 60R LONG REACH toriques longues, goujures courtes, 4 dents

China 整体硬质合金 SE 60R 系列 圆鼻短刃 立铣刀 4 刃 - 中长

Germany VHM SE 60R lange LONG REACH Torusfräser, kurze Nuten, 4 Zähne

Italy Frese SE 60R LONG REACH toroidali lunghe in metallo duro integrale, gole corte, 4 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )						455*	A51*
	D	l1	l2	L	d2 (h6)	R	B0819	B0909
0200 075 0600 030	2	4	30	75	6	0.3	●	●
0300 075 0600 030	3	5	30	75	6	0.3	●	●
0300 075 0600 050	3	5	30	75	6	0.5	●	●
0400 075 0600 030	4	8	32	75	6	0.3	●	●
0400 075 0600 050	4	8	32	75	6	0.5	●	●
0500 075 0600 030	5	9	32	75	6	0.3	●	●
0500 075 0600 050	5	9	32	75	6	0.5	●	●
0600 075 0600 030	6	10	40	75	6	0.3	●	●
0600 075 0600 050	6	10	40	75	6	0.5	●	●
0600 075 0600 100	6	10	40	75	6	1	●	●
0800 075 0800 030	8	12	40	75	8	0.3	●	●
0800 075 0800 050	8	12	40	75	8	0.5	●	●
0800 075 0800 100	8	12	40	75	8	1	●	●
1000 075 1000 050	10	14	40	75	10	0.5	●	●
1000 075 1000 100	10	14	40	75	10	1	●	●
1000 075 1000 200	10	14	40	75	10	2	●	●
1000 100 1000 050	10	14	60	100	10	0.5	●	●
1000 100 1000 100	10	14	60	100	10	1	●	●
1000 100 1000 200	10	14	60	100	10	2	●	●
1200 100 1200 050	12	16	60	100	12	0.5	●	●
1200 100 1200 100	12	16	60	100	12	1	●	●
1200 100 1200 200	12	16	60	100	12	2	●	●
1600 125 1600 050	16	22	85	125	16	0.5	●	●
1600 125 1600 100	16	22	85	125	16	1	●	●
1600 125 1600 200	16	22	85	125	16	2	●	●
1600 125 1600 300	16	22	85	125	16	3	●	●

458\* A52\*

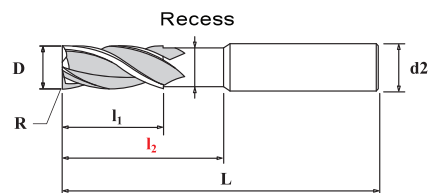
United Kingdom Tools with recess upon request

Germany Fräser mit Freistellung auf Bestellung

France Outils avec dégagement sur demande

Italy Utensilli con riduzione gambo su richiesta

China 密齿 立铣刀 带颈位 特别要求



Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material Cutting Parameter

576

279

## SE 60R SHORT FLUTES LONG REACH TORUS ENDMILLS - EXTRA-LONG

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

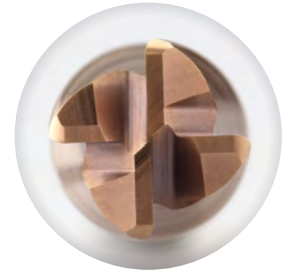
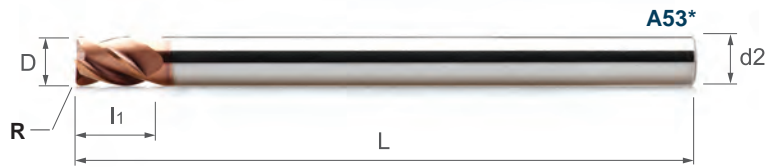
United Kingdom Solid Carbide SE 60R extra-long LONG REACH Torus Endmills, short flutes, 4 flutes

Germany VHM SE 60R extra-lange LONG REACH Torusfräser, kurze Nuten, 4 Zähne

France Fraises toriques 2 tailles SE 60R LONG REACH extra-longues, goujures courtes, 4 dents

Italy Frese torodali SE 60R LONG REACH extra-lunghe in metallo duro integrale, gole corte, 4 taglienti

China 整体硬质合金 SE 60R 系列 圆鼻短刃 立铣刀 4 刃 - 加长



EDPNo./EDV-Nr./ CODEusine/CodiceEDP = *+Ødata	Dimension ( mm )						B34*	A53*
	D	l1	l2	L	d2 (h6)	R	B0819	B0909
0200 100 0600 030	2	4	60	100	6	0.3	●	●
0300 100 0600 030	3	5	60	100	6	0.3	●	●
0300 100 0600 050	3	5	60	100	6	0.5	●	●
0400 100 0600 030	4	8	60	100	6	0.3	●	●
0400 100 0600 050	4	8	60	100	6	0.5	●	●
0500 100 0600 030	5	9	60	100	6	0.3	●	●
0500 100 0600 050	5	9	60	100	6	0.5	●	●
0600 100 0600 030	6	10	60	100	6	0.3	●	●
0600 100 0600 050	6	10	60	100	6	0.5	●	●
0600 100 0600 100	6	10	60	100	6	1	●	●
0800 100 0800 030	8	12	60	100	8	0.3	●	●
0800 100 0800 050	8	12	60	100	8	0.5	●	●
0800 100 0800 100	8	12	60	100	8	1	●	●
1000 125 1000 050	10	14	85	125	10	0.5	●	●
1000 125 1000 100	10	14	85	125	10	1	●	●
1000 125 1000 200	10	14	85	125	10	2	●	●
1200 150 1200 050	12	16	110	150	12	0.5	●	●
1200 150 1200 100	12	16	110	150	12	1	●	●
1200 150 1200 200	12	16	110	150	12	2	●	●
1600 150 1600 050	16	22	110	150	16	0.5	●	●
1600 150 1600 100	16	22	110	150	16	1	●	●
1600 150 1600 200	16	22	110	150	16	2	●	●
1600 150 1600 300	16	22	110	150	16	3	●	●

B35\*

A54\*

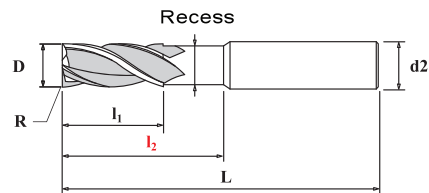
United Kingdom Tools with recess upon request

Germany Fräser mit Freistellung auf Bestellung

France Outils avec dégagement sur demande

Italy Utensilli con riduzione gambo su richiesta

China 密齿 立铣刀 带颈位 特别要求



Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

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# SE 60 MINIATURE ENDMILLS

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

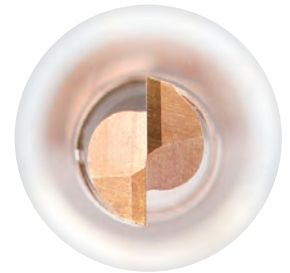
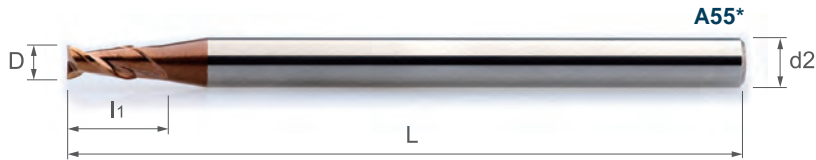
 Solid Carbide SE 60 Miniature Endmills, 2 Flutes

 Micro-Fraises 2 tailles SE 60 en carbure monobloc, 2 dents

 整体硬质合金 SE 60 系列 微型 立铣刀 2 刃

 VHM SE 60 Kleinstfräser, 2 Zähne

 Micro-frese SE 60 in metallo duro integrale, 2 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP = *+Ødata	Dimension ( mm )					B36*	A55*
	D	L1	L2	L	d2 (h6)	B0819	B0909
0010 03	0.1	0.2		40	3	●	●
0010 04	0.1	0.2		40	4	●	●
0020 03	0.2	0.4		40	3	●	●
0020 04	0.2	0.4		40	4	●	●
0030 03	0.3	0.6		40	3	●	●
0030 04	0.3	0.6		40	4	●	●
0040 03	0.4	0.8		40	3	●	●
0040 04	0.4	0.8		40	4	●	●
0050 03	0.5	1.0		40	3	●	●
0050 04	0.5	1.0		40	4	●	●
0060 03	0.6	1.2		40	3	●	●
0060 04	0.6	1.2		40	4	●	●
0070 03	0.7	1.4		40	3	●	●
0070 04	0.7	1.4		40	4	●	●
0080 03	0.8	1.6		40	3	●	●
0080 04	0.8	1.6		40	4	●	●
0090 03	0.9	1.8		40	3	●	●
0090 04	0.9	1.8		40	4	●	●

Ø mm	Tol. µm
0.1 ~ 0.7	0 / -12
0.7 ~ 4.0	0 / -20

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

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MODIFICHE TECNICHE POSSIBILI SENZA PREAVVISO



# SE 60 MINIATURE ENDMILLS - with Long Neck

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

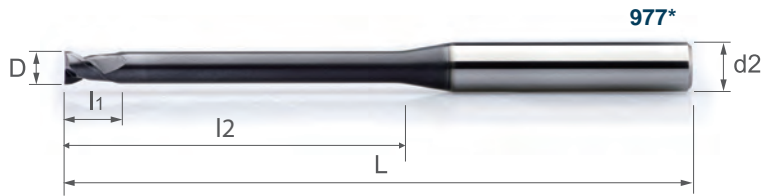
UK Solid Carbide SE 60 Miniature Endmills with long neck, 2 flutes

FR Micro-fraises SE 60 2 tailles en carbure monobloc avec cou long, 2 dents

CN 整体硬质合金 SE 60 系列 长颈短刃 立铣刀 2 刃

DE VHM SE 60 Kleinstfräser mit langem Hals, 2 Zähne

IT Micro-fresa SE 60 in metallo duro integrale con collo lungo, 2 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP = *+Ødata	Dimension ( mm )						977*		A56*	
	D	l1	l2	L	d1	d2 (h6)	B0819	B0909	B0819	B0909
0020 050 0400 005	0.2	0.3	0.5	50	0.16	4	●	●	●	●
0020 050 0400 010	0.2	0.3	1	50	0.16	4	●	●	●	●
0020 050 0400 015	0.2	0.3	1.5	50	0.16	4	●	●	●	●
0030 050 0400 010	0.3	0.4	1	50	0.26	4	●	●	●	●
0030 050 0400 020	0.3	0.4	2	50	0.26	4	●	●	●	●
0030 050 0400 030	0.3	0.4	3	50	0.26	4	●	●	●	●
0040 050 0400 020	0.4	0.6	2	50	0.37	4	●	●	●	●
0040 050 0400 030	0.4	0.6	3	50	0.37	4	●	●	●	●
0040 050 0400 040	0.4	0.6	4	50	0.37	4	●	●	●	●
0040 050 0400 050	0.4	0.6	5	50	0.37	4	●	●	●	●
0050 050 0400 020	0.5	0.7	2	50	0.45	4	●	●	●	●
0050 050 0400 040	0.5	0.7	4	50	0.45	4	●	●	●	●
0050 050 0400 060	0.5	0.7	6	50	0.45	4	●	●	●	●
0050 050 0400 080	0.5	0.7	8	50	0.45	4	●	●	●	●
0060 050 0400 020	0.6	0.9	2	50	0.55	4	●	●	●	●
0060 050 0400 040	0.6	0.9	4	50	0.55	4	●	●	●	●
0060 050 0400 060	0.6	0.9	6	50	0.55	4	●	●	●	●
0060 050 0400 080	0.6	0.9	8	50	0.55	4	●	●	●	●
0060 050 0400 100	0.6	0.9	10	50	0.55	4	●	●	●	●
0070 050 0400 020	0.7	1.0	2	50	0.65	4	●	●	●	●
0070 050 0400 040	0.7	1.0	4	50	0.65	4	●	●	●	●
0070 050 0400 060	0.7	1.0	6	50	0.65	4	●	●	●	●
0070 050 0400 080	0.7	1.0	8	50	0.65	4	●	●	●	●
0070 050 0400 100	0.7	1.0	10	50	0.65	4	●	●	●	●
0080 050 0400 040	0.8	1.2	4	50	0.75	4	●	●	●	●
0080 050 0400 060	0.8	1.2	6	50	0.75	4	●	●	●	●
0080 050 0400 080	0.8	1.2	8	50	0.75	4	●	●	●	●
0080 050 0400 100	0.8	1.2	10	50	0.75	4	●	●	●	●
0080 050 0400 120	0.8	1.2	12	50	0.75	4	●	●	●	●
0090 050 0400 060	0.9	1.4	6	50	0.85	4	●	●	●	●
0090 050 0400 080	0.9	1.4	8	50	0.85	4	●	●	●	●

cont'd ▶

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

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若有技术规格变更, 恕不事先通知

# SE 60 MINIATURE ENDMILLS - with Long Neck

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

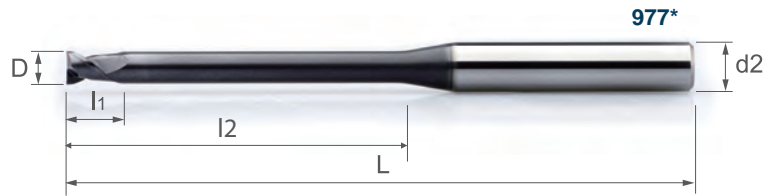
United Kingdom Solid Carbide SE 60 Miniature Endmills with long neck, 2 flutes

France Micro-fraises SE 60 2 tailles en carbure monobloc avec cou long, 2 dents

China 整体硬质合金 SE 60 系列 长颈短刃 立铣刀 2 刃

Germany VHM SE 60 Kleinstfräser mit langem Hals, 2 Zähne

Italy Micro-fresa SE 60 in metallo duro integrale con collo lungo, 2 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )						977*		A56*	
	D	l1	l2	L	d1	d2 (h6)	B0819	B0909	B0819	B0909
0090 050 0400 100	0.9	1.4	10	50	0.85	4	●	●	●	●
0090 050 0400 150	0.9	1.4	15	50	0.85	4	●	●	●	●
0100 050 0400 060	1	1.5	6	50	0.95	4	●	●	●	●
0100 050 0400 080	1	1.5	8	50	0.95	4	●	●	●	●
0100 050 0400 100	1	1.5	10	50	0.95	4	●	●	●	●
0100 050 0400 120	1	1.5	12	50	0.95	4	●	●	●	●
0100 050 0400 140	1	1.5	14	50	0.95	4	●	●	●	●
0100 050 0400 160	1	1.5	16	50	0.95	4	●	●	●	●
0120 050 0400 060	1.2	1.8	6	50	1.15	4	●	●	●	●
0120 050 0400 080	1.2	1.8	8	50	1.15	4	●	●	●	●
0120 050 0400 100	1.2	1.8	10	50	1.15	4	●	●	●	●
0120 050 0400 120	1.2	1.8	12	50	1.15	4	●	●	●	●
0140 050 0400 060	1.4	2.1	6	50	1.35	4	●	●	●	●
0140 050 0400 080	1.4	2.1	8	50	1.35	4	●	●	●	●
0140 050 0400 100	1.4	2.1	10	50	1.35	4	●	●	●	●
0140 050 0400 120	1.4	2.1	12	50	1.35	4	●	●	●	●
0140 050 0400 140	1.4	2.1	14	50	1.35	4	●	●	●	●
0140 050 0400 160	1.4	2.1	16	50	1.35	4	●	●	●	●
0150 050 0400 060	1.5	2.3	6	50	1.45	4	●	●	●	●
0150 050 0400 080	1.5	2.3	8	50	1.45	4	●	●	●	●
0150 050 0400 100	1.5	2.3	10	50	1.45	4	●	●	●	●
0150 050 0400 120	1.5	2.3	12	50	1.45	4	●	●	●	●
0150 050 0400 140	1.5	2.3	14	50	1.45	4	●	●	●	●
0150 060 0400 160	1.5	2.3	16	50	1.45	4	●	●	●	●
0150 060 0400 180	1.5	2.3	18	60	1.45	4	●	●	●	●
0150 060 0400 200	1.5	2.3	20	60	1.45	4	●	●	●	●
0160 050 0400 060	1.6	2.4	6	50	1.55	4	●	●	●	●
0160 050 0400 080	1.6	2.4	8	50	1.55	4	●	●	●	●
0160 050 0400 100	1.6	2.4	10	50	1.55	4	●	●	●	●
0160 050 0400 120	1.6	2.4	12	50	1.55	4	●	●	●	●
0160 050 0400 140	1.6	2.4	14	50	1.55	4	●	●	●	●

cont'd ▶

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

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# SE 60 MINIATURE ENDMILLS - with Long Neck

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

United Kingdom Solid Carbide SE 60 Miniature Endmills with long neck, 2 flutes

France Micro-fraises SE 60 2 tailles en carbure monobloc avec cou long, 2 dents

China 整体硬质合金 SE 60 系列 长颈短刃 立铣刀 2 刃

Germany VHM SE 60 Kleinstfräser mit langem Hals, 2 Zähne

Italy Micro-fresa SE 60 in metallo duro integrale con collo lungo, 2 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )						977*		A56*	
	D	l1	l2	L	d1	d2 (h6)	B0819	B0909	B0819	B0909
0160 050 0400 160	1.6	2.4	16	50	1.55	4	●	●	●	●
0160 060 0400 180	1.6	2.4	18	60	1.55	4	●	●	●	●
0160 060 0400 200	1.6	2.4	20	60	1.55	4	●	●	●	●
0180 050 0400 060	1.8	2.7	6	50	1.75	4	●	●	●	●
0180 050 0400 080	1.8	2.7	8	50	1.75	4	●	●	●	●
0180 050 0400 100	1.8	2.7	10	50	1.75	4	●	●	●	●
0180 050 0400 120	1.8	2.7	12	50	1.75	4	●	●	●	●
0180 050 0400 140	1.8	2.7	14	50	1.75	4	●	●	●	●
0180 050 0400 160	1.8	2.7	16	50	1.75	4	●	●	●	●
0180 060 0400 180	1.8	2.7	18	60	1.75	4	●	●	●	●
0180 060 0400 200	1.8	2.7	20	60	1.75	4	●	●	●	●
0200 050 0400 060	2	3	6	50	1.95	4	●	●	●	●
0200 050 0400 080	2	3	8	50	1.95	4	●	●	●	●
0200 050 0400 100	2	3	10	50	1.95	4	●	●	●	●
0200 050 0400 120	2	3	12	50	1.95	4	●	●	●	●
0200 050 0400 140	2	3	14	50	1.95	4	●	●	●	●
0200 050 0400 160	2	3	16	50	1.95	4	●	●	●	●
0200 060 0400 180	2	3	18	60	1.95	4	●	●	●	●
0200 060 0400 200	2	3	20	60	1.95	4	●	●	●	●
0200 075 0400 250	2	3	25	75	1.95	4	●	●	●	●
0200 075 0400 300	2	3	30	75	1.95	4	●	●	●	●
0250 050 0400 080	2.5	3.7	8	50	2.4	4	●	●	●	●
0250 050 0400 100	2.5	3.7	10	50	2.4	4	●	●	●	●
0250 050 0400 120	2.5	3.7	12	50	2.4	4	●	●	●	●
0250 050 0400 140	2.5	3.7	14	50	2.4	4	●	●	●	●
0250 050 0400 160	2.5	3.7	16	50	2.4	4	●	●	●	●
0250 060 0400 180	2.5	3.7	18	60	2.4	4	●	●	●	●
0250 060 0400 200	2.5	3.7	20	60	2.4	4	●	●	●	●
0250 075 0400 250	2.5	3.7	25	75	3.4	4	●	●	●	●
0250 075 0400 300	2.5	3.7	30	75	2.4	4	●	●	●	●
0300 050 0400 080	2.5	4.5	8	50	2.85	4	●	●	●	●

cont'd ▶

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

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# SE 60 MINIATURE ENDMILLS - with Long Neck


≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

 Solid Carbide SE 60 Miniature Endmills with long neck, 2 flutes

 Micro-fraises SE 60 2 tailles en carbure monobloc avec cou long, 2 dents

 整体硬质合金 SE 60 系列 长颈短刃 立铣刀 2 刃

 VHM SE 60 Kleinstfräser mit langem Hals, 2 Zähne

 Micro-fresa SE 60 in metallo duro integrale con collo lungo, 2 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP = *+Ødata	Dimension ( mm )						977*		A56*	
	D	l1	l2	L	d1	d2 (h6)	B0819	B0909	B0819	B0909
0300 050 0600 080	3	4.5	8	50	2.85	6	●	●	●	●
0300 050 0600 100	3	4.5	10	50	2.85	6	●	●	●	●
0300 050 0600 120	3	4.5	12	50	2.85	6	●	●	●	●
0300 050 0400 140	3	4.5	14	50	2.85	4	●	●	●	●
0300 050 0600 140	3	4.5	14	50	2.85	6	●	●	●	●
0300 060 0600 160	3	4.5	16	60	2.85	6	●	●	●	●
0300 060 0600 180	3	4.5	18	60	2.85	6	●	●	●	●
0300 060 0600 200	3	4.5	20	60	2.85	6	●	●	●	●
0300 075 0400 250	3	4.5	25	75	2.85	4	●	●	●	●
0300 075 0600 250	3	4.5	25	75	2.85	6	●	●	●	●
0400 060 0600 100	4	4.5	10	60	3.85	6	●	●	●	●
0400 060 0600 150	4	4.5	15	60	3.85	6	●	●	●	●
0400 060 0600 200	4	4.5	20	60	3.85	6	●	●	●	●
0400 075 0600 250	4	4.5	25	75	3.85	6	●	●	●	●
0400 075 0600 300	4	4.5	30	75	3.85	6	●	●	●	●
0400 075 0600 400	4	4.5	40	75	3.85	6	●	●	●	●

Ø mm	Tol. µm
0.1 ~ 0.7	0 / -12
0.7 ~ 4.0	0 / -20

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

576

286

SPÉCIFICATIONS TECHNIQUES SUJETTES À CHANGEMENT SANS AVIS PRÉALABLE

# SE 60R MINIATURE TORUS ENDMILLS - with Long Neck

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

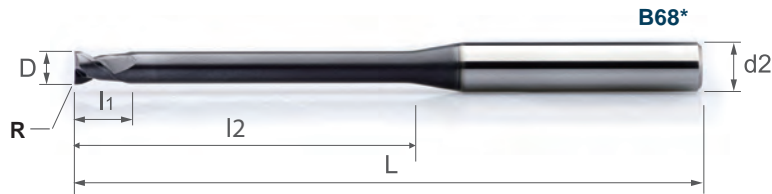
UK Solid Carbide SE 60R Miniature Torus Endmills with long neck, 2 flutes

FR Micro-fraises SE 60R 2 tailles toriques en carbure monobloc avec cou long, 2 dents

CN 整体硬质合金 SE 60R 系列 圆鼻长颈短刃 立铣刀 2 刃

DE VHM SE 60R Torus-Kleinstfräser mit langem Hals, 2 Zähne

IT Micro-frese torodali SE 60R in metallo duro integrale con collo lungo, 2 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP = *+Ødata	Dimension ( mm )							B68*	A80*
	D *	l1	l2	L	d1	R	d2 (h6)	B0819	B0909
0020 050 0400 005	0.2	0.3	0.5	50	0.16	0.02	4	●	●
0020 050 0400 010	0.2	0.3	1	50	0.16	0.02	4	●	●
0020 050 0400 015	0.2	0.3	1.5	50	0.16	0.02	4	●	●
0030 050 0400 010	0.3	0.4	1	50	0.26	0.03	4	●	●
0030 050 0400 020	0.3	0.4	2	50	0.26	0.03	4	●	●
0030 050 0400 030	0.3	0.4	3	50	0.26	0.03	4	●	●
0040 050 0400 020	0.4	0.6	2	50	0.37	0.03	4	●	●
0040 050 0400 030	0.4	0.6	3	50	0.37	0.03	4	●	●
0040 050 0400 040	0.4	0.6	4	50	0.37	0.03	4	●	●
0040 050 0400 050	0.4	0.6	5	50	0.37	0.03	4	●	●
0050 050 0400 020	0.5	0.7	2	50	0.45	0.05	4	●	●
0050 050 0400 040	0.5	0.7	4	50	0.45	0.05	4	●	●
0050 050 0400 060	0.5	0.7	6	50	0.45	0.05	4	●	●
0050 050 0400 080	0.5	0.7	8	50	0.45	0.05	4	●	●
0060 050 0400 020	0.6	0.9	2	50	0.55	0.05	4	●	●
0060 050 0400 040	0.6	0.9	4	50	0.55	0.05	4	●	●
0060 050 0400 060	0.6	0.9	6	50	0.55	0.05	4	●	●
0060 050 0400 080	0.6	0.9	8	50	0.55	0.05	4	●	●
0060 050 0400 100	0.6	0.9	10	50	0.55	0.05	4	●	●
0070 050 0400 020	0.7	1.0	2	50	0.65	0.08	4	●	●
0070 050 0400 040	0.7	1.0	4	50	0.65	0.08	4	●	●
0070 050 0400 060	0.7	1.0	6	50	0.65	0.08	4	●	●
0070 050 0400 080	0.7	1.0	8	50	0.65	0.08	4	●	●
0070 050 0400 100	0.7	1.0	10	50	0.65	0.08	4	●	●
0080 050 0400 040	0.8	1.2	4	50	0.75	0.08	4	●	●
0080 050 0400 060	0.8	1.2	6	50	0.75	0.08	4	●	●
0080 050 0400 080	0.8	1.2	8	50	0.75	0.08	4	●	●
0080 050 0400 100	0.8	1.2	10	50	0.75	0.08	4	●	●
0080 050 0400 120	0.8	1.2	12	50	0.75	0.08	4	●	●
0090 050 0400 060	0.9	1.4	6	50	0.85	0.08	4	●	●
0090 050 0400 080	0.9	1.4	8	50	0.85	0.08	4	●	●

cont'd ▶

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

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MODIFICHE TECNICHE POSSIBILI SENZA PREAVVISO



# SE 60R MINIATURE TORUS ENDMILLS - with Long Neck

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

UK Solid Carbide SE 60R Miniature Torus Endmills with long neck, 2 flutes

FR Micro-fraises SE 60R 2 tailles toriques en carbure monobloc avec cou long, 2 dents

CN 整体硬质合金 SE 60R 系列 圆鼻长颈短刃 立铣刀 2 刃

DE VHM SE 60R Torus-Kleinstfräser mit langem Hals, 2 Zähne

IT Micro-frese torodali SE 60R in metallo duro integrale con collo lungo, 2 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )							B68*		A80*	
	D *	l1	l2	L	d1	R	d2 (h6)	B0819	B0909	B0819	B0909
0090 050 0400 100	0.9	1.4	10	50	0.85	0.08	4	●	●		
0090 050 0400 150	0.9	1.4	15	50	0.85	0.08	4	●	●		
0100 050 0400 060	1.0	1.5	6	50	0.95	0.1	4	●	●		
0100 050 0400 080	1.0	1.5	8	50	0.95	0.1	4	●	●		
0100 050 0400 100	1.0	1.5	10	50	0.95	0.1	4	●	●		
0100 050 0400 120	1.0	1.5	12	50	0.95	0.1	4	●	●		
0100 050 0400 140	1.0	1.5	14	50	0.95	0.1	4	●	●		
0100 050 0400 160	1.0	1.5	16	50	0.95	0.1	4	●	●		
0120 050 0400 060	1.2	1.8	6	50	1.15	0.1	4	●	●		
0120 050 0400 080	1.2	1.8	8	50	1.15	0.1	4	●	●		
0120 050 0400 100	1.2	1.8	10	50	1.15	0.1	4	●	●		
0120 050 0400 120	1.2	1.8	12	50	1.15	0.1	4	●	●		
0140 050 0400 060	1.4	2.1	6	50	1.35	0.15	4	●	●		
0140 050 0400 080	1.4	2.1	8	50	1.35	0.15	4	●	●		
0140 050 0400 100	1.4	2.1	10	50	1.35	0.15	4	●	●		
0140 050 0400 120	1.4	2.1	12	50	1.35	0.15	4	●	●		
0140 050 0400 140	1.4	2.1	14	50	1.35	0.15	4	●	●		
0140 050 0400 160	1.4	2.1	16	50	1.35	0.15	4	●	●		
0150 050 0400 060	1.5	2.3	6	50	1.45	0.15	4	●	●		
0150 050 0400 080	1.5	2.3	8	50	1.45	0.15	4	●	●		
0150 050 0400 100	1.5	2.3	10	50	1.45	0.15	4	●	●		
0150 050 0400 120	1.5	2.3	12	50	1.45	0.15	4	●	●		
0150 050 0400 140	1.5	2.3	14	50	1.45	0.15	4	●	●		
0150 050 0400 160	1.5	2.3	16	50	1.45	0.15	4	●	●		
0150 060 0400 180	1.5	2.3	18	60	1.45	0.15	4	●	●		
0150 060 0400 200	1.5	2.3	20	60	1.45	0.15	4	●	●		
0160 050 0400 060	1.6	2.4	6	50	1.55	0.15	4	●	●		
0160 050 0400 080	1.6	2.4	8	50	1.55	0.15	4	●	●		
0160 050 0400 100	1.6	2.4	10	50	1.55	0.15	4	●	●		
0160 050 0400 120	1.6	2.4	12	50	1.55	0.15	4	●	●		
0160 050 0400 140	1.6	2.4	14	50	1.55	0.15	4	●	●		

cont'd ▶

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

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若有技术规格变更, 恕不事先通知

# SE 60R MINIATURE TORUS ENDMILLS - with Long Neck

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

United Kingdom Solid Carbide SE 60R Miniature Torus Endmills with long neck, 2 flutes

France Micro-fraises SE 60R 2 tailles toriques en carbure monobloc avec cou long, 2 dents

China 整体硬质合金 SE 60R 系列 圆鼻长颈短刃 立铣刀 2 刃

Germany VHM SE 60R Torus-Kleinstfräser mit langem Hals, 2 Zähne

Italy Micro-frese torodali SE 60R in metallo duro integrale con collo lungo, 2 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP =*+Ødata	Dimension ( mm )							B68*		A80*	
	D *	l1	l2	L	d1	R	d2 (h6)	B0819	B0909		
0160 050 0400 160	1.6	2.4	16	50	1.55	0.15	4	●	●		
0160 060 0400 180	1.6	2.4	18	60	1.55	0.15	4	●	●		
0160 060 0400 200	1.6	2.4	20	60	1.55	0.15	4	●	●		
0180 050 0400 060	1.8	2.7	6	50	1.75	0.2	4	●	●		
0180 050 0400 080	1.8	2.7	8	50	1.75	0.2	4	●	●		
0180 050 0400 100	1.8	2.7	10	50	1.75	0.2	4	●	●		
0180 050 0400 120	1.8	2.7	12	50	1.75	0.2	4	●	●		
0180 050 0400 140	1.8	2.7	14	50	1.75	0.2	4	●	●		
0180 050 0400 160	1.8	2.7	16	50	1.75	0.2	4	●	●		
0180 060 0400 180	1.8	2.7	18	60	1.75	0.2	4	●	●		
0180 060 0400 200	1.8	2.7	20	60	1.75	0.2	4	●	●		
0200 050 0400 060	2	3	6	50	1.95	0.2	4	●	●		
0200 050 0400 080	2	3	8	50	1.95	0.2	4	●	●		
0200 050 0400 100	2	3	10	50	1.95	0.2	4	●	●		
0200 050 0400 120	2	3	12	50	1.95	0.2	4	●	●		
0200 050 0400 140	2	3	14	50	1.95	0.2	4	●	●		
0200 050 0400 160	2	3	16	50	1.95	0.2	4	●	●		
0200 060 0400 180	2	3	18	60	1.95	0.2	4	●	●		
0200 060 0400 200	2	3	20	60	1.95	0.2	4	●	●		
0200 075 0400 250	2	3	25	75	1.95	0.2	4	●	●		
0200 075 0400 300	2	3	30	75	1.95	0.2	4	●	●		
0250 050 0400 080	2.5	3.7	8	50	2.4	0.3	4	●	●		
0250 050 0400 100	2.5	3.7	10	50	2.4	0.3	4	●	●		
0250 050 0400 120	2.5	3.7	12	50	2.4	0.3	4	●	●		
0250 050 0400 140	2.5	3.7	14	50	2.4	0.3	4	●	●		
0250 050 0400 160	2.5	3.7	16	50	2.4	0.3	4	●	●		
0250 060 0400 180	2.5	3.7	18	60	2.4	0.3	4	●	●		
0250 060 0400 200	2.5	3.7	20	60	2.4	0.3	4	●	●		
0250 075 0400 250	2.5	3.7	25	75	2.4	0.3	4	●	●		
0250 075 0400 300	2.5	3.7	30	75	2.4	0.3	4	●	●		
0300 050 0600 080	3	4.5	8	50	2.85	0.3	6	●	●		

cont'd ▶

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

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TECHNICAL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

# SE 60R MINIATURE TORUS ENDMILLS - with Long Neck

≤ 1.600 N/mm<sup>2</sup> + B0819 / B0909 ≤ 53 - 68 HRC

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FR Micro-fraises SE 60R 2 tailles toriques en carbure monobloc avec cou long, 2 dents

CN 整体硬质合金 SE 60R 系列 圆鼻长颈短刃 立铣刀 2 刃

DE VHM SE 60R Torus-Kleinstfräser mit langem Hals, 2 Zähne

IT Micro-frese torodali SE 60R in metallo duro integrale con collo lungo, 2 taglienti



EDPNo./EDV-Nr./ CODEusine/CodiceEDP = *+Ødata	Dimension ( mm )							B68*		A80*	
	D *	l1	l2	L	d1	R	d2 (h6)	B0819	B0909		
0300 050 0600 100	3	4.5	10	50	2.85	0.3	6	●	●		
0300 050 0600 120	3	4.5	12	50	2.85	0.3	6	●	●		
0300 050 0600 140	3	4.5	14	50	2.85	0.3	6	●	●		
0300 060 0600 160	3	4.5	16	60	2.85	0.3	6	●	●		
0300 060 0600 180	3	4.5	18	60	2.85	0.3	6	●	●		
0300 060 0600 200	3	4.5	20	60	2.85	0.3	6	●	●		
0300 075 0600 250	3	4.5	25	75	2.85	0.3	6	●	●		
0400 060 0600 100	4	4.5	10	60	3.85	0.4	6	●	●		
0400 060 0600 150	4	4.5	15	60	3.85	0.4	6	●	●		
0400 060 0600 200	4	4.5	20	60	3.85	0.4	6	●	●		
0400 075 0600 250	4	4.5	25	75	3.85	0.4	6	●	●		
0400 075 0600 300	4	4.5	30	75	3.85	0.4	6	●	●		
0400 075 0600 400	4	4.5	40	75	3.85	0.4	6	●	●		

Ø mm	Tol. µm
0.1 ~ 0.7	0 / -12
0.7 ~ 4.0	0 / -20

Material group - Material-Gruppe - Groupe matière - Gruppo materiali - 材质主类

M02	M03	M04	M05	M06	M07	M08	M09	M10	M11	M12	M13	M14	M15	M18	M22	M25	M31	M16	M20	M17	M19	M21	M23	M24	M32
M26	M27	M28	M33	M01	M29	M30																			

Working Material | Cutting Parameter

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