THE NEW VALUE FRONTIER

KYOCERA

DYNAMIC-BAR

Streamlined Head for

- Improved chip evacuation
- Reduced chattering
- Stable machining

Stromlinienförmiger Spankanal für

- Verbesserte Spanabfuhr.
- Verringerte Vibrationsneigung.
- Stabile Bearbeitung.

Tête aérodynamique pour

- Meilleure évacuation de copeaux.
- Réduction du broutage.
- Haute rigidité.

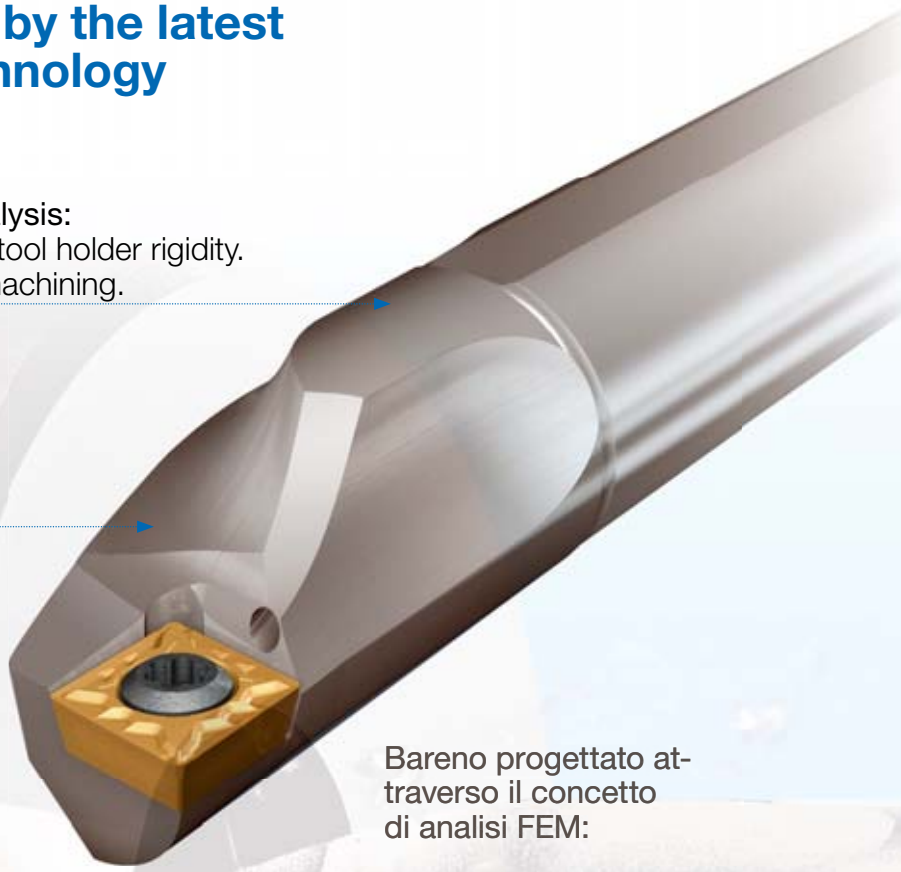
Testa aerodinamica per ottenere

- Evacuazione del truciolo.
- Riduzioni delle vibrazioni.
- Stabilità in lavorazione.

Streamlined Head driven by the latest computer simulation technology

Tool holder design through stress analysis:
Maximum structural thickness for high tool holder rigidity.
Controls chattering to achieve stable machining.

Large chip pocket:
Exhibits superior chip evacuation.



Gestaltung der Spankammer mit computergestützter Simulationstechnologie:

Durch Belastungsanalysen optimierte Bohrstange, ermöglicht eine größtmögliche Stabilität der Bohrstange und reduziert die Vibrationsneigung bei gleichbleibender stabiler Bearbeitung.

Große Spankammer ermöglicht hervorragende Spanabfuhr.

Concept du logement développé par CAO:

Rigidité accrue par un renforcement maximal de la structure de l'outil. Moins de vibrations pour un usinage stable.

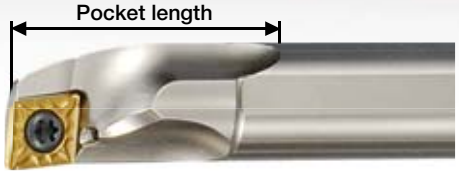
Large poche pour une meilleure évacuation des copeaux.

Bareno progettato attraverso il concetto di analisi FEM:

Massimo spessore strutturale per ottenere un'alta rigidità ed una riduzione delle vibrazioni con conseguente stabilità di lavorazione.

Largo canale di evacuazione truciolo per un miglior controllo dello stesso.

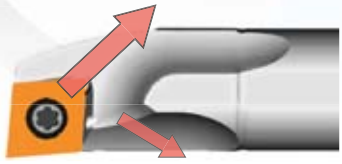
■ Comparison of pocket length
Vergleich Spankammerlänge
Comparaison de poche copeaux
Confronto della lunghezza del canale di evacuazione



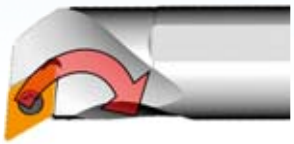
Description Bezeichnung Désignation Descrizione	Pocket length Spankammer Poche Copeaux Lunghezza del canale di evacuazione	
	Dynamic-Bar	Competitor A
A16-SCLPR09-18 Type	37	29
A20-SCLCR09-22 Type	48	32

■ Chip evacuation direction
Spanabfuhr Richtung
Direction du flux des copeaux
Direzione evacuazione truciolo

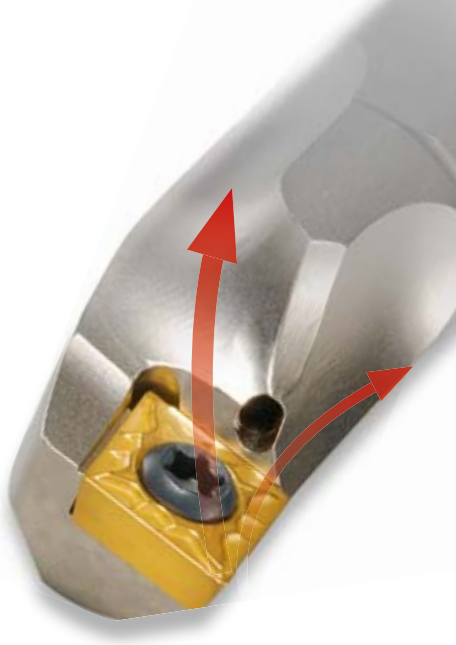
C•T•W-type insert



D•V-type insert



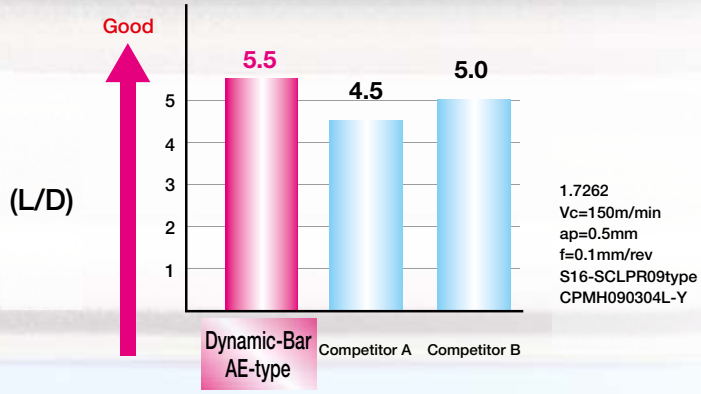
■ Superior chip evacuation (External coolant)
Ausgezeichnete Spanabfuhr (Außenkühlung)
Meilleure évacuation des copeaux (Arrosage exter)
Evacuazione truciolo superiore (Refrigerante esterno)



	Dynamic-Bar	Competitor A	Competitor B
Inside the workpiece Innenansicht Werkstück Vue interne de la pièce Particolare da lavorare			

In the products of competitors A and B chips remain inside the workpiece, but chips from the Dynamic-Bar are all evacuated from the workpiece.
Im Gegensatz zum Wettbewerb verbleiben beim Einsatz der Dynamic-Bar keine Späne im Werkstück. Geringe Ratterneigung bei der Dynamic-Bar.
Pour les concurrents A et B les copeaux sont refoulés dans l'alésage, alors qu'avec la Dynamic-Bar, les copeaux sont tous évacués vers l'extérieur de la pièce.
Nei bareni dei concorrenti A e B , il truciolo rimane dentro al pezzo in lavorazione , ma con l'uso della Dynamic-Bar è evacuato completamente.

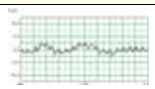
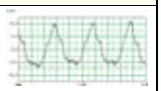
■ Anti chatter vibration performance | Vergleich Vibrationsneigung
Broutage et vibrations reduits | Prestazione di Anti vibrazione



1.7262
Vc=150m/min
ap=0.5mm
f=0.1mm/rev
S16-SCLPR09type
CPMH090304L-Y

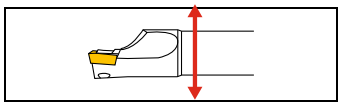
Minimum of chattering by the Dynamic-Bar
Geringste Neigung zur Vibration mit Dynamic-Bar
Moins de vibrations avec la Dynamic-Bar
Le vibrazioni di Dynamic-Bar sono minime

■ Comparison of surface finish | Vergleich der Oberflächen
Comparatif d'état de surface | Confronto finitura superficiale

	Dynamic-Bar	Competitor A	Competitor B
Surface roughness Oberflächen Rauhigkeiten Etat de surface Rugosità superficiale	 Ra=0.4µm Rz=2.3µm	 Ra=0.6µm Rz=3.6µm	 Ra=3.4µm Rz=14.0µm
Oscillatory waveform Schwingungsverlauf Ondulation Movimento oscillatorio dell'onda			

1.7262
Vc=210m/min
ap=0.5mm
f=0.1mm/rev
A16Q-SCLPR09-18type
CPMT090304XP(PV7020)
L/D=4
External coolant

Direction of vibration measurement
Richtung der Vibrationsmessung
Mesure des vibrations
Direzione della misura di vibrazione



Vibration of the Dynamic-Bar was minimal even at high cutting speeds, enabling stable machining.

Auch bei höheren Schnittgeschwindigkeiten war die Vibrationsneigung sehr gering und ermöglichte eine Stabile Bearbeitung.

Vibration minimale avec la Dynamic-Bar même à vitesse élevée, d'où un usinage stable.

Le vibrazioni della Dynamic-bar sono minime anche ad alte velocità di taglio permettendo stabilità in lavorazione.

Indexability
Indexierbarkeit
Indexabilité
Indexabile

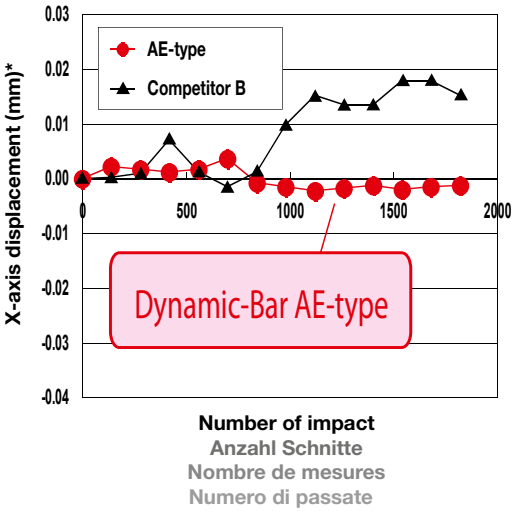
In particular, the AE type Dynamic-Bar maintains high cutting edge positional accuracy through the use of a special alloy, thereby achieving high precision machining.

Speziell die Dynamic-Bar AE Ausführung erreicht eine hohe Lagegenauigkeit und ermöglicht hochpräzise Bearbeitungen.

La Dynamic-Bar type AE confère une très grande précision de positionnement et une grande rigidité, en particulier lors d'usinage d'aciers alliés.

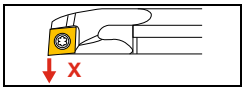
In particolare, la AE Dynamic-Bar ha un'ottima ripetibilità di riposizionamento dell'inserto nella propria sede dovuta ad un'adeguata scelta del materiale costruttivo costituito da una lega speciale. Il tutto consente lavorazioni davvero precise.

* X-Achse Auslenkung | Axe X flexion | Scostamento asse X

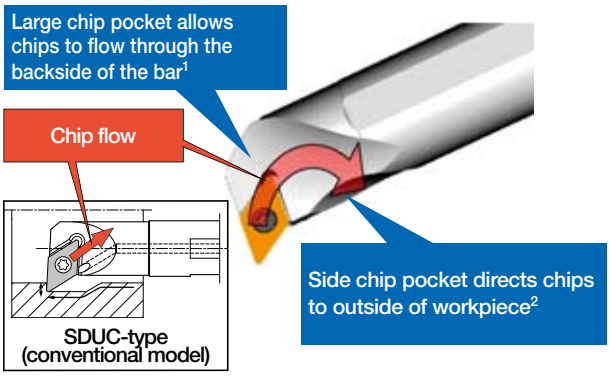


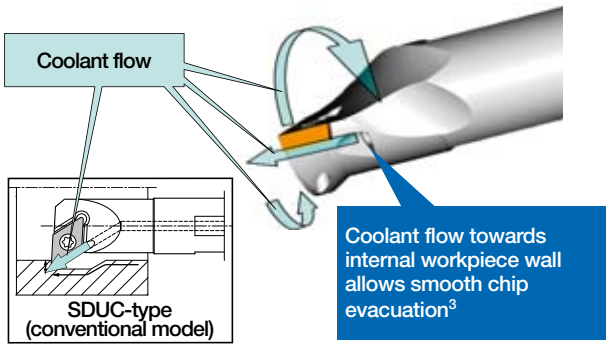
1.7220
Vc=180m/min, ap=2mm
f=0.2mm/rev
S/A16Q-SCLPR09-18type
CPMH090308(CA5525)
L/D=4
External coolant

Direction of vibration measurement
Richtung der Vibrationsmessung
Mesure des vibrations
Direzione della misura di vibrazione



Advantages of Dynamic-Bar (D and V type insert)
Vorteile der Dynamic-Bar (D und V WSP Typ)
Avantages de la Dynamic-Bar (D et V type plaquette)
Vantaggi della Dynamic-Bar (D e V tipo inserto)





[1] Große Spankammer ermöglicht Spanabfuhr über die Rückseite der Bohrstange.

[2] Seitliche Spankammer leitet den Span aus der Bohrung.

[3] Gleichmäßgie Spanabfuhr bei Zuführung der Kühlflüssigkeit zur Innenwand des Werkstücks.

[1] La poche copeaux sur dimensionnée entraîne les copeaux vers l'arrière de l outil.

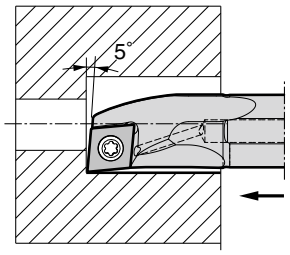
[2] La poche latérale dirige les copeaux hors de la piece.

[3] L'orientation du jet vers l'intérieur de la pièce permet une excellente évacuation des copeaux.

[1] Una larga tasca per lo smaltimento del truciolo consente l'evacuazione dalla parte posteriore del bareno.

[2] Le tasche laterali dirigono il truciolo fuori dal pezzo in lavorazione.

[3] Il foro della lubrificazione interna è inclinato nella direzione del pezzo in lavoro.



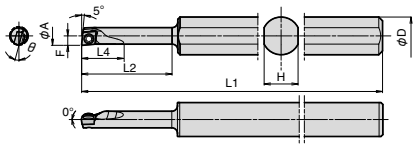


Fig.1

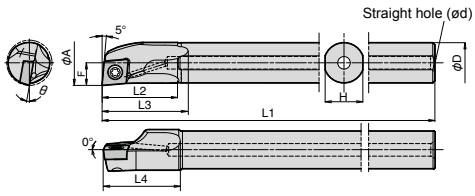


Fig.2

Bar type	L/D
Carbide	~7
Excellent	~5.5
Steel	~4

● Right-hand shown with coolant hole

L-hand Insert for R-hand Toolholder, R-hand Insert for L-hand Toolholder.

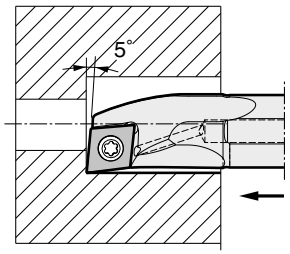
Toolholder Dimensions

	Description	Stock R	Stock L	Min. Bore Dia. øA	Dimension (mm) øD	H	L1	L2	L3	L4	F	θ	Standard Corner-R (rε)	Coolant Hole	Drawing	Spare Parts: Clamp Screw	Spare Parts: Wrench
Excellent Bar	S10H-SCLC$^{R/L}$03-05AE	●	●	5	10	9	100	24	-	11	2.5	15°	0.2	No	Fig.1	SB-1635TR	FT-6
	S10H-SCLC$^{R/L}$03-06AE	●	●	6				28		13	3	13°					
	S10H-SCLC$^{R/L}$04-07AE	●	●	7				32		15	3.5					SB-2035TR	
	S10H-SCLC$^{R/L}$04-08AE	●	●	8				37		15	4	11°					
	A08X-SCLC$^{R/L}$06-10AE	●	●	10	8	7	120	16	20	17	5	14°	0.4	Yes	Fig.2	SB-2545TR	FT-8
	A10L-SCLC$^{R/L}$06-12AE	●	●	12	10	9	140	20	25	21	6	12°					
	A12M-SCLC$^{R/L}$06-14AE	●	●	14	12	11	150	24	30	25	7	10°					
	A16Q-SCLC$^{R/L}$09-18AE	●	●	18	16	15	180	30	34	31	9					SB-4065TR	FT-15
	A20R-SCLC$^{R/L}$09-22AE	●	●	22	20	19	200	36	49	37	11	8°					
	A25S-SCLC$^{R/L}$09-27AE	●	●	27	25	24	250	46	55	46	13.5	6°					
Steel	S08X-SCLC$^{R/L}$06-10A	●	●	10	8	7	120	16	20	17	5	14°	0.4	No	Fig.2	SB-2545TR	FT-6
	S10L-SCLC$^{R/L}$06-12A	●	●	12	10	9	140	20	25	21	6	12°					
	S12M-SCLC$^{R/L}$06-14A	●	●	14	12	11	150	24	30	25	7	10°					
	S16Q-SCLC$^{R/L}$09-18A	●	●	18	16	15	180	30	34	31	9	10°				SB-4065TR	FT-15
	S20R-SCLC$^{R/L}$09-22A	●	●	22	20	19	200	36	49	37	11	8°					
	S25S-SCLC$^{R/L}$09-27A	●	●	27	25	24	250	46	55	46	13.5	6°					
Carbide	C04G-SCLC$^{R/L}$03-05A	●	●	5	4	3.8	90	9	-	8	2.5	15°	0.2	No	Fig.2	SB-1635TR	FT-6
	C05H-SCLC$^{R/L}$03-06A	●	●	6	5	4.4	100	11		11	3	13°					
	C06J-SCLC$^{R/L}$04-07A	●	●	7	6	5.4	110	12		12	3.5	13°				SB-2035TR	
	C07K-SCLC$^{R/L}$04-08A	●	●	8	7	6.4	125	13		13	4	11°					
	E08L-SCLC$^{R/L}$06-10A	●	●	10	8	7	140	16	15	15	5	14°	0.4	Yes	Fig.2	SB2545TR	FT-8
	E08L-SCLC$^{R/L}$06-10A-2 / 3	●					90										
	E10N-SCLC$^{R/L}$06-12A	●	●	12	10	9	160	20	19	19	6	12°					
	E10N-SCLC$^{R/L}$06-12A-2 / 3	●					105										
	E12Q-SCLC$^{R/L}$06-14A	●	●	14	12	11	180	23	22	22	7	10°					
	E12Q-SCLC$^{R/L}$06-14A-2 / 3	●					120										
	E16X-SCLC$^{R/L}$09-18A	●	●	18	16	15	220	28	27	27	9	10°				SB-4065TR	FT-15
	E16X-SCLC$^{R/L}$09-18A-2 / 3	●					145										
	E20S-SCLC$^{R/L}$09-22A	●	●	22	20	19	250	32	31	31	11	8°					
	E20S-SCLC$^{R/L}$09-22A-2 / 3	●					165										
	E25T-SCLC$^{R/L}$09-27A	●	●	27	25	24	300	38	37	37	13.5	6°					
	E25T-SCLC$^{R/L}$09-27A-2 / 3	●					200										

Applicable Inserts

Toolholder	Applicable Inserts
····-SCLC$^{R/L}$03-····	CC○○0301
····-SCLC$^{R/L}$04-····	CC○○0401
····-SCLC$^{R/L}$06-····	CC○○0602
····-SCLC$^{R/L}$09-····	CC○○09T3

SCLP — Screw Clamp



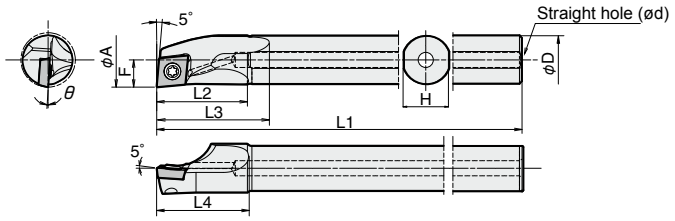


Fig.1

Bar type	L/D
Carbide	~7
Excellent	~5.5
Steel	~4

● Right-hand Shown with coolant hole

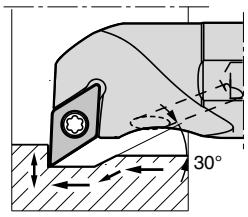
L-hand Insert for R-hand Toolholder, R-hand Insert for L-hand Toolholder.

Toolholder Dimensions

	Description	Stock R	Stock L	Min. Bore Dia. øA	Dimension (mm) øD	H	L1	L2	L3	L4	F	θ	Standard Corner-R (rε)	Coolant Hole	Drawing	Spare Parts: Clamp Screw	Spare Parts: Wrench
Excellent Bar	**A10L-SCLP$^{R}_{L}$08-12AE**	●	●	12	10	9	140	20	25	20	6	5°	0.4	Yes	Fig.1	SB-3060TR	FT-10
	A12M-SCLP$^{R}_{L}$08-14AE	●	●	14	12	11	150	24	29	24	7	4°					
	A12M-SCLP$^{R}_{L}$09-16AE	●	●	16					31	24	8					SB-4065TR	FT-15
	A16Q-SCLP$^{R}_{L}$09-18AE	●	●	18	16	15	180	30	37	30	9	3.5°					
	A20R-SCLP$^{R}_{L}$09-22AE	●	●	22	20	19	200	36	47	37	11	2°					
	A25S-SCLP$^{R}_{L}$09-27AE	●	●	27	25	24	250	46	55	46	13.5	0°					
Steel	**S10L-SCLP$^{R}_{L}$08-12A**	●	●	12	10	9	140	20	25	20	6	5°	0.4	No	Fig.1	SB-3060TR	FT-10
	S12M-SCLP$^{R}_{L}$08-14A	●	●	14	12	11	150	24	29	24	7	4°					
	S12M-SCLP$^{R}_{L}$09-16A	●	●	16					31	24	8					SB-4065TR	FT-15
	S16Q-SCLP$^{R}_{L}$09-18A	●	●	18	16	15	180	30	37	30	9	3.5°					
	S20R-SCLP$^{R}_{L}$09-22A	●	●	22	20	19	200	36	47	37	11	2°					
	S25S-SCLP$^{R}_{L}$09-27A	●	●	27	25	24	250	46	55	46	13.5	0°					
Carbide	**E10N-SCLP$^{R}_{L}$08-12A**	●	●	12	10	9	160	20	19	19	6	5°	0.4	Yes	Fig.1	SB-3060TR	FT-10
	E10N-SCLP$^{R}_{L}$08-12A-2 / 3	●					105										
	E10N-SCLP$^{R}_{L}$08-12A-1 / 2	●					80										
	E12Q-SCLP$^{R}_{L}$08-14A	●	●	14	12	11	180	23	22	22	7	4°					
	E12Q-SCLP$^{R}_{L}$08-14A-2 / 3	●					120										
	E12Q-SCLP$^{R}_{L}$08-14A-1 / 2	●					90										
	E16X-SCLP$^{R}_{L}$09-18A	●	●	18	16	15	220	28	27	27	9	3.5°				SB-4065TR	FT-15
	E16X-SCLP$^{R}_{L}$09-18A-2 / 3	●					145										
	E16X-SCLP$^{R}_{L}$09-18A-1 / 2	●					110										
	E20S-SCLP$^{R}_{L}$09-22A	●	●	22	20	19	250	32	31	31	11	2°					
	E20S-SCLP$^{R}_{L}$09-22A-2 / 3	●					165										
	E20S-SCLP$^{R}_{L}$09-22A-1 / 2	●					125										
	E25T-SCLP$^{R}_{L}$09-27A	●	●	27	25	24	300	38	37	37	13.5	0°					
	E25T-SCLP$^{R}_{L}$09-27A-2 / 3	●					200										

Applicable Inserts

Toolholder	Applicable Inserts
····**SCLP$^{R}_{L}$08**····	CP◯◯ 0802
····**SCLP$^{R}_{L}$09**····	CP◯◯ 0903



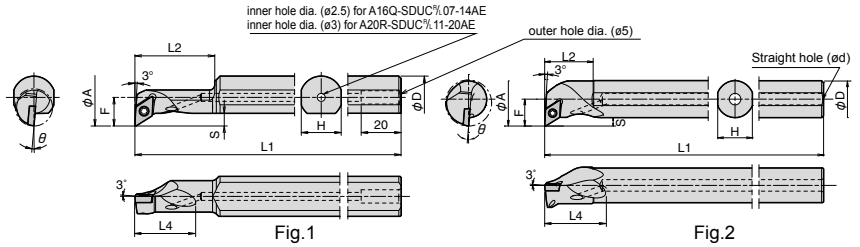


Fig.1 Fig.2

Bar type	L/D
Carbide	~7
Excellent	~5.5
Steel	~4

● Right-hand shown with coolant hole

L-hand Insert for R-hand Toolholder, R-hand Insert for L-hand Toolholder.

Toolholder Dimensions

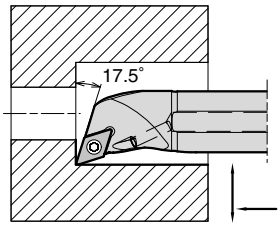
	Description	Stock R	Stock L	Min. Bore Dia. øA	Dimension (mm) øD	H	L1	L2	L3	L4	F	S	θ	Standard Corner-R (rε)	Coolant Hole	Drawing	Spare Parts: Clamp Screw	Spare Parts: Wrench
Excellent Bar	A16Q-SDUC□07-14AE	●	●	14	16	15	180	28	-	23	10.8	4.4	5°	0.4	Yes	Fig.1	SB-2560TR	FT-8
	A20R-SDUC□11-20AE	●	●	20	20	19	200	48	-	30	15.6	6.1					SB-4065TR	FT-15
	A10L-SDUC□07-14AE	●	●	14	10	9	140	19	-	20	8.7	3.3	5°	0.4		Fig.2	SB-2560TR	FT-8
	A12M-SDUC□07-16AE	●	●	16	12	11	150	21	-	24	9.7							
	A16Q-SDUC□07-20AE	●	●	20	16	15	180		-	26	11.7							
	A16Q-SDUC□11-23AE	●	●	23					-	31	14.5	6.1					SB-4065TR	FT-15
	A20R-SDUC□11-27AE	●	●	27	20	19	200	23	-	36	16.5							
	A25S-SDUC□11-32AE	●	●	32	25	24	250	24	-	39	19							
Steel	S16Q-SDUC□07-14A	●	●	14	16	15	180	28	-	23	10.8	4.4	5°	0.4	No	Fig.1	SB-2560TR	FT-8
	S20R-SDUC□11-20A	●	●	20	20	19	200	48	-	30	15.6	6.1					SB-4065TR	FT-15
	S10L-SDUC□07-14A	●	●	14	10	9	140	19	-	20	8.7	3.3	5°	0.4		Fig.2	SB-2560TR	FT-8
	S12M-SDUC□07-16A	●	●	16	12	11	150	21	-	24	9.7							
	S16Q-SDUC□07-20A	●	●	20	16	15	180		-	26	11.7							
	S16Q-SDUC□11-23A	●	●	23					-	31	14.5	6.1					SB-4065TR	FT-15
	S20R-SDUC□11-27A	●	●	27	20	19	200	23	-	36	16.5							
	S25S-SDUC□11-32A	●	●	32	25	24	250	24	-	39	19							
Carbide	E10N-SDUC□07-14A	●	●	14	10	9	160	20	-	19	8.7	3.3	5°	0.4	Yes	Fig.2	SB-2560TR	FT-8
	E10N-SDUC□07-14A-2 / 3	●					105											
	E12Q-SDUC□07-16A	●	●	16	12	11	180	23	-	22	9.7							
	E12Q-SDUC□07-16A-2 / 3	●					120											
	E16X-SDUC□07-20A	●	●	20	16	15	220	28	-	26	11.7							
	E16X-SDUC□07-20A-2 / 3	●					145											
	E16X-SDUC□11-23A	●	●	23			220		-	27	14.5	6.1					SB-4065TR	FT-15
	E16X-SDUC□11-23A-2 / 3	●					145											
	E20S-SDUC□11-27A	●	●	27	20	19	250	32	-	31	16.5							
	E20S-SDUC□11-27A-2 / 3	●					165											
	E25T-SDUC□11-32A	●	●	32	25	24	300	38	-	37	19							
	E25T-SDUC□11-32A-2 / 3	●					200											

Applicable Inserts

Toolholder	Applicable Inserts
····SDUC□07-····	DC◯◯ 0702
····SDUC□11-····	DC◯◯ 11T3

SDQC

Screw Clamp



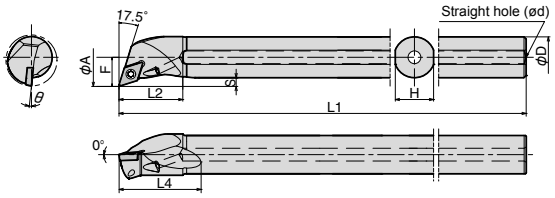


Fig.1

Bar type	L/D
Carbide	~7
Excellent	~5.5
Steel	~4

● Right-hand shown with coolant hole

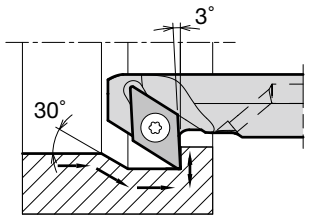
L-hand Insert for R-hand Toolholder, R-hand Insert for L-hand Toolholder.

Toolholder Dimensions

	Description	Stock R	Stock L	Min. Bore Dia. øA	Dimension (mm) øD	H	L1	L2	L3	L4	F	S	θ	Standard Corner-R (rε)	Coolant Hole	Drawing	Spare Parts: Clamp Screw	Spare Parts: Wrench
Excellent Bar	**A10L -SDQC$^{R}_{L}$07-13AE**	●	●	13	10	9	140	19		21	7.5	2.1	10°					
	A12M-SDQC$^{R}_{L}$07-16AE	●	●	16	12	11	150	22		25	9.25	2.6	8°				SB-2560TR	FT-8
	A16Q-SDQC$^{R}_{L}$07-20AE	●	●	20	16	15	180	25	-	32	11.3	2.6	6°	0.4	Yes	Fig.1		
	A20R-SDQC$^{R}_{L}$11-25AE	●	●	25	20	19	200	31		37	14.4	3.7	5°				SB-4065TR	FT-15
	A25S-SDQC$^{R}_{L}$11-30AE	●	●	30	25	24	250	38		45	16.9	3.7	4°					
Steel	**S10L-SDQC$^{R}_{L}$07-13A**	●	●	13	10	9	140	19		21	7.5	2.1	10°					
	S12M-SDQC$^{R}_{L}$07-16A	●	●	16	12	11	150	22		25	9.25	2.6	8°				SB-2560TR	FT-8
	S16Q-SDQC$^{R}_{L}$07-20A	●	●	20	16	15	180	25	-	32	11.3	2.6	6°	0.4	No	Fig.1		
	S20R-SDQC$^{R}_{L}$11-25A	●	●	25	20	19	200	31		37	14.4	3.7	5°				SB-4065TR	FT-15
	S25S-SDQC$^{R}_{L}$11-30A	●	●	30	25	24	250	38		45	16.9	3.7	4°					
Carbide	**E10N-SDQC$^{R}_{L}$07-13A**	●	●	13	10	9	160	20	-	19	7.5	2.1	10°					
	E10N-SDQC$^{R}_{L}$07-13A-2 / 3	●					105											
	E12Q-SDQC$^{R}_{L}$07-16A	●	●	16	12	11	180	23	-	22	9.25	2.6	8°				SB-2560TR	FT-8
	E12Q-SDQC$^{R}_{L}$07-16A-2 / 3	●					120											
	E16X-SDQC$^{R}_{L}$07-20A	●	●	20	16	15	220	28	-	27	11.3	2.6	6°	0.4	Yes	Fig.1		
	E16X-SDQC$^{R}_{L}$07-20A-2 / 3	●					145											
	E20S-SDQC$^{R}_{L}$11-25A	●	●	25	20	19	250	32	-	31	14.4	3.7	5°				SB-4065TR	FT-15
	E20S-SDQC$^{R}_{L}$11-25A-2 / 3	●					165											
	E25T-SDQC$^{R}_{L}$11-30A	●	●	30	25	24	300	38	-	37	16.9	3.7	4°					
	E25T-SDQC$^{R}_{L}$11-30A-2 / 3	●					200											

Applicable Inserts

Toolholder	Applicable Inserts
····-**SDQC$^{R}_{L}$07-**····	DC◯◯ 0702
····-**SDQC$^{R}_{L}$11-**····	DC◯◯ 11T3



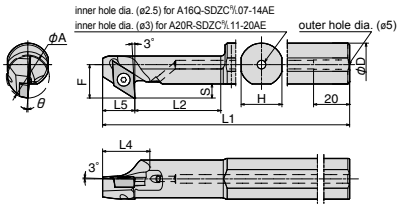


Fig.1

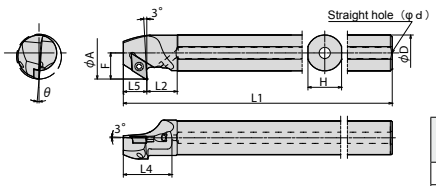


Fig.2

Bar type	L/D
Carbide	~7
Excellent	~5.5
Steel	~4

● Right-hand shown with coolant hole

R-hand Insert for R-hand Toolholder, L-hand Insert for L-hand Toolholder.

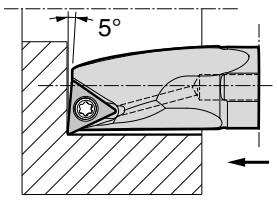
Toolholder Dimensions

	Description	Stock R	Stock L	Min. Bore Dia. øA	Dimension (mm) øD	H	L1	L2	L4	L5	F	S	θ	Standard Corner-R (rε)	Coolant Hole	Drawing	Spare Parts: Clamp Screw	Spare Parts: Wrench
Excellent Bar	**A16Q-SDZCR/L07-14AE**	●	●	14	16	15	180	30	17	10	10.8	4.4	5°	0.4	Yes	Fig.1	SB-2545TR	FT-8
	A20R-SDZCR/L11-20AE	●	●	20	20	19	200	40	24	15	15.6	6.1					SB-4065TR	FT-15
	A10L-SDZCR/L07-14AE	●	●	14	10	9	140	14	16	9.5	8.7	3.3	5°	0.4		Fig.2	SB-2545TR	FT-8
	A12M-SDZCR/L07-16AE	●	●	16	12	11	150	14	20	10.5	9.7	3.3					SB-2560TR	
	A16Q-SDZCR/L07-20AE	●	●	20	16	15	180	14	22	10.5	11.7	3.3						
	A16Q-SDZCR/L11-23AE	●	●	23	16	15	180	15	22	15	14.5	6.1					SB-4065TR	FT-15
	A20R-SDZCR/L11-27AE	●	●	27	20	19	200	15	25	15	16.5	6.1						
	A25S-SDZCR/L11-32AE	●	●	32	25	24	250	15	26	15	19	6.1						
Steel	**S16Q-SDZCR/L07-14A**	●	●	14	16	15	180	30	17	10	10.8	4.4	5°	0.4	No	Fig.1	SB-2545TR	FT-8
	S20R-SDZCR/L11-20A	●	●	20	20	19	200	40	24	15	15.6	6.1					SB-4065TR	FT-15
	S10L-SDZCR/L07-14A	●	●	14	10	9	140	14	16	9.5	8.7	3.3	5°	0.4		Fig.2	SB-2545TR	FT-8
	S12M-SDZCR/L07-16A	●	●	16	12	11	150	14	20	10.5	9.7	3.3					SB-2560TR	
	S16Q-SDZCR/L07-20A	●	●	20	16	15	180	14	22	10.5	11.7	3.3						
	S16Q-SDZCR/L11-23A	●	●	23	16	15	180	15	22	15	14.5	6.1					SB-4065TR	FT-15
	S20R-SDZCR/L11-27A	●	●	27	20	19	200	15	25	15	16.5	6.1						
	S25S-SDZCR/L11-32A	●	●	32	25	24	250	15	26	15	19	6.1						
Carbide	**E10N-SDZCR/L07-14A**	●		14	10	9	160	10.5	16	9.5	8.7	3.3	5°	0.4	Yes	Fig.2	SB-2545TR	FT-8
	E12Q-SDZCR/L07-16A	●		16	12	11	180	12.5	20	10.5	9.7	3.3					SB-2560TR	
	E16X-SDZCR/L07-20A	●		20	16	15	220	17.5	22	10.5	11.7	3.3						
	E16X-SDZCR/L11-23A	●		23	16	15	220	17	22	15	14.5	6.1					SB-4065TR	FT-15
	E20S-SDZCR/L11-27A	●		27	20	19	250	23	25	15	16.5	6.1						

Applicable Inserts

Toolholder	Applicable Inserts
····-SDZCR/L07-····	DC◯◯ 0702
····-SDZCR/L11-····	DC◯◯ 11T3

STLB(P) Screw Clamp



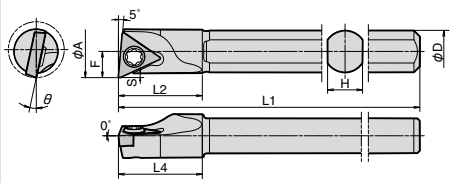


Fig.1

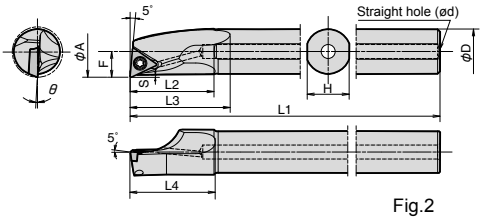


Fig.2

Bar type	L/D
Carbide	~7
Excellent	~5.5
Steel	~4

● Right-hand Shown with coolant hole

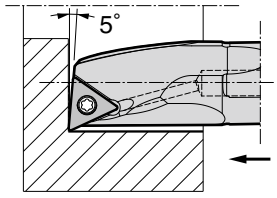
L-hand Insert for R-hand Toolholder, R-hand Insert for L-hand Toolholder.

Toolholder Dimensions

	Description	Stock R	Stock L	Min. Bore Dia. øA	Dimension (mm) øD	H	L1	L2	L3	L4	F	S	θ	Standard Corner-R (rε)	Coolant Hole	Drawing	Spare Parts: Clamp Screw	Spare Parts: Wrench
Excellent Bar	S06H-STLB$^{R}_{L}$06-08AE	●	●	8	6	5	100	12	-	12	3.8	0.5	12°	0.2	No	Fig.1	SB-2035TR	FT-6
	A08X-STLP$^{R}_{L}$09-10AE	●	●	10	8	7	120	16	22	16	5	0.5	10°	0.4	Yes	Fig.2	SB-2545TR	FT-8
	A10L-STLP$^{R}_{L}$09-12AE	●	●	12	10	9	140	20	25	20	6.2	0.9	8°					
	A10L-STLP$^{R}_{L}$11-12AE	●	●						26		6	0.7	10°				SB-3060TR	FT-10
	A12M-STLP$^{R}_{L}$11-14AE	●	●	14	12	11	150	24	30	24	7.2	0.8	7°					
	A16Q-STLP$^{R}_{L}$11-18AE	●	●	18	16	15	180	30	36	30	9.2		3.5°					
	A20R-STLP$^{R}_{L}$11-22AE	●	●	22	20	19	200	36	46	37	11.2	0.7	2°					
	A25S-STLP$^{R}_{L}$16-27AE	●	●	27	25	24	250	46	55	46	13.7		0°				SB-4065TR	FT-15
Steel	S06H-STLB$^{R}_{L}$06-08A	●	●	8	6	5	100	12	-	12	3.8	0.5	12°	0.2	No	Fig.1	SB-2035TR	FT-6
	S08X-STLP$^{R}_{L}$09-10A	●	●	10	8	7	120	16	22	16	5	0.5	10°	0.4			SB-2545TR	FT-8
	S10L-STLP$^{R}_{L}$09-12A	●	●	12	10	9	140	20	25	20	6.2	0.9	8°					
	S10L-STLP$^{R}_{L}$11-12A	●	●						26		6	0.7	10°				SB-3060TR	FT-10
	S12M-STLP$^{R}_{L}$11-14A	●	●	14	12	11	150	24	30	24	7.2	0.8	7°					
	S16Q-STLP$^{R}_{L}$11-18A	●	●	18	16	15	180	30	36	30	9.2		3.5°					
	S20R-STLP$^{R}_{L}$11-22A	●	●	22	20	19	200	36	46	37	11.2	0.7	2°					
	S25S-STLP$^{R}_{L}$16-27A	●	●	27	25	24	250	46	55	46	13.7		0°				SB-4065TR	FT-15
Carbide	C06J-STLB$^{R}_{L}$06-08A	●	●	8	6	5.4	110	12	-	12	3.8	0.5	12°	0.2	No	Fig.1	SB-2035TR	FT-6
	E08L-STLP$^{R}_{L}$09-10A	●	●	10	8	7	140	16	15	15	5	0.5	10°	0.4	Yes	Fig.2	SB-2545TR	FT-8
	E10N-STLP$^{R}_{L}$09-12A	●	●	12	10	9	160	20	19	19	6.2	0.9	8°					
	E10N-STLP$^{R}_{L}$09-12A-2 / 3	●					105											
	E10N-STLP$^{R}_{L}$09-12A-1 / 2	●					80											
	E10N-STLP$^{R}_{L}$11-12A	●	●				160				6	0.7	10°				SB-3060TR	FT-10
	E10N-STLP$^{R}_{L}$11-12A-2 / 3	●					105											
	E10N-STLP$^{R}_{L}$11-12A-1 / 2	●					80											
	E12Q-STLP$^{R}_{L}$11-14A	●	●	14	12	11	180	23	22	22	7.2	0.8	7°					
	E12Q-STLP$^{R}_{L}$11-14A-2 / 3	●					120											
	E12Q-STLP$^{R}_{L}$11-14A-1 / 2	●					90											
	E16X-STLP$^{R}_{L}$11-18A	●	●	18	16	15	220	28	27	27	9.2		3.5°					
	E16X-STLP$^{R}_{L}$11-18A-2 / 3	●					145											
	E16X-STLP$^{R}_{L}$11-18A-1 / 2	●					110											
	E20S-STLP$^{R}_{L}$11-22A	●	●	22	20	19	250	32	31	31	11.2	0.7	2°					
	E20S-STLP$^{R}_{L}$11-22A-2 / 3	●					165											
	E20S-STLP$^{R}_{L}$11-22A-1 / 2	●					125											
	E25T-STLP$^{R}_{L}$16-27A	●	●	27	25	24	300	38	37	37	13.7		0°				SB-4065TR	FT-15
	E25T-STLP$^{R}_{L}$16-27A-2 / 3	●					200											

Applicable Inserts

Toolholder	Applicable Inserts
...-STLB$^{R}_{L}$06-...	TB○○0601
...-STLP$^{R}_{L}$09-...	TP○○0902
...-STLP$^{R}_{L}$11-...	TP○○1103
...-STLP$^{R}_{L}$16-...	TP○○1603



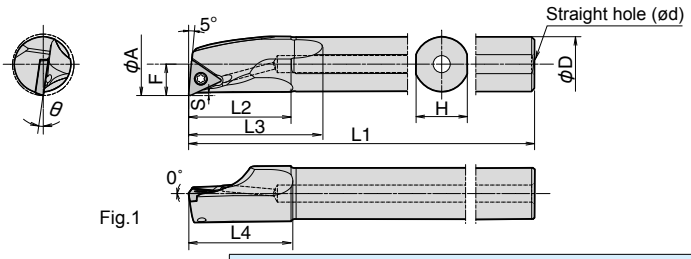


Fig.1

Bar type	L/D
Excellent	~5.5
Steel	~4

● Right-hand Shown with coolant hole

L-hand Insert for R-hand Toolholder, R-hand Insert for L-hand Toolholder.

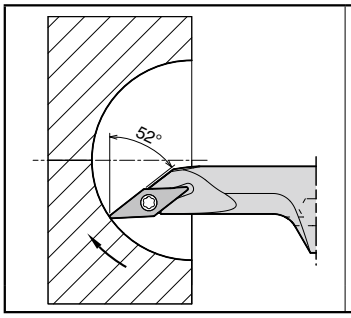
Toolholder Dimensions

	Description	Stock R	Stock L	Min. Bore Dia. øA	Dimension (mm) øD	H	L1	L2	L3	L4	F	S	θ	Standard Corner-R (rε)	Coolant Hole	Drawing	Spare Parts: Clamp Screw	Spare Parts: Wrench
Excellent Bar	**A08X-STLCR/L09-10AE**	●	●	10	8	7	120	16	22	16	5	0.5	14°	0.4	Yes	Fig.1	SB-2250TR	FT-7
	A10L-STLCR/L09-12AE	●	●	12	10	9	140	20	26	20	6.2	0.9	12°					
	A10L-STLCR/L11-12AE	●	●														SB-2560TR	FT-8
	A12M-STLCR/L11-14AE	●	●	14	12	11	150	24	30	25	7.2		10°					
	A16Q-STLCR/L11-18AE	●	●	18	16	15	180	30	39	31	9.2	0.7	8°					
	A20R-STLCR/L11-22AE	●	●	22	20	19	200	36	44	36	11.2		6°					
Steel	**S08X-STLCR/L09-10A**	●	●	10	8	7	120	16	22	16	5	0.5	14°	0.4	No	Fig.1	SB-2250TR	FT-7
	S10L-STLCR/L09-12A	●	●	12	10	9	140	20	26	20	6.2	0.9	12°					
	S10L-STLCR/L11-12A	●	●														SB-2560TR	FT-8
	S12M-STLCR/L11-14A	●	●	14	12	11	150	24	30	25	7.2		10°					
	S16Q-STLCR/L11-18A	●	●	18	16	15	180	30	39	31	9.2	0.7	8°					
	S20R-STLCR/L11-22A	●	●	22	20	19	200	36	44	36	11.2		6°					

Applicable Inserts

Toolholder	Applicable Inserts
...-STLCR/L09-...	TC○○ 0902
...-STLCR/L11-...	TC○○ 1102

SVJP(C)(B) Screw Clamp



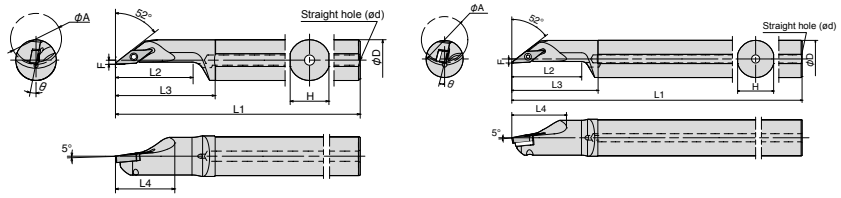


Fig.1 Fig.2

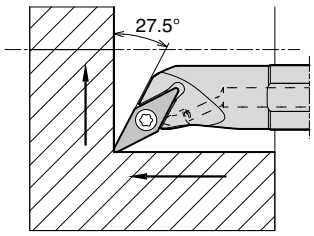
* No shim for SVJP(C)R/L08 type / SVJBR/L11 type.

● Right-hand shown with coolant hole

Bar type	L/D
Excellent	~5.5
Steel	~4

L-hand Insert for R-hand Toolholder, R-hand Insert for L-hand Toolholder.

SVPC(B) Screw Clamp



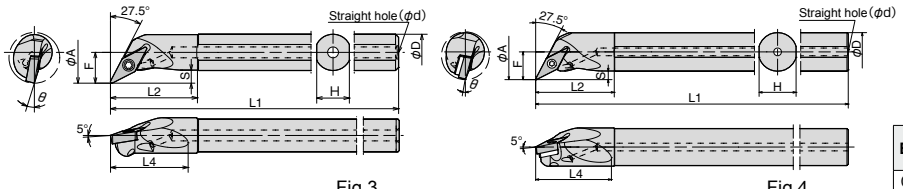


Fig.3 Fig.4

* No shim for SVPCR/L08 type / SVPBR/L11 type.

● Right-hand shown with coolant hole

Bar type	L/D
Carbide	~7
Excellent	~5.5
Steel	~4

L-hand Insert for R-hand Toolholder, R-hand Insert for L-hand Toolholder.

● Toolholder Dimensions

	Description	Stock R	Stock L	Min. Bore Dia. øA	Dimension (mm) øD	H	L1	L2	L3	L4	F	S	θ	Standard Corner-R (rε)	Coolant Hole	Drawing	Spare Parts: Clamp Screw	Spare Parts: Wrench
Excellent Bar	A12M-SVJPR/L08-16AE	●	●	16	12	11	150	26	33	21	2	-	5°	0.2	Yes	Fig.1	SB-2050TR	FT-6
	A12M-SVJCR/L08-16AE	●	●	16	12	11	150	26	33	20	2	-	5°	0.4				
	A16Q-SVJCR/L08-20AE	●	●	20	16	15	180	36	43	22	2	-	5°					
	A20R-SVJBR/L11-25AE	●	●	25	20	19	200	37.5	48	30	2	-	5°				SB-2570TR	FT-8
	A25S-SVJBR/L11-30AE	●	●	30	25	24	250	45	58	33	3.5	-	5°					
	A32S-SVJBR/L16-40AE	●	●	40	32	31	250	60	74	45	3.5	-	8°					
	A40T-SVJBR/L16-50AE	●	●	50	40	39	300	75	91	49	4.5	-	7°			Fig.2	SB-40125TRN	FT-15
Steel	S12M-SVJPR/L08-16A	●	●	16	12	11	150	26	33	21	2	-	5°	0.2	No	Fig.1	SB-2050TR	FT-6
	S12M-SVJCR/L08-16A	●	●	16	12	11	150	26	33	20	2	-	5°	0.4				
	S16Q-SVJCR/L08-20A	●	●	20	16	15	180	36	43	22	2	-	5°					
	S20R-SVJBR/L11-25A	●	●	25	20	19	200	37.5	48	30	2	-	5°				SB-2570TR	FT-8
	S25S-SVJBR/L11-30A	●	●	30	25	24	250	45	58	33	3.5	-	5°					
	S32S-SVJBR/L16-40A	●	●	40	32	31	250	60	74	45	3.5	-	8°					
	S40T-SVJBR/L16-50A	●	●	50	40	39	300	75	91	49	4.5	-	7°			Fig.2	SB-40125TRN	FT-15
Excellent Bar	A10L-SVPCR/L08-14AE	●	●	14	10	9	140	24	-	21	8.5	3	8°	0.4	Yes	Fig.3	SB-2050TR	FT-6
	A12M-SVPBR/L11-18AE	●	●	18	12	11	150	29	-	26	11	4.5	8°				SB-2570TR	FT-8
	A16Q-SVPBR/L11-22AE	●	●	22	16	15	180	35	-	33	13.5	5	5°					
	A20R-SVPBR/L11-26AE	●	●	26	20	19	200	41	-	39	15.5	5	5°					
	A25S-SVPBR/L16-31AE	●	●	31	25	24	250	51	-	49	18	5	13°			Fig.4	SB-40125TRN	FT-15
	A32S-SVPBR/L16-40AE	●	●	40	32	31	250	54	-	53	23	6.5	9°					
Steel	S10L-SVPCR/L08-14A	●	●	14	10	9	140	24	-	21	8.5	3	8°	0.4	No	Fig.3	SB-2050TR	FT-6
	S12M-SVPBR/L11-18A	●	●	18	12	11	150	29	-	26	11	4.5	8°				SB-2570TR	FT-8
	S16Q-SVPBR/L11-22A	●	●	22	16	15	180	35	-	33	13.5	5	5°					
	S20R-SVPBR/L11-26A	●	●	26	20	19	200	41	-	39	15.5	5	5°					
	S25S-SVPBR/L16-31A	●	●	31	25	24	250	51	-	49	18	5	13°			Fig.4	SB-40125TRN	FT-15
	S32S-SVPBR/L16-40A	●	●	40	32	31	250	54	-	53	23	6.5	9°					
Carbide	E10N-SVPCR/L08-14A	●		14	10	9	160	20	-	18.5	8.5	3	8°	0.4	Yes	Fig.3	SB-2050TR	FT-6
	E12Q-SVPBR/L11-18A	●		18	12	11	180	23	-	22	11	4.5	8°				SB-2570TR	FT-8
	E16X-SVPBR/L11-22A	●		22	16	15	220	28	-	27	13.5	5	5°					
	E20S-SVPBR/L11-26A	●		26	20	19	250	32	-	31	15.5	5	5°					
	E25T-SVPBR/L16-31A	●		31	25	24	300	38	-	37	18	5	13°			Fig.4	SB-40125TRN	FT-15

● Applicable Inserts

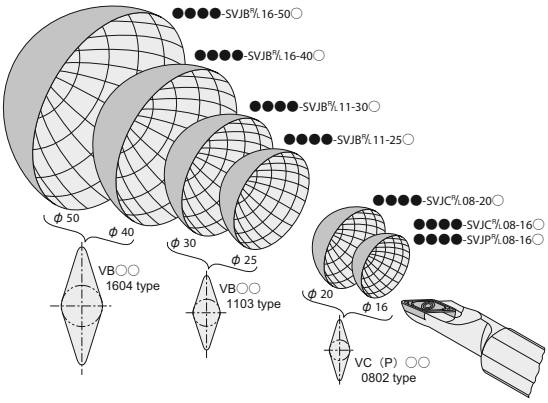
Toolholder	Applicable Inserts
...-SVJPR/L08-...	VP○○ 0802 VC○○ 0802
...-SVJCR/L08-... ...-SVPCR/L08-...	VC○○ 0802
...-SVJBR/L11-... ...-SVPBR/L11-...	VB○○ 1103
...-SVJBR/L16-... ...-SVPBR/L16-...	VB○○ 1604

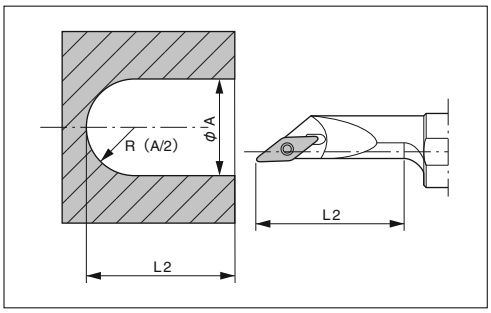
● Spare Parts

Description	Spare Parts: Shim	Spare Parts: Shim Screw	Spare Parts: Wrench (for Shim Screw)
○32S-SVJBR/L16-40A○	SVN-32N	SS-4N	LW-4
○40T-SVJBR/L16-50A○			
○25S-SVPBR/L16-31A○			
○32S-SVPBR/L16-40A○			

Application of ○···SVJ ○○

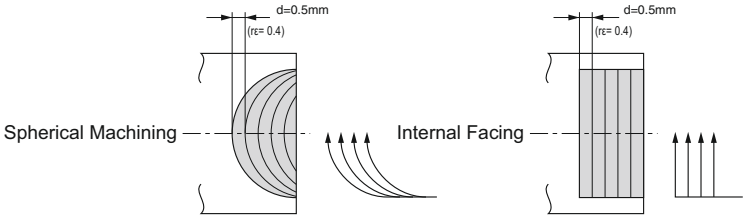
1. Application Range





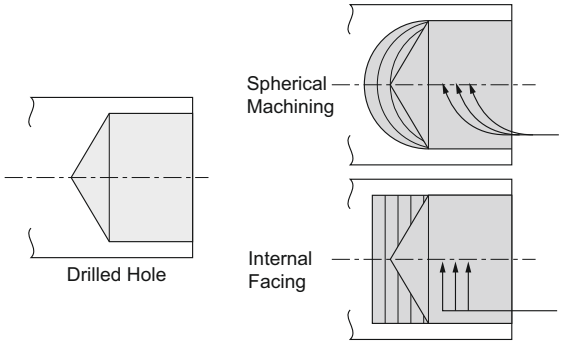
2. Machining method

Case with No Existing Hole



(Note) f shall be under 0.05mm/rev at internal facing.

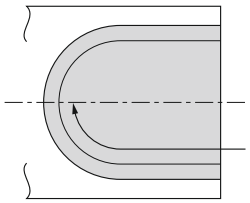
Case with Drilled Hole



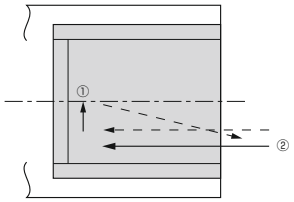
(Note) f shall be under 0.05mm/rev at internal facing.

Finishing

Spherical Machining

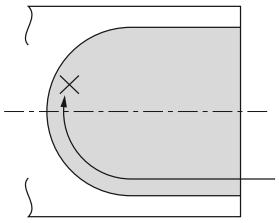


Internal Facing

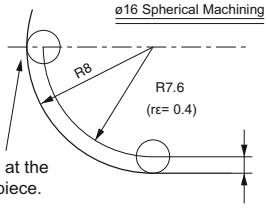


Machining Process
①Finish the internal face first.
②Next, finish the internal diameter.

3. Caution

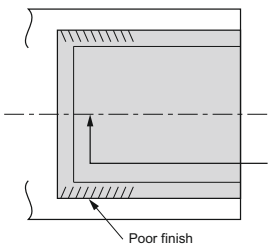


When machining past the center of the workpiece, insert breakage may occur.



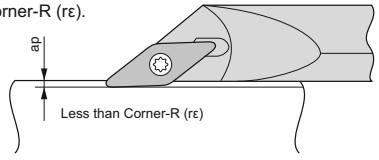
Fix the insert edge at the center of the workpiece.

Adjust the machining program of radius smaller by Corner-R (rε) value.



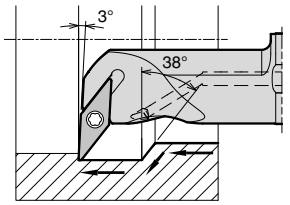
Machining of this kind is available, but the oblique part may be scratched by chips.

For internal profiling, ap should be less than the value of Corner-R (rε).



[Burs may occur, if ap is bigger than Corner-R (rε).]

SVUC(B) Screw Clamp



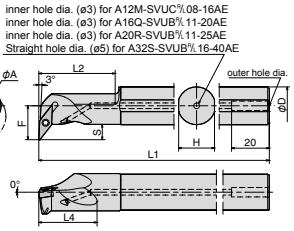


Fig.1

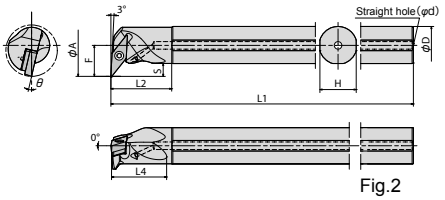


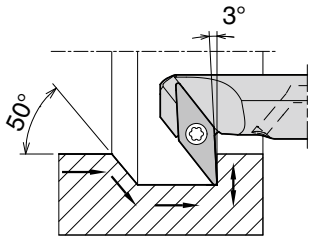
Fig.2

Bar type	L/D
Carbide	~7
Excellent	~5.5
Steel	~4

● Right-hand shown with coolant hole

L-hand Insert for R-hand Toolholder, R-hand Insert for L-hand Toolholder.

SVZC(B) Screw Clamp



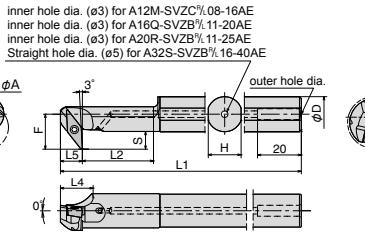


Fig.3

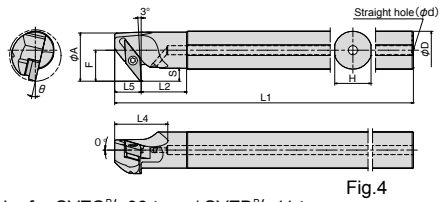


Fig.4

Bar type	L/D
Excellent	~5.5
Steel	~4

* No shim for SVZC□ 08 type / SVZB□ 11 type.

● Right-hand shown with coolant hole

R-hand Insert for R-hand Toolholder, L-hand Insert for L-hand Toolholder.

● Toolholder Dimensions

	Description	Stock R	Stock L	Min. Bore Dia. øA	Dimension (mm) øD	H	L1	L2	L4	L5	F	S	θ	Standard Corner-R (rε)	Coolant Hole	Drawing	Spare Parts: Clamp Screw	Spare Parts: Wrench
Excellent Bar	**A12M-SVUC□08-16AE**	●	●	16	12	11	150	25.5	23	-	11.5	5.5	8°	0.4	Yes	Fig.1	SB-2050TR	FT-6
	A16Q-SVUB□11-20AE	●	●	20	16	15	180	32.5	27	-	16	8	8°				SB-2570TR	FT-8
	A20R-SVUB□11-25AE	●	●	25	20	19	200	40.5	31	-	18	8	7°					
	A25S-SVUB□16-34AE	●	●	34	25	24	250	40	37	-	20.5	8.5	13°			Fig.2	SB-40125TRN	FT-15
	A32S-SVUB□16-40AE	●	●	40	32	31	250	84	47	-	28	12	9°			Fig.1		
Steel	**S12M-SVUC□08-16A**	●	●	16	12	11	150	25.5	23	-	11.5	5.5	8°	0.4	No	Fig.1	SB-2050TR	FT-6
	S16Q-SVUB□11-20A	●	●	20	16	15	180	32.5	27	-	16	8	8°				SB-2570TR	FT-8
	S20R-SVUB□11-25A	●	●	25	20	19	200	40.5	31	-	18	8	7°					
	S25S-SVUB□16-34A	●	●	34	25	24	250	40	37	-	20.5	8.5	13°			Fig.2	SB-40125TRN	FT-15
	S32S-SVUB□16-40A	●	●	40	32	31	250	84	47	-	28	12	9°			Fig.1		
Carbide	**E12Q-SVUC□08-18A**	●		18	12	11	180	23	22	-	11.5	5.5	8°	0.4	Yes	Fig.2	SB-2050TR	FT-6
	E16X-SVUB□11-25A	●		25	16	15	220	28	27	-	16	8	8°				SB-2570TR	FT-8
	E20S-SVUB□11-29A	●		29	20	19	250	32	30	-	18	8	7°					
	E25T-SVUB□16-34A	●		34	25	24	300	38	37	-	21	8.5	13°				SB-40125TRN	FT-15
Excellent Bar	**A12M-SVZC□08-16AE**	●	●	16	12	11	150	25.5	14	7.5	11.5	5.5	8°	0.4	Yes	Fig.3	SB-2050TR	FT-6
	A16Q-SVZB□11-20AE	●	●	20	16	15	180	32.5	20	10	16	8	8°				SB-2570TR	FT-8
	A20R-SVZB□11-25AE	●	●	25	20	19	200	40.5	23	10	18	8	7°					
	A25S-SVZB□16-34AE	●	●	34	25	24	250	30	34	17.5	20.5	8.5	13°			Fig.4	SB-40125TRN	FT-15
	A32S-SVZB□16-40AE	●	●	40	32	31	250	72.5	36	17.5	28	12	9°			Fig.3		
Steel	**S12M-SVZC□08-16A**	●	●	16	12	11	150	25.5	14	7.5	11.5	5.5	8°	0.4	No	Fig.3	SB-2050TR	FT-6
	S16Q-SVZB□11-20A	●	●	20	16	15	180	32.5	20	10	16	8	8°				SB-2570TR	FT-8
	S20R-SVZB□11-25A	●	●	25	20	19	200	40.5	23	10	18	8	7°					
	S25S-SVZB□16-34A	●	●	34	25	24	250	30	34	17.5	20.5	8.5	13°			Fig.4	SB-40125TRN	FT-15
	S32S-SVZB□16-40A	●	●	40	32	31	250	72.5	36	17.5	28	12	9°			Fig.3		

● Applicable Inserts

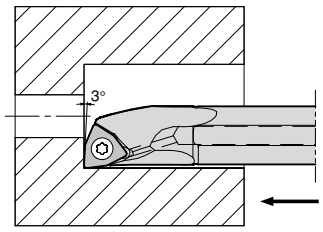
Toolholder	Applicable Inserts
...-SVUC□08-... **...-SVZC□08-...**	VC○○ 0802
...-SVUB□11-... **...-SVZB□11-...**	VB○○ 1103
...-SVUB□16-... **...-SVZB□16-...**	VB○○ 1604

● Spare Parts

Description	Spare Parts: Shim	Spare Parts: Shim Screw	Spare Parts: Wrench (for Shim Screw)
A25S-SVUB□16-34AE	SVN-32N	SS-4N	LW-4
A32S-SVUB□16-40AE			
A25S-SVZB□16-34AE			
A32S-SVZB□16-40AE			

SWUB(P)

Screw Clamp



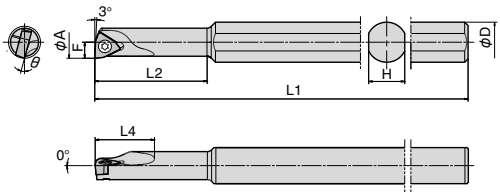
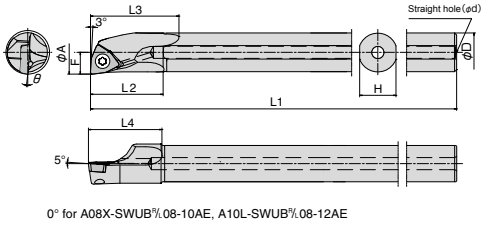


Fig.1



0° for A08X-SWUB$^{R/L}$08-10AE, A10L-SWUB$^{R/L}$08-12AE

Fig.2

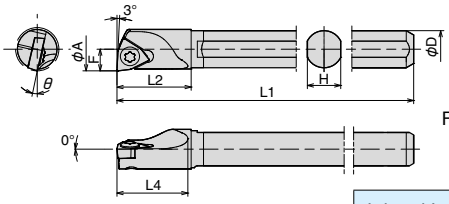


Fig.3

Bar type	L/D
Carbide	~7
Excellent	~5.5
Steel	~4

● Right-hand shown with coolant hole

L-hand Insert for R-hand Toolholder, R-hand Insert for L-hand Toolholder.

Toolholder Dimensions

	Description	Stock R	Stock L	Min. Bore Dia. øA	Dimension (mm) øD	H	L1	L2	L3	L4	F	S	θ	Standard Corner-R (rε)	Coolant Hole	Drawing	Spare Parts: Clamp Screw	Spare Parts: Wrench
Excellent Bar	S10H-SWUB$^{R/L}$06-06AE	●	●	6	10	9	100	21	-	13	3	-	15°	0.2	No	Fig.1	SB-2035TR	FT-6
	S10H-SWUB$^{R/L}$06-07AE	●	●	7	10	9	100	24.5	-	15	3.5	-	13°					
	S10H-SWUB$^{R/L}$08-08AE	●	●	8	10	9	100	28	-	15	4	-	15°					
	A08X-SWUB$^{R/L}$08-10AE	●	●	10	8	7	120	16	21	16	5	-	13°		Yes	Fig.2	SB-2050TR	
	A10L-SWUB$^{R/L}$08-12AE	●	●	12	10	9	140	20	25	20	6	-	10°					
	A12M-SWUP$^{R/L}$11-14AE	●	●	14	12	11	150	24	30	24	7	-	4°	0.4			SB-2545TR	FT-8
	A16Q-SWUP$^{R/L}$11-18AE	●	●	18	16	15	180	30	37	30	9	-	1°					
	A16Q-SWUP$^{R/L}$16-18AE	●	●										3.5°	0.8			SB-4065TR	FT-15
	A20R-SWUP$^{R/L}$16-22AE	●	●	22	20	19	200	36	46	37	11	-	2°					
Steel	S10H-SWUB$^{R/L}$06-06A	●	●	6	10	9	100	21	-	13	3	-	15°	0.2	No	Fig.1	SB-2035TR	FT-6
	S10H-SWUB$^{R/L}$06-07A	●	●	7	10	9	100	25	-	15	3.5	-	13°					
	S10H-SWUB$^{R/L}$08-08A	●	●	8	10	9	100	28	-	15	4	-	15°					
	S08X-SWUB$^{R/L}$08-10A	●	●	10	8	7	120	16	21	16	5	-	13°			Fig.2	SB-2050TR	
	S10L-SWUB$^{R/L}$08-12A	●	●	12	10	9	140	20	25	20	6	-	10°					
	S12M-SWUP$^{R/L}$11-14A	●	●	14	12	11	150	24	30	24	7	-	4°	0.4			SB-2545TR	FT-8
	S16Q-SWUP$^{R/L}$11-18A	●	●	18	16	15	180	30	37	30	9	-	1°					
	S16Q-SWUP$^{R/L}$16-18A	●	●										3.5°	0.8			SB-4065TR	FT-15
	S20R-SWUP$^{R/L}$16-22A	●	●	22	20	19	200	36	46	37	11	-	2°					
Carbide	C05H-SWUB$^{R/L}$06-06A	●	●	6	5	4.4	100	11	-	11	3	-	13°	0.2	No	Fig.3	SB-2035TR	FT-6
	C06J-SWUB$^{R/L}$06-07A	●	●	7	6	5.4	110	12	-	12	3.5	-	13°					
	C07K-SWUB$^{R/L}$08-08A	●	●	8	7	6.4	125	13	-	13	4	-	13°					
	E08L-SWUB$^{R/L}$08-10A	●	●	10	8	7	140	16	15	15	5	-	13°		Yes	Fig.2	SB-2050TR	
	E10N-SWUB$^{R/L}$08-12A	●	●	12	10	9	160	20	19	19	6	-	10°					
	E10N-SWUB$^{R/L}$08-12A-2 / 3	●					105					-						
	E10N-SWUB$^{R/L}$08-12A-1 / 2	●					80					-						
	E12Q-SWUP$^{R/L}$11-14A	●	●	14	12	11	180	23	22	22	7	-	4°	0.4			SB-2545TR	FT-8
	E12Q-SWUP$^{R/L}$11-14A-2 / 3	●					120					-						
	E12Q-SWUP$^{R/L}$11-14A-1 / 2	●					90					-						
	E16X-SWUP$^{R/L}$11-18A	●	●	18	16	15	220	28	27	27	9	-	1°					
	E16X-SWUP$^{R/L}$11-18A-2 / 3	●					145					-						
	E16X-SWUP$^{R/L}$11-18A-1 / 2	●					110					-						
	E16X-SWUP$^{R/L}$16-18A	●	●				220					-	3.5°	0.8			SB-4065TR	FT-15
	E16X-SWUP$^{R/L}$16-18A-2 / 3	●					145					-						
	E16X-SWUP$^{R/L}$16-18A-1 / 2	●					110					-						
	E20S-SWUP$^{R/L}$16-22A	●	●	22	20	19	250	32	31	31	11	-	2°					
	E20S-SWUP$^{R/L}$16-22A-2 / 3	●					165					-						
	E20S-SWUP$^{R/L}$16-22A-1 / 2	●					125					-						

Applicable Inserts

Toolholder	Applicable Inserts
...-SWUB$^{R/L}$06-...	WB◯◯ 0601
...-SWUB$^{R/L}$08-...	WB◯◯ 0802
...-SWUP$^{R/L}$11-...	WP◯◯ 1102
...-SWUP$^{R/L}$16-...	WP◯◯ 1603

Toolholder Lineup
Bohrstangen Ausführung
Gamme de porte-outils
Serie portautensile

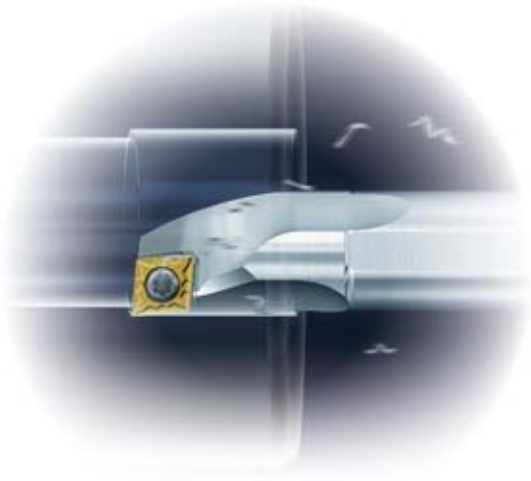

Excellent Bar

Excellent Bar
With internal coolant hole provides better chip evacuation.
Die Innenkühlbohrung gewährleistet eine verbesserte Spanabfuhr.
Avec lubrification (arrosage central) garantit une meilleure évacuation des copeaux.
Con foro per la lubro-refrigerazione interna garantisce una migliore evacuazione del truciolo.


Steel Bar

Steel Bar
Provides superior cost performance (without coolant hole).
Ermöglicht kosteneffizientes Arbeiten (ohne Kühlmittelbohrung).
Les barres acier sont très économiques (sans arrosage interne).
Per lavorazioni standard ha costi minori rispetto al bareno mod. Excellent (senza foro per la lubro-refrigerazione).

Carbide Bar
High rigidity toolholder for precision and longer overhang length.
Werkzeughalter mit hoher Steifigkeit für Präzise Bearbeitung und größerer Auskraglänge.
Porte-à- faux et précision accrues du fait de la grande rigidité du porte outil.
Bareno ad alta rigidità per lavorazioni di precisione a sbalzo.



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