

EZ Bar Series



Easy adjustment & high precision for a wide range of machining applications

The EZ Bar prevents deviation with high-rigidity clamping

Unique design provides a smooth supply of coolant

Large tooling lineup for a wide application range

New PR1725 with excellent surface finish and long tool life



EZ Bar Series

Minimum bore diameter $\varnothing$ 2 mm. Easy adjustment and high precision

Large tooling lineup for a wide application range

New PR1725 with excellent surface finish and long tool life

1 Large tooling lineup for a wide application range

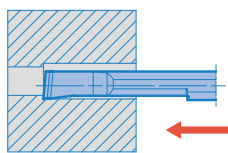
Can be used for boring, back boring, internal profiling, internal grooving, face grooving and threading
Large lineup of sleeves for various tooling applications

Internal turning

Boring

EZB $\rightarrow$ P4 ~ 7

Select the HP bar for high precision and the ST bar for cost reduction (tolerances are different)



HP
(Precision-oriented)

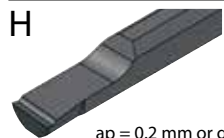
ST
(Cost-oriented)



Tool type	Offset (WF)	Longitudinal direction (L)	Cutting edge height (Y)	DMIN
HP	± 0.025 mm	± 0.05 mm	+ 0.05 mm / 0 mm	Same as shank dia.
ST	± 0.06 mm	± 0.1 mm	+ 0.06 mm / 0 mm	Different from shank dia.

Chipbreakers

Chipbreakers for various applications



ap = 0.2 mm or greater

1st recommendation /
General purpose
Long type available $\rightarrow$ P.5



ap = 0.2 mm or less

Finishing /
Sharpness oriented



Without chipbreaker

Gw05 insert grade for
aluminum machining
available

EZ Bar PLUS $\rightarrow$ P15 ~ 16

High precision solid bar with
convenience of indexable inserts
reduce machining costs

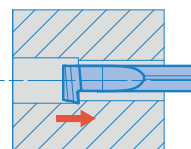


Indexable EZ Bar

Minimum bore diameter $\varnothing$ 5 mm ~

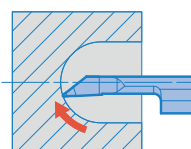
Back boring

EZBT $\rightarrow$ P9



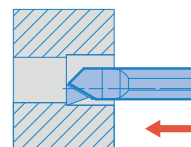
Internal facing • internal profiling

EZVB $\rightarrow$ P9



90° lead angle

EZBF $\rightarrow$ P8

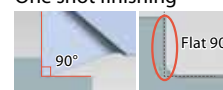


Creates a finished surface against the bore face



General boring

One shot finishing

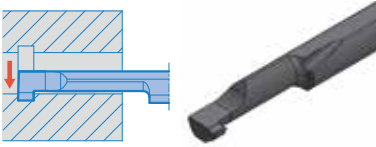


90° Lead angle boring

Max. D.O.C. : 1.0 mm ($\varnothing$ 3.0)

Internal grooving and threading

Internal grooving EZG → P11



Two different overhang lengths (LU) are available



Short type with higher rigidity and chattering resistance

Chip evacuation (internal evaluation)

C45

EZG EZGR040040-200 (Groove width 2mm)			
f (mm/rev)	0.01	0.02	0.03

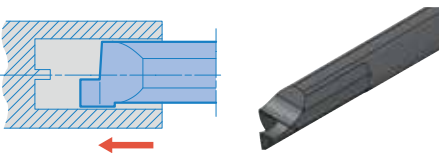
Cutting conditions : Vc = 80 m/min, groove depth 1.0 mm (ap = 0.2 x 5 times), wet

X5CrNi18-10

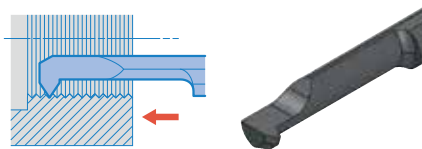
EZG EZGR040040-200 (Groove width 2mm)		
f (mm/rev)	0.01	0.02

Cutting conditions : Vc = 60 m/min, groove depth 1.0 mm (ap = 0.2 x 5 times), wet

Face grooving EZFG → P12



Threading EZT → P13 ~ 14



Minimum bore diameter $\varnothing 3$ mm

Available for threading M4 metric screw threads

Sleeves

How to select sleeves

Select between three types of sleeves

EZH-CT

With EZ adjust structure
coolant-through

EZH045 / 080 type
Available



Smooth coolant flow due to special head design

EZH-HP

With EZ adjust structure



EZH-ST

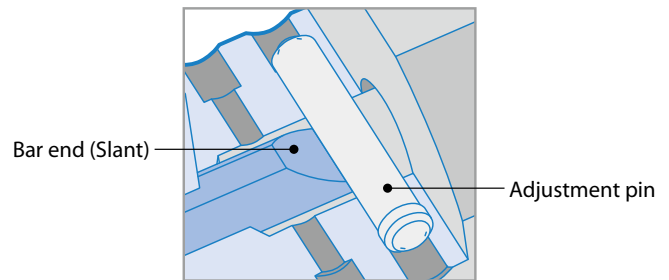
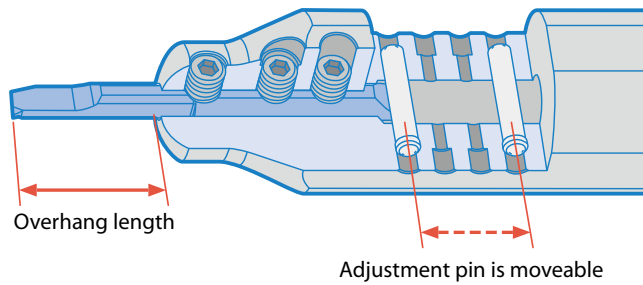
Without EZ adjust structure
For cost oriented machining



2

Adjustable overhang length (EZ adjust structure)

For CT sleeves with coolant holes and HP sleeves with positioning function, the overhang length can be set by moving adjustment pins

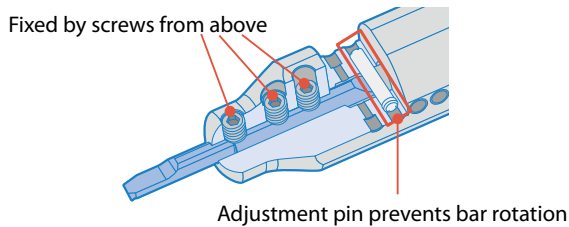


3

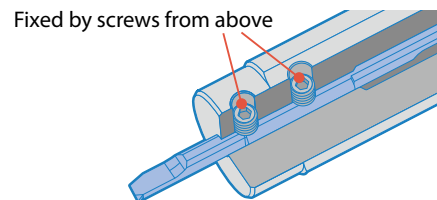
Minimized deviation of cutting diameter

The adjustment pin prevents the bar from rotating during machining

EZ Bar

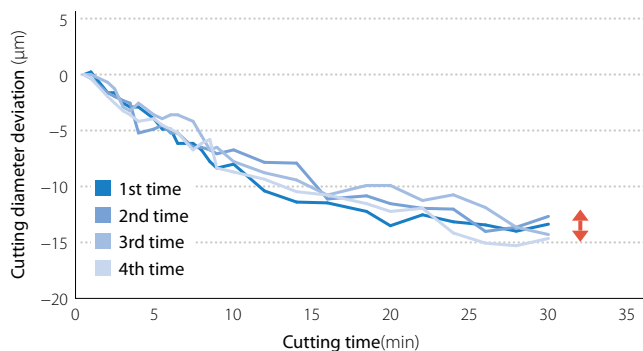


Competitor

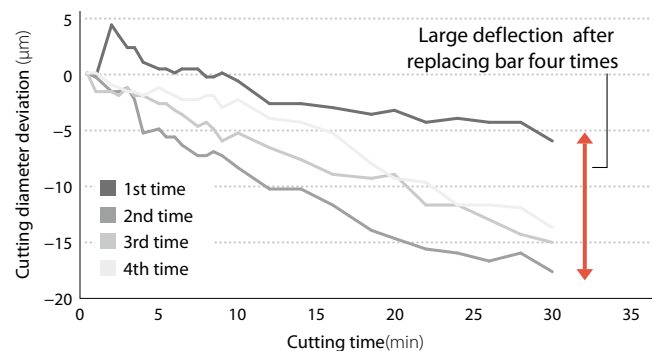


Cutting diameter deviation comparison (internal evaluation)

EZ Bar



Competitor A



Cutting conditions : $V_c = 66 \text{ m/min}$, $a_p = 0.1 \text{ mm}$, $f = 0.02 \text{ mm/rev}$, wet (oil), workpiece: tool steel (SK4_JIS)

Newly developed PVD Coating

PR1725

MEGACOAT NANO PLUS maintains long tool life and excellent surface finish

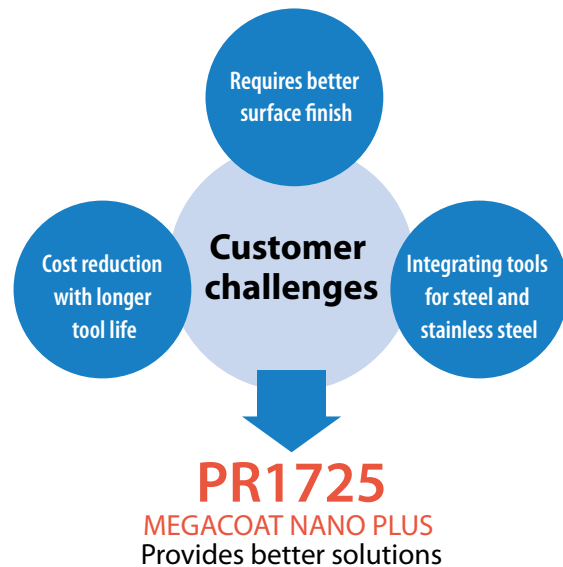
HP

(Precision-oriented)



ST

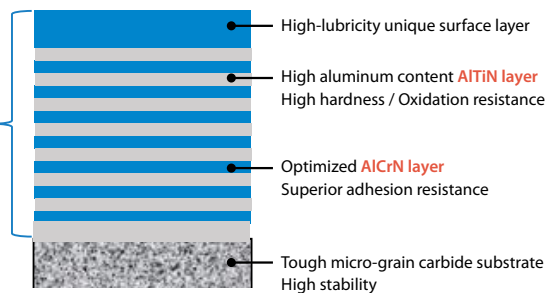
(Cost-oriented)



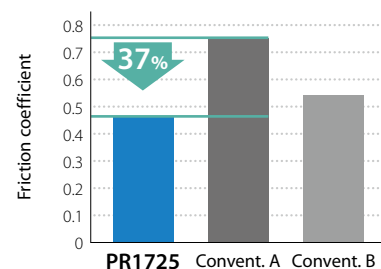
AlTiN/AlCrN Nano laminated film with superior wear resistance and adhesion resistance.
Excellent surface finish and long tool life.

Reduces cracking

Reduces abnormal damages such as chipping because of increased lamination layer with a thinner gap than conventional coatings



Friction coefficient comparison
(Internal evaluation)



Superior wear and chipping resistance

High hardness with nano laminated film layer properties
Internal stress optimization reduces chipping

Excellent surface finish

Special surface layer with great lubricity reduces adhesion

Applicable to various workpiece materials

Excellent oxidation resistance. Superior high temperature properties maintains good performance in steel, stainless steel and free-cutting steel.

High machining stability

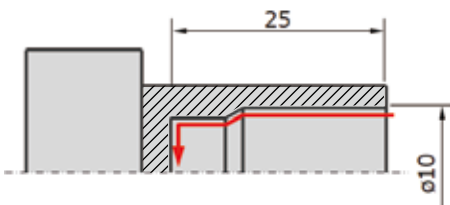
Tough micro-grain carbide substrate provides stable machining.



SOLUTION 1 Improved machining efficiency and longer tool life

(User evaluation)

Automotive parts C45



EZ Bar PR1725

18,000 pcs/corner

Conventional tool A

6,300 pcs/corner

Cutting conditions: $V_c = 50$ m/min, $a_p = 0.2$ mm, $f = 0.045$ mm/rev
EZBR0305035HP-015F PR1725

Tool Life
↑
x 2.8

The EZ Bar (PR1725) showed 2.8 times longer tool life than the conventional A.

	Boring: H chipbreaker - Chipbreaker without lead angle - Tough edge (General purpose) • Right-hand shown Chipbreaker detail
	Boring: F chipbreaker - Chipbreaker with lead angle - Sharp cutting (Finishing) • Right-hand shown Chipbreaker detail

EZ bar dimensions

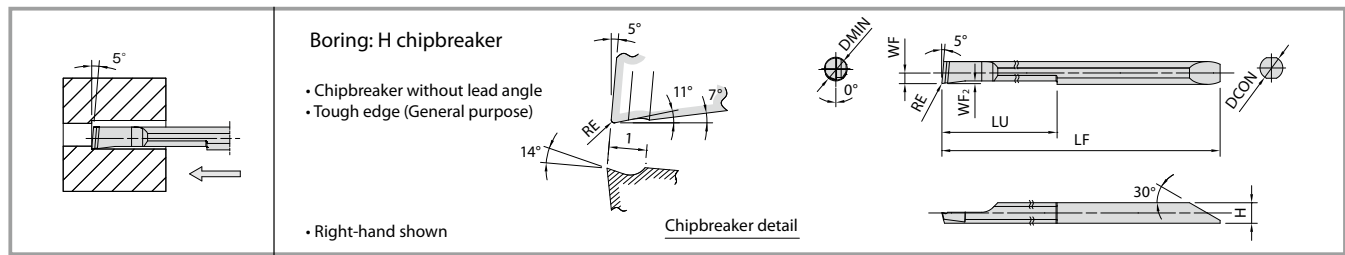
Description		Min. bore dia.	Dimensions (mm)							Grade						Applicable sleeve	
										MEGACOAT NANO PLUS		MEGACOAT		Carbide			
			DMIN	DCON	H	LF	LU	WF	WF ₂	RE	NEW PR1725	L	PR1225	L	GW05		L
EZB ^{R/L}	020020HP-008H	2	2	1.8	32	8	0.85	0.25	0.08 ^{±0.015}	●		●	●	●		EZH020...	
	025025HP-008H	2.5	2.5	2.3	35	10.5	1.1	0.25	0.08 ^{±0.015}	●		●	●	●		EZH025...	
	025025HP-015H								0.15 ^{±0.02}	●		●					
	030030HP-008H	3	3	2.7	38.9	13	1.35	0.3	0.08 ^{±0.015}	●		●	●	●		EZH030...	
	030030HP-015H								0.15 ^{±0.02}	●		●					
	035035HP-008H	3.5	3.5	3.2	41.9	15	1.6	0.4	0.08 ^{±0.015}	●		●	●	●		EZH035...	
	035035HP-015H								0.15 ^{±0.02}	●		●					
	040040HP-008H	4	4	3.6	48.8	20	1.85	0.4	0.08 ^{±0.015}	●		●	●	●		EZH040...	
	040040HP-015H								0.15 ^{±0.02}	●		●					
	NEW	045045HP-008H	4.5	4.5	4.1	51.1	22.5	2.1	0.5	0.08 ^{±0.015}	●		●	●	●		EZH045...
		045045HP-015H								0.15 ^{±0.02}	●		●				
		050050HP-008H	5	5	4.6	58.1	25	2.35	0.5	0.08 ^{±0.015}	●		●	●	●		EZH050...
		050050HP-015H								0.15 ^{±0.02}	●		●				
		060060HP-008H	6	6	5.6	66.1	30	2.85	0.6	0.08 ^{±0.015}	●		●	●	●		EZH060...
		060060HP-015H								0.15 ^{±0.02}	●		●				
	NEW	070070HP-008H	7	7	6.3	73.8	35	3.3	0.7	0.08 ^{±0.015}	●		●	●	●		EZH070...
		070070HP-015H								0.15 ^{±0.02}	●		●				
	NEW	080080HP-008H	8	8	7.2	84.8	40	3.75	0.8	0.08 ^{±0.015}	●		●	●	●		EZH080...
		080080HP-015H								0.15 ^{±0.02}	●		●				
EZBR	020020HP-005F	2	2	1.8	32	8	0.85	0.25	0.05 ^{±0.01}	●		●				EZH020...	
	025025HP-005F	2.5	2.5	2.3	35	10.5	1.1	0.3	0.05 ^{±0.01}	●		●				EZH025...	
	025025HP-015F								0.15 ^{±0.02}	●		●					
	030030HP-005F	3	3	2.7	38.9	13	1.35	0.4	0.05 ^{±0.01}	●		●				EZH030...	
	030030HP-015F								0.15 ^{±0.02}	●		●					
	035035HP-005F	3.5	3.5	3.2	41.9	15	1.6	0.5	0.05 ^{±0.01}	●		●				EZH035...	
	035035HP-015F								0.15 ^{±0.02}	●		●					
	040040HP-005F	4	4	3.6	48.8	20	1.85	0.5	0.05 ^{±0.01}	●		●				EZH040...	
	040040HP-015F								0.15 ^{±0.02}	●		●					
	NEW	045045HP-005F	4.5	4.5	4.1	51.1	22.5	2.1	0.7	0.05 ^{±0.01}	●		●				EZH045...
		045045HP-015F								0.15 ^{±0.02}	●		●				
		050050HP-005F	5	5	4.6	58.1	25	2.35	0.7	0.05 ^{±0.01}	●		●				EZH050...
		050050HP-015F								0.15 ^{±0.02}	●		●				
		060060HP-005F	6	6	5.6	66.1	30	2.85	0.9	0.05 ^{±0.01}	●		●				EZH060...
		060060HP-015F								0.15 ^{±0.02}	●		●				
	NEW	070070HP-005F	7	7	6.3	73.8	35	3.3	1	0.05 ^{±0.01}	●		●				EZH070...
		070070HP-015F								0.15 ^{±0.02}	●		●				
	NEW	080080HP-005F	8	8	7.2	84.8	40	3.75	1	0.05 ^{±0.01}	●		●				EZH080...
		080080HP-015F								0.15 ^{±0.02}	●		●				

Tolerance: Offset ± 0.025 mm, overall length ± 0.05 mm, edge height $+0.05/0$ mm
 *See P1 for details on tolerances.

Bars are sold in 1 piece boxes
 ● : Available

EZB-HP (Boring, long type)

High precision
Extended reach
(...HP...-LT)



EZ bar dimensions

Description		Min. bore dia.	Dimensions (mm)										Grade	Applicable sleeve	
													MEGACOAT		
			DMIN	DCON	H	LF	LU	*Overhang length				WF	WF ₂		RE
No.1	No.2	No.3						No.4							
EZBR	020020HP-008H-LT	2	2	1.8	36	12	12.5	8.5	-	-	0.85	0.25	0.08 ^{±0.015}	●	EZH020...
	025025HP-008H-LT	2.5	2.5	2.3	39.5	15	15.5	11.5	-	-	1.1			●	EZH025...
	030030HP-008H-LT	3	3	2.7	47.9	18	22.5	18.5	14.5	-	1.35	0.3		●	EZH030...
	035035HP-008H-LT	3.5	3.5	3.2	51.9	21	25.5	21.5	17.5	-	1.6	0.4		●	EZH035...
	040040HP-008H-LT	4	4	3.6	60.8	28	32.5	28.5	24.5	20.5	1.85			●	EZH040...
	050050HP-008H-LT	5	5	4.6	73.1	35	40.5	35.5	30.5	25.5	2.35			0.5	●
	060060HP-008H-LT	6	6	5.6	83.1	42	47.5	42.5	37.5	32.5	2.85	0.6		●	EZH060...

Tolerance: Offset ±0.025mm, overall length ±0.05mm, edge height +0.05/0mm

*See P1 for details on tolerances. * In case of overhang length mentioned in italics, modified insert is required

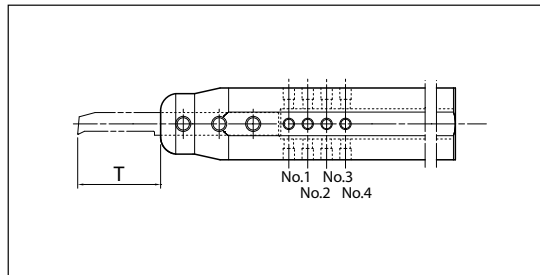
Bars are sold in 1 piece boxes

●: Available

Extended reach (...HP...-LT) bar overhang length T (mm)

Description	Adjustment pin setting			
	No.1	No.2	No.3	No.4
EZBR 020020HP-008H-LT	12.5	8.5	-	-
025025HP-008H-LT	15.5	11.5	-	-
030030HP-008H-LT	22.5	18.5	14.5	-
035035HP-008H-LT	25.5	21.5	17.5	-
040040HP-008H-LT	32.5	28.5	24.5	20.5
050050HP-008H-LT	40.5	35.5	30.5	25.5
060060HP-008H-LT	47.5	42.5	37.5	32.5

* In case of overhang length mentioned in italics, modified insert is required

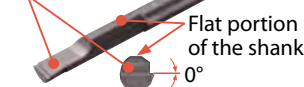


How to distinguish bars

Chip pocket angles are different

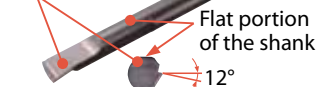
HP (EZB-HP)

Chip pocket



ST (EZB-ST)

Chip pocket



EZ bar compatibility

EZ bar compatible with conventional tip bars

Sleeve \ Bar	EZB ... HP	EZB ... ST	HPB ... (EOL)
EZB ... HP	✓	✓	✓ ^{*1,2} (Compatible)
EZB ... ST	✓	✓	✓ ^{*1} (Compatible)
PSH ... (EOL)	✓ ^{*1} (Compatible)	✓ ^{*1} (Compatible)	✓

*1: Some diameters of conventional tip bars are incompatible

*2: Use conventional tip bars without adjustment pins. The overhang length of bar is not adjustable

EZ bar identification system

EZ	B	R	020	020	HP - 008	H
Bar symbol (EZ Bar)	Application B: Boring bar	Bar hand R: Right-hand L: Left-hand	Min. bore dia. 020: 2 mm 025: 2.5 mm	Shank dia. 020: 2 mm 025: 2.5 mm	Precision HP: High precision ST: Standard	Corner-R(RE) 008: 0.08 mm 015: 0.15 mm
						Chipbreaker H Chipbreaker (Without lead angle) H-LT: Chipbreaker (Extended reach) F Chipbreaker (With lead angle) NB: Without chipbreaker

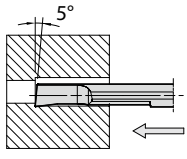
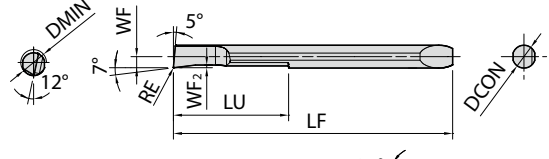
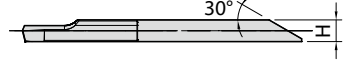
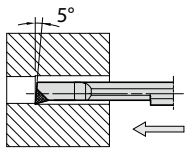
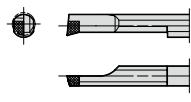
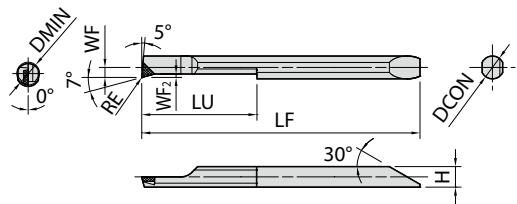
	Boring: H chipbreaker • Chipbreaker without lead angle • Tough Edge (General Purpose) • Right-hand shown <i>Chipbreaker detail</i>
	Boring: F chipbreaker • Chipbreaker with lead angle • Sharp cutting (Finishing) • Right-hand shown <i>Chipbreaker detail</i>

EZ Bar dimensions

Description		Min. bore dia.	Dimensions (mm)							Grade		Applicable sleeve
										MEGACOAT NANO PLUS	MEGACOAT	
			DMIN	DCON	H	LF	LU	WF	WF ₂	RE	 PR1725	
EZBR	020017ST-008H	2	1.7	1.5	27.3	7	0.79	0.19	0.08 ^{+0.015}			EZH017...
	025020ST-008H	2.5	2	1.82	32	8	0.94	0.16	0.08 ^{+0.015}			EZH020...
	025020ST-015H								0.15 ^{+0.02}			
	030025ST-008H	3	2.5	2.3	35	10.5	1.19	0.15	0.08 ^{+0.015}			EZH025...
	030025ST-015H								0.15 ^{+0.02}			
	035030ST-008H	3.5	3	2.8	39	13	1.44	0.18	0.08 ^{+0.015}			EZH030...
	035030ST-015H								0.15 ^{+0.02}			
	040035ST-008H	4	3.5	3.3	42	15	1.69	0.24	0.08 ^{+0.015}			EZH035...
	040035ST-015H								0.15 ^{+0.02}			
	045040ST-008H	4.5	4	3.8	49	20	1.94	0.27	0.08 ^{+0.015}			EZH040...
	045040ST-015H								0.15 ^{+0.02}			
	055050ST-008H	5.5	5	4.8	58.2	25	2.44	0.33	0.08 ^{+0.015}			EZH050...
	055050ST-015H								0.15 ^{+0.02}			
	065060ST-008H	6.5	6	5.8	66.2	30	2.94	0.38	0.08 ^{+0.015}			EZH060...
	065060ST-015H								0.15 ^{+0.02}			
	075070ST-008H	7.5	7	6.8	74.2	35	3.44	0.44	0.08 ^{+0.015}			EZH070...
	075070ST-015H								0.15 ^{+0.02}			
	EZBR	020017ST-005F	2	1.7	1.5	27.3	7	0.79	0.2	0.05 ^{+0.01}		
025020ST-005F		2.5	2	1.82	32	8	0.94	0.16	0.05 ^{+0.01}			EZH020...
025020ST-015F									0.15 ^{+0.02}			
030025ST-005F		3	2.5	2.3	35	10.5	1.19	0.2	0.05 ^{+0.01}			EZH025...
030025ST-015F									0.15 ^{+0.02}			
035030ST-005F		3.5	3	2.8	39	13	1.44	0.26	0.05 ^{+0.01}			EZH030...
035030ST-015F									0.15 ^{+0.02}			
040035ST-005F		4	3.5	3.3	42	15	1.69	0.33	0.05 ^{+0.01}			EZH035...
040035ST-015F									0.15 ^{+0.02}			
045040ST-005F		4.5	4	3.8	49	20	1.94	0.31	0.05 ^{+0.01}			EZH040...
045040ST-015F									0.15 ^{+0.02}			
055050ST-005F		5.5	5	4.8	58.2	25	2.44	0.45	0.05 ^{+0.01}			EZH050...
055050ST-015F									0.15 ^{+0.02}			
065060ST-005F		6.5	6	5.8	66.2	30	2.94	0.59	0.05 ^{+0.01}			EZH060...
065060ST-015F									0.15 ^{+0.02}			
075070ST-005F		7.5	7	6.8	74.2	35	3.44	0.65	0.05 ^{+0.01}			EZH070...
075070ST-015F									0.15 ^{+0.02}			

Tolerance: Offset ± 0.06 mm, overall length ± 0.1 mm, edge height $+0.06/0$ mm
 *See P1 for details on tolerances.

Bars are sold in 1 piece boxes
 ●: Available

	PR1225-GW05 • Right-hand shown  
	KBN05M-KPD001 • Right-hand shown   Fig. 2 EZBR030 Type Fig. 3 EZBR040-EZBR070 type

EZ Bar dimensions

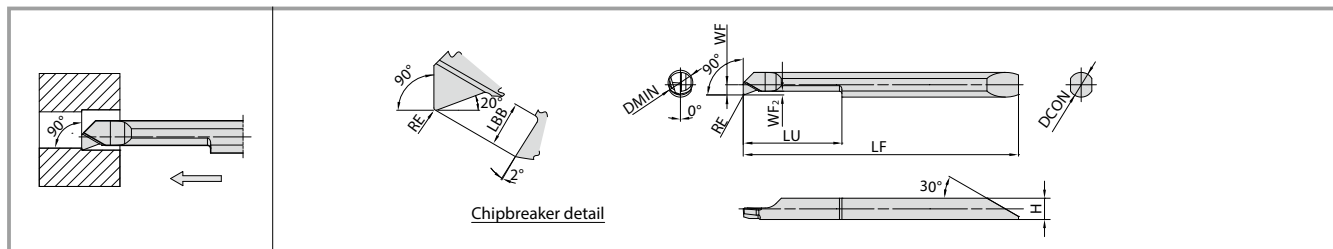
Description		Min. bore dia.	Dimensions (mm)							Drawing	Grade				Applicable sleeve
											MEGA COAT	Carbide	MEGA COAT CBN	PCD	
		DMIN	DCON	H	LF	LU	WF	WF ₂	RE		PR1225	GW05	KBN05M	KPD001	
EZBR	020017-005NB	2	1.7	1.5	27.3	7	0.79	0.2	0.05 ^{±0.015}	Fig.1	●	●			EZH017...
	025020-005NB	2.5	2	1.82	32	8	0.94	0.16			●	●			EZH020...
	030025-005NB	3	2.5	2.3	35	10.5	1.19	0.16			●	●			EZH025...
	035030-005NB	3.5	3	2.8	39	13	1.44	0.19			●	●			EZH030...
	040035-005NB	4	3.5	3.3	42	15	1.69	0.25			●	●			EZH035...
	045040-005NB	4.5	4	3.8	49	20	1.94	0.28			●	●			EZH040...
	055050-005NB	5.5	5	4.8	58.2	25	2.44	0.33			●	●			EZH050...
	065060-005NB	6.5	6	5.8	66.2	30	2.94	0.39			●	●			EZH060...
	075070-005NB	7.5	7	6.8	74.2	35	3.44	0.45			●	●			EZH070...
EZBR	030030-003NB	3	3	2.6	38.8	13	1.25	0.3	0.035 ^{±0.015}	Fig.2			●		EZH030...
	040040-003NB	4	4	3.6	48.8	20	1.75	0.5		Fig.3			●		EZH040...
	050050-003NB	5	5	4.6	58.1	25	2.25						●		EZH050...
	060060-003NB	6	6	5.6	66.1	30	2.75						●		EZH060...
	070070-003NB	7	7	6.6	74.1	35	3.25						●		EZH070...
EZBR	040040-003NB	4	4	3.6	48.8	20	1.75	0.5	0.035 ^{±0.015}					●	EZH040...
	050050-003NB	5	5	4.6	58.1	25	2.25							●	EZH050...
	060060-003NB	6	6	5.6	66.1	30	2.75							●	EZH060...
	070070-003NB	7	7	6.6	74.1	35	3.25							●	EZH070...

Bars are sold in 1 piece boxes

●: Available

Edge preparation

Grade	Edge preparation	Notes
PR1225 · GW05	Sharp edge	—
KBN05M	T00815	0.08 mm × 15° chamfered cutting edge
KPD001	Sharp edge	—



EZ Bar dimensions

Description	Min. bore dia.	Dimensions (mm)								Grade		Applicable sleeve
		DMIN	DCON	H	LF	LU	WF	WF ₂	LBB	RE	MEGACOAT	
											PR1225	
EZBFR 030030-008	3	3	2.5	37.7	12	1.2	0.45	1.5	0.08 ^{±0.015}	●	R	EZH030...
040040-008	4	4	3.45	44.6	16	1.65	0.55	2.0	0.08 ^{±0.015}	●	L	EZH040...
050050-015	5	5	4.3	52.7	20	2.15	0.7	2.4	0.15 ^{±0.02}	●		EZH050...
060060-015	6	6	5.15	59.6	24	2.55	0.85	2.8	0.15 ^{±0.02}	●		EZH060...

Tolerance: Offset ± 0.05 mm, overall length ± 0.05 mm, edge height $+0.05/0$ mm
 *See P1 for details on tolerances.

Bars are sold in 1 piece boxes
 ● : Available

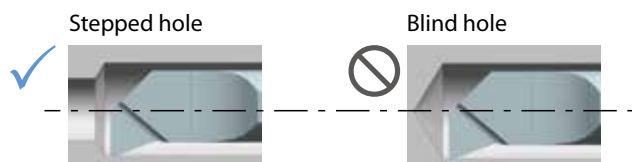
Recommended cutting conditions

Workpiece	Insert grade (Vc: m/min)	EZBFR030030-008		EZBFR040040-008		EZBFR050050/060060-015		Notes
	MEGACOAT	ap(mm), f(mm/rev)						
	PR1225	ap	f	ap	f	ap	f	
Carbon steel • alloy steel	30 ~ 100	~ 0.2	~ 0.05	~ 0.3	~ 0.05	~ 0.5	~ 0.05	Wet
Stainless steel	30 ~ 80	~ 0.2	~ 0.05	~ 0.3	~ 0.05	~ 0.5	~ 0.05	

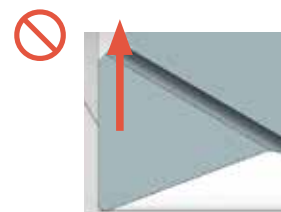
Precautions

✓ Recommended ⊘ not recommended ⊘ easily damaged

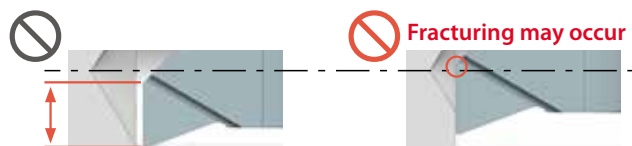
1. Machining in blind hole is not recommended.



3. Up facing is not recommended.

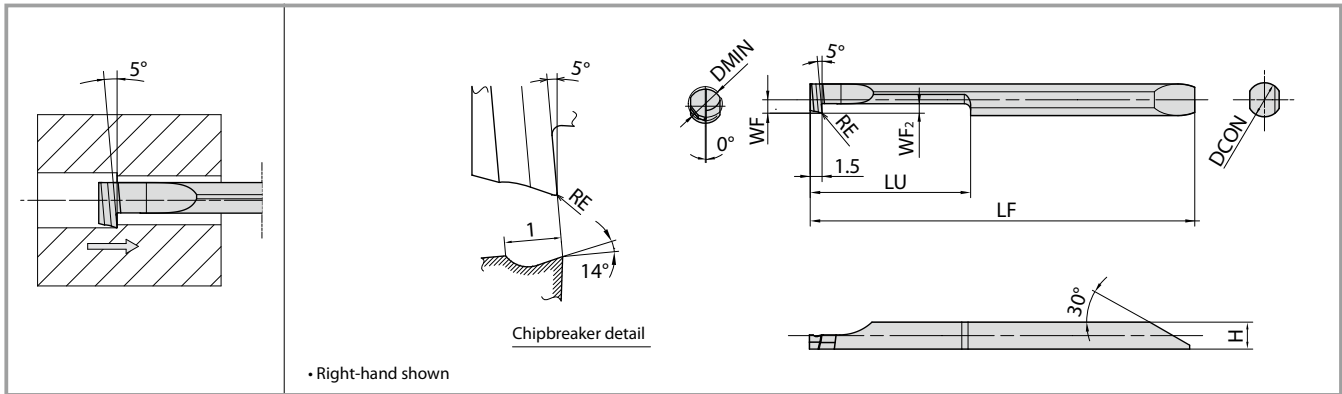


2. If front cutting edge exceeds beyond workpiece center line, fracturing may occur.



Min boring diameter of $\phi 4$: 1.9 mm front cutting edge length

Off-center design

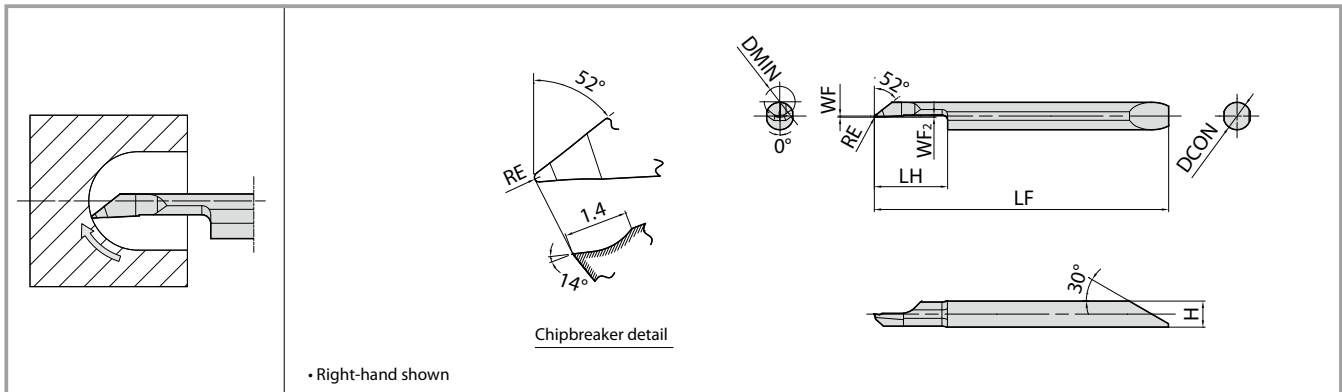


EZ Bar dimensions

Description		Min. bore dia.	Dimensions (mm)							Grade		Applicable sleeve
										MEGACOAT	Carbide	
			DMIN	DCON	H	LF	LU	WF	WF ₂	RE	PR1225	
EZBTR	040040-005	4	4	3.45	48.7	20	1.7	1.2	0.05 ⁺⁰ _{-0.02}	●	●	EZH040...
	050050-005	5	5	4.3	58.7	25	2.15	1.5		●	●	EZH050...

Bars are sold in 1 piece boxes
 ● : Available

EZVB (Boring • Internal facing • Internal profiling)



EZ Bar dimensions

Description	Min. bore dia.	Dimensions (mm)							Grade		Applicable sleeve
		DMIN	DCON	H	LF	LH	WF	WF ₂	RE	MEGACOAT	
EZVBR 035030-010	3.5	3	2.8	38	8	0.17	0.22	0.26	0.1 ^{±0.015}	PR1225	EZH030...
045040-010	4.5	4	3.8	43	10						EZH040...
055050-010	5.5	5	4.8	50.2	12						EZH050...
065060-010	6.5	6	5.8	55.2	14						EZH060...

Bars are sold in 1 piece boxes
 ● : Available

Recommended cutting conditions

H Chipbreaker EZB-HP • H type EZB-ST • H type

Workpiece	Vc: m/min		EZB020/025 type		EZB030/035 type		EZB040/045 type		EZB050/055/060/ 065/070/075/080 type		Notes
	MEGACOAT	Carbide	ap : (mm), f : (mm/rev)								
	PR1225	GW05	ap	f	ap	f	ap	f	ap	f	
Carbon steel • Alloy steel	30 ~ 100	—	~ 0.3	~ 0.03	~ 0.4	~ 0.04	~ 0.45	~ 0.07	~ 0.5	~ 0.1	Wet
Stainless steel	30 ~ 80	—	~ 0.2	~ 0.02	~ 0.3	~ 0.03	~ 0.35	~ 0.05	~ 0.4	~ 0.07	
Non-ferrous metals	—	— 100	~ 0.3	~ 0.05	~ 0.4	~ 0.06	~ 0.45	~ 0.1	~ 0.5	~ 0.15	

H Chipbreaker (Long type)

Workpiece	Vc: m/min	EZB020/025/030/035 type		EZB040/050/060 type		Notes
	MEGACOAT	ap : (mm), f : (mm/rev)				
	PR1225	ap	f	ap	f	
Carbon steel • Alloy steel	30 ~ 60	~ 0.3	~ 0.05	~ 0.4	~ 0.1	Wet
Stainless steel	10 ~ 40	~ 0.25	~ 0.05	~ 0.3	~ 0.07	

F Chipbreaker EZB-HP • F type EZB-ST • F type

Workpiece	Vc: m/min	EZB020/025 type		EZB030/035 type		EZB040/045 type		EZB050/055/060/ 065/070/075/080 type		Notes
	MEGACOAT	ap : (mm), f : (mm/rev)								
	PR1225	ap	f	ap	f	ap	f	ap	f	
Carbon steel • Alloy steel	30 ~ 100	~ 0.2	~ 0.03	~ 0.2	~ 0.05	~ 0.3	~ 0.07	~ 0.3	~ 0.07	Wet
Stainless steel	30 ~ 80		~ 0.02		~ 0.03	~ 0.25	~ 0.05	~ 0.25	~ 0.05	

NB Chipbreaker (without chipbreaker)

Workpiece	Vc: m/min		EZB020/025 type		EZB030/035 type		EZB040/045 type		EZB055/065/075 type		Notes
	MEGACOAT	Carbide	ap: (mm), f: (mm/rev)								
	PR1225	GW05	ap	f	ap	f	ap	f	ap	f	
Carbon steel • Alloy steel	30 ~ 100	—	~ 0.3	~ 0.03	~ 0.4	~ 0.04	~ 0.45	~ 0.07	~ 0.5	~ 0.1	Wet
Stainless steel	30 ~ 80	—	~ 0.2	~ 0.02	~ 0.3	~ 0.03	~ 0.35	~ 0.05	~ 0.4	~ 0.07	
Non-ferrous metals	—	~ 100	~ 0.3	~ 0.05	~ 0.4	~ 0.06	~ 0.45	~ 0.07	~ 0.5	~ 0.1	

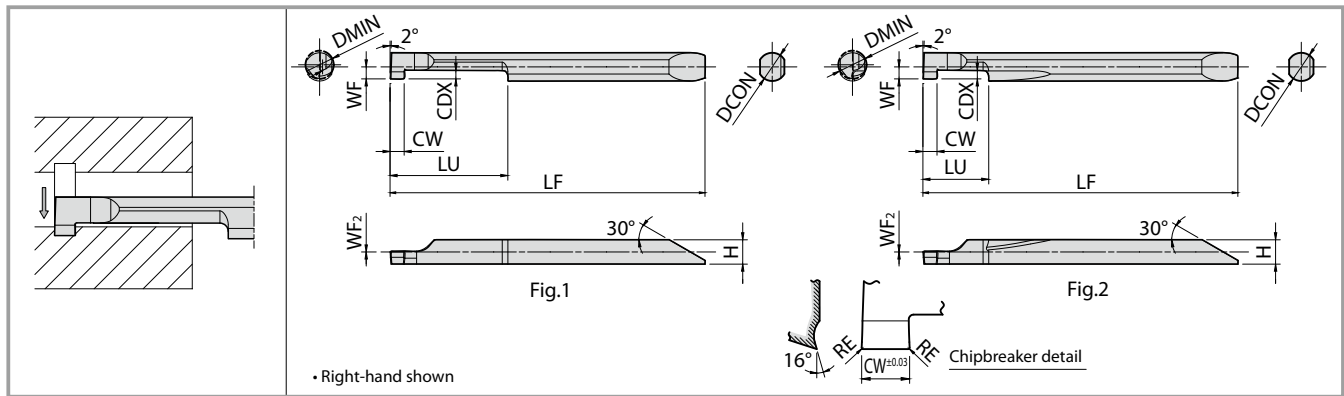
Workpiece	Insert Grade (Vc: m/min)		EZB030 type		EZB040/045 type		EZB050/060/070 type		Notes
	MEGACOAT CBN	PCD	ap : (mm), f : (mm/rev)						
	KBN05M	KPD001	ap	f	ap	f	ap	f	
Non-ferrous metals	—	~ 300	—	—	~ 0.45	~ 0.1	~ 0.5	~ 0.15	Wet
Hard materials	~ 100	—	~ 0.07	~ 0.03	~ 0.10	~ 0.05	~ 0.15	~ 0.07	

EZBT (Back boring)

Workpiece	Vc: m/min		EZBTR040 type		EZBTR050 type		Notes
	MEGACOAT	Carbide	ap : (mm), f : (mm/rev)				
	PR1225	GW05	ap	f	ap	f	
Carbon steel • Alloy steel	30 ~ 100	—	~ 0.45	~ 0.07	~ 0.5	~ 0.1	Wet
Stainless steel	30 ~ 80	—		~ 0.05		~ 0.07	
Non-ferrous metals	—	30 ~ 100		~ 0.1		~ 0.15	

EZVB (Boring • Internal facing • Internal profiling)

Workpiece	Vc: m/min	EZVB035 type		EZVB045 type		EZVB055/065 type		Notes
	MEGACOAT	ap : (mm), f : (mm/rev)						
	PR1225	ap	f	ap	f	ap	f	
Carbon steel • Alloy steel	30 ~ 100	~ 0.05	~ 0.04	~ 0.07	~ 0.07	~ 0.1	~ 0.07	Wet
Stainless steel	30 ~ 80	~ 0.03	~ 0.03	~ 0.05	~ 0.05	~ 0.07	~ 0.05	



EZ Bar dimensions

Description	Min. bore dia.	Dimensions (mm)									Drawing	MEGACOAT		Carbide		Applicable sleeve							
	DMIN	CW ^{±0.03}	RE	DCON	H	LF	LU	WF	WF ₂	CDX		PR1225	GW05										
EZG ^{R/L}	040040-050	4	0.5	0.05 ^{±0.013}	4	3.45	44.7	12	1.7	1	Fig.2	R	L	R	L	EZH040..							
	040040-100		1.0									●	●	●	●								
	040040-150		1.5									●	●	●	●								
	040040-200		2.0									●	●	●	●								
	050050-100	1.0	5		5	4.3	52.8	20	2.15		0	Fig.1	●	●	●	EZH050..							
	050050-150	1.5											●	●	●		●						
	050050-200	2.0											●	●	●		●						
	060060-100	1.0											●	●	●		●						
	060060-150	1.5								6			6	5.15	60.7	2.65	2	●	●	●	EZH060..		
	060060-200	2.0																●	●	●		●	
	070070-100	1.0																●	●	●		●	
	070070-150	1.5																●	●	●		●	
	070070-200	2.0	7		7	6.2	63.7	25	3.05	2	●	●	●	EZH070..									
	080070-100	1.0									●	●	●		●								
	080070-150	1.5									●	●	●		●								
	080070-200	2.0									●	●	●		●								
EZGR	030030-050S	3	0.5	0.05 ^{±0.013}	3	2.5	38.7	5	1.25	0.8	Fig.2	●				EZH030..							
	030030-100S		1.0									●											
	040040-050S		0.5									4	4	3.45	44.7		8	1.7	1	●			EZH040..
	040040-100S		1.0																	●			
	040040-150S	1.5	●																				
	040040-200S	2.0	●																				
	050050-100S	1.0	5		5	4.3	52.8	10	2.15							0				●			EZH050..
	050050-150S	1.5																		●			
	050050-200S	2.0								●													
	060060-100S	1.0								●													
	060060-150S	1.5								6		6	5.15	60.7	2.65		2	●			EZH060..		
	060060-200S	2.0																●					
	070070-100S	1.0																●					
	070070-150S	1.5																●					
	070070-200S	2.0	7		7	6.2	63.7	3.05	2	●				EZH070..									
	080070-100S	1.0								●													
	080070-150S	1.5								●													
	080070-200S	2.0								●													

CDX: Available grooving depth

Bars are sold in 1 piece boxes

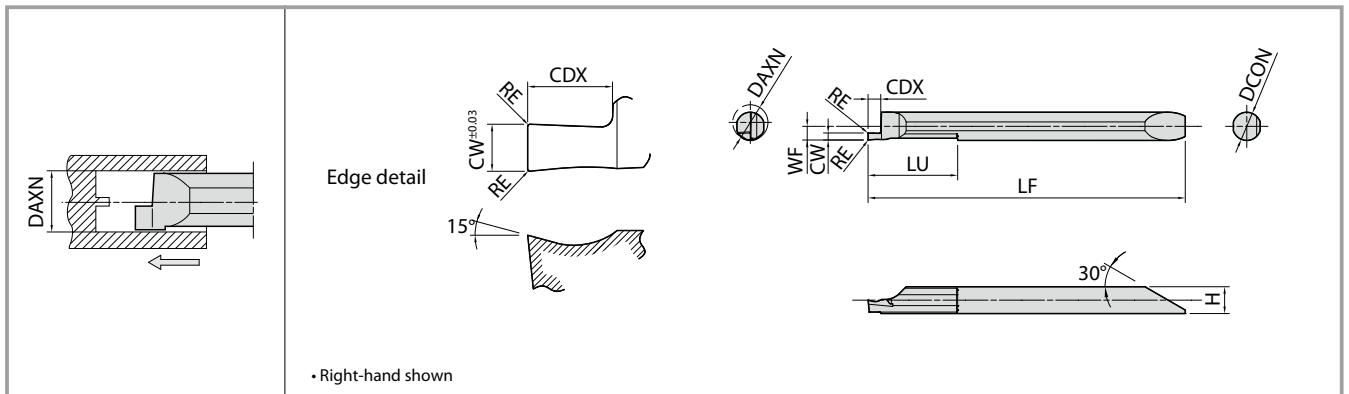
●: Available

Recommended cutting conditions

Workpiece	Vc: m/min		EZGR030030-...S	EZGR040040-... EZGR050050-... EZGR060060-...S EZGR070070-...S EZGR080070-...S	EZGR060060-... EZGR070070-... EZGR080070-... EZGR060060-...S EZGR070070-...S EZGR080070-...S	Notes
	MEGACOAT	Carbide				
	PR1225	GW05				
Carbon steel • Alloy steel	★ 30 ~ 100	—	~ 0.02	~ 0.03	~ 0.05	Wet
Stainless steel	★ 30 ~ 80	—	~ 0.01	~ 0.02	~ 0.03	
Non-ferrous metals	—	★ ~ 300	—	~ 0.05	~ 0.08	

★: 1st Recommendation

EZFG (Face grooving)



EZ Bar dimensions

Description		Face grooving dia. (MIN.)	Dimensions (mm)							MEGACOAT		Carbide		Applicable sleeve	
		DAXN	CW ^{±0.03}	RE	DCON	H	LF	LU	WF	CDX	PR1225		GW05		
											R	L	R		L
EZFG ^{R/L} 050040-100	050040-150	5	1.0	0.05 ^{±0.013}	4	3.8	45.0	12	1.9	1.5	●	●	●	EZH040..	
			1.5							2.0	●	●	●		
EZFG ^{R/L} 060050-100	060050-150	6	1.0		5	4.8	53.2	25	2.4	1.5	●	●	●	EZH050..	
			1.5							2.5	●	●	●		
			2.0							3.0	●	●	●		
EZFG ^{R/L} 080070-100	080070-150	8	1.0		7	6.8	64.2	25	3.4	2.0	●	●	●	EZH070..	
			1.5							2.5	●	●	●		
			2.0							3.0	●	●	●		
			3.0								●	●	●		

CDX: Available grooving depth

Bars are sold in 1 piece boxes
● : Available

Recommended cutting conditions

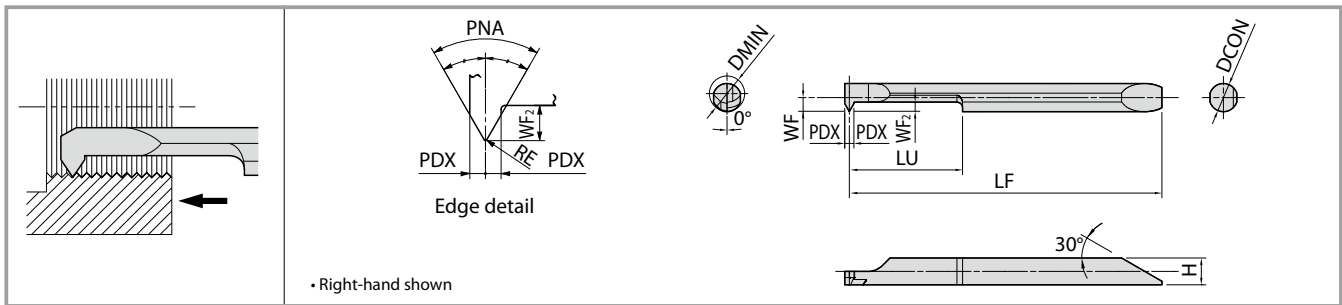
Workpiece	Vc: m/min		EZFG R050040-100 EZFG R060050-100 EZFG R080070-100	EZFG R050040-150 EZFG R060050-150 EZFG R080070-150	EZFG R060050-200 EZFG R080070-200	EZFG R080070-300	Notes
	MEGACOAT	Carbide					
	PR1225	GW05					
Carbon steel • Alloy steel	★ 30 ~ 100	—	~ 0.02	~ 0.03	~ 0.04	~ 0.05	Wet
Stainless steel	★ 30 ~ 80	—	~ 0.01	~ 0.02	~ 0.02	~ 0.03	
Non-ferrous metals	—	★ ~ 300	~ 0.03	~ 0.05	~ 0.06	~ 0.08	

★ : 1st Recommendation

EZ Bar identification system (Internal grooving, face grooving)

EZ	G	R	030	030 - 050	S
Bar symbol (EZ Bar)	Application	Bar hand	Min. bore dia.	Shank dia.	Groove width
	G: Internal grooving FG: Face grooving	R: Right-hand L: Left-hand	030: 3 mm ⋮	030: 3 mm ⋮	050: 0.5 mm 100: 1.0 mm 150: 1.5 mm 200: 2.0 mm
			Face grooving dia.		Type
			050: 5 mm ⋮		S: Short type (LU Dimension)

EZT (Threading)



EZ Bar dimensions

Description		Min. bore dia.	Dimensions (mm)								MEGA COAT	Carbide	Applicable threads						
													Metric		Unified		American national pipe		
			DMIN	DCON	H	LF	LU	WF	WF ₂	PDX			RE	PNA	PR 1225	GW05	Applicable thread	Pitch (mm)	Applicable thread
EZTR	030025-60-002	3.0	2.5	2.3	34.5	6.0	1.19	1.0	0.5	±0.01 0.02	60°	●	●	M4 or more (M3.5 or more)	0.35 – 0.8	No.8-32UNC No.8-36UNF or more	36 – 32	–	–
	035030-60-002	3.5	3.0	2.8	38.4	8.4	1.44	1.2	0.6			●	●	M4.5 or more (M4.5 or more)	0.5 – 1.0	No.10-24UNC No.8-36UNF or more	36 – 24	–	–
	040035-60-004	4.0	3.5	3.3	41.4	10.4	1.69	1.2	0.6			●	●	M5 or more (M6 or more)	0.75 – 1.25	No.12-24UNC No.12-28UNF or more	28 – 20	–	–
	050040-60-004	5.0	4.0	3.8	44.35	15.35	1.94	1.3	0.65	±0.01 0.04		●	●	M7 or more (M6 or more)	0.75 – 1.5	1/4-20UNC 1/4-28UNF or more	28 – 18	–	–
	060050-60-004	6.0	5.0	4.8	52.4	19.2	2.44	1.6	0.8			●	●	M8 or more (M7 or more)	0.75 – 1.5	5/16-18UNC 5/16-24UNF or more	24 – 16	1/4NPT 3/8NPT	18
	070060-60-004	7.0	6.0	5.8	60.2	24.0	2.94	2.0	1.0			●	●	M9 or more (M8 or more)	0.75 – 1.75	3/8-16UNC 3/8-24UNF or more	24 – 16	1/4NPT or more	18,14
														Whitworth		Parallel Pipe / Tapered pipe			
EZTR	060050-55-008	6.0	5.0	4.8	52.4	19.2	2.44	1.6	0.8	±0.015 0.085	55°	●	●	W10 TPI 24 or more	24 – 20	G1/16 or more R1/16 or more	28	–	–
	080070-55-008	8.0	7.0	6.8	63.2	24.0	3.44	2.0	1.0			●	●	W11 TPI 20 or more	20 – 18	G1/8 or more R1/8 or more	28,19	–	–

For American National Pipe (NPT), use EZTR-60-004. See Page 14
See back cover for applicable sleeves

ap & number of passes (Metric)

Pitch (mm)	Total ap (mm)	No. of passes (Times)	1 Pass	2 Pass	3 Pass	4 Pass	5 Pass	6 Pass	7 Pass	8 Pass	9 Pass	10 Pass	11 Pass	12 Pass	13 Pass	14 Pass	15 Pass	16 Pass	17 Pass	18 Pass	19 Pass	20 Pass
0.5	0.3	9	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.02											
0.7	0.42	10	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.02										
0.75	0.45	10	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03										
0.8	0.48	11	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03									
1.00	0.61	12	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03								
1.25	0.77	14	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.04	0.04	0.04	0.03						
1.50	0.93	17	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.03				
1.75	1.1	20	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03	0.03

ap & number of passes (Whitworth)

TPI (TPI/inch)	Total ap (mm)	No. of passes (Times)	1 Pass	2 Pass	3 Pass	4 Pass	5 Pass	6 Pass	7 Pass	8 Pass	9 Pass	10 Pass	11 Pass	12 Pass	13 Pass	14 Pass	15 Pass	16 Pass	17 Pass
24	0.65	13	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03				
20	0.81	15	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03		
18	0.91	17	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03

ap & number of passes (Unified)

TPI (TPI/inch)	Total ap (mm)	No. of passes (Times)	1 Pass	2 Pass	3 Pass	4 Pass	5 Pass	6 Pass	7 Pass	8 Pass	9 Pass	10 Pass	11 Pass	12 Pass	13 Pass	14 Pass	15 Pass	16 Pass	17 Pass	18 Pass
36	0.44	10	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.03	0.02	0.02								
32	0.5	11	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03							
28	0.55	12	0.07	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.03	0.03	0.03	0.03						
24	0.65	12	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.03						
20	0.78	14	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03				
18	0.88	17	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03	
16	0.99	18	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03

Bars are sold in 1 piece boxes
● : Available

Recommended cutting conditions

Workpiece	Recommended insert grade (Vc: m/min)	
	MEGACOAT	Carbide
	PR1225	GW05
Carbon steel • Alloy steel	★ 30 ~ 50	—
Stainless steel	★ 30 ~ 50	—
Non-ferrous metals	—	★ 30 ~ 50

Note

1) The standard cutting speed is $V_c = 30 \sim 50$ m/min
The table feed may not follow the expected conditions when machining small diameter workpieces at high speeds

2) Coolant is recommended

★ : 1st recommendation

Application of parallel pipe and tapered pipe thread

Parallel pipe: G (PF), Rp (PS)

Applicable thread	TPI (TPI/inch)	Internal threading		Same root's radius external threading internal threading
Symbol (Previous symbol)		Insert	Bore dia.	
G 1/16 (—)	28	EZTR 060050-55-008	6.56	0.12
G 1/8 (PF 1/8)		080070-55-008	8.57	
G 1/4 (PF 1/4)	19	EZTR 080070-55-008	11.45	0.18
G 3/8 (PF 3/8)			14.95	

Tapered pipe: R, Rc (PT) (BSPT)

Applicable thread	TPI (TPI/inch)	Internal threading		Same root's radius external threading internal threading
Symbol (Previous symbol)		Insert	Bore Dia.	
R 1/16, Rc 1/16 (—)	28	EZTR 060050-55-008	—	0.12
R 1/8, Rc 1/8 (PT 1/8)		080070-55-008	—	
R 1/4, Rc 1/4 (PT 1/4)	19	EZTR 080070-55-008	—	0.18
R 3/8, Rc 3/8 (PT 3/8)			—	

When using "EZT type" for parallel pipe / tapered pipe threading, thread's corners become sharp edged due to its partial profile, and the shape will not be the same as the standard shape for parallel pipe / tapered pipe

ap & number of passes (Parallel pipe / Tapered pipe)

TPI (TPI/ inch)	Total ap (mm)	No. of Passes (Times)	1 Pass	2 Pass	3 Pass	4 Pass	5 Pass	6 Pass	7 Pass	8 Pass	9 Pass	10 Pass	11 Pass	12 Pass	13 Pass	14 Pass	15 Pass	16 Pass	17 Pass	18 Pass
28	0.61	12	0.07	0.07	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.03	0.03						
19	0.95	18	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03

Application for NPT

Applicable thread	TPI (TPI/inch)	Internal threading		
		Toolholder	Insert	
			Partial profile	Full profile
1/16 NPT 1/8 NPT	27	No tools available		
1/4 NPT 3/8 NPT	18	EZH sleeve	EZTR060050-60-004 EZTR070060-60-004	—
1/2 NPT 3/4 NPT	14	EZH sleeve	EZTR070060-60-004	—
1/2 NPT 3/4 NPT	14	SINR1616S-16 SINR2016S-16	—	16LR14NPT

Application of NPTF thread

NPTF is the thread for sealing pipes without using any sealing material

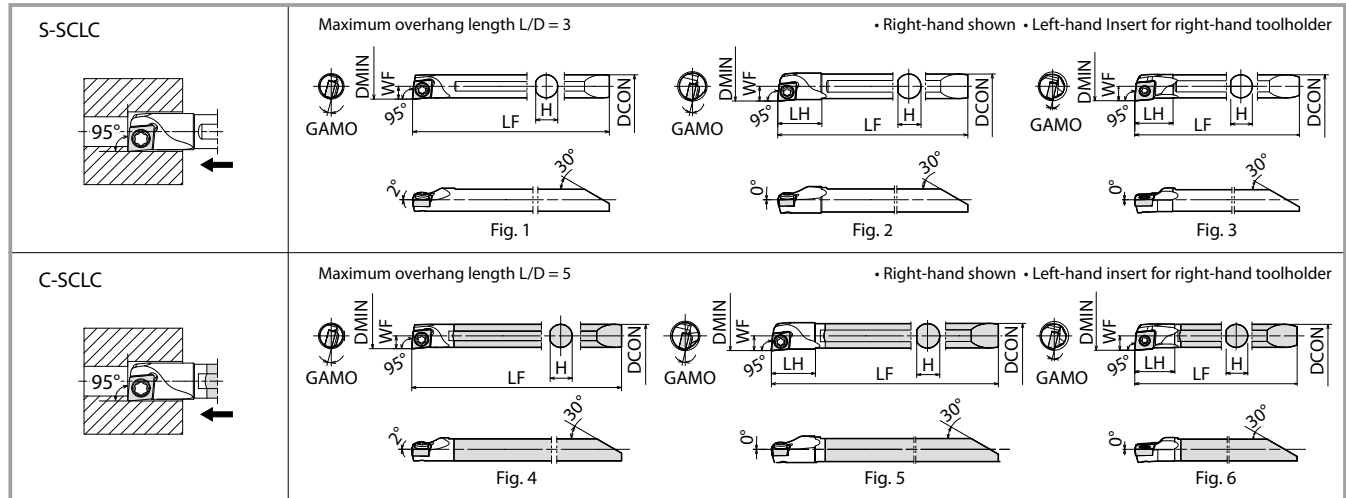
Thread symbol is similar to NPT but the tolerance is different from that of NPT, therefore the above inserts are not available for NPTF

ap & number of passes (American national pipe)

TPI (TPI/ inch)	Total ap (mm)	No. of passes (Times)	1 Pass	2 Pass	3 Pass	4 Pass	5 Pass	6 Pass	7 Pass	8 Pass	9 Pass	10 Pass	11 Pass	12 Pass	13 Pass	14 Pass	15 Pass	16 Pass	17 Pass	18 Pass	19 Pass
18	1.23	16	0.18	0.14	0.12	0.12	0.10	0.09	0.08	0.08	0.07	0.06	0.05	0.04	0.03	0.03	0.02	0.02			
14	1.56	19	0.18	0.16	0.14	0.14	0.12	0.10	0.09	0.09	0.08	0.07	0.07	0.06	0.05	0.05	0.04	0.04	0.03	0.03	0.02

Applicable inserts: □ 045X... = CC...03... □ 050X... = CC...03...
 □ 060X... = CC...04... □ 070X... = CC...04...
 □ 080X... = CC...06...

Toolholder dimensions

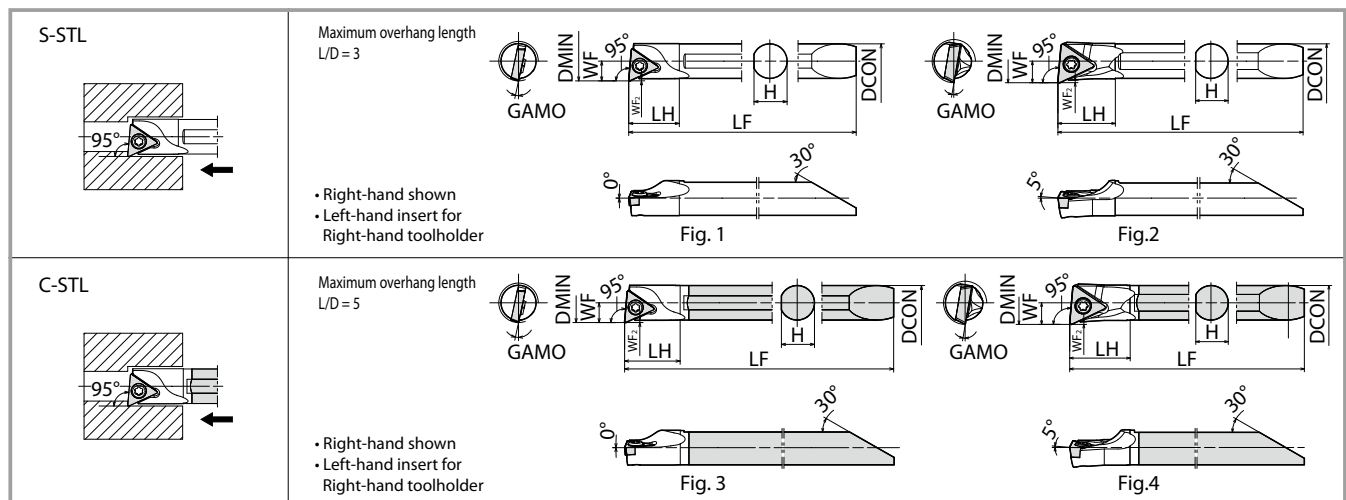


Description		Avail- ability	Min. bore dia.	Dimensions (mm)					GAMO	Std. corner- R(RE)	Coolant hole	Drawing	Spare parts		Applicable sleeve
		R	DMIN	DCON	H	LF	LH	WF					Clamp screw	Wrench	
Steel	S045X-SCLCR03-050EZP	●	5	4.5	4.3	42.4	—	2.5	15°	0.2	No	Fig.1	SB-1635TR	FT-6	EZH045...
	S050X-SCLCR03-060EZP	●	6	5	4.7	48.4	9	3	13°			Fig.2			EZH050...
	S060X-SCLCR04-070EZP	●	7	6	5.7	54.4	10	3.5	11°			Fig.2	SB-2035TR	FT-8	EZH060...
	S070X-SCLCR04-080EZP	●	8	7	6.7	60.4	10.3	4	14°			Fig.3	SB-2545TR		EZH070...
	S080X-SCLCR06-100EZP	●	10	8	7.5	69.5	13.3	5	14°			Fig.3	SB-2545TR		EZH080...
Carbide	C045X-SCLCR03-050EZP	●	5	4.5	4.3	51.4	—	2.5	15°	0.2	No	Fig.4	SB-1635TR	FT-6	EZH045...
	C050X-SCLCR03-060EZP	●	6	5	4.7	58.4	9	3	13°			Fig.5			EZH050...
	C060X-SCLCR04-070EZP	●	7	6	5.7	66.4	10	3.5	11°			Fig.5	SB-2035TR	FT-8	EZH060...
	C070X-SCLCR04-080EZP	●	8	7	6.7	74.4	11	4	14°			Fig.6	SB-2545TR		EZH070...
	C080X-SCLCR06-100EZP	●	10	8	7.5	85.5	14	5	14°			Fig.6	SB-2545TR		EZH080...

● : Available

Toolholder dimensions

Applicable inserts: □ 070X... = TB...06...
 □ 080X... = TP...09...



Description		Avail- ability	Min. bore dia.	Dimensions (mm)					GAMO	Std. corner- R(RE)	Coolant hole	Drawing	Spare parts		Applicable sleeve
		R	DMIN	DCON	H	LF	LH	WF					Clamp screw	Wrench	
Steel	S070X-STLBR06-080EZP *	●	8	7	6.7	60.4	10.3	4	0.4	12°	No	Fig.1	SB-2035TR	FT-6	EZH070...
	S080X-STLPR09-100EZP	●	10	8	7.5	69.5	13.3	5	0.5	10°		Fig.2	SB-2545TR	FT-8	EZH080...
Carbide	C070X-STLBR06-080EZP *	●	8	7	6.7	74.4	11	4	0.4	12°		Fig.3	SB-2035TR	FT-6	EZH070...
	C080X-STLPR09-100EZP	●	10	8	7.5	85.5	14	5	0.5	10°		Fig.4	SB-2545TR	FT-8	EZH080...

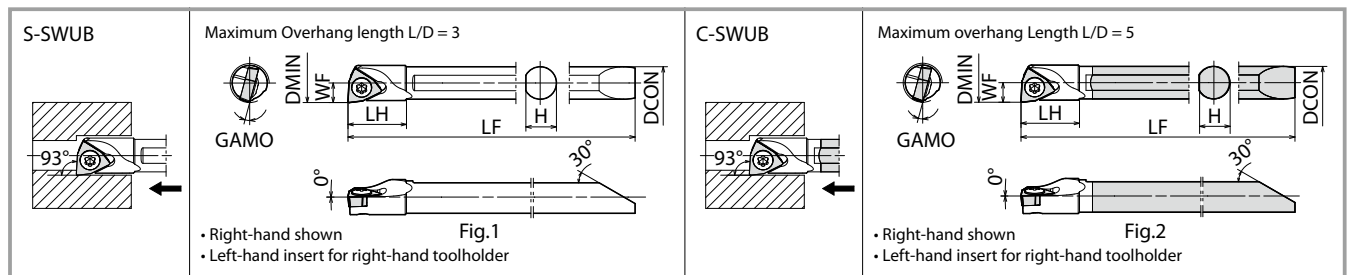
*TB**06**08 Inserts cannot be used

● : Available

EZ Bar PLUS (Indexable boring bar)

Toolholder dimensions

Applicable Inserts: ☐ 050X... = WB...06... ☐ 060X... = WB...06...
☐ 070X... = WB...08...

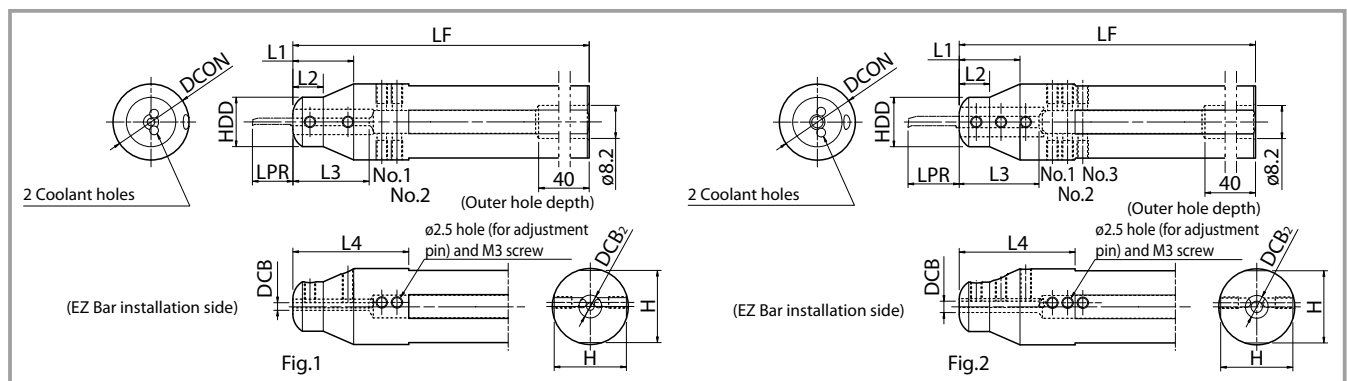


Description		Availability	Min. bore dia.	Dimensions (mm)					GAMO	Std. Corner-R(RE)	Coolant Hole	Drawing	Spare parts		Applicable sleeve
				Clamp screw		Wrench									
															
Steel	S050X-SWUBR06-060EZP	●	6	5	4.7	48.4	9	3	15°	0.2	No	Fig.1	SB-2035TR	FT-6	EZH050...
	S060X-SWUBR06-070EZP	●	7	6	5.7	54.4	10	3.5	13°						EZH060...
	S070X-SWUBR08-080EZP	●	8	7	6.7	60.4	10.3	4	15°						EZH070...
Carbide	C050X-SWUBR06-060EZP	●	6	5	4.7	58.4	9	3	15°	0.2	No	Fig.2	SB-2035TR	FT-6	EZH050...
	C060X-SWUBR06-070EZP	●	7	6	5.7	66.4	10	3.5	13°						EZH060...
	C070X-SWUBR08-080EZP	●	8	7	6.7	74.4	11	4	15°						EZH070...

●: Available

Applicable sleeve

With coolant hole and EZ adjust structure



Sleeve dimensions

Description	Availability	Dimensions (mm)										Bar overhang length LPR (mm)				Drawing	Applicable EZ Bar		
												Adjustment pin setting							
		DCB	DCON	HDD	DCB ₂	H	LF	L1	L2	^a L3	L4	No.1	No.2	No.3	No.4				
EZH	01719CT-120	●	19.05	13	6	18	120	16	8	16	30.5	7.5	3.5	—	—	Fig.1	EZBR...017...		
	01720CT-120	●	20			19	120				41.5								
	01722CT-135	●	22			21	135				24							135	30.5
	01725.0CT-135	●	25			24	135				24.4							120	
	01725.4CT-120	●	25.4			24.4	120												
EZH	02019CT-120	●	19.05	13	6	18	120	16	8	20	30.5	8.5	4.5	—	—	Fig.1	EZB ^R /L...020...		
	02020CT-120	●	20			19	120				41.5								
	02022CT-135	●	22			21	135				24							135	30.5
	02025.0CT-135	●	25			24	135				24.4							120	
	02025.4CT-120	●	25.4			24.4	120												
EZH	02519CT-120	●	19.05	13	6	18	120	16	8	20	30.5	11	7	—	—	Fig.1	EZB ^R /L...025... EZTR...025...		
	02520CT-120	●	20			19	120				41.5								
	02522CT-135	●	22			21	135				24							135	30.5
	02525.0CT-135	●	25			24	135				24.4							120	
	02525.4CT-120	●	25.4			24.4	120												
EZH	03019CT-120	●	19.05	13	6	18	120	16	8	21	30.5	13.5	9.5	5.5	—	Fig.2	EZB ^R /L...030... EZBFR...030... EZVBR...030... EZGR...030... EZTR...030...		
	03020CT-120	●	20			19	120				41.5								
	03022CT-135	●	22			21	135				24							135	30.5
	03025.0CT-135	●	25			24	135				24.4							120	
	03025.4CT-120	●	25.4			24.4	120												
EZH	03519CT-120	●	19.05	13	6	18	120	16	8	21	31.1	15.5	11.5	7.5	—	Fig.2	EZB ^R /L...035... EZTR...035...		
	03520CT-120	●	20			19	120				41.5								
	03522CT-135	●	22			21	135				24							135	31.1
	03525.0CT-135	●	25			24	135				24.4							120	
	03525.4CT-120	●	25.4			24.4	120												

*1. L3 shows DCB length

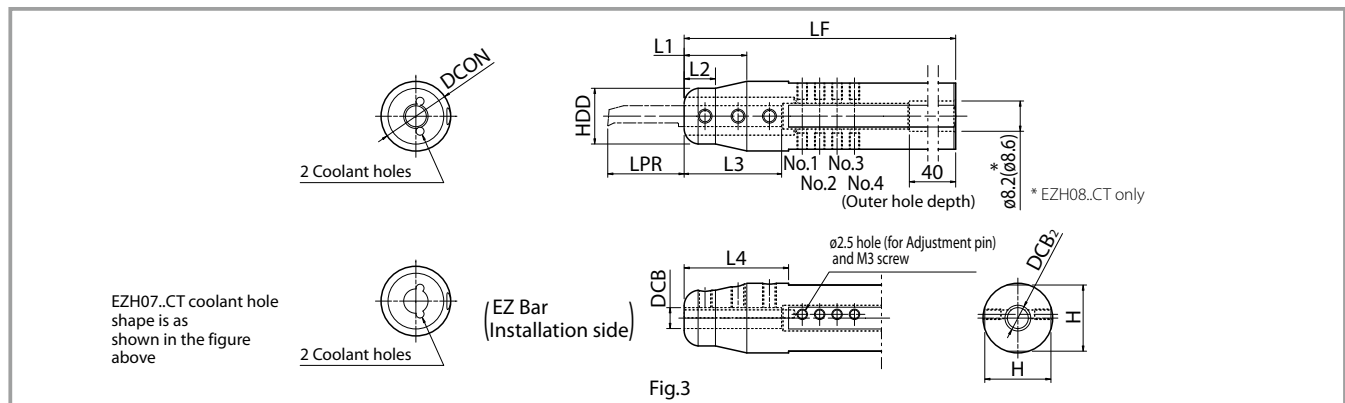
*2. LPR shows overhang length of the EZB Bar (except for long type) when attached to sleeve

Choose sleeves (DCB) to meet with DCON dimension of bar

A hole on the rear end of sleeve is prepared hole for Rc1/8 threading. Please modify by additional processing if necessary. The body hardness is 42HRC

●: Available

Applicable sleeve



Sleeve dimensions

Description	Availability	Dimensions (mm)										Bar overhang length ²⁾ LPR (mm)				Drawing	Applicable EZ Bar		
												Adjustment pin setting							
		DCB	DCON	HDD	DCB ₂	H	LF	L1	L2	¹⁾ L3	L4	No.1	No.2	No.3	No.4				
EZH	04019CT-120	●	4	19.05	13	6	18	120	16	8	22	32.7	20.5	16.5	12.5	8.5	Fig.3	EZB ^R /L...040... EZBFR...040... EZBTR...040... EZVBR...040... EZG ^R /L...040... EZFG ^R /L...040... EZTR...040...	
	04020CT-120	●		20			19	120											
	04022CT-135	●		22			21	135				41.5							
	04025.0CT-135	●		25			24	135											
	04025.4CT-135	●		25.4			24.4	120				32.7							
EZH	04519CT-120	●	4.5	19.05	16	6	18	120	18	9	23	30.0	23 (14)	18.5 (9.5)	14 (-)	9.5 (-)	Fig.3	EZB ^R /L...045... _045X-...-050EZP	
	04520CT-120	●		20			19	120											
	04522CT-135	●		22			21	135				44.0							
	04525.0CT-135	●		25			24	135				30.0							
	04525.4CT-120	●		25.4			24.4	120											
EZH	05019CT-120	●	5	19.05	16	6	18	120	18	9	26	30.0	25.5 (15.5)	20.5 (10.5)	15.5 (-)	10.5 (-)	Fig.3	EZB ^R /L...050... EZBFR...050... EZBTR...050... EZVBR...050... EZG ^R /L...050... EZFG ^R /L...050... EZTR...050... _050X-...-060EZP	
	05020CT-120	●		20			19	120											
	05022CT-135	●		22			21	135				44.0							
	05025.0CT-135	●		25			24	135				30.0							
	05025.4CT-120	●		25.4			24.4	120											
EZH	06019CT-120	●	6	19.05	16	7.4	18	120	18	9	28	30.0	30.5 (18.5)	25.5 (13.5)	20.5 (-)	15.5 (-)	Fig.3	EZB ^R /L...060... EZBFR...060... EZVBR...060... EZG ^R /L...060... EZTR...060... _060X-...-070EZP	
	06020CT-120	●		20			19	120											
	06022CT-135	●		22			21	135				41.5							
	06025.0CT-135	●		25			24	135				30.0							
	06025.4CT-120	●		25.4			24.4	120											
EZH	07019CT-120	●	7	19.05	16	7.4	18	120	18	9	29	30.0	35.5 (21.5)	30.5 (16.5)	25.5 (11.5)	20.5 (-)	Fig.3	EZB ^R /L...070... EZG ^R /L...070... EZFG ^R /L...070... EZTR...070... _070X-...-080EZP	
	07020CT-120	●		20			19	120											
	07022CT-135	●		22			21	135				44.0							
	07025.0CT-135	●		25			24	135				30.0							
	07025.4CT-120	●		25.4			24.4	120											
EZH	08019CT-120	●	8	19.05	16	8.6	18	120	18	9	33	34.0	40.5 (24.5)	35.5 (19.5)	30.5 (14.5)	25.5 (-)	Fig.3	EZB ^R /L...080... _080X-...-100EZP	
	08020CT-120	●		20			19	120											
	08022CT-135	●		22			21	135				44.0							
	08025.0CT-135	●		25			24	135				34.0							
	08025.4CT-120	●		25.4			24.4	120											

*1. L3 shows DCB length

*2. LPR shows overhang length of the EZB Bar (except for long type) when attached to sleeve

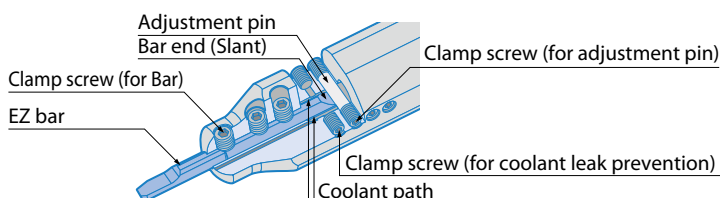
() value indicates the overhang length when installed the steel boring bar (EZ Bar PLUS)

Choose sleeves (DCB) to meet with DCON dimension of bar

A hole on the rear end of sleeve is prepared hole for Rc1/8 threading. Please modify by additional processing if necessary. The body hardness is 42HRC

●: Available

EZH-CT internal structure

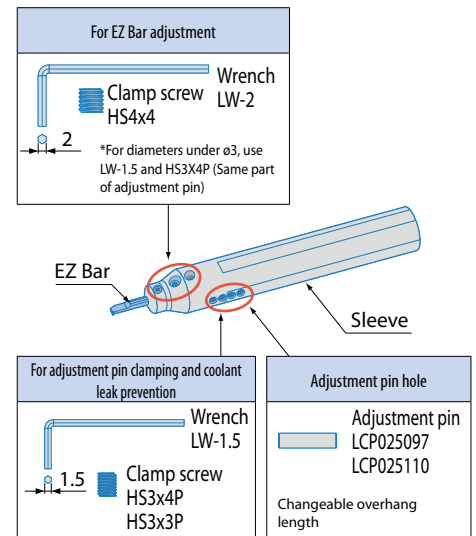


Parts (For EZH-CT sleeves)

Description	Spare parts				
	Adjustment pin	Clamp screw (for adjustment pin)	Wrench	Clamp screw (for Bar)	Wrench
EZH 017...CT-..	LCP025097	HS3X4P (for adjustment pin and liquid leak prevention)	LW-1.5 Tightening torque 1N·m	HS3X4P	LW-1.5 Tightening torque 1N·m
020...CT-..					
025...CT-..					
030...CT-..					
EZH 035...CT-..	LCP025097	HS3X4P (for adjustment pin and liquid leak prevention)	LW-1.5 Tightening torque 1N·m	HS4X4P (for bar)	LW-2 Tightening torque 2N·m
040...CT-..					
045...CT-..					
050...CT-..					
060...CT-..					
070...CT-..					
080...CT-..	LCP025110	HS3X3P (for adjustment pin and liquid leak prevention)			

1) If shank dia. is $\varnothing 2.5$ mm or less,
use clamp screw (HS3X4P)
For adjustment pin 2 pcs
For liquid leak prevention 2 pcs
For EZ Bar 2 pcs

2) If shank dia. is $\varnothing 3$ mm,
use clamp screw (HS3X4P)
For adjustment pin 2 pcs
For liquid leak prevention 4 pcs
For EZ Bar 3 pcs



EZ Bar mounting procedure (EZH-CT sleeve)

How to use adjustment pin and prevent liquid leak (Fig. 4)

- (1) Put the adjustment pin into the hole. Push it into the sleeve, using the wrench "LW-1.5"
- (2) Tighten the clamp screw for the adjustment pin (HS3X4P, HS3X3P) using the wrench (LW-1.5) from the both sides of the sleeve
- (3) Put the clamp screws (HS3X4P, HS3X3P) into the holes for liquid leak prevention, using the wrench (LW-1.5) and fix them from the both sides of the sleeve

How to secure bar (Fig.5)

- (1) With the chip pocket upward, set the bar in sleeve. Press the slant of the end of the bar against the adjustment pin
Make sure that the bar does not rotate (Fig.6)
- (2) Tighten the clamp screw with wrench "LW-2" and secure the bar
(Use "LW-1.5" if shank dia. is 3 mm or less)

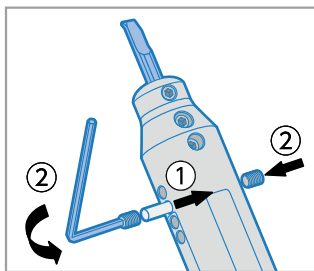


Fig. 4 How to use adjustment pin

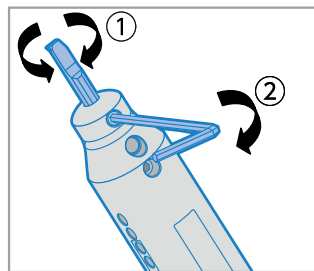


Fig. 5 How to secure bar

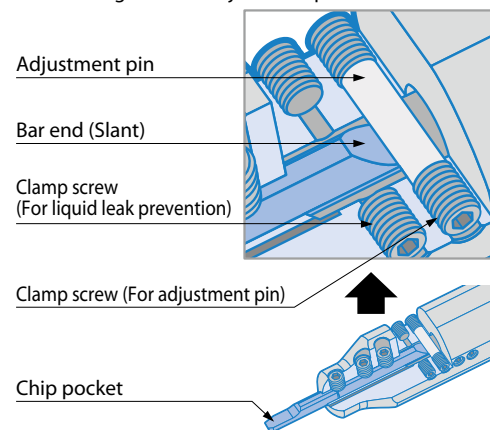


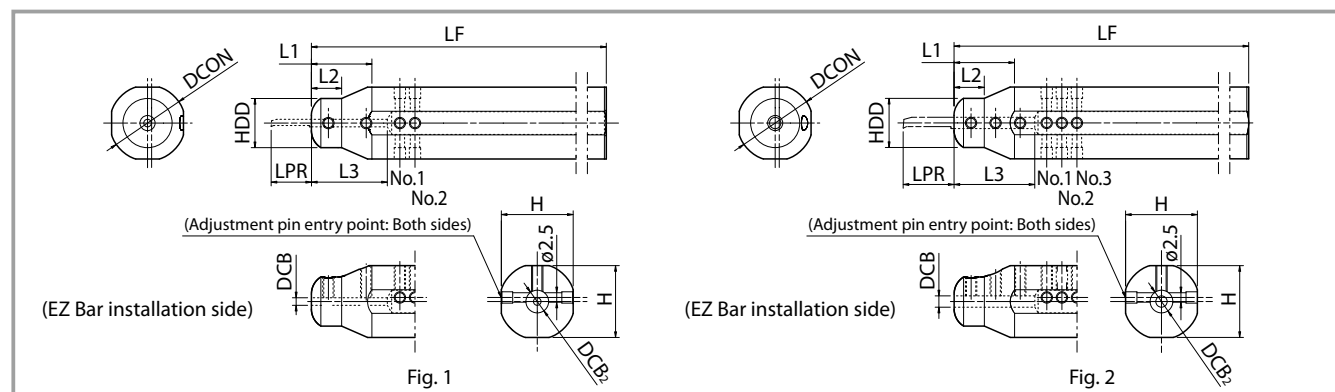
Fig. 6 clamped bar

Sleeve identification system

EZ	H	020	19	CT	-	120
Bar symbol (EZ Bar)	Application H: Sleeve	Shank dia. of EZ Bar 020: 2.0 mm 025: 2.5 mm	Sleeve shank dia. 19: 19.05 mm 25.4: 25.4 mm	Precision symbol CT: With coolant hole and EZ adjust structure HP: EZ adjust structure ST: Standard		Overall length of sleeve 120: 120 mm 135: 135 mm

Applicable sleeve

EZ adjust
structure



Sleeve dimensions

Description	Avail-ability	Dimensions (mm)									Bar overhang length ² LPR (mm)				Drawing	Applicable EZ Bar
		DCB	DCON	HDD	DCB ₂	H	LF	L1	L2	L3	Adjustment pin setting					
											No.1	No.2	No.3	No.4		
EZH 01716HP-100	●	1.7	16	13	6	15	100	16	8	16	7.5	3.5	—	—	Fig.1	EZBR...017...
01719HP-120	●		19.05			18	120									
01720HP-120	●		20			19	120									
01722HP-135	●		22			21	135									
01725.0HP-135	●		25			24	135									
01725.4HP-120	●		25.4			24.4	120									
EZH 02016HP-100	●	2	16	13	6	15	100	16	8	20	8.5	4.5	—	—	Fig.1	EZB ^{R/L} ...020...
02019HP-120	●		19.05			18	120									
02020HP-120	●		20			19	120									
02022HP-135	●		22			21	135									
02025.0HP-135	●		25			24	135									
02025.4HP-120	●		25.4			24.4	120									
EZH 02516HP-100	●	2.5	16	13	6	15	100	16	8	20	11	7	—	—	Fig.1	EZB ^{R/L} ...025... EZTR...025...
02519HP-120	●		19.05			18	120									
02520HP-120	●		20			19	120									
02522HP-135	●		22			21	135									
02525.0HP-135	●		25			24	135									
02525.4HP-120	●		25.4			24.4	120									
EZH 03016HP-100	●	3	16	13	6	15	100	16	8	21	13.5	9.5	5.5	—	Fig.2	EZB ^{R/L} ...030... EZBFR...030... EZVBR...030... EZGR...030... EZTR...030...
03019HP-120	●		19.05			18	120									
03020HP-120	●		20			19	120									
03022HP-135	●		22			21	135									
03025.0HP-135	●		25			24	135									
03025.4HP-120	●		25.4			24.4	120									
EZH 03516HP-100	●	3.5	16	13	6	15	100	16	8	22	15.5	11.5	7.5	—	Fig.2	EZB ^{R/L} ...035... EZTR...035...
03519HP-120	●		19.05			18	120									
03520HP-120	●		20			19	120									
03522HP-135	●		22			21	135									
03525.0HP-135	●		25			24	135									
03525.4HP-120	●		25.4			24.4	120									
EZH 04016HP-100	●	4	16	13	6	15	100	16	8	24	20.5	16.5	12.5	8.5	Fig.4	EZB ^{R/L} ...040... EZBFR...040... EZBTR...040... EZVBR...040... EZG ^{R/L} ...040... EZFG ^{R/L} ...040... EZTR...040...
04019HP-120	●		19.05			18	120									
04020HP-120	●		20			19	120									
04022HP-135	●		22			21	135									
04025.0HP-135	●		25			24	135									
04025.4HP-120	●		25.4			24.4	120									

*1. L3 shows DCB length

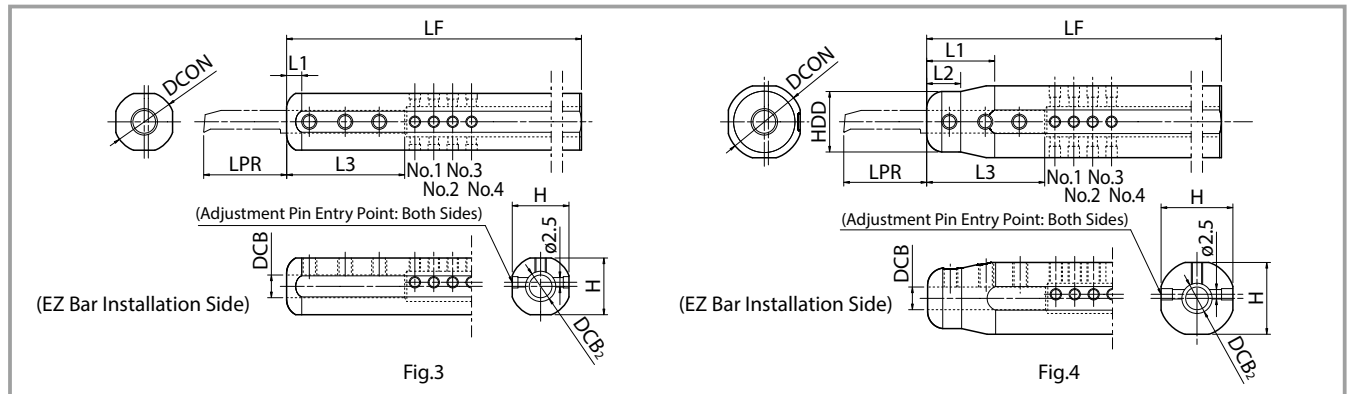
*2. LPR shows overhang length of the EZB Bar when attached to sleeve
Choose sleeves (DCB) to meet with DCON dimension of bar

● : Available

Parts (For EZH-HP sleeves)

Description	Spare parts				
	Adjustment pin	Clamp screw (for adjustment pin)	Wrench	Clamp screw (for bar)	Wrench
EZH 017...HP-...	LCP025140	HS3X4P (for both adjustment pin and bar)	LW-1.5 Tightening torque 1N·m	HS3X4P	LW-1.5 Tightening torque 1N·m
020...HP-...					
025...HP-...					
030...HP-...					
EZH 035...HP-...	LCP025140	HS3X4P	LW-1.5 Tightening torque 1N·m	HS4X4P	LW-2 Tightening torque 2N·m
040...HP-...					
045...HP-...					
050...HP-...					
060...HP-...					
070...HP-...					
080...HP-...					

Applicable sleeve



Sleeve dimensions

Description	Availability	Dimensions (mm)									Bar overhang length ^{*2} LPR (mm)				Drawing	Applicable EZ Bar	
											Adjustment pin setting						
		DCB	DCON	HDD	DCB ₂	H	LF	L1	L2	^{*1} L3	No.1	No.2	No.3	No.4			
EZH	04516HP-100	●	4.5	16	16	6	15	100	4	—	25.3	23 (14)	18.5 (9.5)	14 (—)	9.5 (—)	Fig.3	EZB ^{R/L} ...045... _045X...-050EZP
	04519HP-120	●		19.05			18	120	18	9							
	04520HP-120	●		20			19	120									
	04522HP-135	●		22			21	135									
	04525.0HP-135	●		25			24	135									
	04525.4HP-120	●		25.4			24.4	120									
EZH	05016HP-100	●	5	16	16	6	15	100	4	—	29	25.5 (15.5)	20.5 (10.5)	15.5 (—)	10.5 (—)	Fig.3	EZB ^{R/L} ...050... EZBFR...050... EZBTR...050... EZVBR...050... EZG ^{R/L} ...050... EZFG ^{R/L} ...050... EZTR...050... _050X...-060EZP
	05019HP-120	●		19.05			18	120	18	9							
	05020HP-120	●		20			19	120									
	05022HP-135	●		22			21	135									
	05025.0HP-135	●		25			24	135									
	05025.4HP-120	●		25.4			24.4	120									
EZH	06016HP-100	●	6	16	16	8	15	100	4	—	31	30.5 (18.5)	25.5 (13.5)	20.5 (—)	15.5 (—)	Fig.3	EZB ^{R/L} ...060... EZBFR...060... EZBTR...060... EZVBR...060... EZG ^{R/L} ...060... EZTR...060... _060X...-070EZP
	06019HP-120	●		19.05			18	120	18	9							
	06020HP-120	●		20			19	120									
	06022HP-135	●		22			21	135									
	06025.0HP-135	●		25			24	135									
	06025.4HP-120	●		25.4			24.4	120									
EZH	07016HP-100	●	7	16	16	8	15	100	4	—	33	35.5 (21.5)	30.5 (16.5)	25.5 (11.5)	20.5 (—)	Fig.3	EZB ^{R/L} ...070... EZG ^{R/L} ...070... EZFG ^{R/L} ...070... EZTR...070... _070X...-080EZP
	07019HP-120	●		19.05			18	120	18	9							
	07020HP-120	●		20			19	120									
	07022HP-135	●		22			21	135									
	07025.0HP-135	●		25			24	135									
	07025.4HP-120	●		25.4			24.4	120									
EZH	08019HP-120	●	8	19.05	16	8.4	18	120	18	9	37	40.5 (24.5)	35.5 (19.5)	30.5 (14.5)	25.5 (—)	Fig.4	EZB ^{R/L} ...080... _080X...-100EZP
	08020HP-120	●		20			19	120									
	08022HP-135	●		22			21	135									
	08025.0HP-135	●		25			24	135									
	08025.4HP-120	●		25.4			24.4	120									

*1. L3 shows DCB length *2. LPR shows overhang length of the EZB Bar when attached to sleeve

() value indicates the overhang length when installed the steel boring bar (EZ Bar PLUS). Choose sleeves (DCB) to meet with DCON dimension of bar

● : Available

Sleeve identification system

EZ	H	017	16	HP - 100	
Bar symbol (EZ Bar)	Application H: Sleeve	Shank dia. of EZ Bar 017: 1.7 mm 025: 2.5 mm	Sleeve shank dia. 16: 16 Mm 25.4: 25.4 Mm	Precision symbol CT: with coolant hole and EZ adjust structure Hp: EZ adjust structure St: standard	Overall length of sleeve 100: 100 mm 120: 120 mm

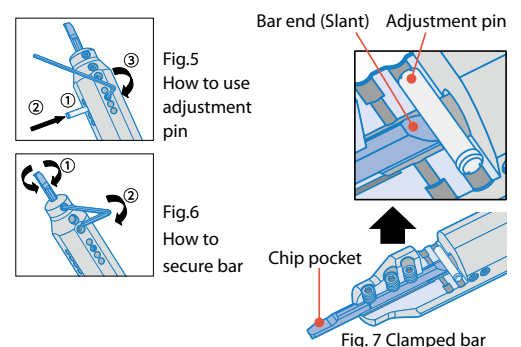
EZ Bar mounting procedure (EZH-HP sleeve)

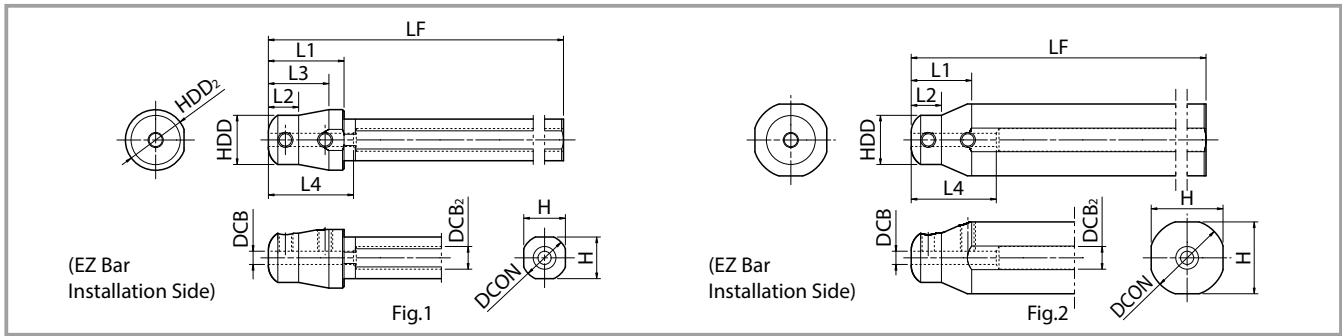
How to use adjustment pin (Fig. 5)

- (1) Put the adjustment pin into the hole
- (2) Push it into the sleeve, using the wrench "LW-1.5"
- (3) Tighten the clamp screw "HS3x4P" with wrench "LW-1.5" to fix the adjustment screw

How to secure bar (Fig. 6)

- (1) With the chip pocket upward, set the bar in sleeve. Press the slant of the end of the bar against the adjustment pin. Make sure that the bar does not rotate (Fig.7)
- (2) Tighten the clamp screw with wrench "LW-2" and secure the bar
(Use "LW-1.5" if shank dia. is 3 mm or less)





Sleeve dimensions

Description	Avail- ability	Dimensions (mm)											Drawing	Applicable EZ Bar
		DCB	DCON	HDD	HDD ₂	DCB ₂	H	LF	L1	L2	L3	L4		
EZH 01712ST-80	●	1.7	12	13	16	6	11	80	20	8	16	16	Fig.1	EZBR...017...
01716ST-100	●		16		15		100							
01719ST-120	●		19.05		18		120							
01720ST-120	●		20		19		120							
01722ST-135	●		22		21		135							
01725.0ST-135	●		25		24		135							
01725.4ST-120	●		25.4		24.4		120							
EZH 02012ST-80	●	2	12	13	16	6	11	80	20	8	16	20	Fig.1	EZB ^{R/L} ...020...
02016ST-100	●		16		15		100							
02019ST-120	●		19.05		18		120							
02020ST-120	●		20		19		120							
02022ST-135	●		22		21		135							
02025.0ST-135	●		25		24		135							
02025.4ST-120	●		25.4		24.4		120							
EZH 02512ST-80	●	2.5	12	13	16	6	11	80	20	8	16	20	Fig.1	EZB ^{R/L} ...025... EZTR...025...
02516ST-100	●		16		15		100							
02519ST-120	●		19.05		18		120							
02520ST-120	●		20		19		120							
02522ST-135	●		22		21		135							
02525.0ST-135	●		25		24		135							
02525.4ST-120	●		25.4		24.4		120							
EZH 03012ST-80	●	3	12	13	16	6	11	80	20	8	16	21	Fig.1	EZB ^{R/L} ...030... EZBFR...030... EZVBR...030... EZGR...030... EZTR...030...
03016ST-100	●		16		15		100							
03019ST-120	●		19.05		18		120							
03020ST-120	●		20		19		120							
03022ST-135	●		22		21		135							
03025.0ST-135	●		25		24		135							
03025.4ST-120	●		25.4		24.4		120							
EZH 03512ST-80	●	3.5	12	13	16	6	11	80	20	8	16	22	Fig.1	EZB ^{R/L} ...035... EZTR...035...
03516ST-100	●		16		15		100							
03519ST-120	●		19.05		18		120							
03520ST-120	●		20		19		120							
03522ST-135	●		22		21		135							
03525.0ST-135	●		25		24		135							
03525.4ST-120	●		25.4		24.4		120							
EZH 04012ST-80	●	4	12	13	16	6	11	80	20	8	16	24	Fig.1	EZB ^{R/L} ...040... EZBFR...040... EZBTR...040... EZVBR...040... EZG ^{R/L} ...040... EZFG ^{R/L} ...040... EZTR...040...
04016ST-100	●		16		15		100							
04019ST-120	●		19.05		18		120							
04020ST-120	●		20		19		120							
04022ST-135	●		22		21		135							
04025.0ST-135	●		25		24		135							
04025.4ST-120	●		25.4		24.4		120							

*L4 shows DCB length

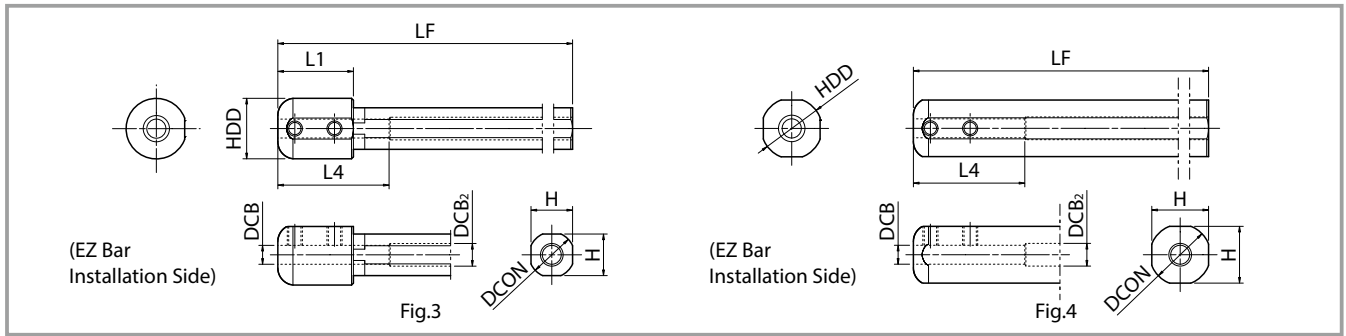
Choose sleeves (DCB) to meet with DCON dimension of bar

Adjustment pin cannot be installed to EZH-ST sleeves. To adjust overhang of the bar, please use EZH-CT / HP sleeves

●: Available

Applicable sleeve

NOT adjustable



Sleeve dimensions

Description	Availability	Dimensions (mm)											Drawing	Applicable EZ Bar	
		DCB	DCON	HDD	HDD ₂	DCB ₂	H	LF	L1	L2	L3	L4			
EZH	05012ST-80	●	5	12	16	—	6	11	80	20	—	—	29	Fig.3	EZB ^R / _L ...050... EZBFR...050... EZBTR...050... EZVBR...050... EZG ^R / _L ...050... EZFG ^R / _L ...050... EZTR...050... _050X...-060EZP
	05016ST-100	●		16				15	100	—					
	05019ST-120	●		19.05				18	120						
	05020ST-120	●		20				19	120						
	05022ST-135	●		22				21	135	18	9				
	05025.0ST-135	●		25				24	135						
	05025.4ST-120	●		25.4				24.4	120						
EZH	06012ST-80	●	6	12	16	—	8	11	80	20	—	—	31	Fig.3	EZB ^R / _L ...060... EZBFR...060... EZVBR...060... EZG ^R / _L ...060... EZTR...060... _060X...-070EZP
	06016ST-100	●		16				15	100	—					
	06019ST-120	●		19.05				18	120						
	06020ST-120	●		20				19	120						
	06022ST-135	●		22				21	135	18	9				
	06025.0ST-135	●		25				24	135						
	06025.4ST-120	●		25.4				24.4	120						
EZH	07012ST-80	●	7	12	16	—	8	11	80	20	—	—	33	Fig.3	EZB ^R / _L ...070... EZG ^R / _L ...070... EZFG ^R / _L ...070... EZTR...070... _070X...-080EZP
	07016ST-100	●		16				15	100	—					
	07019ST-120	●		19.05				18	120						
	07020ST-120	●		20				19	120						
	07022ST-135	●		22				21	135	18	9				
	07025.0ST-135	●		25				24	135						
	07025.4ST-120	●		25.4				24.4	120						
EZH	08016ST-100	●	8	16	16	—	8.4	15	100	—	—	—	37	Fig.4	EZB ^R / _L ...080... _080X...-100EZP
	08019ST-120	●		19.05				18	120						
	08020ST-120	●		20				19	120						
	08022ST-135	●		22				21	135	18					
	08025.0ST-135	●		25				24	135						
	08025.4ST-120	●		25.4				24.4	120						

*L4 shows DCB length

Choose sleeves (DCB) to meet with DCON dimension of bar

Adjustment pin cannot be installed to EZH-ST sleeves. To adjust overhang of the bar, please use EZH-CT / HP sleeves

● : Available

Parts (For EZH-ST sleeves)

Description	Spare parts		Applicable EZ Bar		EZ Bar PLUS
	Clamp screw	Wrench	EZB-HP EZB-HP-LT EZB-ST EZB-NB	EZBF EZBT EZVB EZG EZFG EZT	
EZH 017...ST-...	HS3X4P	LW-1.5 Tightening torque 1N·m	EZBR...017...	-	-
EZH 020...ST-...			EZB R/L...020...		-
EZH 025...ST-...			EZB R/L...025...		-
EZH 030...ST-...			EZB R/L...030...		-
EZH 035...ST-...	HS3X4P	LW-2 Tightening torque 2N·m	EZB R/L...035...	EZTR...035...	-
EZH 040...ST-...			EZB R/L...040...	EZ_R...040...	-
EZH 050...ST-...			EZB R/L...050...	EZ_R...050...	_050X...-060EZP
EZH 060...ST-...			EZB R/L...060...	EZ_R...060...	_060X...-070EZ(P)
EZH 070...ST-...			EZB R/L...070...	EZ_R...070...	_070X...-080EZP
EZH 080...ST-...			EZB R/L...080...	-	_080X...-100EZP

Applicable sleeves for machine manufacturers

Sleeve description				Applicable EZ Bar				Applicable machine manufacturer
EZH-CT (EZ adjust structure and with coolant hole)	EZH-HP (Adjustable)	EZH-ST	Sleeve shank dia. DCON (mm)	EZB	EZBF • EZBT • EZVB • EZG • EZFG • EZT	EZ Bar PLUS	Shank dia. DCON (mm)	
—	—	EZH 01712ST-80	12	EZBR ...017...	—	—	1.7	(General machines)
		02012ST-80		EZB R/L ...020...			2	
		02512ST-80		EZB R/L ...025...			2.5	
		03012ST-80		EZB R/L ...030...			3	
		03512ST-80		EZB R/L ...035...			3.5	
		04012ST-80		EZB R/L ...040...			4	
		05012ST-80		EZB R/L ...050...			5	
		06012ST-80		EZB R/L ...060...			6	
		07012ST-80		EZBR ...070...			7	
—	EZH 01716HP-100	EZH 01716ST-100	16	EZBR ...017...	—	—	1.7	(General machines)
	02016HP-100	02016ST-100		EZB R/L ...020...			2	
	02516HP-100	02516ST-100		EZB R/L ...025...			2.5	
	03016HP-100	03016ST-100		EZB R/L ...030...			3	
	03516HP-100	03516ST-100		EZB R/L ...035...			3.5	
	04016HP-100	04016ST-100		EZB R/L ...040...			4	
	04516HP-100	—		EZB R/L ...045...	—	S/c 045X- ...-050EZ(P)	4.5	
	05016HP-100	05016ST-100		EZB R/L ...050...	EZ050...	S/c 050X- ...-060EZP	5	
	06016HP-100	06016ST-100		EZB R/L ...060...	EZ060...	S/c 060X- ...-070EZ(P)	6	
	07016HP-100	07016ST-100		EZBR ...070...	EZ070...	S/c 070X- ...-080EZP	7	
	—	08016ST-100		EZB R/L ...080...	—	S/c 080X- ...-100EZP	8	
EZH 01719CT-120	EZH 01719HP-120	EZH 01719ST-120	19.05	EZBR ...017...	—	—	1.7	Citizen Machinery
02019CT-120	02019HP-120	02019ST-120		EZB R/L ...020...			2	
02519CT-120	02519HP-120	02519ST-120		EZB R/L ...025...			2.5	
03019CT-120	03019HP-120	03019ST-120		EZB R/L ...030...			3	
03519CT-120	03519HP-120	03519ST-120		EZB R/L ...035...			3.5	
04019CT-120	04019HP-120	04019ST-120		EZB R/L ...040...	EZ040...		4	
04519CT-120	04519HP-120	—		EZB R/L ...045...	—	S/c 045X- ...-050EZ(P)	4.5	
05019CT-120	05019HP-120	05019ST-120		EZB R/L ...050...	EZ050...	S/c 050X- ...-060EZP	5	
06019CT-120	06019HP-120	06019ST-120		EZB R/L ...060...	EZ060...	S/c 060X- ...-070EZ(P)	6	
07019CT-120	07019HP-120	07019ST-120		EZBR ...070...	EZ070...	S/c 070X- ...-080EZP	7	
08019CT-120	08019HP-120	08019ST-120		EZB R/L ...080...	—	S/c 080X- ...-100EZP	8	
EZH 01720CT-120	EZH 01720HP-120	EZH 01720ST-120	20	EZBR ...017...	—	—	1.7	Eguro Tsugami Citizen Machinery (General machines)
02020CT-120	02020HP-120	02020ST-120		EZB R/L ...020...			2	
02520CT-120	02520HP-120	02520ST-120		EZB R/L ...025...			2.5	
03020CT-120	03020HP-120	03020ST-120		EZB R/L ...030...			3	
03520CT-120	03520HP-120	03520ST-120		EZB R/L ...035...			3.5	
04020CT-120	04020HP-120	04020ST-120		EZB R/L ...040...	EZ040...		4	
04520CT-120	04520HP-120	—		EZB R/L ...045...	—	S/c 045X- ...-050EZ(P)	4.5	
05020CT-120	05020HP-120	05020ST-120		EZB R/L ...050...	EZ050...	S/c 050X- ...-060EZP	5	
06020CT-120	06020HP-120	06020ST-120		EZB R/L ...060...	EZ060...	S/c 060X- ...-070EZ(P)	6	
07020CT-120	07020HP-120	07020ST-120		EZBR ...070...	EZ070...	S/c 070X- ...-080EZP	7	
08020CT-120	08020HP-120	08020ST-120		EZB R/L ...080...	—	S/c 080X- ...-100EZP	8	

Applicable sleeves for machine manufacturers

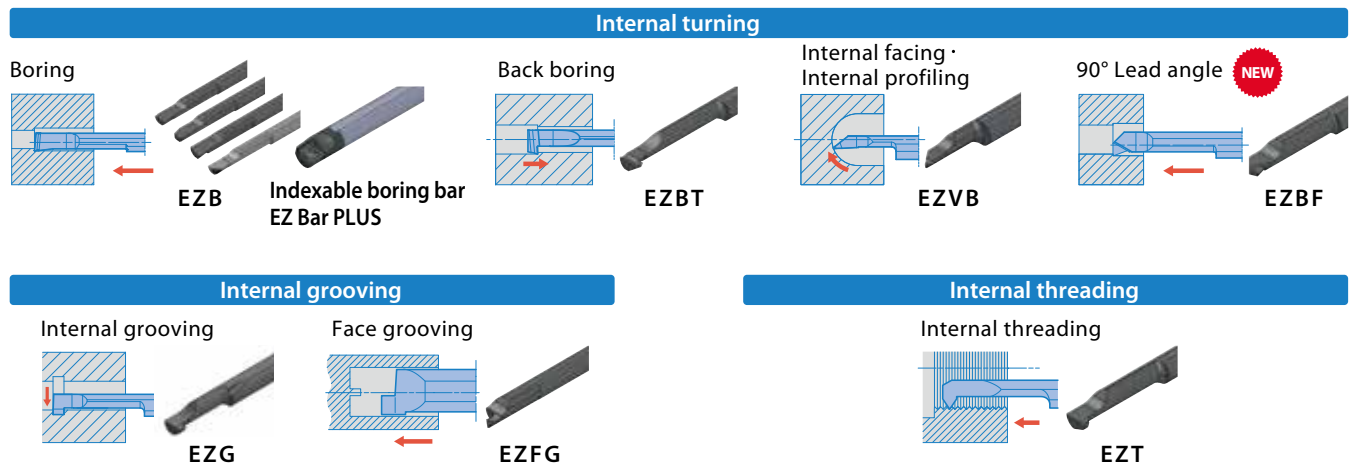
EZH 01722CT-135	EZH 01722HP-135	EZH 01722ST-135	22	EZBR ...017...	—	—	1.7	Star Micronics Nomura DS Tsugami
02022CT-135	02022HP-135	02022ST-135		EZB R/L ...020...			2	
02522CT-135	02522HP-135	02522ST-135		EZB R/L ...025...	EZ__ ...025-...		2.5	
03022CT-135	03022HP-135	03022ST-135		EZB R/L ...030...	EZ__ ...030-...		3	
03522CT-135	03522HP-135	03522ST-135		EZB R/L ...035...	EZ__ ...035-...		3.5	
04022CT-135	04022HP-135	04022ST-135		EZB R/L ...040...	EZ__ ...040-...		4	
04522CT-135	04522HP-135	—		EZB R/L ...045...	—	5/c 045X- ...-050EZ(P)	4.5	
05022CT-135	05022HP-135	05022ST-135		EZB R/L ...050...	EZ__ ...050-...	5/c 050X- ...-060EZP	5	
06022CT-135	06022HP-135	06022ST-135		EZB R/L ...060...	EZ__ ...060-...	5/c 060X- ...-070EZ(P)	6	
07022CT-135	07022HP-135	07022ST-135		EZBR ...070...	EZ__ ...070-...	5/c 070X- ...-080EZP	7	
08022CT-135	08022HP-135	08022ST-135		EZB R/L ...080...	—	5/c 080X- ...-100EZP	8	
EZH 01725.0CT-135	EZH 01725.0HP-135	EZH 01725.0ST-135	25	EZBR ...017...	—	—	1.7	Eguro Tsugami Citizen Machinery (General machines)
02025.0CT-135	02025.0HP-135	02025.0ST-135		EZB R/L ...020...			2	
02525.0CT-135	02525.0HP-135	02525.0ST-135		EZB R/L ...025...	EZ__ ...025-...		2.5	
03025.0CT-135	03025.0HP-135	03025.0ST-135		EZB R/L ...030...	EZ__ ...030-...		3	
03525.0CT-135	03525.0HP-135	03525.0ST-135		EZB R/L ...035...	EZ__ ...035-...		3.5	
04025.0CT-135	04025.0HP-135	04025.0ST-135		EZB R/L ...040...	EZ__ ...040-...		4	
04525.0CT-135	04525.0HP-135	—		EZB R/L ...045...	—	5/c 045X- ...-050EZ(P)	4.5	
05025.0CT-135	05025.0HP-135	05025.0ST-135		EZB R/L ...050...	EZ__ ...050-...	5/c 050X- ...-060EZP	5	
06025.0CT-135	06025.0HP-135	06025.0ST-135		EZB R/L ...060...	EZ__ ...060-...	5/c 060X- ...-070EZ(P)	6	
07025.0CT-135	07025.0HP-135	07025.0ST-135		EZBR ...070...	EZ__ ...070-...	5/c 070X- ...-080EZP	7	
08025.0CT-135	08025.0HP-135	08025.0ST-135		EZB R/L ...080...	—	5/c 080X- ...-100EZP	8	
EZH 01725.4CT-120	EZH 01725.4HP-120	EZH 01725.4ST-120	25.4	EZBR ...017...	—	—	1.7	Citizen Machinery
02025.4CT-120	02025.4HP-120	02025.4ST-120		EZB R/L ...020...			2	
02525.4CT-120	02525.4HP-120	02525.4ST-120		EZB R/L ...025...	EZ__ ...025-...		2.5	
03025.4CT-120	03025.4HP-120	03025.4ST-120		EZB R/L ...030...	EZ__ ...030-...		3	
03525.4CT-120	03525.4HP-120	03525.4ST-120		EZB R/L ...035...	EZ__ ...035-...		3.5	
04025.4CT-120	04025.4HP-120	04025.4ST-120		EZB R/L ...040...	EZ__ ...040-...		4	
04525.4CT-120	04525.4HP-120	—		EZB R/L ...045...	—	5/c 045X- ...-050EZ(P)	4.5	
05025.4CT-120	05025.4HP-120	05025.4ST-120		EZB R/L ...050...	EZ__ ...050-...	5/c 050X- ...-060EZP	5	
06025.4CT-120	06025.4HP-120	06025.4ST-120		EZB R/L ...060...	EZ__ ...060-...	5/c 060X- ...-070EZ(P)	6	
07025.4CT-120	07025.4HP-120	07025.4ST-120		EZBR ...070...	EZ__ ...070-...	5/c 070X- ...-080EZP	7	
08025.4CT-120	08025.4HP-120	08025.4ST-120		EZB R/L ...080...	—	5/c 080X- ...-100EZP	8	

Choose sleeves (DCB) to meet with DCON dimension of bar

Adjustment pin cannot be installed to EZH-ST sleeves. To adjust overhang of the bar, please use EZH-CT / HP sleeves

Machine manufacturers in random order

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1st recommendation for steel machining. Excellent surface finish and long tool life. Great performance in small parts machining applications.

