



EZ Bar Series

Small Internal Machining



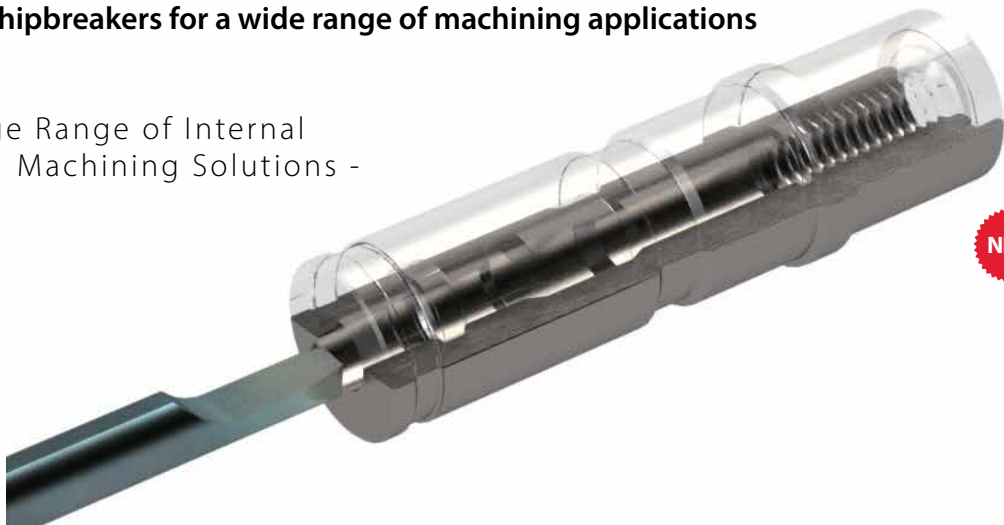
Complete Line of Small Internal Machining Tools

Selecting the proper tool in a simple step

Easy adjustment and high precision

Four chipbreakers for a wide range of machining applications

- Large Range of Internal
Machining Solutions -



NEW

G Chipbreaker
Chip Control Oriented



PR1725

EZ Bar Series for Small Internal Machining

Large Tooling Lineup for a Wide Application Range

1 Machining Applications

2 Chipbreaker

3 Sleeve

4 Solid Bar


1 Large Tooling Lineup for Various Internal Machining Operations


Internal Turning

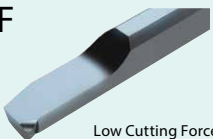
Supports a wide range of Internal Machining Applications


Boring EZB → P9 ~ 13

Chipbreakers

H  Tough Edge (General Purpose) → P9,11 ~ 12 **PR1725**
1st Recommendation / General Purpose
Extended reach type available

G  **NEW** Chip Control Oriented → P9 **PR1725**
Excellent Chip Control Performance

F  Low Cutting Force → P10,12 **PR1725**
Finishing / Sharpness Oriented

NB  Without Chipbreaker → P13 **PR1725**
GW05 Insert Grade for Aluminum Machining

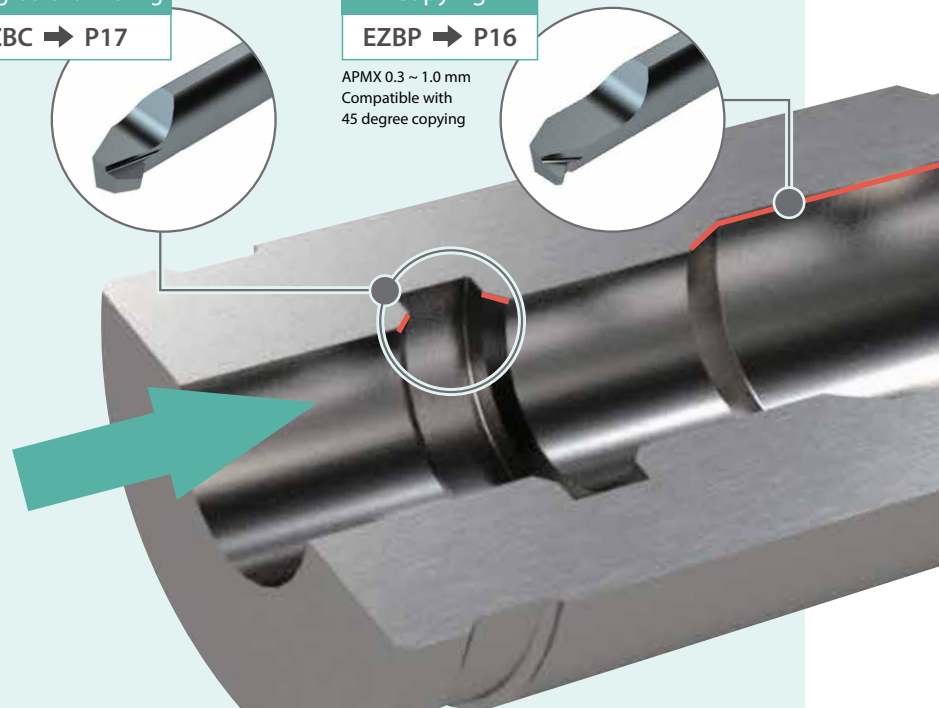
45 Degree Chamfering

EZBC → P17

Copying

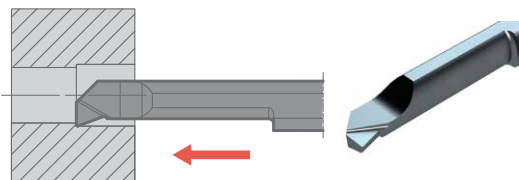
EZBP → P16

APMX 0.3 ~ 1.0 mm
Compatible with
45 degree copying



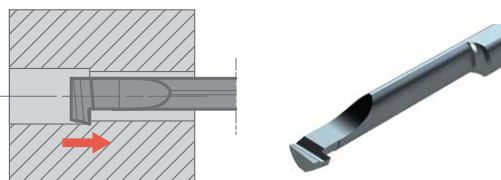
90 Degree Lead Angle

EZBF → P14



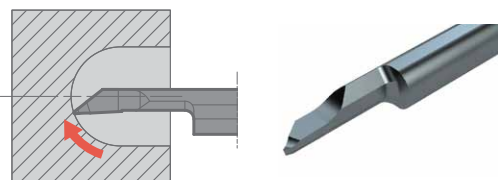
Back Boring

EZBT → P15



Internal Facing • Internal Profiling

EZVB → P15



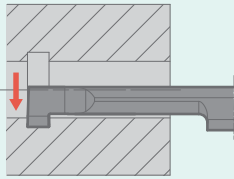
Grooving

High precision groove width tolerance $\pm 0.03\text{mm}$

Internal Grooving

EZG \rightarrow P20

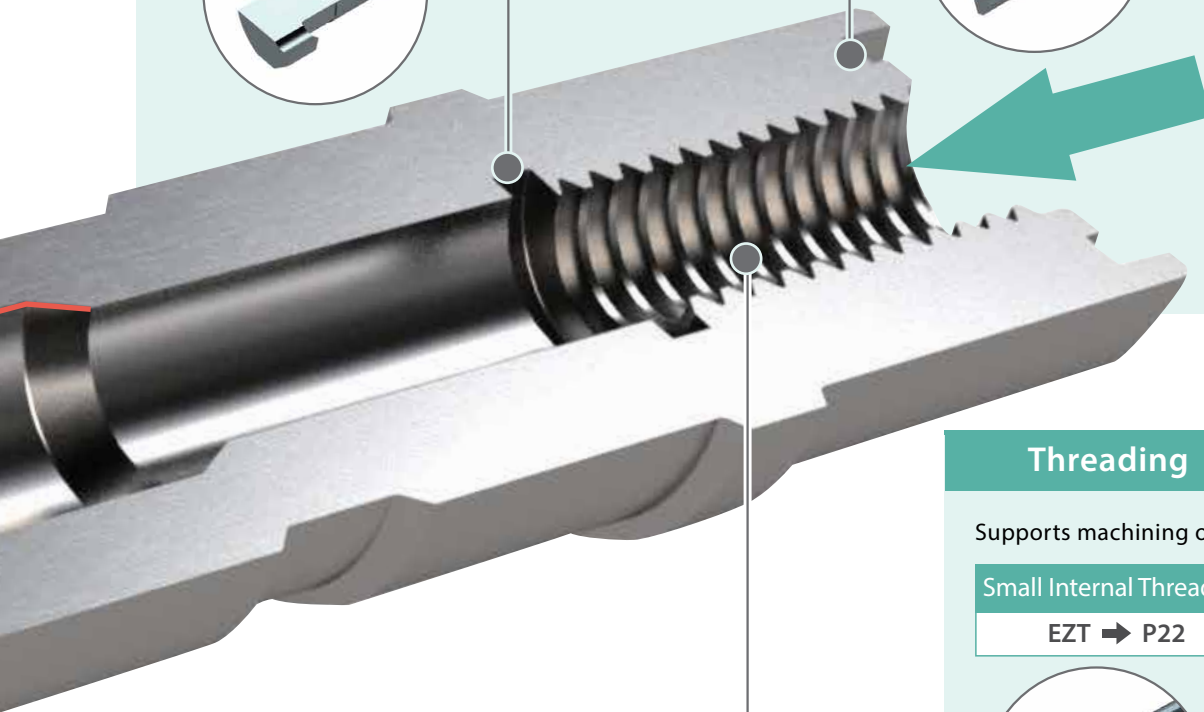
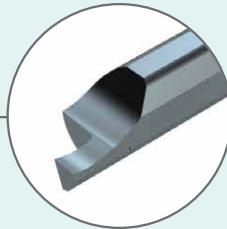
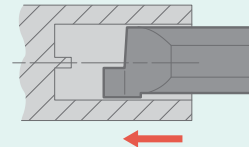
Two different overhang lengths (LU) are available
Groove width 0.5 ~ 2.0 mm



Face Grooving

EZFG \rightarrow P21

Groove width 1.0 ~ 3.0 mm

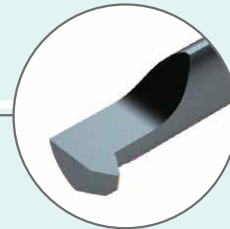
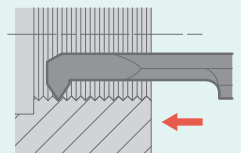


Threading

Supports machining of M4 metric screws

Small Internal Threading

EZT \rightarrow P22



Supports a Wide Range of Small Machining Diameters

Application	Details	Style	Minimum Bore Dia. (mm)									
			Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9	Ø10	
Internal Turning	Boring	EZB	■	■	■	■	■	■	■	■	■	■
	90 Degree Lead Angle	EZBF	■	■	■	■	■	■	■	■	■	■
	Back Boring	EZBT	■	■	■	■	■	■	■	■	■	■
	Copying	EZBP	■	■	■	■	■	■	■	■	■	■
	Internal Facing • Internal Profiling	EZVB	■	■	■	■	■	■	■	■	■	■
	45 Degree Chamfering	EZBC	■	■	■	■	■	■	■	■	■	■
	EZ Bar PLUS			■	■	■	■	■	■	■	■	■
Grooving	Internal Grooving	EZG	■	■	■	■	■	■	■	■	■	
	Face Grooving*	EZFG	■	■	■	■	■	■	■	■	■	
Threading	Small Internal Threading*	EZT	■	■	■	■	■	■	■	■	■	

* For Face Grooving, indicates the Min. Face Grooving Dia.

* For Small Internal Threading, indicates the minimum pilot hole diameter.

2 4 Chipbreakers and New PVD Coating PR1725 for a Wide Range of Machining Processes

H Chipbreaker (without Lead Angle)
1st Recommendation / General Purpose



Recommended D.O.C. : More than 0.2mm

PR1725 Available

GW05 Insert Grade for Aluminum
Machining Available
Left-hand Available (HP Type)

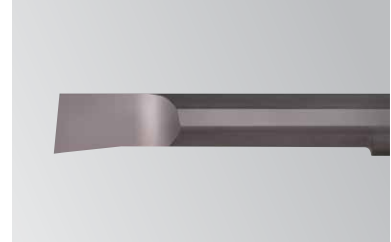
F Chipbreaker (with Lead Angle)
Finishing / Sharpness Oriented



Recommended D.O.C. : Less than 0.2mm

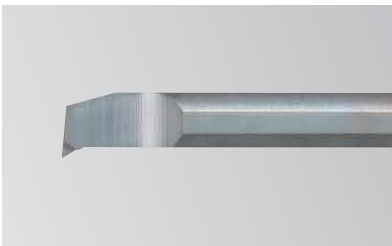
PR1725 Available

NB Chipbreaker (without Chipbreaker)
Non-ferrous Metal Machining



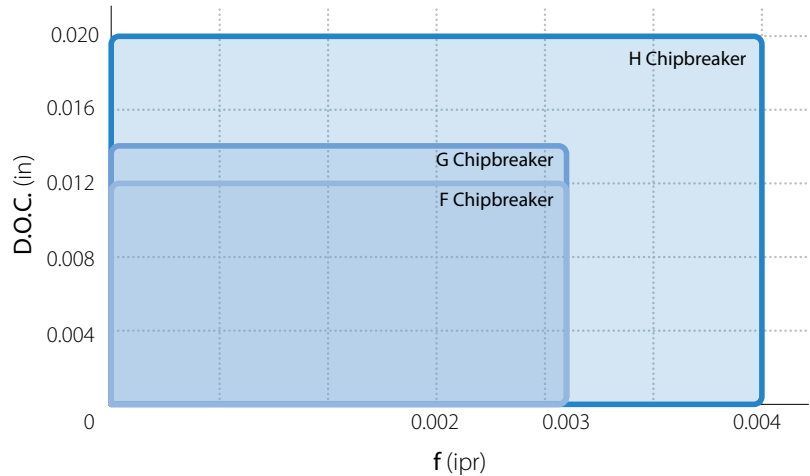
PCD/CBN Inserts Available
GW05 Insert Grade for Aluminum
Machining Available

NEW G Chipbreaker (with Lead Angle)
Chip Control Oriented



PR1725 Available

Applicable Chipbreaker Range

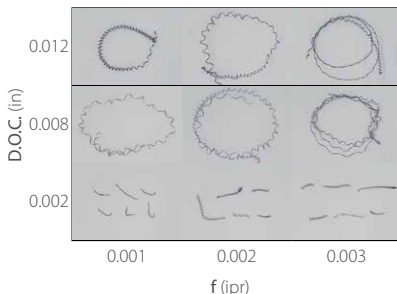


Cutting Performance Comparison

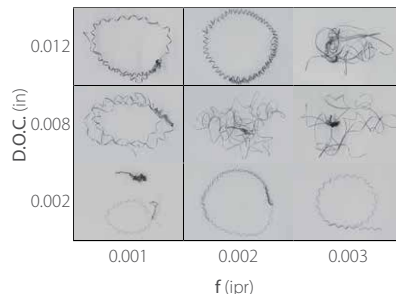
Chip Control Comparison

Stable Chip Curls and Good Chip Breaking

G Chipbreaker



Competitor (With Lead Angle)

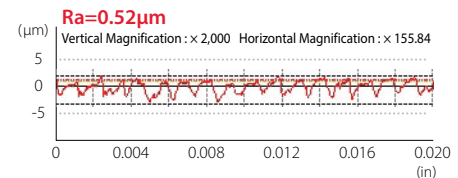


Cutting Conditions: $V_c = 260$ sfm, Wet Workpiece: 1045 (Internal evaluation)

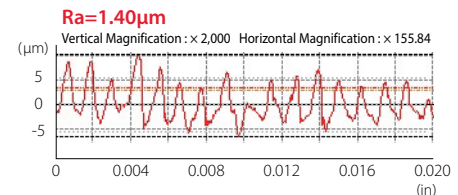
Surface Finish Comparison

Excellent Surface Finish

G Chipbreaker



Competitor (With Lead Angle)



Using Tool : RE = 0.05 mm, Shank Diameter $\phi 4$ (Internal evaluation)

New PVD Coating

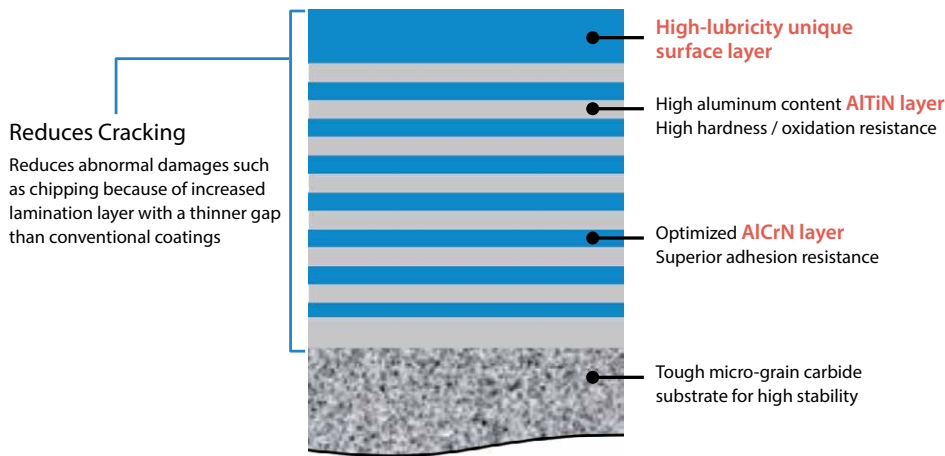
PR1725

MEGACOAT NANO PLUS Maintains Long Tool Life and Excellent Surface Finish
Great Performance in Small Parts Machining Applications

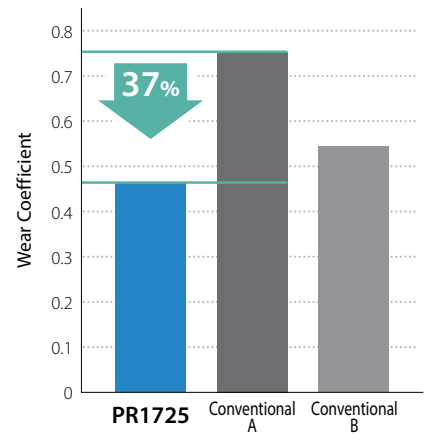
Long Tool Life for Improved Cycle Time
Excellent Surface Finish with No Tearing to Lower Quality Control Costs

MEGACOAT NANO PLUS

AlTiN/AlCrN Nano laminated film with superior wear resistance and adhesion resistance
Excellent Surface Finish and Long Tool Life



Wear Coefficient Comparison
(Internal Evaluation)



Superior Wear and Chipping Resistance

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

Applicable to Various Workpiece Materials

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

Excellent Surface Finish

Special surface layer with great lubricity reduces adhesion

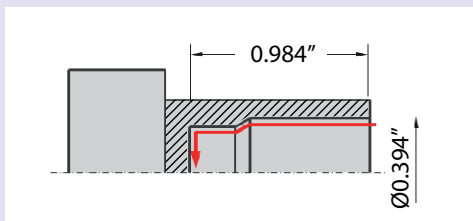
High Machining Stability

Tough micro-grain carbide substrate provides stable machining

SOLUTION 1

Improved machining efficiency. 2.8 times longer tool life

Automotive Parts (1045)



Vc = 160 sfm
D.O.C. = 0.008"
f = 0.0018 ipr
Wet
EZBR035035HP-015F PR1725

SOLUTION
EZ Bar PR1725

18,000 pcs/edge

x2.8
Tool Life

Conventional
Conventional C

6,300 pcs/edge

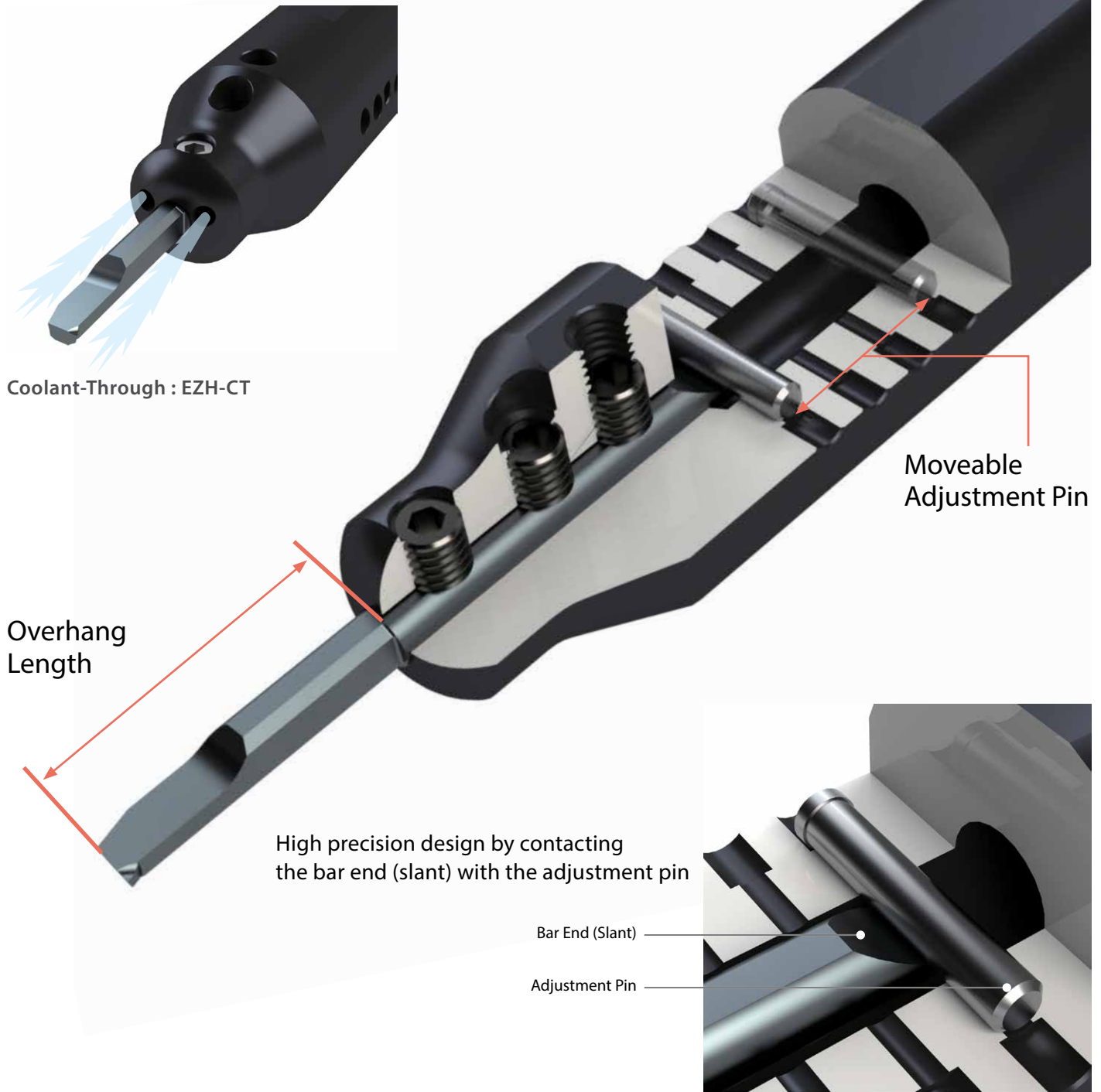
The EZ Bar (PR1725) showed **2.8 times**
longer tool life than the conventional C

(User Evaluation)

3 Easy Adjustment and High Precision

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

Smooth coolant flow due to unique head design



Large Tooling Lineup that can be Customized for Your Machining Demands

How to select sleeves

Select between three types of sleeves

EZH-CT

With EZ Adjust Structure
Coolant-Through



EZH-HP

With EZ Adjust Structure



EZH-ST

Without EZ Adjust Structure

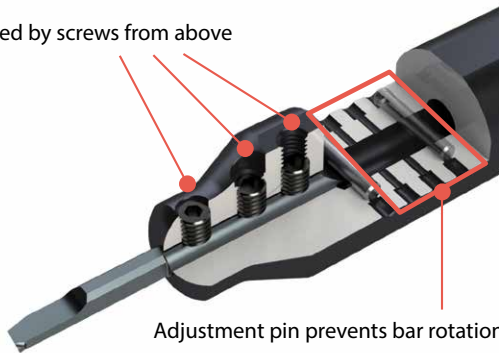


The EZ Bar prevents deviation with high-rigidity clamping

The adjustment pin prevents the bar from rotating during machining

EZ Bar

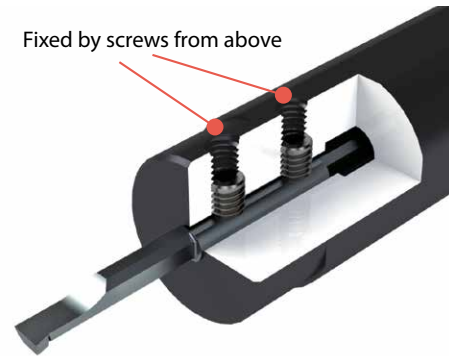
Fixed by screws from above



Adjustment pin prevents bar rotation

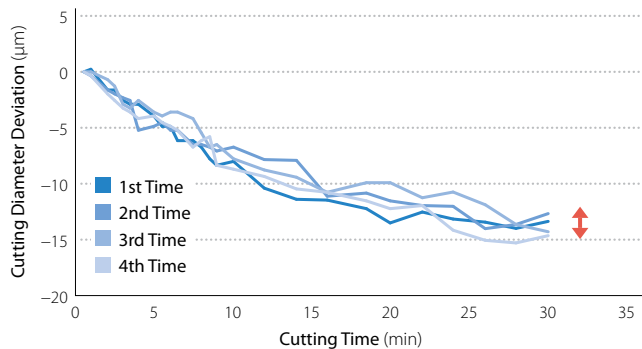
Competitor

Fixed by screws from above

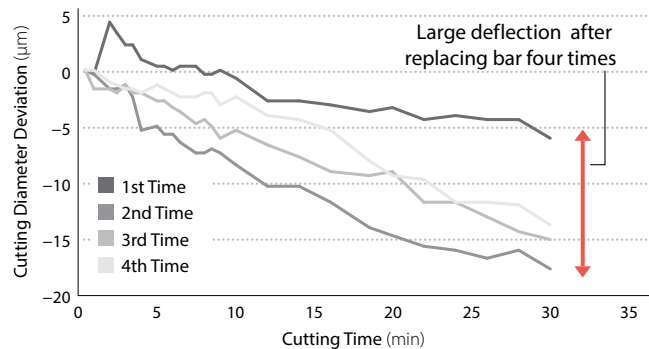


Cutting Diameter Deviation Comparison (Internal Evaluation)

EZ Bar



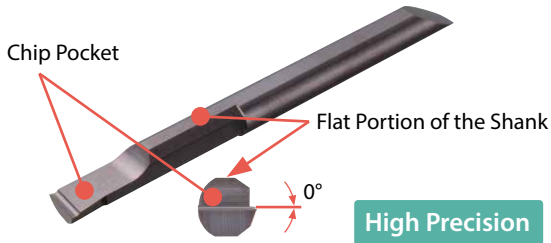
Competitor A



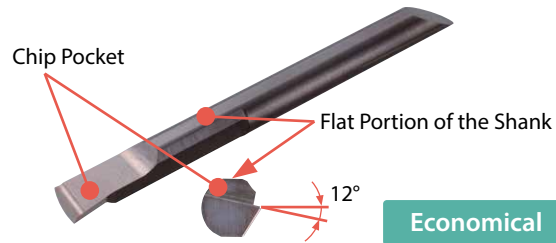
Cutting Conditions : Vc = 220 sfm, D.O.C. = 0.004", f = 0.0008 ipr, Coolant (Oil-based) Workpiece : W1-9

4 HP Bar for High Precision and ST Bar for Cost-Oriented Boring Applications (Tolerances are Different)

HP (EZB-HP)



ST (EZB-ST)



Bar Tolerances

	Bar Style	Offset (WF)	Longitudinal Direction (L)	Cutting Edge Height (Y)	Min. Bore Dia.
	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.

EZ Bar PLUS → P24 ~ 25

High Precision Solid Bar with the Convenience of Indexable Inserts
Reduce Machining Costs



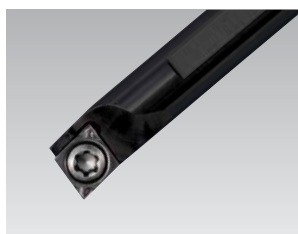
Indexable EZ Bar
Minimum Bore Diameter 5mm

Minimum Bore Diameter 5mm

Carbide or steel bars are available depending on the machining scenario



Carbide Bar

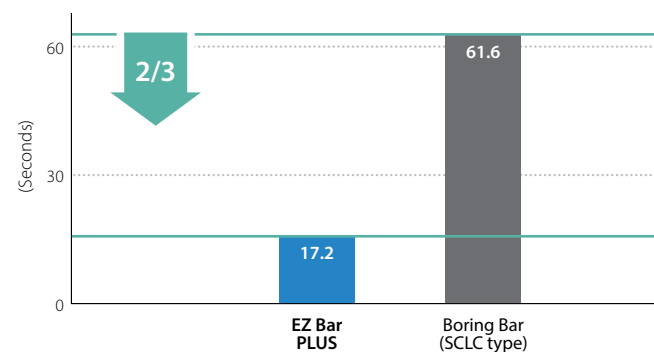


Steel Bar

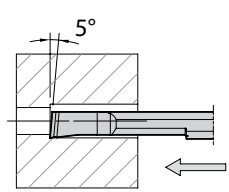
Reduces Installation Times by 1/3

The EZ adjust structure features much lower mounting times compared to conventional boring bars

Mounting Time Comparison (Internal Evaluation)

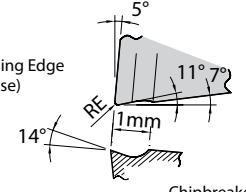


*Average values from 5 tests

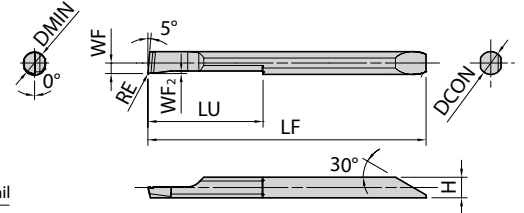


Boring : H Chipbreaker

- Chipbreaker Parallel to Cutting Edge
- Tough Edge (General Purpose)

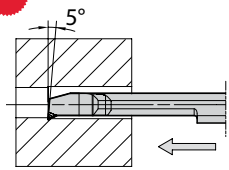


Chipbreaker Detail



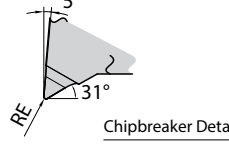
• Right-hand Shown

NEW

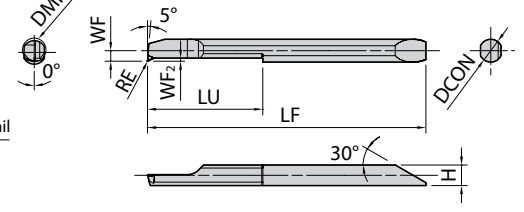


Boring : G Chipbreaker

- Chip Control Oriented



Chipbreaker Detail



• Right-hand Shown

EZ Bar Dimensions HP High Precision

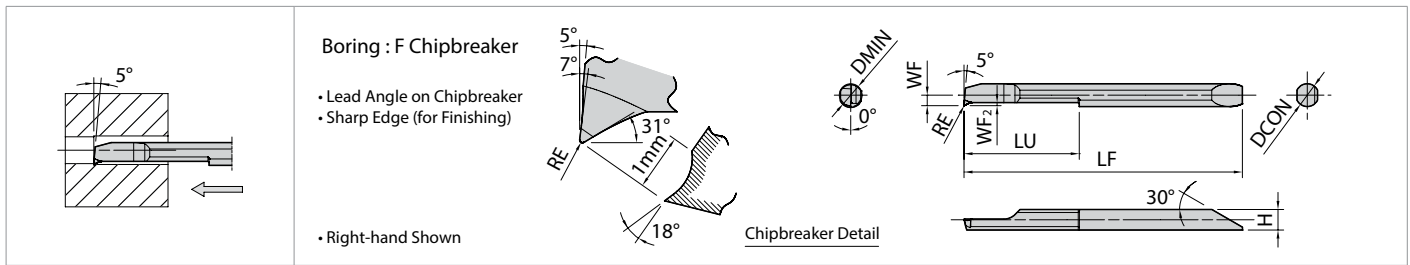
Part Number	Min. Bore Dia.	Dimensions (mm)							Grades						Applicable Sleeve See P25-P31	
		DMIN	DCON	H	LF	LU	WF	WF ₂	RE	MEGACOAT NANO PLUS		MEGACOAT		Carbide		
										PR1725	PR1225	GW05	GW05			
EZB 020020HP-008H	2	2	1.8	32	8	0.85	0.25	0.08 ±0.015	●	●	●	●			EZH020...	
025025HP-008H	2.5	2.5	2.3	35	10.5	1.1	0.25	0.08 ±0.015	●	●	●	●			EZH025...	
025025HP-015H								0.15 ±0.020	●	●	●					
030030HP-008H	3	3	2.7	38.9	13	1.35	0.3	0.08 ±0.015	●	●	●	●			EZH030...	
030030HP-015H								0.15 ±0.020	●	●	●					
035035HP-008H	3.5	3.5	3.2	41.9	15	1.6	0.4	0.08 ±0.015	●	●	●	●			EZH035...	
035035HP-015H								0.15 ±0.020	●	●	●					
040040HP-008H	4	4	3.6	48.8	20	1.85	0.4	0.08 ±0.015	●	●	●	●			EZH040...	
040040HP-015H								0.15 ±0.020	●	●	●					
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 ±0.020	●	●	●					
050050HP-008H	5	5	4.6	58.1	25	2.35	0.5	0.08 ±0.015	●	●	●	●			EZH050...	
050050HP-015H								0.15 ±0.020	●	●	●					
060060HP-008H	6	6	5.6	66.1	30	2.85	0.6	0.08 ±0.015	●	●	●	●			EZH060...	
060060HP-015H								0.15 ±0.020	●	●	●					
070070HP-008H	7	7	6.3	73.8	35	3.3	0.7	0.08 ±0.015	●	●	●	●			EZH070...	
070070HP-015H								0.15 ±0.020	●	●	●					
080080HP-008H	8	8	7.2	84.8	40	3.75	0.8	0.08 ±0.015	●	●	●	●			EZH080...	
080080HP-015H								0.15 ±0.020	●	●	●					
NEW EZBR 020020HP-005G	2	2	1.65	31.8	8	0.55	0.25	0.05 ±0.010	●					EZH020...		
025025HP-005G	2.5	2.5	2.15	34.8	10.5	0.8	0.3	0.05 ±0.010	●						EZH025...	
025025HP-015G								0.15 ±0.020	●							
030030HP-005G	3	3	2.5	38.7	13	1.05	0.4	0.05 ±0.010	●						EZH030...	
030030HP-015G								0.15 ±0.020	●							
035035HP-005G	3.5	3.5	3	41.7	15	1.3	0.5	0.05 ±0.010	●						EZH035...	
035035HP-015G								0.15 ±0.020	●							
040040HP-005G	4	4	3.45	48.7	20	1.55	0.5	0.05 ±0.010	●						EZH040...	
040040HP-015G								0.15 ±0.020	●							
045045HP-005G	4.5	4.5	3.95	50.9	22.5	1.8	0.7	0.05 ±0.010	●						EZH045...	
045045HP-015G								0.15 ±0.020	●							
050050HP-005G	5	5	4.3	57.8	25	2.05	0.7	0.05 ±0.010	●						EZH050...	
050050HP-015G								0.15 ±0.020	●							
060060HP-005G	6	6	5.15	65.7	30	2.55	0.9	0.05 ±0.010	●						EZH060...	
060060HP-015G								0.15 ±0.020	●							
070070HP-005G	7	7	6.15	73.7	35	3.05	1	0.05 ±0.010	●						EZH070...	
070070HP-015G								0.15 ±0.020	●							
080080HP-005G	8	8	7.1	84.8	40	3.55	1	0.05 ±0.010	●						EZH080...	
080080HP-015G								0.15 ±0.020	●							

Tolerance: Offset ±0.025mm (of the reference pin), overall length ±0.05mm, edge height +0.05/0mm
 Tolerances Details [P8](#)

Recommended Cutting Conditions [P18](#)

EZ Bars Sold in 1 Piece Boxes

● : Standard Item



EZ Bar Dimensions **HP** High Precision

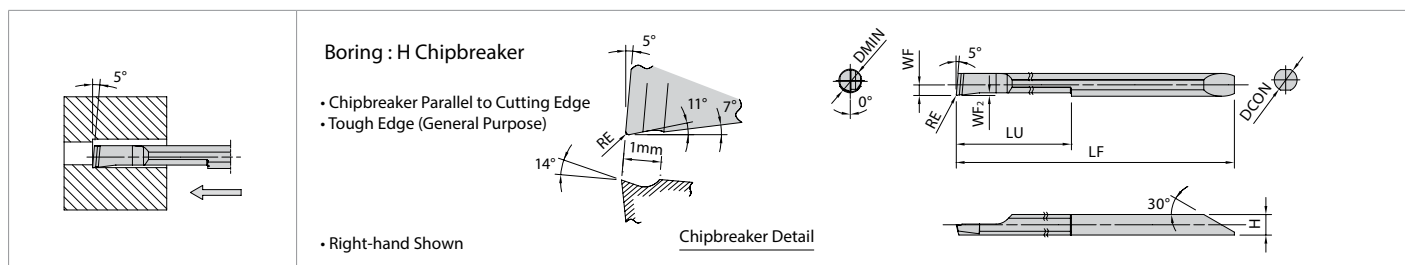
Part Number	Min. Bore Dia.	Dimensions (mm)							Grades						Applicable Sleeve See P25-P31
									MEGACOAT NANO PLUS		MEGACOAT		Carbide		
		PR1725		PR1225		GW05									
		R	L	R	L	R	L								
EZBR 020020HP-005F	2	2	1.8	32	8	0.85	0.25	0.05 ^{+0.010}	●		●				EZH020...
025025HP-005F	2.5	2.5	2.3	35	10.5	1.1	0.3	0.05 ^{+0.010}	●		●				EZH025...
0.15 ^{+0.020}								●		●					
030030HP-005F	3	3	2.7	38.9	13	1.35	0.4	0.05 ^{+0.010}	●		●				EZH030...
0.15 ^{+0.020}								●		●					
035035HP-005F	3.5	3.5	3.2	41.9	15	1.6	0.5	0.05 ^{+0.010}	●		●				EZH035...
0.15 ^{+0.020}								●		●					
040040HP-005F	4	4	3.6	48.8	20	1.85	0.5	0.05 ^{+0.010}	●		●				EZH040...
0.15 ^{+0.020}								●		●					
045045HP-005F	4.5	4.5	4.1	51.1	22.5	2.1	0.7	0.05 ^{+0.010}	●		●				EZH045...
0.15 ^{+0.020}								●		●					
050050HP-005F	5	5	4.6	58.1	25	2.35	0.7	0.05 ^{+0.010}	●		●				EZH050...
0.15 ^{+0.020}								●		●					
060060HP-005F	6	6	5.6	66.1	30	2.85	0.9	0.05 ^{+0.010}	●		●				EZH060...
0.15 ^{+0.020}								●		●					
070070HP-005F	7	7	6.3	73.8	35	3.3	1	0.05 ^{+0.010}	●		●				EZH070...
0.15 ^{+0.020}								●		●					
080080HP-005F	8	8	7.2	84.8	40	3.75	1	0.05 ^{+0.010}	●		●				EZH080...
0.15 ^{+0.020}								●		●					

Tolerance: Offset ± 0.025 mm (of the reference pin), overall length ± 0.05 mm, edge height $+0.05/0$ mm
 Tolerances Details [P8](#)

Recommended Cutting Conditions [P18](#)

EZ Bars Sold in 1 Piece Boxes

● : Standard Item



Boring : H Chipbreaker

- Chipbreaker Parallel to Cutting Edge
- Tough Edge (General Purpose)

• Right-hand Shown

Chipbreaker Detail

EZ Bar Dimensions HP High Precision Extended Reach Type

Part Number	Min. Bore Dia.	Dimensions (mm)										Grades MEGACOAT PR1225	Applicable Sleeve See P25-P31		
		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	0.08 ±0.015	●	EZH020...		
025025HP-008H-LT	2.5	2.5	2.3	39.5	15	15.5	11.5	-	-	1.1		0.25	●	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		0.5	●	EZH040...	
050050HP-008H-LT	5	5	4.6	73.1	35	*40.5	35.5	30.5	25.5	2.35		0.6	●	EZH050...	
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 (of the reference pin), overall length ±0.05mm, edge height +0.05/0mm

*To use full overhang, bars with modified LU dimension are required.

Recommended Cutting Conditions P18

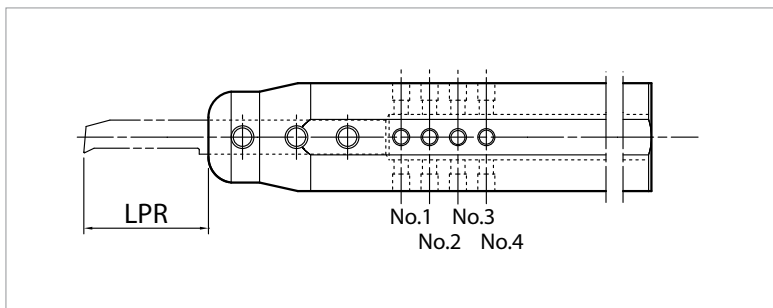
EZ Bars Sold in 1 Piece Boxes

● : Standard Item

Extended Reach (...HP...-LT) Bar Overhang Length LPR (mm)

Part Number	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

*To use full overhang, bars with modified LU dimension are required.



EZ Bar Compatibility

EZ Bar is Compatible with Conventional Tip Bars

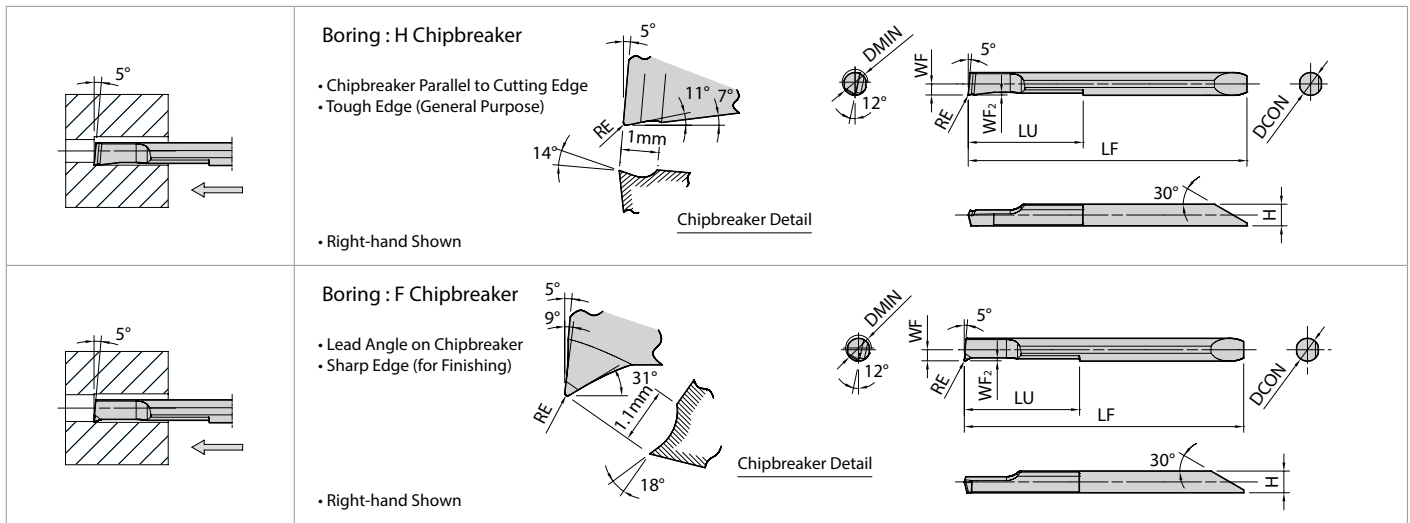
Sleeve	Bar	EZB ... HP	EZB ... ST	HPB ... (Conventional)
EZH ... CT		✓	✓	*1 *2 ✓ (Compatible)
EZH ... HP		✓	✓	*1 *2 ✓ (Compatible)
EZH ... ST		✓	✓	*1 ✓ (Compatible)
HPB ... (Conventional)		✓ (*1) (Compatible)	✓ (*1) (Compatible)	✓

*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 : 2.0mm 025 : 2.5mm	Shank Dia. 020 : 2mm 025 : 2.5mm	Precision HP : High Precision ST : Standard	Corner-R (RE) 008 : 0.08mm 015 : 0.15mm	Chipbreaker H: Chipbreaker (Without Lead Angle) H-LT: Chipbreaker (Extended Reach) G: Chipbreaker (With Lead Angle) F: Chipbreaker (With Lead Angle) NB: Without Chipbreaker



EZ Bar Dimensions **ST** Cost Oriented

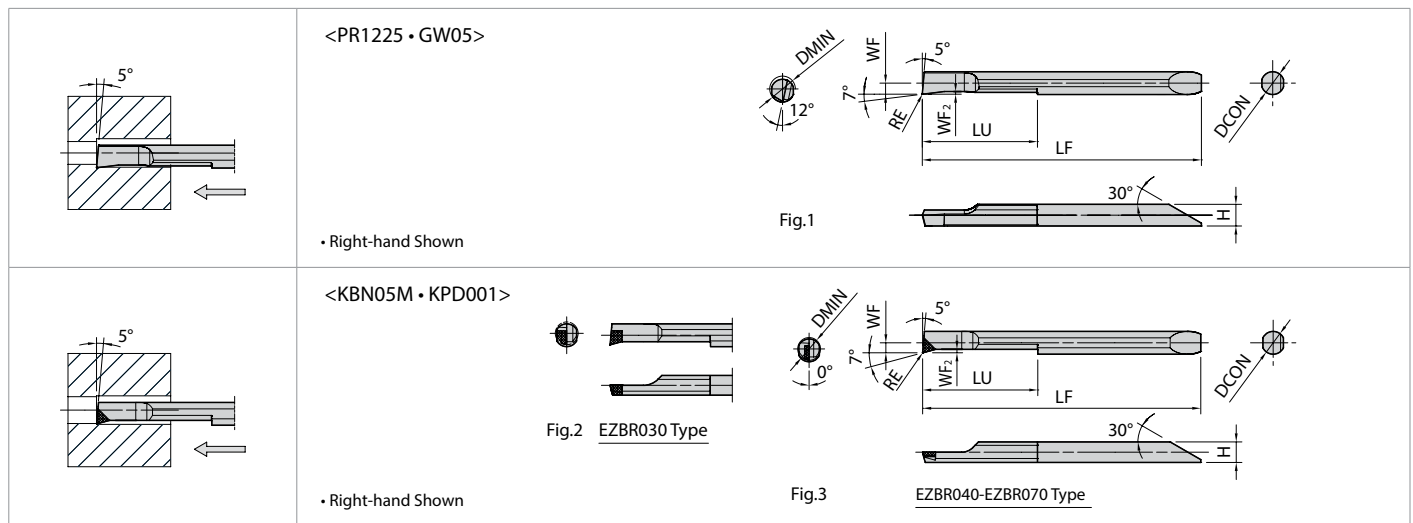
Part Number	Min. Bore Dia.	Dimensions (mm)							Grades		Applicable Sleeve See P25-P31	
		DMIN	DCON	H	LF	LU	WF	WF ₂	RE	MEGACOAT NANO PLUS		MEGACOAT
										PR1725		PR1225
EZBR 020017ST-008H	2.0	1.7	1.50	27.3	7.0	0.79	0.19	0.08 ±0.015	●	●	EZH017...	
025020ST-008H	2.5	2.0	1.82	32.0	8.0	0.94	0.16	0.08 ±0.015	●	●	EZH020...	
025020ST-015H								0.15 ±0.020	●	●		
030025ST-008H	3.0	2.5	2.30	35.0	10.5	1.19	0.15	0.08 ±0.015	●	●	EZH025...	
030025ST-015H								0.15 ±0.020	●	●		
035030ST-008H	3.5	3.0	2.80	39.0	13.0	1.44	0.18	0.08 ±0.015	●	●	EZH030...	
035030ST-015H								0.15 ±0.020	●	●		
040035ST-008H	4.0	3.5	3.30	42.0	15.0	1.69	0.24	0.08 ±0.015	●	●	EZH035...	
040035ST-015H								0.15 ±0.020	●	●		
045040ST-008H	4.5	4.0	3.80	49.0	20.0	1.94	0.27	0.08 ±0.015	●	●	EZH040...	
045040ST-015H								0.15 ±0.020	●	●		
055050ST-008H	5.5	5.0	4.80	58.2	25.0	2.44	0.33	0.08 ±0.015	●	●	EZH050...	
055050ST-015H								0.15 ±0.020	●	●		
065060ST-008H	6.5	6.0	5.80	66.2	30.0	2.94	0.38	0.08 ±0.015	●	●	EZH060...	
065060ST-015H								0.15 ±0.020	●	●		
075070ST-008H	7.5	7.0	6.80	74.2	35.0	3.44	0.44	0.08 ±0.015	●	●	EZH070...	
075070ST-015H								0.15 ±0.020	●	●		
EZBR 020017ST-005F	2.0	1.7	1.50	27.3	7.0	0.79	0.20	0.05 ±0.010	●	●	EZH017...	
025020ST-005F	2.5	2.0	1.82	32.0	8.0	0.94	0.16	0.05 ±0.010	●	●	EZH020...	
025020ST-015F								0.15 ±0.020	●	●		
030025ST-005F	3.0	2.5	2.30	35.0	10.5	1.19	0.20	0.05 ±0.010	●	●	EZH025...	
030025ST-015F								0.15 ±0.020	●	●		
035030ST-005F	3.5	3.0	2.80	39.0	13.0	1.44	0.26	0.05 ±0.010	●	●	EZH030...	
035030ST-015F								0.15 ±0.020	●	●		
040035ST-005F	4.0	3.5	3.30	42.0	15.0	1.69	0.33	0.05 ±0.010	●	●	EZH035...	
040035ST-015F								0.15 ±0.020	●	●		
045040ST-005F	4.5	4.0	3.80	49.0	20.0	1.94	0.31	0.05 ±0.010	●	●	EZH040...	
045040ST-015F								0.15 ±0.020	●	●		
055050ST-005F	5.5	5.0	4.80	58.2	25.0	2.44	0.45	0.05 ±0.010	●	●	EZH050...	
055050ST-015F								0.15 ±0.020	●	●		
065060ST-005F	6.5	6.0	5.80	66.2	30.0	2.94	0.59	0.05 ±0.010	●	●	EZH060...	
065060ST-015F								0.15 ±0.020	●	●		
075070ST-005F	7.5	7.0	6.80	74.2	35.0	3.44	0.65	0.05 ±0.010	●	●	EZH070...	
075070ST-015F								0.15 ±0.020	●	●		

Tolerance: Offset ±0.06mm, overall length ±0.1mm, edge height +0.06/0mm
 Tolerances Details [P8](#)

Recommended Cutting Conditions [P18](#)

EZ Bars Sold in 1 Piece Boxes

● : Standard Item



EZ Bar Dimensions Without Chipbreaker (PCD / CBN)

Part Number	Min. Bore Dia.	Dimensions (mm)							Drawing	Grades				Applicable Sleeve See P25-P31	
		DMIN	DCON	H	LF	LU	WF	WF ₂		RE	MEGACOAT	Uncoated Carbide	MEGACOAT CBN		PCD
											PR1225	GW05	KBN05M		KPD001
EZBR 020017-005NB	2.0	1.7	1.50	27.3	7.0	0.79	0.20	0.05 ±0.015	Fig.1	●	●			EZH017...	
025020-005NB	2.5	2.0	1.82	32.0	8.0	0.94	0.16			●	●			EZH020...	
030025-005NB	3.0	2.5	2.30	35.0	10.5	1.19	0.16			●	●			EZH025...	
035030-005NB	3.5	3.0	2.80	39.0	13.0	1.44	0.19			●	●			EZH030...	
040035-005NB	4.0	3.5	3.30	42.0	15.0	1.69	0.25			●	●			EZH035...	
045040-005NB	4.5	4.0	3.80	49.0	20.0	1.94	0.28			●	●			EZH040...	
055050-005NB	5.5	5.0	4.80	58.2	25.0	2.44	0.33			●	●			EZH050...	
065060-005NB	6.5	6.0	5.80	66.2	30.0	2.94	0.39			●	●			EZH060...	
075070-005NB	7.5	7.0	6.80	74.2	35.0	3.44	0.45			●	●			EZH070...	
EZBR 030030-003NB	3.0	3.0	2.60	38.8	13.0	1.25	0.30	0.035 ±0.015	Fig.2			●		EZH030...	
040040-003NB	4.0	4.0	3.60	48.8	20.0	1.75	0.50					●		EZH040...	
050050-003NB	5.0	5.0	4.60	58.1	25.0	2.25	0.50					●		EZH050...	
060060-003NB	6.0	6.0	5.60	66.1	30.0	2.75	0.50					●		EZH060...	
070070-003NB	7.0	7.0	6.60	74.1	35.0	3.25	0.50					●		EZH070...	
EZBR 040040-003NB	4.0	4.0	3.60	48.8	20.0	1.75	0.50	0.035 ±0.015	Fig.3				●	EZH040...	
050050-003NB	5.0	5.0	4.60	58.1	25.0	2.25	0.50						●	EZH050...	
060060-003NB	6.0	6.0	5.60	66.1	30.0	2.75	0.50						●	EZH060...	
070070-003NB	7.0	7.0	6.60	74.1	35.0	3.25	0.50						●	EZH070...	

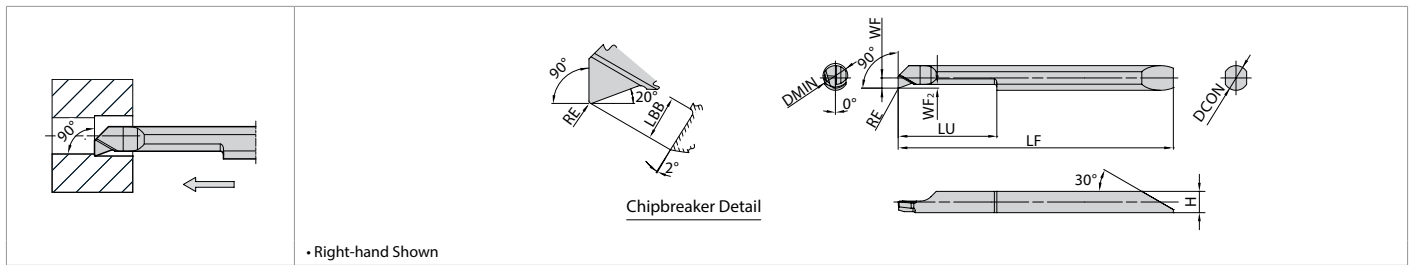
Recommended Cutting Conditions [P18](#)

EZ Bars Sold in 1 Piece Boxes

Edge Preparation

● : Standard Item

Carbide	Edge Preparation	Notes
PR1225 / GW05	Sharp Edge	-
KBN05M	T00315	0.08mm × 15° Chamfered Cutting Edge
KPD001	Sharp Edge	-



EZ Bar Dimensions

Part Number	Min. Bore Dia.	Dimensions (mm)								Grades	Applicable Sleeve See P25-P31	
		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	●	EZH030...	
040040-008	4	4	3.45	44.6	16	1.65	0.55	2.0	0.08 ±0.015	●	EZH040...	
050050-015	5	5	4.3	52.7	20	2.15	0.7	2.4	0.15 ±0.020	●	EZH050...	
060060-015	6	6	5.15	59.6	24	2.55	0.85	2.8	0.15 ±0.020	●	EZH060...	

Tolerance: Offset ±0.05mm, overall length ±0.05mm, edge height +0.05/0mm
 Tolerances Details [P8](#)

EZ Bars Sold in 1 Piece Boxes

● : Standard Item

Recommended Cutting Conditions

Workpiece	Insert Grade (Vc : sfm) MEGACOAT PR1225	EZBFR030		EZBFR040		EZBFR050/060		Notes
		Depth of Cut: D.O.C. (inch), Feed: f (ipr)						
		D.O.C.	f	D.O.C.	f	D.O.C.	f	
Carbon Steel / Alloy Steel	100 - 330	~0.0079	~0.0020	~0.0118	~0.0020	~0.0197	~0.0020	Wet
Stainless Steel	100 - 260	~0.0079	~0.0020	~0.0118	~0.0020	~0.0197	~0.0020	

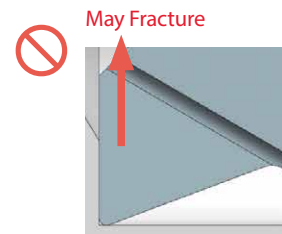
EZBF Machining Notes

✓ Recommended ⊘ Not Recommended ⊘ High Defect Probability

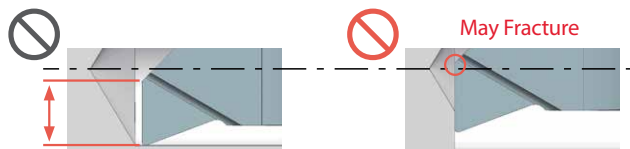
1. Machining into blind holes is not recommended



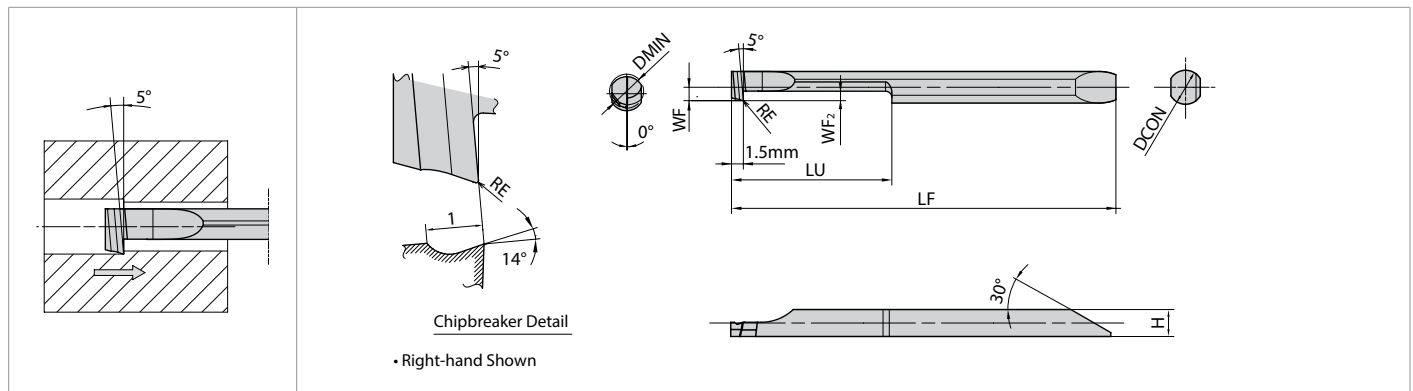
3. Up facing is not recommended



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



For Min Bore Diameter: Ø4mm, Front cutting edge length: 1.9mm



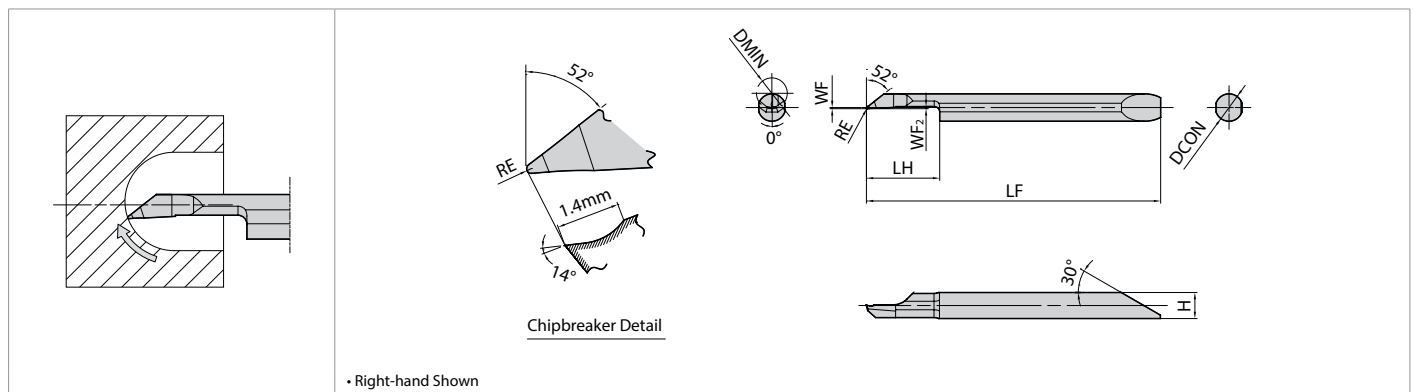
EZ Bar Dimensions

Part Number	Min. Bore Dia.	Dimensions (mm)							Grades		Applicable Sleeve See P25-P31	
		DMIN	DCON	H	LF	LU	WF	WF ₂	RE	MEGACOAT		Uncoated Carbide
										PR1225		GW05
EZBTR 040040-005	4	4	3.45	48.7	20	1.7	1.2	0.05 ⁺⁰ _{-0.020}	●	●	EZH040...	
050050-005	5	5	4.3	58.7	25	2.15	1.5		●	●	EZH050...	

EZ Bars Sold in 1 Piece Boxes

● : Standard Item

Recommended Cutting Conditions [P19](#)



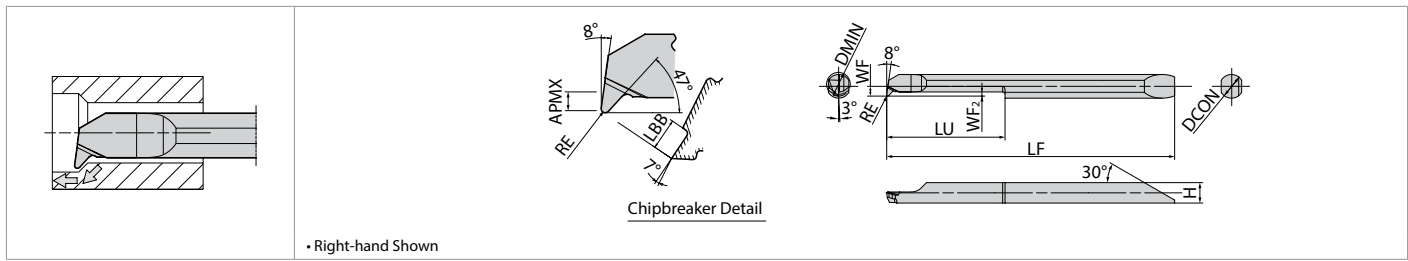
EZ Bar Dimensions

Part Number	Min. Bore Dia.	Dimensions (mm)							Grades		Applicable Sleeve See P25-P31
		DMIN	DCON	H	LF	LU	WF	WF ₂	RE	MEGACOAT	
										PR1225	
EZVBR 035030-010	3.5	3	2.8	38.0	8	0.17	0.22	0.10 ^{±0.015}	●	EZH030...	
045040-010	4.5	4	3.8	43.0	10	0.17	0.26		●	EZH040...	
055050-010	5.5	5	4.8	50.2	12	0.17	0.29		●	EZH050...	
065060-010	6.5	6	5.8	55.2	14	0.17	0.32		●	EZH060...	

EZ Bars Sold in 1 Piece Boxes

● : Standard Item

Recommended Cutting Conditions [P19](#)



• Right-hand Shown

EZ Bar Dimensions

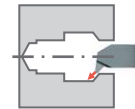
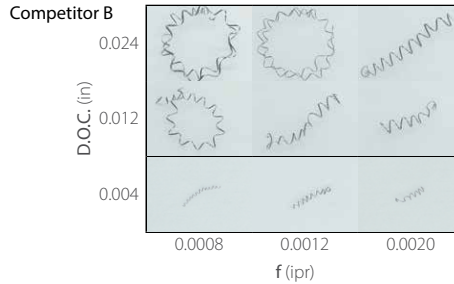
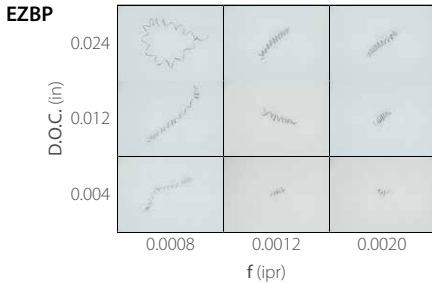
Part Number	Min. Bore Dia.	Dimensions (mm)									Grades	Applicable Sleeve See P25-P31	
		DMIN	DCON	H	LF	LU	WF	WF ₂	LBB	RE	APMX		MEGACOAT
													PR1225
EZBPR 020020-005-08	2	2	1.65	31.8	8	0.55	0.35	1.0	0.05 ±0.01	0.3	●	EZH020...	
020020-005-10				33.8	10						●		
020020-005-12				35.8	12						●		
030030-005-12	3	3	2.5	37.7	12	1.05	0.45	1.2	0.05 ±0.01	0.4	●	EZH030...	
030030-005-15				40.7	15						●		
040040-015	4	4	3.45	48.7	20	1.65	0.65	1.5	0.15 ±0.02	0.6	●	EZH040...	
050050-015	5	5	4.3	57.8	25	2	1.1	2.2	0.15 ±0.02	0.8	●	EZH050...	
060060-015	6	6	5.15	65.7	30	2.45	1.35	2.5	0.15 ±0.02	1	●	EZH060...	

EZ Bars Sold in 1 Piece Boxes

● : Standard Item

Chip Control Comparison (Internal Evaluation)

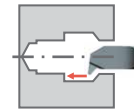
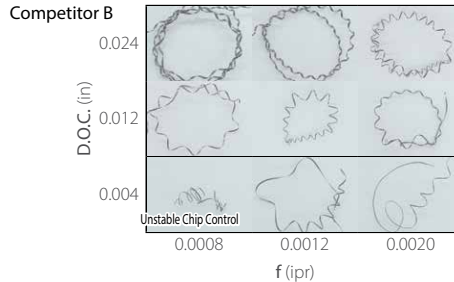
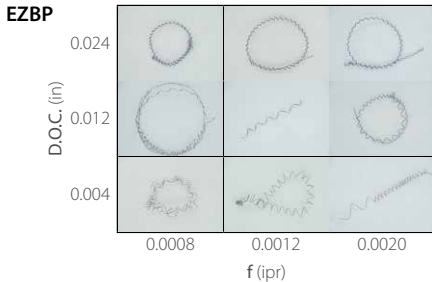
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Cutting Conditions : Vc = 260 sfm, Wet
Workpiece : 1045 (Ø14mm)
EZBPR040040-015 PR1225

EZBP showed better chip breaking in a wide range of machining applications compared to competitor B

Boring

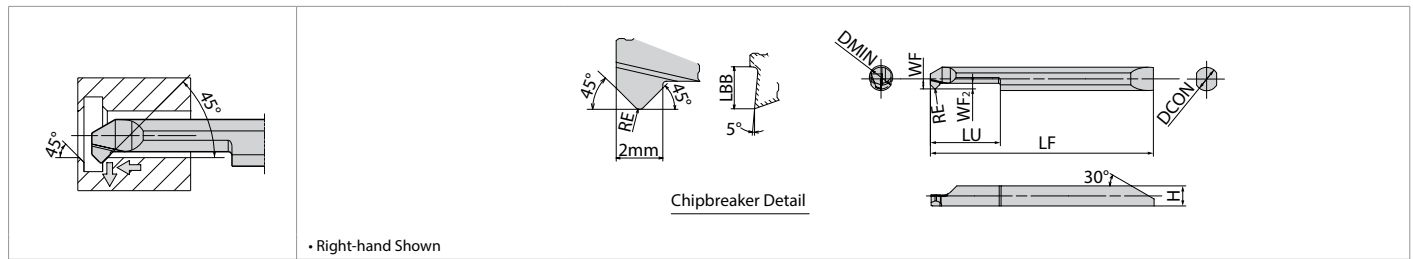


Cutting Conditions : Vc = 260 sfm, Wet
Workpiece : 1045 (Ø14mm)
EZBPR040040-015 PR1225

EZBP showed better chip control than competitor B

Recommended Cutting Conditions

Workpiece	Insert Grade (Vc : sfm)	EZBPR020020-005-08/10/12		EZBPR030030-005-12/15		EZBPR040040-015		EZBPR050050-015		EZBPR060060-015		Notes
	MEGACOAT	Depth of Cut: D.O.C. (inch), Feed: f (ipr)										
	PR1225	D.O.C.	f	D.O.C.	f	D.O.C.	f	D.O.C.	f	D.O.C.	f	
Carbon Steel / Alloy Steel	100 - 330	~ 0.0118	~ 0.0020	~ 0.0157	~ 0.0020	~ 0.0236	~ 0.0020	~ 0.0315	~ 0.0020	~ 0.0394	~ 0.0020	Wet
Stainless Steel	100 - 260	~ 0.0118	~ 0.0020	~ 0.0157	~ 0.0020	~ 0.0236	~ 0.0020	~ 0.0315	~ 0.0020	~ 0.0394	~ 0.0020	



EZ Bar Dimensions

Part Number	Min. Bore Dia.	Dimensions (mm)								Grades	Applicable Sleeve See P25-P31	
		DMIN	DCON	H	LF	LU	WF	WF ₂	LBB	RE		MEGACOAT
												PR1225
EZBCR 050050-020-15	5	5	4.3	47.8	15	2.15	1.2	1.8	0.02 ±0.02	●	EZH050...	
050050-020-20				52.8	20							
060060-020-18	6	6	5.15	53.7	18	2.65	1.9	2.5		●	EZH060...	
060060-020-24				59.7	24							
070070-020-21	7	7	6.2	59.7	21	3	2.5	3.1		●	EZH070...	
070070-020-42				80.7	28							

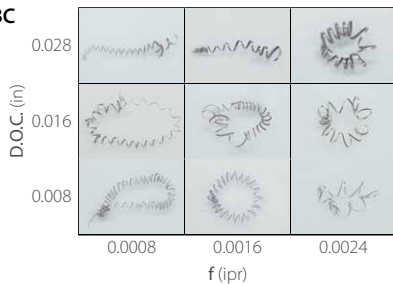
Chip Control Comparison (Internal evaluation)

EZ Bars Sold in 1 Piece Boxes

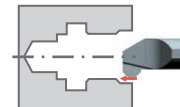
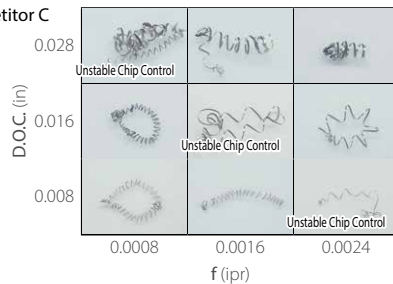
● : Standard Item

Boring

EZBC



Competitor C

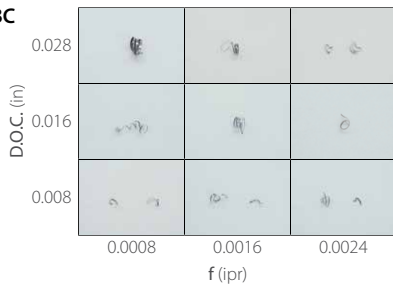


Cutting Conditions : Vc = 260 sfm, Wet
Workpiece : 304 (Ø14mm)
EZBCR050050-020-15 PR1225

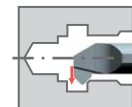
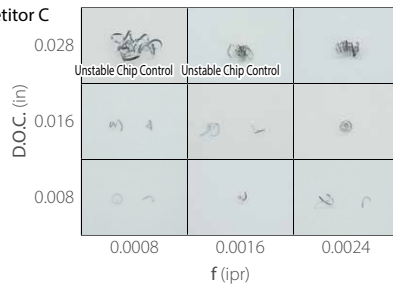
EZBC reduced chip clogging and showed stable chip control

Chamfering

EZBC



Competitor C



Cutting Conditions : Vc = 260 sfm, Wet
Workpiece : 304 (Ø14mm)
EZBCR050050-020-15 PR1225

EZBC showed improved chip evacuation and better chip control at large D.O.C. compared to competitor C

Recommended Cutting Conditions

Workpiece	Insert Grade (Vc : sfm)	EZBC050050-020-15/20		EZBC060060-020-18/24		EZBC070070-020-21/42		Notes
	MEGACOAT	Depth of Cut: D.O.C. (inch), Feed: f (ipr)						
	PR1225	D.O.C.	f	D.O.C.	f	D.O.C.	f	
Carbon Steel / Alloy Steel	100 - 330	~ 0.0276	~ 0.0024	~ 0.0276	~ 0.0024	~ 0.0276	~ 0.0024	Wet
Stainless Steel	100 - 260	~ 0.0276	~ 0.0024	~ 0.0276	~ 0.0024	~ 0.0276	~ 0.0024	

Recommended Cutting Conditions

H Chipbreaker EZB-HP...H Type / EZB-ST...H Type

Workpiece	Insert Grade (Vc : sfm)			EZB%020/025		EZB%030/035		EZB%040/045		EZB%050/055/060/065/070/075/080		Notes
	MEGACOAT NANO PLUS	MEGACOAT	Carbide	D.O.C. : (inch), f : (ipr)								
	PR1725	PR1225	GW05	D.O.C.	f	D.O.C.	f	D.O.C.	f	D.O.C.	f	
Carbon Steel / Alloy Steel	100~390	100~330	-	~0.0118	~0.0012	~0.0157	~0.0016	~0.0177	~0.0028	~0.0197	~0.0039	Wet
Stainless Steel	100~330	100~260	-	~0.0079	~0.0008	~0.0118	~0.0012	~0.0138	~0.0020	~0.0157	~0.0028	
Non-ferrous Metals	-	-	~330	~0.0118	~0.0020	~0.0157	~0.0024	~0.0177	~0.0039	~0.0197	~0.0059	

H Chipbreaker (EZB-HP...H-LT Long Type)

Workpiece	Insert Grade (Vc : sfm)		EZBR020/025/030/035				EZBR040/050/060				Notes
	MEGACOAT		D.O.C. : (inch), f : (ipr)								
	PR1225		D.O.C.	f	D.O.C.	f	D.O.C.	f			
Carbon Steel / Alloy Steel	100~200		~0.0118		~0.0020		~0.0157		~0.0039	Wet	
Stainless Steel	70~130		~0.0098		~0.0020		~0.0118		~0.0028		

G Chipbreaker EZB-HP...G Type

Workpiece	Insert Grade (Vc : sfm)		EZBR020/025		EZBR030/035		EZBR040/045/050/060/070/080				Notes
	MEGACOAT NANO PLUS		D.O.C. : (inch), f : (ipr)								
	PR1725		D.O.C.	f	D.O.C.	f	D.O.C.	f			
Carbon Steel / Alloy Steel	100~390		~0.0098	~0.0012	~0.0118	~0.0020	~0.0138	~0.0028	Wet		
Stainless Steel	100~330		~0.0079	~0.0008	~0.0098	~0.0012	~0.0118	~0.0020			

F Chipbreaker EZB-HP...F Type / EZB-ST...F Type

Workpiece	Insert Grade (Vc : sfm)			EZBR020/025		EZBR030/035		EZBR040/045		EZBR050/055/060/065/070/075/080		Notes
	MEGACOAT NANO PLUS	MEGACOAT	D.O.C. : (inch), f : (ipr)									
	PR1725	PR1225	D.O.C.	f	D.O.C.	f	D.O.C.	f	D.O.C.	f		
Carbon Steel / Alloy Steel	100~390	100~330	~0.0079	~0.0012	~0.0079	~0.0020	~0.0118	~0.0028	~0.0118	~0.0028	Wet	
Stainless Steel	100~330	100~260	~0.0079	~0.0008	~0.0079	~0.0012	~0.0098	~0.0020	~0.0098	~0.0020		

NB Type (without Chipbreaker)

Workpiece	Insert Grade (Vc : sfm)		EZBR020/025		EZBR030/035		EZBR040/045		EZBR050/055/060/065/075		Notes
	MEGACOAT	Carbide	D.O.C. : (inch), f : (ipr)								
	PR1225	GW05	D.O.C.	f	D.O.C.	f	D.O.C.	f	D.O.C.	f	
Carbon Steel / Alloy Steel	100~330	-	~0.0118	~0.0012	~0.0157	~0.0016	~0.0177	~0.0028	~0.0197	~0.0039	Wet
Stainless Steel	100~260	-	~0.0079	~0.0008	~0.0118	~0.0012	~0.0138	~0.0020	~0.0157	~0.0028	
Non-ferrous Metals	-	~330	~0.0118	~0.0020	~0.0157	~0.0024	~0.0177	~0.0028	~0.0197	~0.0039	

Workpiece	Insert Grade (Vc : sfm)		EZBR030		EZBR040/045		EZBR050/060/070		Notes		
	MEGACOAT CBN	PCD	D.O.C. : (inch), f : (ipr)								
	KBN05M	KPD001	D.O.C.	f	D.O.C.	f	D.O.C.	f			
Non-ferrous Metals	-	~980	-	-	~0.0177	~0.0039	~0.0197	~0.0059	Wet		
Hardened Materials (Heat-treated Steel)	~330	-	~0.0028	~0.0012	~0.0039	~0.0020	~0.0059	~0.0028			

Recommended Cutting Conditions

EZBF (90° Lead Boring)

Workpiece	Insert Grade (Vc : sfm)	EZBFR030		EZBFR040		EZBFR050/060		Notes
	MEGACOAT	Depth of Cut: D.O.C. (inch), Feed: f (ipr)						
	PR1225	D.O.C.	f	D.O.C.	f	D.O.C.	f	
Carbon Steel / Alloy Steel	100 - 330	~0.0079	~0.0020	~0.0118	~0.0020	~0.0197	~0.0020	Wet
Stainless Steel	100 - 260	~0.0079	~0.0020	~0.0118	~0.0020	~0.0197	~0.0020	

EZBT (Back Boring)

Workpiece	Insert Grade (Vc : sfm)		EZBTR040		EZBTR050		Notes
	MEGACOAT	Carbide	D.O.C. : (inch), f : (ipr)				
	PR1225	GW05	D.O.C.	f	D.O.C.	f	
Carbon Steel / Alloy Steel	100 - 330	-	- 0.012	- 0.0012	- 0.020	- 0.0039	Wet
Stainless Steel	100 - 260	-	- 0.008	- 0.0008	- 0.016	- 0.0028	
Non-ferrous Metals	-	- 330	- 0.012	- 0.0020	- 0.020	- 0.0059	

EZVB (Boring / Internal Facing / Internal Profiling)

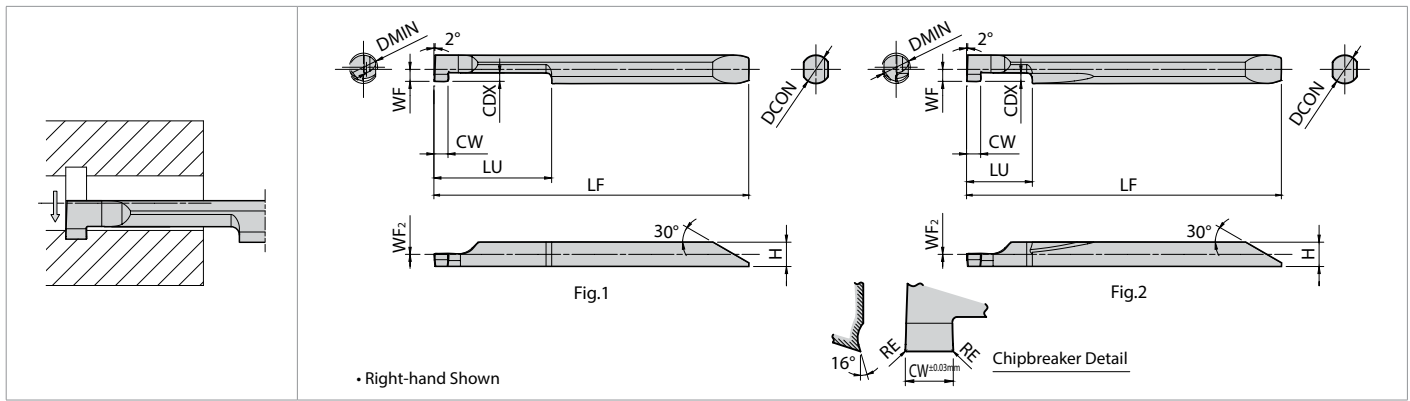
Workpiece	Insert Grade (Vc : sfm)	EZVBR035 Type		EZVBR045		EZVBR055/065		Notes
	MEGACOAT	D.O.C. : (inch), f : (ipr)						
	PR1225	D.O.C.	f	D.O.C.	f	D.O.C.	f	
Carbon Steel / Alloy Steel	100~330	~0.0020	~0.0016	~0.0028	~0.0028	~0.0039	~0.0028	Wet
Stainless Steel	100~260	~0.0012	~0.0012	~0.0020	~0.0020	~0.0028	~0.0020	

EZBP (Copying)

Workpiece	Insert Grade (Vc : sfm)	EZBPR020020-005-08/10/12		EZBPR030030-005-12/15		EZBPR040040-015		EZBPR050050-015		EZBPR060060-015		Notes
	MEGACOAT	Depth of Cut: D.O.C. (inch), Feed: f (ipr)										
	PR1225	D.O.C.	f	D.O.C.	f	D.O.C.	f	D.O.C.	f	D.O.C.	f	
Carbon Steel / Alloy Steel	100 - 330	~ 0.0118	~ 0.0020	~ 0.0157	~ 0.0020	~ 0.0236	~ 0.0020	~ 0.0315	~ 0.0020	~ 0.0394	~ 0.0020	Wet
Stainless Steel	100 - 260	~ 0.0118	~ 0.0020	~ 0.0157	~ 0.0020	~ 0.0236	~ 0.0020	~ 0.0315	~ 0.0020	~ 0.0394	~ 0.0020	

EZBC (45° Chamfering)

Workpiece	Insert Grade (Vc : sfm)	EZBC050050-020-15/20		EZBC060060-020-18/24		EZBC070070-020-21/42		Notes
	MEGACOAT	Depth of Cut: D.O.C. (inch), Feed: f (ipr)						
	PR1225	D.O.C.	f	D.O.C.	f	D.O.C.	f	
Carbon Steel / Alloy Steel	100 - 330	~ 0.0276	~ 0.0024	~ 0.0276	~ 0.0024	~ 0.0276	~ 0.0024	Wet
Stainless Steel	100 - 260	~ 0.0276	~ 0.0024	~ 0.0276	~ 0.0024	~ 0.0276	~ 0.0024	



EZ Bar Dimensions

Part Number	Min. Bore Dia. DMIN	Dimensions (mm)									Drawing	MEGACOAT		Carbide		Applicable Sleeve See P25-P31
		CW±0.03	RE	DCON	H	LF	LU	WF	L4	CDX		PR1225		GW05		
												R	L	R	L	
EZG% 040040-050	4	0.5	0.05 ±0.013	4	3.45	44.7	12	1.70	0	1.0	Fig.2	●	●	●		EZH040..
040040-100		1.0										●	●	●		
040040-150		1.5										●	●	●		
040040-200		2.0										●	●	●		
050050-100	5	1.0	0.05 ±0.013	5	4.30	52.8	20	2.15	0	1.5	Fig.1	●	●	●		EZH050..
050050-150		1.5										●	●	●		
050050-200		2.0										●	●	●		
060060-100	6	1.0	0.05 ±0.013	6	5.15	60.7	20	2.65	0	2.0	Fig.1	●	●	●		EZH060..
060060-150		1.5										●	●	●		
060060-200		2.0										●	●	●		
070070-100	7	1.0	0.05 ±0.013	7	6.20	63.7	25	3.05	0	2.0	Fig.1	●	●	●		EZH070..
070070-150		1.5										●	●	●		
070070-200		2.0										●	●	●		
080070-100	8	1.0	0.05 ±0.013	7	6.20	63.7	25	3.45	0	2.0	Fig.1	●	●	●		EZH070..
080070-150		1.5										●	●	●		
080070-200		2.0										●	●	●		
EZGR 030030-050S	3	0.5	0.05 ±0.013	3	2.50	38.7	5	1.25	0	0.8	Fig.2	●				EZH030..
030030-100S		1.0										●				
040040-050S	4	0.5	0.05 ±0.013	4	3.45	44.7	8	1.70	0	1.0	Fig.2	●				EZH040..
040040-100S		1.0										●				
040040-150S		1.5										●				
040040-200S	5	2.0	0.05 ±0.013	5	4.30	52.8	10	2.15	0	1.5	Fig.2	●				EZH050..
050050-100S		1.0										●				
050050-150S		1.5										●				
050050-200S	6	2.0	0.05 ±0.013	6	5.15	60.7	10	2.65	0	2.0	Fig.2	●				EZH060..
060060-100S		1.0										●				
060060-150S		1.5										●				
060060-200S	7	2.0	0.05 ±0.013	7	6.20	63.7	10	3.05	0	2.0	Fig.2	●				EZH070..
070070-100S		1.0										●				
070070-150S		1.5										●				
070070-200S	8	2.0	0.05 ±0.013	7	6.20	63.7	10	3.45	0	2.0	Fig.2	●				EZH070..
080070-100S		1.0										●				
080070-150S		1.5										●				
080070-200S		2.0										●				

Dimension CDX shows available grooving depth
"S" in part number represents short length

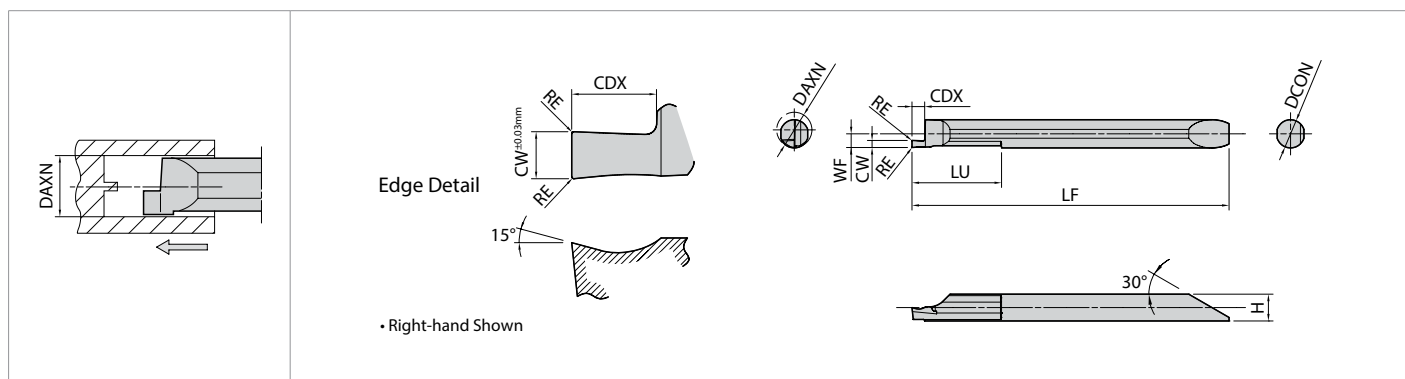
EZ Bars Sold in 1 Piece Boxes

● : Standard Item

Recommended Cutting Conditions

Workpiece	Insert Grade (Vc: sfm)		EZGR030030-...S (Short Length)	EZGR040040-... EZGR050050-... (Short Length)	EZGR040040-...S EZGR050050-...S (Short Length)	EZGR060060-... EZGR070070-... EZGR080070-... (Short Length)	EZGR060060-...S EZGR070070-...S EZGR080070-...S (Short Length)	Notes
	MEGACOAT	Uncoated Carbide						
	PR1225	GW05						
Carbon Steel / Alloy Steel	★ 100~330	-	~0.0008	~0.0012	~0.0020			Wet
Stainless Steel	★ 100~260	-	~0.0004	~0.0008	~0.0012			
Non-ferrous Metals	-	★ ~980	-	~0.0020	~0.0031			

★ : 1st Recommendation



EZ Bar Dimensions

Part Number	Min. Face Groove Dia. DAXN	Dimensions (mm)								MEGACOAT		Carbide		Applicable Sleeve See P25-P31
		CW ^{±0.03}	RE	DCON	H	LF	LU	WF	CDX	PR1225		GW05		
										R	L	R	L	
EZFG% 050040-100	5	1.0	0.05 ^{±0.013}	4	3.8	45.0	12	1.9	1.5	●	●	●		EZH040..
050040-150		1.5								●	●	●		
EZFG% 060050-100	6	1.0	0.05 ^{±0.013}	5	4.8	53.2	25	2.4	1.5	●	●	●		EZH050..
060050-150		1.5								●	●	●		
060050-200		2.0								●	●	●		
EZFG% 080070-100	8	1.0	0.05 ^{±0.013}	7	6.8	64.2	25	3.4	2.0	●	●	●		EZH070..
080070-150		1.5								●	●	●		
080070-200		2.0								●	●	●		
080070-300		3.0								●	●	●		

Dimension CDX shows available grooving depth

EZ Bars Sold in 1 Piece Boxes

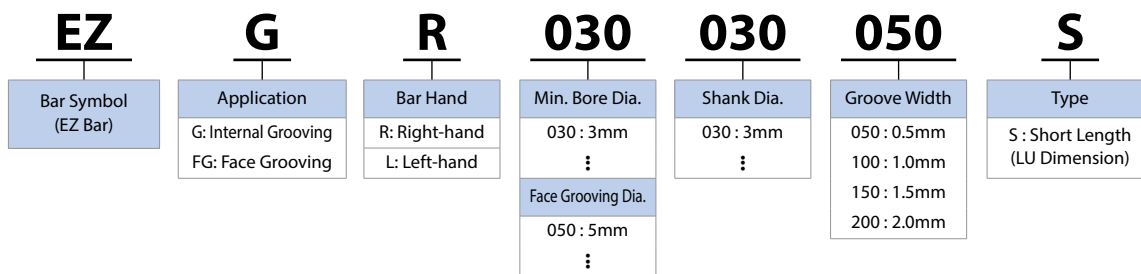
● : Standard Item

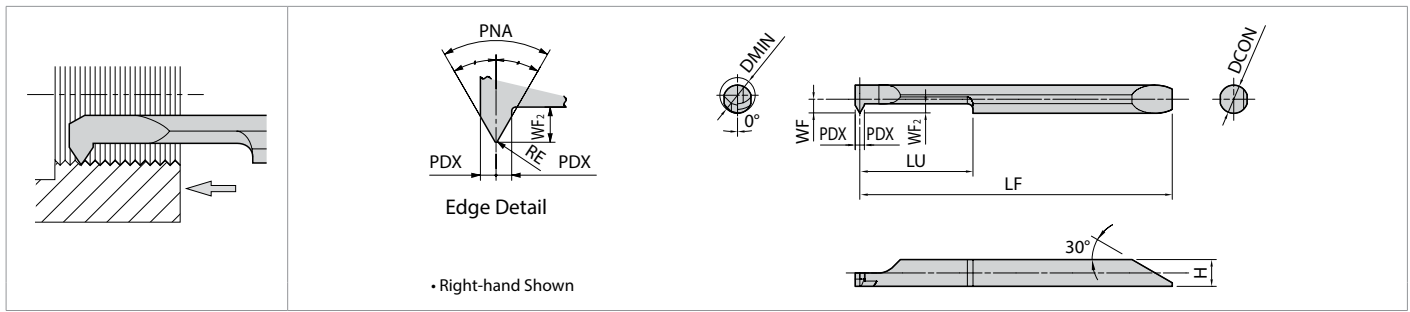
Recommended Cutting Conditions

Workpiece	Insert Grade (Vc : sfm)		EZFGR050040-100 EZFGR060050-100 EZFGR080070-100	EZFGR050040-150 EZFGR060050-150 EZFGR080070-150	EZFGR060050-200 EZFGR080070-200	EZFGR080070-300	Notes
	MEGACOAT	Uncoated Carbide					
	PR1225	GW05	f : (ipr)				
Carbon Steel / Alloy Steel	★ 100~330	-	~0.0008	~0.0012	~0.0016	~0.0020	Wet
Stainless Steel	★ 100~260	-	~0.0004	~0.0008	~0.0008	~0.0012	
Non-ferrous Metals	-	★ ~980	~0.0012	~0.0020	~0.0024	~0.0031	

★ : 1st Recommendation

Bar Identification System (Internal Grooving, Face Grooving)





EZ Bar Dimensions

Part Number	Min. Bore Dia.	Dimensions (mm)										MEGA/COAT	Uncoated Carbide	Applicable Threads					
		DMIN	DCON	H	LF	LU	WF	S	PDX	RE	PNA			Metric		Unified		American National Pipe	
														Applicable Thread	Pitch (mm)	Applicable Thread	Pitch (TPI)	Applicable Thread	Pitch (TPI)
EZTR 030025-60-002	3.0	2.5	2.3	35.0	6.5	1.19	1.0	0.50	0.020 ^{+0.010}	60°	●	●	M4 or more Fine Thread: M3.5 or more	P0.50~P0.80	No.8-32UNC No. 8-36UNF or more	36~32	-	-	
035030-60-002	3.5	3.0	2.8	39.0	9.0	1.44	1.2	0.60					M4.5 or more Fine Thread: M4.5 or more	P0.50~P1.00	No.10-24UNC No. 8-36UNF or more	36~24	-	-	
040035-60-004	4.0	3.5	3.3	42.0	11.0	1.69	1.2	0.60					M5 or more Fine Thread: M6 or more	P0.75~P1.25	No.12-24UNC No. 12-28UNF or more	28~20	-	-	
050040-60-004	5.0	4.0	3.8	45.0	16.0	1.94	1.3	0.65					M7 or more Fine Thread: M6 or more	P0.75~P1.50	1/4-20UNC 1/4-28UNF or more	28~18	-	-	
060050-60-004	6.0	5.0	4.8	53.2	20.0	2.44	1.6	0.80					M8 or more Fine Thread: M7 or more	P0.75~P1.50	5/16-18UNC 5/16-24UNF or more	24~16	1/4NPT 3/8NPT	18	
070060-60-004	7.0	6.0	5.8	61.2	25.0	2.94	2.0	1.00					M9 or more Fine Thread: M8 or more	P0.75~P1.75	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	53.2	20.0	2.44	1.6	0.80	0.085 ^{+0.015}	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	64.2	25.0	3.44	2.0	1.00					W11 TPI 220 or more	20~18	G1/8 or more R1/8 or more	28,19	-	-	

For American National Pipe (NPT), use EZTR..-60-004 **P23**
Applicable Sleeves **P25-P31**

EZ Bars Sold in 1 Piece Boxes

● : Standard Item

D.O.C. & Number of Passes (Metric)

Pitch (mm)	Total D.O.C. (mm)	No. of Passes	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
0.50	0.30	9	0.05	0.05	0.04	0.04	0.03	0.03	0.02	0.02	0.02											
0.70	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	0.03	0.03											
0.80	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	1.10	20	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.03

D.O.C. & Number of Passes (Whitworth)

TPI	Total D.O.C. (in)	No. of Passes	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	0.026	13	0.0028	0.0028	0.0024	0.0024	0.0024	0.0020	0.0020	0.0020	0.0016	0.0016	0.0016	0.0012	0.0012							
20	0.032	15	0.0028	0.0028	0.0028	0.0028	0.0024	0.0024	0.0024	0.0024	0.0020	0.0020	0.0020	0.0016	0.0016	0.0012	0.0012					
18	0.036	17	0.0028	0.0028	0.0028	0.0028	0.0028	0.0024	0.0024	0.0024	0.0024	0.0020	0.0020	0.0020	0.0016	0.0016	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012

D.O.C. & Number of Passes (Unified)

TPI	Total D.O.C. (in)	No. of Passes	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	0.017	10	0.0024	0.0024	0.0024	0.0020	0.0020	0.0020	0.0016	0.0012	0.0008	0.0008									
32	0.020	11	0.0024	0.0024	0.0024	0.0020	0.0020	0.0020	0.0016	0.0016	0.0012	0.0012	0.0012								
28	0.022	12	0.0028	0.0024	0.0020	0.0020	0.0020	0.0020	0.0016	0.0016	0.0012	0.0012	0.0012								
24	0.026	12	0.0028	0.0028	0.0024	0.0024	0.0024	0.0020	0.0020	0.0020	0.0020	0.0016	0.0016	0.0012							
20	0.031	14	0.0028	0.0028	0.0028	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	0.0020	0.0020	0.0016	0.0016	0.0012					
18	0.035	17	0.0028	0.0028	0.0028	0.0024	0.0024	0.0024	0.0024	0.0024	0.0020	0.0020	0.0020	0.0016	0.0016	0.0016	0.0016	0.0012	0.0012	0.0012	0.0012
16	0.039	18	0.0028	0.0028	0.0028	0.0028	0.0024	0.0024	0.0024	0.0024	0.0024	0.0024	0.0020	0.0020	0.0020	0.0016	0.0016	0.0016	0.0016	0.0012	0.0012

Recommended Cutting Conditions

Workpiece	Recommended Insert Grade (Vc : sfm)	
	MEGACOAT	Uncoated Carbide
	PR1225	GW05
Carbon Steel / Alloy Steel	★ 100~160	-
Stainless Steel	★ 100~160	-
Non-ferrous Metals	-	★ 100~160

Note

- 1) The standard cutting speed is Vc = 100 - 160 sfm. 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 & Tapered Pipe Thread

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

Applicable Thread	TPI	Internal Threading (G, Rp)			Same Root's Radius External Threading Internal Threading
		Symbol	Insert	Bore Dia. (mm)	
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	Internal Threading (Rc)			Same Root's Radius External Threading Internal Threading
		Symbol	Insert	Bore Dia. (mm)	
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, the 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.

D.O.C. & Number of Passes (Parallel Pipe / Tapered Pipe)

TPI	Total D.O.C. (in)	No. of Passes	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	0.024	12	0.0028	0.0028	0.0024	0.0024	0.0024	0.0020	0.0020	0.0020	0.0016	0.0016	0.0012	0.0012						
19	0.037	18	0.0028	0.0028	0.0028	0.0028	0.0024	0.0024	0.0024	0.0024	0.0024	0.0020	0.0020	0.0020	0.0016	0.0016	0.0016	0.0016	0.0012	0.0012

Application of American National Pipe Thread (NPT)

Applicable Thread	TPI	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	-	16IR14NPT

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 and the above bars are not available for NPTF.

D.O.C. & Number of Passes (American National Pipe Thread)

TPI	Total D.O.C. (in)	No. of Passes	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	0.048	16	0.0071	0.0055	0.0047	0.0047	0.0039	0.0035	0.0031	0.0031	0.0028	0.0024	0.0020	0.0016	0.0012	0.0012	0.0008	0.0008			
14	0.061	19	0.0071	0.0063	0.0055	0.0055	0.0047	0.0039	0.0035	0.0035	0.0031	0.0028	0.0028	0.0024	0.0020	0.0020	0.0016	0.0016	0.0012	0.0012	0.0008

Toolholder Dimensions (CC... Inserts)

S-SCLC

Maximum overhang length - L/D = ~3

Fig.1

Fig.2

Fig.3

• Right-hand shown • Left-hand insert for Right-hand Bar

C-SCLC

Maximum overhang length - L/D = ~5

Fig.4

Fig.5

Fig.6

• Right-hand shown • Left-hand insert for Right-hand Bar

Part Number	Stock	Min. Bore Dia.	Dimensions (mm)					GAMO	Standard Corner-R (RE)	Coolant Hole	Drawing	Spare Parts		Applicable Sleeve See P25-P31
			R	D _{MIN}	D _{CON}	H	LF					LH	WF	
Steel	●	5	4.5	4.3	42.4	-	2.5	15°	No	No	Fig.1	SB-1635TR	FT-6	EZH045...
	●	6	5.0	4.7	48.4	9.0	3.0	13°			0.2			Fig.2
	●	7	6.0	5.7	54.4	10.0	3.5	13°			0.2	Fig.2	SB-2035TR	EZH060...
	●	8	7.0	6.7	60.4	10.3	4.0	11°			0.2	Fig.2		EZH070...
	●	10	8.0	7.5	69.5	13.3	5.0	14°			0.4	Fig.3		SB-2545TR
Carbide	●	5	4.5	4.3	51.4	-	2.5	15°	No	No	Fig.4	SB-1635TR	FT-6	EZH045...
	●	6	5.0	4.7	58.4	9.0	3.0	13°			0.2			Fig.5
	●	7	6.0	5.7	66.4	10.0	3.5	13°			0.2	Fig.5	SB-2035TR	EZH060...
	●	8	7.0	6.7	74.4	11.0	4.0	11°			0.2	Fig.5		EZH070...
	●	10	8.0	7.5	85.5	14.0	5.0	14°			0.4	Fig.6		SB-2545TR

● : Standard Item

Toolholder Dimensions (TB... / TP... Inserts)

S-STLB(P)

Fig.1

Fig.2

• Right-hand shown • Left-hand insert for Right-hand Bar

C-STLB(P)

Fig.3

Fig.4

• Right-hand shown • Left-hand insert for Right-hand Bar

Part Number	Stock	Min. Bore Dia.	Dimensions (mm)										θ	Standard Corner-R (RE)	Coolant Hole	Drawing	Spare Parts		Applicable Sleeve See P25-P31
			R	ØA	ØD	H	L1	L2	L3	L4	F	S					Clamp Screw	Wrench	
Steel	●	8	7	6.7	60.4	10.3	-	12	4	0.4	12°	No	No	Fig.1	SB-2035TR	FT-6	EZH070...		
	●	10	8	7.5	69.5	13.3	15	15	5	0.5	10°			0.4	Fig.2	SB-2545TR	FT-8	EZH080...	
Carbide	●	8	7	6.7	74.4	11.0	-	12	4	0.4	12°	No	No	Fig.3	SB-2035TR	FT-6	EZH070...		
	●	10	8	7.5	85.5	14.0	15	15	5	0.5	10°			0.4	Fig.4	SB-2545TR	FT-8	EZH080...	

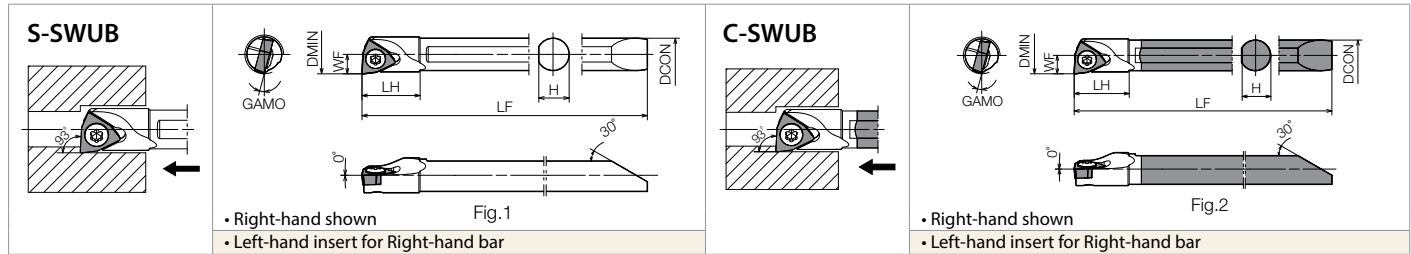
● : Standard Item

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

EZ Bar PLUS (Indexable Boring Bar)

Toolholder Dimensions (WB... Inserts)

Applicable Inserts: ...SWUBR06... = WB.121...
...SWUBR08... = WB.1515..

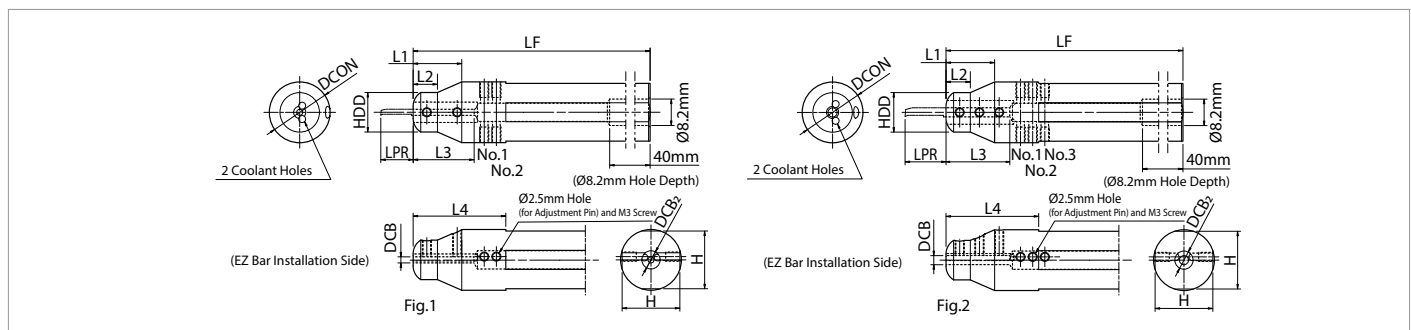


Part Number	Stock	Min. Bore Dia.	Dimensions (mm)						GAMO	Standard Corner-R (RE)	Coolant Hole	Drawing	Spare Parts		Applicable Sleeve See P25-P31
			R	DMIN	DCON	H	LF	LH					WF	Clamp Screw	
Steel	S050X-SWUBR06-060EZP	●	6	5	4.7	48.4	9.0	3.0	15°	0.2	No	Fig.1	SB-2035TR	FT-6	EZH050...
	S060X-SWUBR06-070EZP	●	7	6	5.7	54.4	10.0	3.5	13°	0.2					EZH060...
	S070X-SWUBR08-080EZP	●	8	7	6.7	60.4	10.3	4.0	15°	0.2					EZH070...
Carbide	C050X-SWUBR06-060EZP	●	6	5	4.7	58.4	9.0	3.0	15°	0.2		Fig.2	SB-2035TR	FT-6	EZH050...
	C060X-SWUBR06-070EZP	●	7	6	5.7	66.4	10.0	3.5	13°	0.2					EZH060...
	C070X-SWUBR08-080EZP	●	8	7	6.7	74.4	11.0	4.0	15°	0.2					EZH070...

● : Standard Item

Applicable Sleeves (EZH-CT Type)

With Coolant Hole and EZ Adjust Structure



Sleeve Dimensions

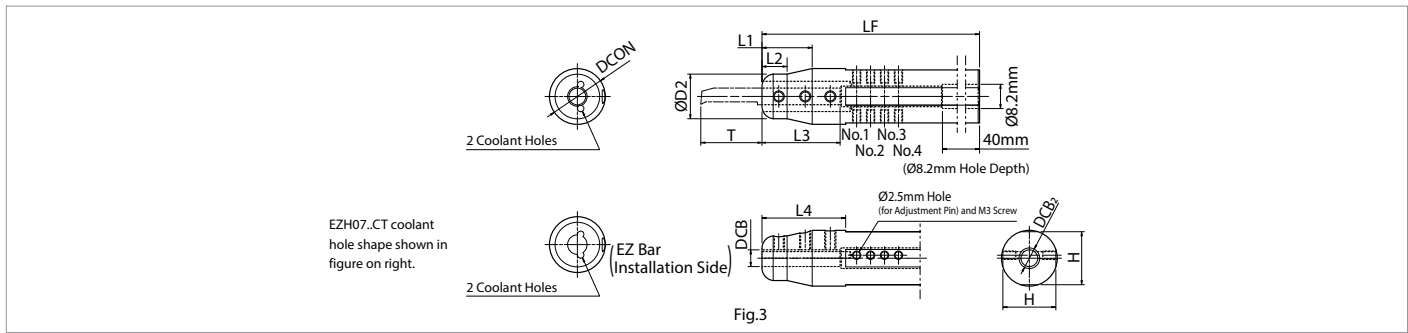
Part Number	Stock	Dimensions (mm)											Bar Overhang Length *LPR (mm) Adjustment Pin Setting				Drawing	Applicable EZ Bar See P6-P16	
		DCB	DCON	HDD	DCB ₂	H	LF	L1	L2	*L3	L4	No.1	No.2	No.3	No.4				
EZH 01719CT-120	●		0.750"			18.0	120											Fig.1	EZBR...017...
	●		20.00			19.0	120												
	●	1.7	22.00	13	6	21.0	135	16	8	16	41.5	7.5	3.5	-	-				
	●		25.00			24.0	135				30.5								
	●		1.000"			24.4	120				30.5								
EZH 02019CT-120	●		0.750"			18.0	120										Fig.1	EZB%...020... EZBPR...020...	
	●		20.00			19.0	120												
	●	2.0	22.00	13	6	21.0	135	16	8	20	41.5	8.5	4.5	-	-				
	●		25.00			24.0	135				30.5								
	●		1.000"			24.4	120				30.5								
EZH 02519CT-120	●		0.750"			18.0	120										Fig.1	EZB%...025... EZTR...025...	
	●		20.00			19.0	120												
	●	2.5	22.00	13	6	21.0	135	16	8	20	41.5	11	7	-	-				
	●		25.00			24.0	135				30.5								
	●		1.000"			24.4	120				30.5								
EZH 03019CT-120	●		0.750"			18.0	120										Fig.2	EZB%...030... EZBFR...030... EZVBR...030... EZBPR...030... EZGR...030... EZTR...030...	
	●		20.00			19.0	120												
	●	3.0	22.00	13	6	21.0	135	16	8	21	41.5	13.5	9.5	5.5	-				
	●		25.00			24.0	135				30.5								
	●		1.000"			24.4	120				30.5								
EZH 03519CT-120	●		0.750"			18.0	120										Fig.2	EZB%...035... EZTR...035...	
	●		20.00			19.0	120												
	●	3.5	22.00	13	6	21.0	135	16	8	21	41.5	15.5	11.5	7.5	-				
	●		25.00			24.0	135				31.1								
	●		1.000"			24.4	120				31.1								

*1: L3 shows DCB length. Choose sleeves (DCB) to match with DCON dimension of the bar

*2: Dimension LPR shows overhang length of the EZB Bar when attached to sleeve (with the exception of extended reach bars).

Ø8.2mm hole on the sleeve end is prepared with Rc1/8 threading. Please modify with additional machining if necessary. The sleeve hardness is 42HR.

● : Standard Item



Sleeve Dimensions

Part Number	Stock	Dimensions (mm)											Bar Overhang Length *LPR (mm)				Drawing	Applicable EZ Bar See P6-P16	
		DCB	DCON	HDD	DCB ₂	H	LF	L1	L2	*L3	L4	No.1	No.2	No.3	No.4				
EZH 04019CT-120	●		0.750"			18.0	120					32.7						Fig.3	EZB%L...040... EZBFR...040... EZBTR...040... EZVBR...040... EZBPR...040... EZG%L...040... EZFG%L...040... EZTR...040...
04020CT-120	●		20.00			19.0	120					32.7							
04022CT-135	●	4	22.00	13	6.0	21.0	135	16	8	22		41.5	20.5	16.5	12.5	8.5			
04025.0CT-135	●		25.00			24.0	135					32.7							
04025.0CT-135	●		1.000"			24.4	120					32.7							
EZH 04519CT-120	●		0.75"			18	120					30.0					Fig.3	EZB%L...045... _045X...050EZP	
04520CT-120	●		20			19	120					30.0							
04522CT-135	●	4.5	22	16	6	21	135	18	9	23		44.0	23 (14)	18.5 (9.5)	14 (-)	9.5 (-)			
04525.0CT-135	●		25			24	135					30.0							
04525.4CT-120	●		1.00"			24.4	120					30.0							
EZH 05019CT-120	●		0.750"			18.0	120					30.0					Fig.3	EZB%L...050... EZBFR...050... EZBTR...050... EZVBR...050... EZBPR...050... EZBCR...050... EZG%L...050... EZFG%L...050... EZTR...050... _050X...060EZP	
05020CT-120	●		20.00			19.0	120					30.0							
05022CT-135	●	5	22.00	16	6.0	21.0	135	18	9	26		44.0	25.5 (15.5)	20.5 (10.5)	15.5 (-)	10.5 (-)			
05025.0CT-135	●		25.00			24.0	135					30.0							
05025.4CT-120	●		1.000"			24.4	120					30.0							
EZH 06019CT-120	●		0.750"			18.0	120					30.0					Fig.3	EZB%L...060... EZBFR...060... EZVBR...060... EZBPR...060... EZBCR...060... EZG%L...060... EZTR...060... _060X...070EZP	
06020CT-120	●		20.00			19.0	120					30.0							
06022CT-135	●	6	22.00	16	7.4	21.0	135	18	9	28		41.5	30.5 (18.5)	25.5 (13.5)	20.5 (-)	15.5 (-)			
06025.0CT-135	●		25.00			24.0	135					30.0							
06025.4CT-120	●		1.000"			24.4	120					30.0							
EZH 07019CT-120	●		0.750"			18.0	120					30.0					Fig.3	EZB%L...070... EZBCR...070... EZG%L...070... EZFG%L...070... EZTR...070... _070X...080EZP	
07020CT-120	●		20.00			19.0	120					30.0							
07022CT-135	●	7	22.00	16	7.4	21.0	135	18	9	29		44.0	35.5 (21.5)	30.5 (16.5)	25.5 (11.5)	20.5 (-)			
07025.0CT-135	●		25.00			24.0	135					30.0							
07025.4CT-120	●		1.000"			24.4	120					30.0							
EZH 08019CT-120	●		0.75"			18	120					34.0					Fig.3	EZB%L...080... _080X...100EZP	
08020CT-120	●		20			19	120					34.0							
08022CT-135	●	8.0	22	16	8.6	21	135	18	9	33		44.0	40.5 (24.5)	35.5 (19.5)	30.5 (14.5)	25.5 (-)			
08025.0CT-135	●		25			24	135					34.0							
08025.4CT-120	●		1.00"			24.4	120					34.0							

*1: L3 shows DCB length.

*2: Dimension LPR shows overhang length of the EZB Bar when attached to sleeve (with the exception of extended reach bars).

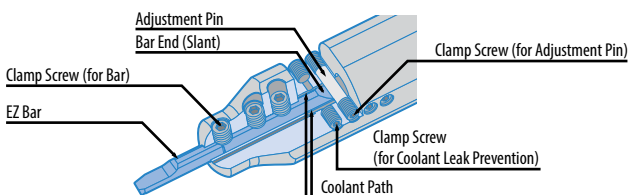
Dimension in () shows overhang length of the EZ Bar PLUS when installed into the sleeve.

Choose sleeves (DCB) that match DCON dimension of bar.

Ø8.2mm hole on the sleeve end is prepared with Rc1/8 threading. Please modify with additional machining if necessary. The sleeve hardness is 42HRC.

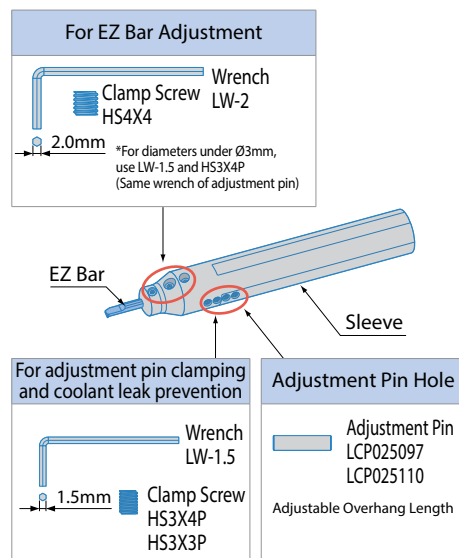
● : Standard Item

EZH-CT Internal Structure



Spare Parts (for EZH-CT Sleeves)

Part Number	Spare Parts				
	Adjustment Pin	Clamp Screw	Wrench	Clamp Screw	Wrench
EZH 017...CT- 020...CT- 025...CT- 030...CT- EZH 035...CT- 040...CT- 045...CT- 050...CT- 060...CT- 070...CT- 080...CT- LCP025097	LCP025097	HS3X4P (For Adjustment Pin, Coolant Leak Prevention, and Bar)	LW-1.5 Tightening Torque 1 Nm	HS3X4P	LW-1.5 Tightening Torque 1 Nm
LCP025097					
LCP025110	HS3X4P (For Adjustment Pin, Coolant Leak Prevention, and Bar)				



- 1) If shank dia. is $\varnothing 2.5\text{mm}$ or less, use 6 clamp screws (HS3X4P), distributed as follows:
 For Adjustment Pin.....2pcs
 For Coolant Leak Prevention2pcs
 For Bar.....2pcs
- 2) If shank dia. is $\varnothing 3\text{mm}$, use 9 clamp screws (HS3X4P), distributed as follows:
 For Adjustment Pin.....2pcs
 For Coolant Leak Prevention4pcs
 For Bar.....3pcs

How to Install Bar Into Sleeve

How to Use Adjustment Pin and Prevent Coolant Leakage (Fig.1)

- Put the adjustment pin into the hole according to the overhang length and push it into the sleeve using the wrench "LW-1.5".
- Tighten the clamp screw for the adjustment pin "HS3X4P" using the wrench "LW-1.5" from both sides of the sleeve.
- Put the additional clamp screws "HS3X4P" into the un-used adjustment pin holes to prevent coolant leakage using the wrench "LW-1.5" and fix them from both sides of the sleeve.

How to Secure the Bar (Fig.2)

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

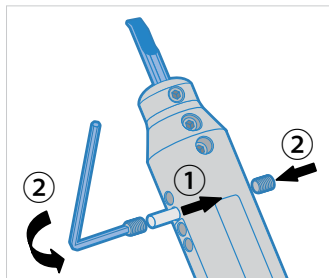


Fig. 1 How to Use Adjustment Pin

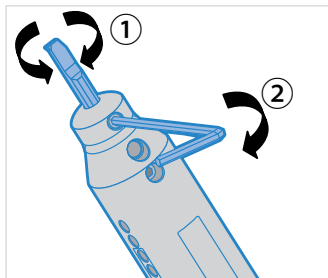


Fig. 2 How to Secure the Bar

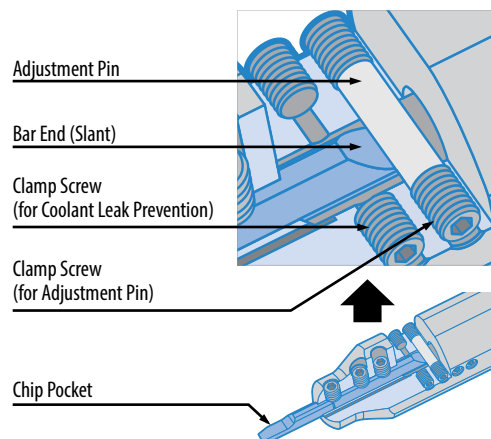
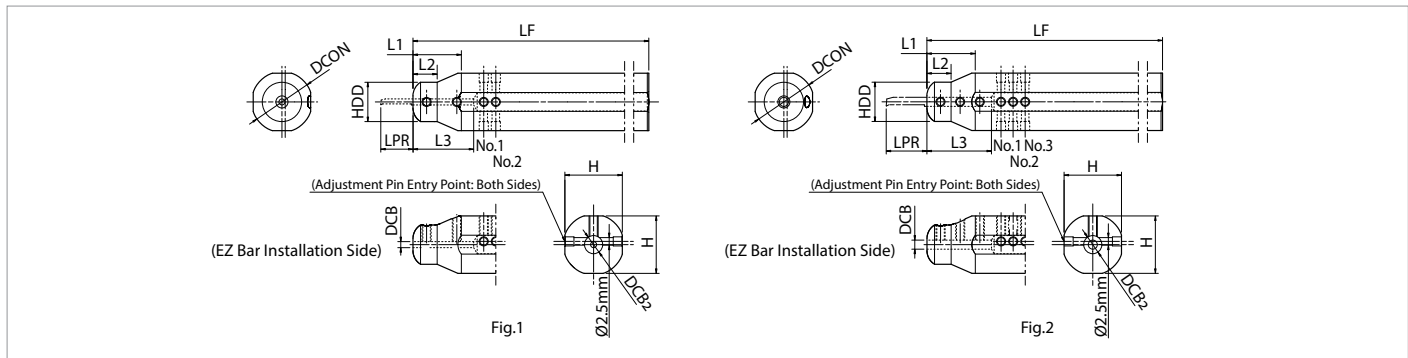


Fig. 3 Clamped Bar

Sleeve Identification System

EZ	H	020	19	CT	-	120
Bar Symbol (EZ Bar)	Application H-Sleeve	Shank Dia. of EZ Bar 020 : 2.0mm 025 : 2.5mm	Sleeve Shank Dia. 19 : 19.05mm 25.4 : 25.40mm	Precision Symbol CT: With Coolant Hole and EZ Adjust Structure HP: EZ Adjust Structure ST: Standard		Overall Length of Sleeve 120 : 120mm 135 : 135mm



Sleeve Dimensions

Part Number	Stock	Dimensions (mm)									Bar Overhang Length*LPR (mm)				Drawing	Applicable EZ Bar				
		DCB	DCON	HDD	DCB2	H	LF	L1	L2	*L3	No.1	No.2	No.3	No.4						
EZH 01716HP-100	●		16.00			15.0	100													
EZH 01719HP-120	●		0.750"			18.0	120													
EZH 01720HP-120	●	1.7	20.00	13	6	19.0	120	16	8	16	7.5	3.5	-	-	Fig.1	EZBR...017...				
EZH 01722HP-135	●		22.00			21.0	135													
EZH 01725.0HP-135	●		25.00			24.0	135													
EZH 01725.4HP-120	●		1.000"			24.4	120													
EZH 02016HP-100	●		16.00			15.0	100													
EZH 02019HP-120	●		0.750"			18.0	120													
EZH 02020HP-120	●	2.0	20.00	13	6	19.0	120	16	8	20	8.5	4.5	-	-	Fig.1	EZB% ...020...				
EZH 02022HP-135	●		22.00			21.0	135													
EZH 02025.0HP-135	●		25.00			24.0	135													
EZH 02025.4HP-120	●		1.000"			24.4	120													
EZH 02516HP-100	●		16.00			15.0	100													
EZH 02519HP-120	●		0.750"			18.0	120													
EZH 02520HP-120	●	2.5	20.00	13	6	19.0	120	16	8	20	11.0	7.0	-	-	Fig.1	EZB% ...025... EZTR...025...				
EZH 02522HP-135	●		22.00			21.0	135													
EZH 02525.0HP-135	●		25.00			24.0	135													
EZH 02525.4HP-120	●		1.000"			24.4	120													
EZH 03016HP-100	●		16.00			15.0	100													
EZH 03019HP-120	●		0.750"			18.0	120													
EZH 03020HP-120	●	3.0	20.00	13	6	19.0	120	16	8	21	13.5	9.5	5.5	-	Fig.2	EZB% ...030... EZBFR...030... EZVBR...030... EZBPR...030... EZGR...030... EZTR...030...				
EZH 03022HP-135	●		22.00			21.0	135													
EZH 03025.0HP-135	●		25.00			24.0	135													
EZH 03025.4HP-120	●		1.000"			24.4	120													
EZH 03516HP-100	●		16.00			15.0	100													
EZH 03519HP-120	●		0.750"			18.0	120													
EZH 03520HP-120	●	3.5	20.00	13	6	19.0	120	16	8	22	15.5	11.5	7.5	-	Fig.2	EZB% ...035... EZTR...035...				
EZH 03522HP-135	●		22.00			21.0	135													
EZH 03525.0HP-135	●		25.00			24.0	135													
EZH 03525.4HP-120	●		1.000"			24.4	120													
EZH 04016HP-100	●		16.00			15.0	100													
EZH 04019HP-120	●		0.750"			18.0	120													
EZH 04020HP-120	●	4.0	20.00	13	6	19.0	120	16	8	24	20.5	16.5	12.5	8.5	Fig.4	EZB% ...040... EZBFR...040... EZBTR...040... EZVBR...040... EZBPR...040... EZG% ...040... EZFG% ...040... EZTR...040...				
EZH 04022HP-135	●		22.00			21.0	135													
EZH 04025.0HP-135	●		25.00			24.0	135													
EZH 04025.4HP-120	●		1.000"			24.4	120													

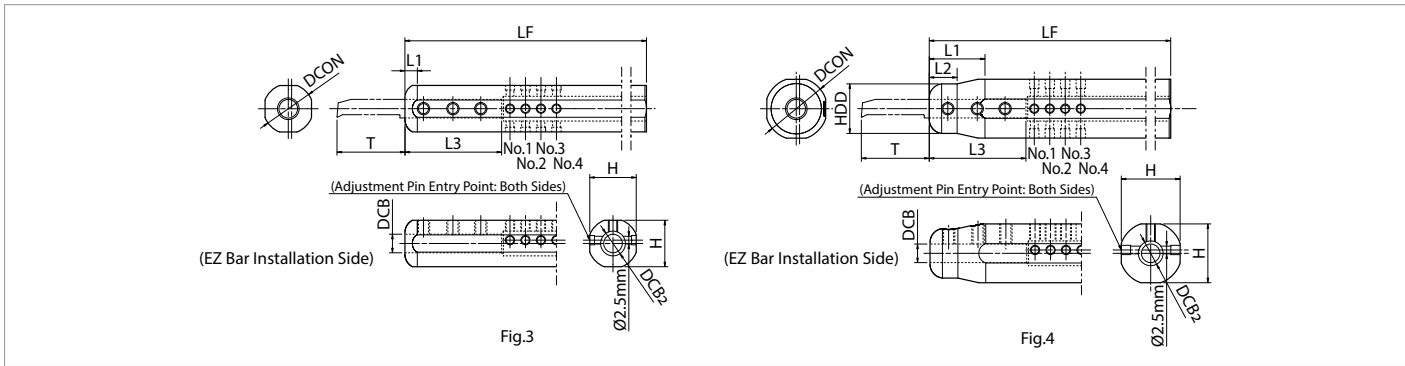
*1: L3 shows DCB length.

*2: Dimension LPR shows overhang length of the EZB Bar when attached to sleeve (with the exception of extended reach bars).
Choose sleeves (DCB) that match DCON dimension of bar.

● : Standard Item

Spare Parts (for EZH-HP Sleeves)

Part Number	Spare Parts				
	Adjustment Pin	Clamp Screw (for Adjustment Pin)	Wrench	Clamp Screw (for Bar)	Wrench
EZH 017...HP-.. 020...HP-.. 025...HP-.. 030...HP-..	LCP025140	HS3X4P (for Both Adjustment Pin and Bar)	LW-1.5 Tightening Torque 1 Nm	HS3X4P	LW-1.5 Tightening Torque 1 Nm
EZH 035...HP-.. 040...HP-.. 045...HP-.. 050...HP-.. 060...HP-.. 070...HP-..	LCP025140	HS3X4P	LW-1.5 Tightening Torque 1 Nm	HS4X4P (For Bar)	LW-2 Tightening Torque 2 Nm



Sleeve Dimensions

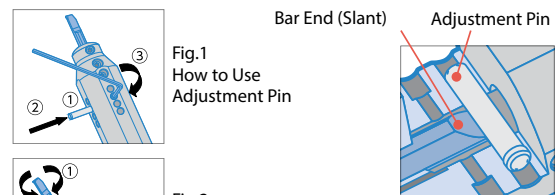
Part Number	Stock	Dimensions (mm)									Bar Overhang Length*LPR (mm)				Drawing	Applicable EZ Bar
		DCB	DCON	HDD	DCB2	H	LF	L1	L2	*L3	Adjustment Pin Setting					
											No.1	No.2	No.3	No.4		
EZH 04516HP-100	●	4.5	16.00	16	6.0	15.0	100	4	-	25.3					Fig.3	EZB%L...045... _045X-...-050EZP
04519HP-120	●		0.750"			18.0	120							Fig.4		
04520HP-120	●		20.00			19.0	120				23	18.5	14		9.5	
04522HP-135	●	4.5	22.00	16	6.0	21.0	135	18	9	25.3	(14)	(9.5)	(-)	(-)		
04525.0HP-135	●		25.00			24.0	135									
04525.4HP-120	●		1.000"			24.4	120									
EZH 05016HP-100	●	5.0	16.00	16	6.0	15.0	100	4	-	29.0					Fig.3	EZB%L...050... EZBFR...050... EZBTR...050... EZVBR...050... EZBPR...050... EZBCR...050... EZG%L...050... EZFG%L...050... EZTR...050... _050X-...-060EZP
05019HP-120	●		0.750"			18.0	120							Fig.4		
05020HP-120	●		20.00			19.0	120				25.5	20.5	15.5		10.5	
05022HP-135	●	5.0	22.00	16	6.0	21.0	135	18	9	29.0	(15.5)	(10.5)	(-)	(-)		
05025.0HP-135	●		25.00			24.0	135									
05025.4HP-120	●		1.000"			24.4	120									
EZH 06016HP-100	●	6.0	16.00	16	8.0	15.0	100	4	-	31.0					Fig.3	EZB%L...060... EZBFR...060... EZVBR...060... EZBPR...060... EZBCR...060... EZG%L...060... EZTR...060... _060X-...-070EZP
06019HP-120	●		0.750"			18.0	120							Fig.4		
06020HP-120	●		20.00			19.0	120				30.5	25.5	20.5		15.5	
06022HP-135	●	6.0	22.00	16	8.0	21.0	135	18	9	31.0	(18.5)	(13.5)	(-)	(-)		
06025.0HP-135	●		25.00			24.0	135									
06025.4HP-120	●		1.000"			24.4	120									
EZH 07016HP-100	●	7.0	16.00	16	8.0	15.0	100	4	-	33.0					Fig.3	EZB%L...070... EZBFR...070... EZBTR...070... EZG%L...070... EZFG%L...070... EZTR...070... _070X-...-080EZP
07019HP-120	●		0.750"			18.0	120							Fig.4		
07020HP-120	●		20.00			19.0	120				35.5	30.5	25.5		20.5	
07022HP-135	●	7.0	22.00	16	8.0	21.0	135	18	9	33.0	(21.5)	(16.5)	(11.5)	(-)		
07025.0HP-135	●		25.00			24.0	135									
07025.4HP-120	●		1.000"			24.4	120									
EZH 08019HP-120	●		0.750"			18.0	120							Fig.4	EZB%L...080... _080X-...-100EZP	
08020HP-120	●		20.00			19.0	120									
08022HP-135	●	8.0	22.00	16	8.4	21.0	135	18	9	37.0	40.5	35.5	30.5			25.5
08025.0HP-135	●		25.00			24.0	135									
08025.4HP-120	●		1.000"			24.4	120									

*1: L3 shows DCB length. ● : Standard Item
 *2: Dimension LPR shows overhang length of the EZB Bar when attached to sleeve (with the exception of extended reach bars).
 Dimension in () shows overhang length of the EZ Bar PLUS when installed into the sleeve.
 Choose sleeves (DCB) that match DCON dimension of bar.

How to Install Bar Into Sleeve

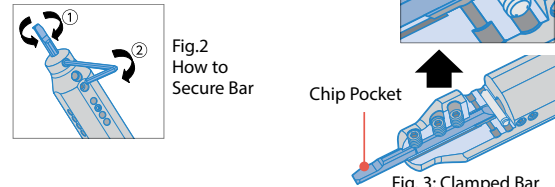
How to Use Adjustment Pin (Fig.1)

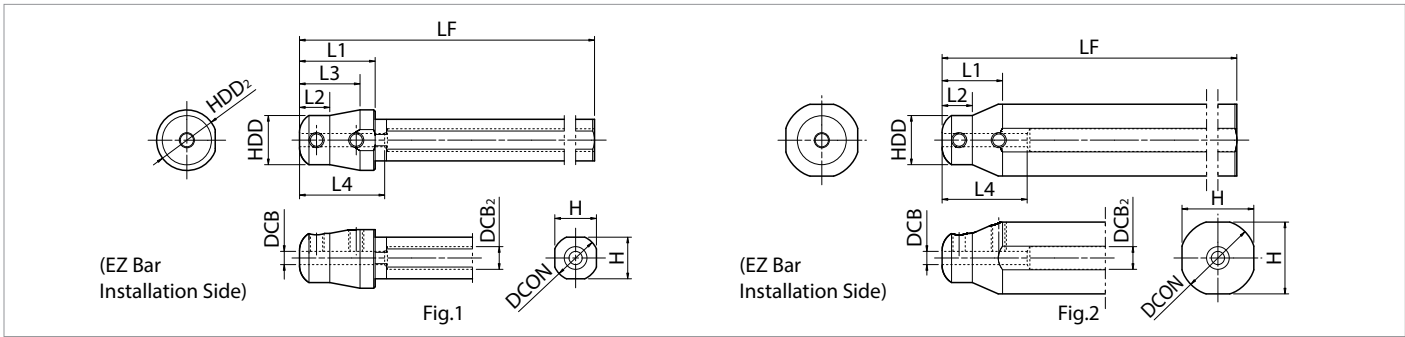
- Put the adjustment pin into the hole.
- Push it into the sleeve, using the wrench "LW-1.5".
- Tighten the clamp screw "HS3X4P" with wrench "LW-1.5" to fix the adjustment screw.



How to Secure Bar (Fig.2)

- 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.3)
- Tighten the clamp screw with wrench "LW-2" and secure the bar. (Use "LW-1.5" if shank dia. is 3mm or less.)



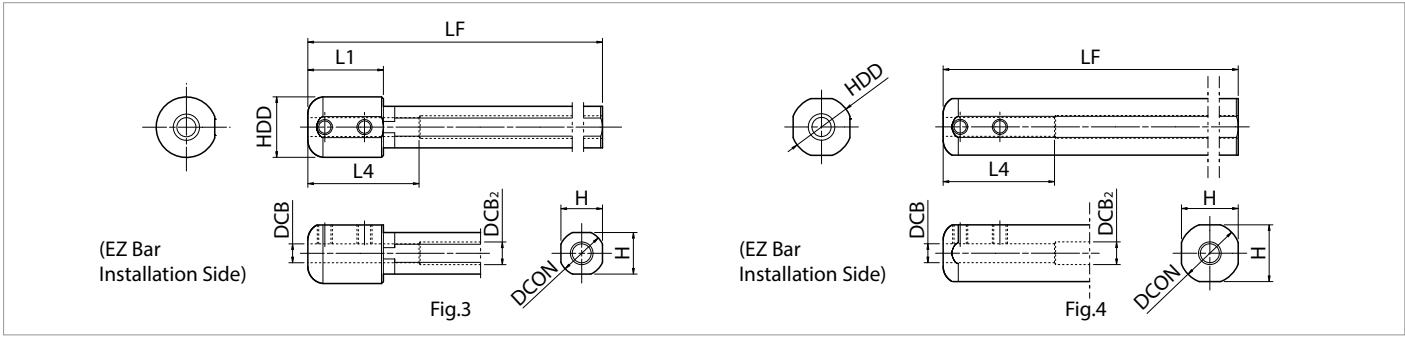


Sleeve Dimensions

Part Number	Stock	Dimensions (mm)											Drawing	Applicable EZ Bar	
		DCB	DCON	HDD	HDD2	DCB2	H	LF	L1	L2	L3	*L4			
EZH 01712ST-80	●	1.7	12	13	16	6	11	80	20	16	8	-	16	Fig.1	EZBR...017...
01716ST-100	●		16				15	100							
01719ST-120	●		0.750"				18	120							
01720ST-120	●		20				19	120							
01722ST-135	●		22				21	135							
01725.0ST-135	●		25				24	135							
01725.4ST-120	●		1.000"				24.4	120							
EZH 02012ST-80	●	2	12	13	16	6	11	80	20	16	8	-	20	Fig.1	EZB% ...020... EZBPR...020...
02016ST-100	●		16				15	100							
02019ST-120	●		0.750"				18	120							
02020ST-120	●		20				19	120							
02022ST-135	●		22				21	135							
02025.0ST-135	●		25				24	135							
02025.4ST-120	●		1.000"				24.4	120							
EZH 02512ST-80	●	2.5	12	13	16	6	11	80	20	16	8	-	20	Fig.1	EZB% ...025... EZTR...025...
02516ST-100	●		16				15	100							
02519ST-120	●		0.750"				18	120							
02520ST-120	●		20				19	120							
02522ST-135	●		22				21	135							
02525.0ST-135	●		25				24	135							
02525.4ST-120	●		1.000"				24.4	120							
EZH 03012ST-80	●	3	12	13	16	6	11	80	20	16	8	-	21	Fig.1	EZB% ...030... EZBFR...030... EZVBR...030... EZBPR...030... EZGR...030... EZTR...030...
03016ST-100	●		16				15	100							
03019ST-120	●		0.750"				18	120							
03020ST-120	●		20				19	120							
03022ST-135	●		22				21	135							
03025.0ST-135	●		25				24	135							
03025.4ST-120	●		1.000"				24.4	120							
EZH 03512ST-80	●	3.5	12	13	16	6	11	80	20	16	8	-	22	Fig.1	EZB% ...035... EZTR...035...
03516ST-100	●		16				15	100							
03519ST-120	●		0.750"				18	120							
03520ST-120	●		20				19	120							
03522ST-135	●		22				21	135							
03525.0ST-135	●		25				24	135							
03525.4ST-120	●		1.000"				24.4	120							
EZH 04012ST-80	●	4	12	13	16	6	11	80	20	16	8	-	24	Fig.1	EZB% ...040... EZBFR...040... EZBTR...040... EZVBR...040... EZBPR...040... EZG% ...040... EZFG% ...040... EZTR...040...
04016ST-100	●		16				15	100							
04019ST-120	●		0.750"				18	120							
04020ST-120	●		20				19	120							
04022ST-135	●		22				21	135							
04025.0ST-135	●		25				24	135							
04025.4ST-120	●		1.000"				24.4	120							

*L4 shows DCB length.
Choose sleeves (DCB) that match with DCON dimension of bar.
Adjustment Pin cannot be installed into EZH-ST sleeves. To adjust overhang of EZB bars, please use EZH-CT/HP sleeves.

● : Standard Item



Sleeve Dimensions

Part Number	Stock	Dimensions (mm)											Drawing	Applicable EZ Bar								
		DCB	DCON	HDD	HDD2	DCB2	H	LF	L1	L2	L3	*L4										
EZH 05012ST-80	●	5	12	16	-	6	11	80	20	-	-	-	29	Fig.3	EZB%...050... EZBFR...050... EZBTR...050... EZVBR...050... EZBPR...050... EZBCR...050... EZFG%...050... EZTR...050... _050X-...-060EZP							
05016ST-100	●		16				15	100	-					-		-	-	-	-	Fig.4		
05019ST-120	●		0.750"				18	120	18					135		9	-	-	-	-	-	Fig.2
05020ST-120	●		20				19	120														
05022ST-135	●		22				21	135														
05025.0ST-135	●		25				24	135														
05025.4ST-120	●		1.000"				24.4	120														
EZH 06012ST-80	●	6	12	16	-	8	11	80	20	-	-	-	31	Fig.3	EZB%...060... EZBFR...060... EZVBR...060... EZBPR...060... EZBCR...060... EZFG%...060... EZTR...060... _060X-...-070EZP							
06016ST-100	●		16				15	100	-					-		-	-	-	-	-	Fig.4	
06019ST-120	●		0.750"				18	120	18					135		9	-	-	-	-	-	Fig.2
06020ST-120	●		20				19	120														
06022ST-135	●		22				21	135														
06025.0ST-135	●		25				24	135														
06025.4ST-120	●		1.000"				24.4	120														
EZH 07012ST-80	●	7	12	16	-	8	11	80	20	-	-	-	33	Fig.3	EZB%...070... EZBCR...070... EZFG%...070... EZTR...060... _070X-...-080EZP							
07016ST-100	●		16				15	100	-					-		-	-	-	-	-	Fig.4	
07019ST-120	●		0.750"				18	120	18					135		9	-	-	-	-	-	Fig.2
07020ST-120	●		20				19	120														
07022ST-135	●		22				21	135														
07025.0ST-135	●		25				24	135														
07025.4ST-120	●		1.000"				24.4	120														
EZH 08016ST-100	●	8	16	16	-	8.4	15	100	-	-	-	-	37	Fig.4	EZB%...080... _080X-...-100EZP							
08019ST-120	●		0.750"				18	120	18	135				9		-	-	-	-	-	Fig.2	
08020ST-120	●		20				19	120														
08022ST-135	●		22				21	135														
08025.0ST-135	●		25				24	135														
08025.4ST-120	●		1.000"				24.4	120														

Spare Parts (for EZH-ST Sleeves)

Part Number	Spare Parts		Applicable EZ Bar			Applicable EZ Bar PLUS		
	Clamp Screw	Wrench	EZB-HP EZB-HP-LT EZB-ST EZB-NB	EZVB EZBC EZFG	EZBT EZBP EZG EZT	S/C-SCLC S/C-STLB(P) S/C-SWUB		
EZH 017...ST-.. 020...ST-.. 025...ST-.. 030...ST-..	HS3X4P	LW-1.5 Tightening Torque 1 Nm	EZBR...017...	-	-	-		
EZH 035...ST-.. 040...ST-.. 050...ST-.. 060...ST-.. 070...ST-.. 080...ST-..			HS4X4P	LW-2 Tightening Torque 2 Nm	EZB%...020...	EZBPR...020-...	-	-
					EZB%...025...	EZTR...025-...	-	-
					EZB%...030...	EZ_R...030-...	-	-
	EZB%...035...	EZTR...035-...			-	-		
	EZB%...040...	EZ_R...040-...			-	-		
	EZB%...050...	EZ_R...050-...			_050X-...-060EZP	-		
	EZB%...060...	EZ_R...060-...	_060X-...-070EZP	-				
	EZB%...070...	EZ_R...070-...	_070X-...-080EZP	-				
	EZB%...080...	-	_080X-...-100EZP	-				

Applicable Sleeves for Machine Manufacturers

Sleeve Part Number				Applicable EZ Bar				Shank Dia. DCON (mm)	Applicable Machine Manufacturer
EZH-CT Adjustable Overhang Length with Coolant Hole	EZH-HP Adjustable Overhang Length	EZH-ST	Sleeve Shank Dia. DCON (mm)	EZB	EZBF / EZBT / EZVB EZBP / EZBC EZG / EZFG / EZT	EZ Bar PLUS	Shank Dia. DCON (mm)		
		EZH 01712ST-80	12	EZBR ...017...	-		1.7	(General Purpose)	
		02012ST-80		EZB% ...020...	EZBPR ...020...		2		
		02512ST-80		EZB% ...025...	EZ _ _ ...025...		2.5		
		03012ST-80		EZB% ...030...	EZ _ _ ...030...		3		
		03512ST-80		EZB% ...035...	EZ _ _ ...035...		3.5		
		04012ST-80		EZB% ...040...	EZ _ _ ...040...		4		
		05012ST-80		EZB% ...050...	EZ _ _ ...050...		5		
		06012ST-80		EZB% ...060...	EZ _ _ ...060...		6		
		07012ST-80		EZBR ...070...	EZ _ _ ...070...		7		
		08012ST-80		EZB% ...080...	-		8		
	EZH 01716HP-100	EZH 01716ST-100	16	EZBR ...017...	-		1.7	(General Purpose)	
	02016HP-100	02016ST-100		EZB% ...020...	EZBPR ...020...		2		
	02516HP-100	02516ST-100		EZB% ...025...	EZ _ _ ...025...		2.5		
	03016HP-100	03016ST-100		EZB% ...030...	EZ _ _ ...030...		3		
	03516HP-100	03516ST-100		EZB% ...035...	EZ _ _ ...035...		3.5		
	04016HP-100	04016ST-100		EZB% ...040...	EZ _ _ ...040...		4		
	04516HP-100	-		EZB% ...045...	-	_045X- ...-050EZP	4.5		
	05016HP-100	05016ST-100		EZB% ...050...	EZ _ _ ...050...	_050X- ...-060EZP	5		
	06016HP-100	06016ST-100		EZB% ...060...	EZ _ _ ...060...	_060X- ...-070EZP	6		
	07016HP-100	07016ST-100		EZBR ...070...	EZ _ _ ...070...	_070X- ...-080EZP	7		
		08016ST-100	EZB% ...080...	-	_080X- ...-100EZP	8			
EZH 01719CT-120	EZH 01719HP-120	EZH 01719ST-120	0.750"	EZBR ...017...	-		1.7	Citizen Machinery	
02019CT-120	02019HP-120	02019ST-120		EZB% ...020...	EZBPR ...020...		2		
02519CT-120	02519HP-120	02519ST-120		EZB% ...025...	EZ _ _ ...025...		2.5		
03019CT-120	03019HP-120	03019ST-120		EZB% ...030...	EZ _ _ ...030...		3		
03519CT-120	03519HP-120	03519ST-120		EZB% ...035...	EZ _ _ ...035...		3.5		
04019CT-120	04019HP-120	04019ST-120		EZB% ...040...	EZ _ _ ...040...		4		
04519CT-120	04519HP-120	-		EZB% ...045...	-	_045X- ...-050EZP	4.5		
05019CT-120	05019HP-120	05019ST-120		EZB% ...050...	EZ _ _ ...050...	_050X- ...-060EZP	5		
06019CT-120	06019HP-120	06019ST-120		EZB% ...060...	EZ _ _ ...060...	_060X- ...-070EZP	6		
07019CT-120	07019HP-120	07019ST-120		EZBR ...070...	EZ _ _ ...070...	_070X- ...-080EZP	7		
08019CT-120	08019HP-120	08019ST-120	EZB% ...080...	-	_080X- ...-100EZP	8			
EZH 01720CT-120	EZH 01720HP-120	EZH 01720ST-120	20	EZBR ...017...	-		1.7	Amada Machine Tools Eguro Tsunami Citizen Machinery (General Purpose)	
02020CT-120	02020HP-120	02020ST-120		EZB% ...020...	EZBPR ...020...		2		
02520CT-120	02520HP-120	02520ST-120		EZB% ...025...	EZ _ _ ...025...		2.5		
03020CT-120	03020HP-120	03020ST-120		EZB% ...030...	EZ _ _ ...030...		3		
03520CT-120	03520HP-120	03520ST-120		EZB% ...035...	EZ _ _ ...035...		3.5		
04020CT-120	04020HP-120	04020ST-120		EZB% ...040...	EZ _ _ ...040...		4		
04520CT-120	04520HP-120	-		EZB% ...045...	-	_045X- ...-050EZP	4.5		
05020CT-120	05020HP-120	05020ST-120		EZB% ...050...	EZ _ _ ...050...	_050X- ...-060EZP	5		
06020CT-120	06020HP-120	06020ST-120		EZB% ...060...	EZ _ _ ...060...	_060X- ...-070EZP	6		
07020CT-120	07020HP-120	07020ST-120		EZBR ...070...	EZ _ _ ...070...	_070X- ...-080EZP	7		
08020CT-120	08020HP-120	08020ST-120	EZB% ...080...	-	_080X- ...-100EZP	8			
EZH 01722CT-135	EZH 01722HP-135	EZH 01722ST-135	22	EZBR ...017...	-		1.7	Star Micronics Nomura DS Tsunami	
02022CT-135	02022HP-135	02022ST-135		EZB% ...020...	EZBPR ...020...		2		
02522CT-135	02522HP-135	02522ST-135		EZB% ...025...	EZ _ _ ...025...		2.5		
03022CT-135	03022HP-135	03022ST-135		EZB% ...030...	EZ _ _ ...030...		3		
03522CT-135	03522HP-135	03522ST-135		EZB% ...035...	EZ _ _ ...035...		3.5		
04022CT-135	04022HP-135	04022ST-135		EZB% ...040...	EZ _ _ ...040...		4		
04522CT-135	04522HP-135	-		EZB% ...045...	-	_045X- ...-050EZP	4.5		
05022CT-135	05022HP-135	05022ST-135		EZB% ...050...	EZ _ _ ...050...	_050X- ...-060EZP	5		
06022CT-135	06022HP-135	06022ST-135		EZB% ...060...	EZ _ _ ...060...	_060X- ...-070EZP	6		
07022CT-135	07022HP-135	07022ST-135		EZBR ...070...	EZ _ _ ...070...	_070X- ...-080EZP	7		
08022CT-135	08022HP-135	08022ST-135	EZB% ...080...	-	_080X- ...-100EZP	8			
EZH 01725.0CT-135	EZH 01725.0HP-135	EZH 01725.0ST-135	25	EZBR ...017...	-		1.7	Amada Machine Tools Eguro Tsunami Citizen Machinery (General Purpose)	
02025.0CT-135	02025.0HP-135	02025.0ST-135		EZB% ...020...	EZBPR ...020...		2		
02525.0CT-135	02525.0HP-135	02525.0ST-135		EZB% ...025...	EZ _ _ ...025...		2.5		
03025.0CT-135	03025.0HP-135	03025.0ST-135		EZB% ...030...	EZ _ _ ...030...		3		
03525.0CT-135	03525.0HP-135	03525.0ST-135		EZB% ...035...	EZ _ _ ...035...		3.5		
04025.0CT-135	04025.0HP-135	04025.0ST-135		EZB% ...040...	EZ _ _ ...040...		4		
04525.0CT-135	04525.0HP-135	-		EZB% ...045...	-	_045X- ...-050EZP	4.5		
05025.0CT-135	05025.0HP-135	05025.0ST-135		EZB% ...050...	EZ _ _ ...050...	_050X- ...-060EZP	5		
06025.0CT-135	06025.0HP-135	06025.0ST-135		EZB% ...060...	EZ _ _ ...060...	_060X- ...-070EZP	6		
07025.0CT-135	07025.0HP-135	07025.0ST-135		EZBR ...070...	EZ _ _ ...070...	_070X- ...-080EZP	7		
08025.0CT-135	08025.0HP-135	08025.0ST-135	EZB% ...080...	-	_080X- ...-100EZP	8			
EZH 01725.4CT-120	EZH 01725.4HP-120	EZH 01725.4ST-120	1.000"	EZBR ...017...	-		1.7	Citizen Machinery	
02025.4CT-120	02025.4HP-120	02025.4ST-120		EZB% ...020...	EZBPR ...020...		2		
02525.4CT-120	02525.4HP-120	02525.4ST-120		EZB% ...025...	EZ _ _ ...025...		2.5		
03025.4CT-120	03025.4HP-120	03025.4ST-120		EZB% ...030...	EZ _ _ ...030...		3		
03525.4CT-120	03525.4HP-120	03525.4ST-120		EZB% ...035...	EZ _ _ ...035...		3.5		
04025.4CT-120	04025.4HP-120	04025.4ST-120		EZB% ...040...	EZ _ _ ...040...		4		
04525.4CT-120	04525.4HP-120	-		EZB% ...045...	-	_045X- ...-050EZP	4.5		
05025.4CT-120	05025.4HP-120	05025.4ST-120		EZB% ...050...	EZ _ _ ...050...	_050X- ...-060EZP	5		
06025.4CT-120	06025.4HP-120	06025.4ST-120		EZB% ...060...	EZ _ _ ...060...	_060X- ...-070EZP	6		
07025.4CT-120	07025.4HP-120	07025.4ST-120		EZBR ...070...	EZ _ _ ...070...	_070X- ...-080EZP	7		
08025.4CT-120	08025.4HP-120	08025.4ST-120	EZB% ...080...	-	_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.



KYOCERA Precision Tools

102 Industrial Park Road
Hendersonville, NC 28792
Customer Service | 800.823.7284 - Option 1
Technical Support | 800.823.7284 - Option 2



Official Website | www.kyoceraprecisiontools.com
Distributor Website | mykpti.kyocera.com
Email | cuttingtools@kyocerapti.com