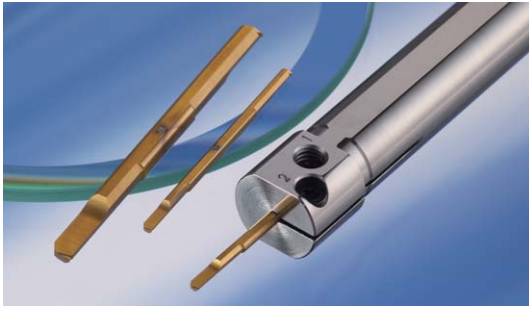


Carbide Solid Bars BXBR Type

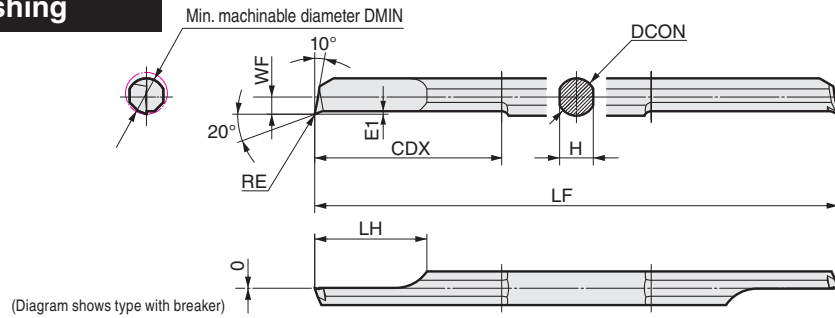
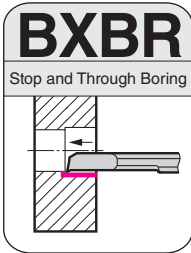
Sumi Small



Characteristics

- Economical two corner design
- Handles up to 5D (5 times shank diameter) machining depth
- Able to arbitrarily set the amount of protrusion
- Easy to select since shank size is equal to minimum machineable diameter (lineup includes bars from $\phi 2$ mm to $\phi 5$ mm in increments of 0.5 mm)
- KBMX type is used for the cutting edge. Type without chipbreaker is also in stock.

Small Hole Finishing



Tools

	Cat. No.	Grades		Minimum machineable diameter	Diameter	Height	Length	Cutting edge distance	Head	Depth of cut	Offset	Nose radius	Applicable Sleeves
		ACZ150	AC530U	DMIN	DCON	H	LF	WF	LH	CDX	E1	RE	
With chipbreaker	BXBR 02005R	●		2.0	2.0	1.8	50	0.80	6.0	10.0	0.20	0.05	HBX 2016
	BXBR 02020R	●		2.0	2.0	1.8	50	0.80	6.0	10.0	0.20	0.20	HBX 2016
	BXBR 02505R	●		2.5	2.5	2.2	50	1.05	7.5	12.5	0.20	0.05	HBX 2516
	BXBR 02520R	●		2.5	2.5	2.2	50	1.05	7.5	12.5	0.20	0.20	HBX 2516
	BXBR 03005R	●		3.0	3.0	2.7	50	1.30	9.0	15.0	0.25	0.05	HBX 3016
	BXBR 03020R	●		3.0	3.0	2.7	50	1.30	9.0	15.0	0.25	0.20	HBX 3016
	BXBR 03505R	●		3.5	3.5	3.1	60	1.55	10.5	17.5	0.25	0.05	HBX 3516
	BXBR 03520R	●		3.5	3.5	3.1	60	1.55	10.5	17.5	0.25	0.20	HBX 3516
	BXBR 04005R	●		4.0	4.0	3.6	60	1.80	12.0	20.0	0.35	0.05	HBX 4016
	BXBR 04020R	●		4.0	4.0	3.6	60	1.80	12.0	20.0	0.35	0.20	HBX 4016
	BXBR 04505R	●		4.5	4.5	4.1	70	2.05	13.5	22.5	0.35	0.05	HBX 4516
	BXBR 04520R	●		4.5	4.5	4.1	70	2.05	13.5	22.5	0.35	0.20	HBX 4516
	BXBR 05005R	●		5.0	5.0	4.5	70	2.30	15.0	25.0	0.40	0.05	HBX 5016
	BXBR 05020R	●		5.0	5.0	4.5	70	2.30	15.0	25.0	0.40	0.20	HBX 5016
Without chipbreaker	BXBR 02005R-NB	●		2.0	2.0	1.8	50	0.80	6.0	10.0	0.20	0.05	HBX 2016
	BXBR 02020R-NB	●		2.0	2.0	1.8	50	0.80	6.0	10.0	0.20	0.20	HBX 2016
	BXBR 02505R-NB	●		2.5	2.5	2.2	50	1.05	7.5	12.5	0.20	0.05	HBX 2516
	BXBR 02520R-NB	●		2.5	2.5	2.2	50	1.05	7.5	12.5	0.20	0.20	HBX 2516
	BXBR 03005R-NB	●		3.0	3.0	2.7	50	1.30	9.0	15.0	0.25	0.05	HBX 3016
	BXBR 03020R-NB	●		3.0	3.0	2.7	50	1.30	9.0	15.0	0.25	0.20	HBX 3016
	BXBR 03505R-NB	●		3.5	3.5	3.1	60	1.55	10.5	17.5	0.25	0.05	HBX 3516
	BXBR 03520R-NB	●		3.5	3.5	3.1	60	1.55	10.5	17.5	0.25	0.20	HBX 3516
	BXBR 04005R-NB	●		4.0	4.0	3.6	60	1.80	12.0	20.0	0.35	0.05	HBX 4016
	BXBR 04020R-NB	●		4.0	4.0	3.6	60	1.80	12.0	20.0	0.35	0.20	HBX 4016
	BXBR 04505R-NB	●		4.5	4.5	4.1	70	2.05	13.5	22.5	0.35	0.05	HBX 4516
	BXBR 04520R-NB	●		4.5	4.5	4.1	70	2.05	13.5	22.5	0.35	0.20	HBX 4516
	BXBR 05005R-NB	●		5.0	5.0	4.5	70	2.30	15.0	25.0	0.40	0.05	HBX 5016
	BXBR 05020R-NB	●		5.0	5.0	4.5	70	2.30	15.0	25.0	0.40	0.20	HBX 5016

* When machining depth is less than dimension CDX

Sleeves

Cat. No.	Stock	Dimensions (mm)	Applicable Tools
		DCON	
HBX 2016	●	2.0	BXBR 0200OR(-NB)
HBX 2516	●	2.5	BXBR 0250OR(-NB)
HBX 3016	●	3.0	BXBR 0300OR(-NB)
HBX 3516	●	3.5	BXBR 0350OR(-NB)
HBX 4016	●	4.0	BXBR 0400OR(-NB)
HBX 4516	●	4.5	BXBR 0450OR(-NB)
HBX 5016	●	5.0	BXBR 0500OR(-NB)

BXBR type can be installed on HBB type sleeves. In addition, you may also use other commercially available sleeves. Please refer to page E78 for details on the HBX type sleeve.

Parts (For Sleeve)

Screw	Set screw	Wrench	Applicable sleeves	
BFTX0409N	3.4	BT06035T	TRD15	HBX0000

Sleeve is sold separately.

Recommended tightening torque (N·m)