

ECCENTRIC FINE BORING TOOL



These tools are used for precision machining and are particularly useful in applications where holes need to be enlarged or finished to tight tolerances.

Here's a brief overview:

What is an Eccentric Fine Boring Tool?

1. **Definition:** An eccentric fine boring tool allows for the adjustment of the boring head's position off-center, enabling precise control over hole diameter and alignment.
2. **Design:** Typically features an adjustable cutting head with multiple inserts or blades that can be fine-tuned. The eccentricity allows for adjustments without needing to change the tool.

Applications

1. **Precision Machining:** Commonly used in industries like aerospace, automotive, and manufacturing where exact specifications are critical.
2. **Repair Work:** Useful for reaming out existing holes to fit new components or to fix misalignment.

Key Features

1. **Adjustability:** Can be adjusted to achieve various diameters and tolerances.
2. **Stability:** Designed to minimize vibration during operation, improving accuracy.
3. **Material Compatibility:** Effective on a variety of materials, including metals, plastics, and composites.

Benefits

1. **Enhanced Precision:** Provides high levels of accuracy for critical applications.
2. **Time Efficiency:** Reduces setup time by allowing quick adjustments on the fly.
3. **Cost-Effective:** Can often extend the life of a part by allowing for rework rather than replacement.

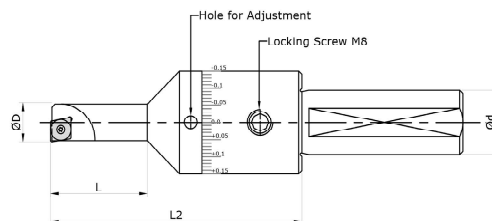
Considerations

1. **Tool Material:** Carbide or high-speed steel are common choices for durability.
2. **Maintenance:** Regular maintenance is needed to keep the cutting edges sharp and effective.

Facts & Advantages

- ◆ Used for finish boring application from diameter 5mm up to 20mm (any intermediary size on Interim demand).
- ◆ Available with adjustment range of ± 0.1 mm on diameter (LC 10 microns on diameter) and ± 0.3 mm on diameter (LC 30 microns on diameter).
- ◆ User friendly & quick adjustment ensures minimum loss time.
- ◆ Guaranteed repeatability by using recommended torque for locking.
- ◆ Most economic solution for finish boring with precise adjustment in microns.
- ◆ Tailor made tools with similar concept also available for the application of back boring & OD turning.





Sr. No	Description	Adjustment range & least count	Description	Adjustment range & least count	D	L	L2	Insert
1	BE EBT 5.0-5.9 C01	Adjustment range : ±0.1 mm	BE EBT 5.0-5.9 C03	Adjustment range : ±0.3 mm	5.0 - 5.9	15	58	CC□□0301
2	BE EBT 6.0-6.9 C01		BE EBT 6.0-6.9 C03		6.0 - 6.9	18	61	CC□□0602
3	BE EBT 7.0-7.9 C01		BE EBT 7.0-7.9 C03		7.0 - 7.9	21	64	CC□□0602
4	BE EBT 8.0-8.9 C01		BE EBT 8.0-8.9 C03		8.0 - 8.9	24	67	CC□□0602
5	BE EBT 9.0-9.9 C01		BE EBT 9.0-9.9 C03		9.0 - 9.9	27	70	CC□□0602
6	BE EBT 10.0-10.9 C01		BE EBT 10.0-10.9 C03		10.0 - 10.9	30	73	CC□□0602
7	BE EBT 11.0-11.9 C01		BE EBT 11.0-11.9 C03		11.0 - 11.9	33	76	CC□□0602
8	BE EBT 12.0-12.9 C01		BE EBT 12.0-12.9 C03		12.0 - 12.9	36	79	CC□□0602
9	BE EBT 13.0-13.9 C01		BE EBT 13.0-13.9 C03		13.0 - 13.9	39	82	CC□□0602
10	BE EBT 14.0-14.9 C01		BE EBT 14.0-14.9 C03		14.0 - 14.9	42	85	CC□□0602
11	BE EBT 15.0-15.9 C01	Each Division : 0.01 mm	BE EBT 15.0-15.9 C03	Each Division : 0.03 mm	15.0 - 15.9	45	88	CC□□0602
12	BE EBT 16.0-16.9 C01		BE EBT 16.0-16.9 C03		16.0 - 16.9	48	91	CC□□0602
13	BE EBT 17.0-17.9 C01		BE EBT 17.0-17.9 C03		17.0 - 17.9	51	94	CC□□0602
14	BE EBT 18.0-18.9 C01		BE EBT 18.0-18.9 C03		18.0 - 18.9	54	97	CC□□0602
15	BE EBT 19.0-19.9 C01		BE EBT 19.0-19.9 C03		19.0 - 19.9	57	100	CC□□0602
16	BE EBT 20.0-20.9 C01		BE EBT 20.0-20.9 C03		20.0-20.9	60	103	CC□□0602
17	BE EBT 21.0-21.9 C01		BE EBT 21.0-21.9 C03		21.0 - 21.9	63	106	CC□□0602
18	BE EBT 22.0-22.9 C01		BE EBT 22.0-22.9 C03		22.0 - 22.9	66	109	CC□□0602
19	BE EBT 23.0-23.9 C01		BE EBT 23.0-23.9 C03		23.0 - 23.9	69	112	CC□□0602
20	BE EBT 24.0-24.9 C01		BE EBT 24.0-24.9 C03		24.0 - 24.9	70	113	CC□□0602

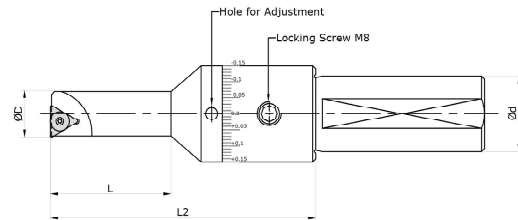
Code Key For Order

Code Name : BE EBC 5.0 - 5.9 C01 BE EBT 8.0 - 8.9 T01

- ◆ BE EBT - Company Name of Eccentric Fine Boring Tool.
- ◆ D - Boring Diameter
- ◆ T/C - Insert Name : TC..(T) & CC..(C)
- ◆ 01/03 - Adjustment Range ±0.1mm(01) & ±0.3mm(03)

Spares

SR. NO.	INSERT	INSERT SCREW	TORX
1	CC□□ 0301	M2.0	T-06
2	CC□□ 0401	M2.2	T-07
3	CC□□ 0602	M2.5	T-08
4	TC□□ 06T1	M2.0	T-06
5	TC□□ 0902	M2.2	T-07



Sr. No	Description	Adjustment range & least count	Description	Adjustment range & least count	D	L	L2	Insert
1	BE EBT 8.0-8.9 T01	Adjustment range : ± 0.1 mm	BE EBT 8.0-8.9 T03	Adjustment range : ± 0.3 mm	8.0 - 8.9	24	67	TC□□06T1
2	BE EBT 9.0-9.9 T01		BE EBT 9.0-9.9 T03		9.0 - 9.9	27	70	TC□□06T1
3	BE EBT 10.0-10.9 T01		BE EBT 10.0-10.9 T03		10.0 - 10.9	30	73	TC□□06T1
4	BE EBT 11.0-11.9 T01		BE EBT 11.0-11.9 T03		11.0 - 11.9	33	76	TC□□06T1
5	BE EBT 12.0-12.9 T01		BE EBT 12.0-12.9 T03		12.0 - 12.9	36	79	TC□□06T1
6	BE EBT 13.0-13.9 T01		BE EBT 13.0-13.9 T03		13.0 - 13.9	39	82	TC□□06T1
7	BE EBT 14.0-14.9 T01		BE EBT 14.0-14.9 T03		14.0 - 14.9	42	85	TC□□06T1
8	BE EBT 15.0-15.9 T01		BE EBT 15.0-15.9 T03		15.0 - 15.9	45	88	TC□□0902
9	BE EBT 16.0-16.9 T01		BE EBT 16.0-16.9 T03		16.0 - 16.9	48	91	TC□□0902
10	BE EBT 17.0-17.9 T01		BE EBT 17.0-17.9 T03		17.0 - 17.9	51	94	TC□□0902
11	BE EBT 18.0-18.9 T01		BE EBT 18.0-18.9 T03		18.0 - 18.9	54	97	TC□□0902
12	BE EBT 19.0-19.9 T01		BE EBT 19.0-19.9 T03		19.0 - 19.9	57	100	TC□□0902
13	BE EBT 20.0-20.9 T01	Each Division : 0.01 mm	BE EBT 20.0-20.9 T03	Each Division : 0.03 mm	20.0-20.9	60	103	TC□□0902
14	BE EBT 21.0-21.9 T01		BE EBT 21.0-21.9 T03		21.0 - 21.9	63	106	TC□□0902
15	BE EBT 22.0-22.9 T01		BE EBT 22.0-22.9 T03		22.0 - 22.9	66	109	TC□□0902
16	BE EBT 23.0-23.9 T01		BE EBT 23.0-23.9 T03		23.0 - 23.9	69	112	TC□□0902
17	BE EBT 24.0-25.0 T01		BE EBT 24.0-25.0 T03		24.0 - 24.9	70	113	TC□□0902



ECCENTRIC FINE BORING TOOL