



# SHREE TRADERS

Cutting tools and Pneumatics Automation



## TOOLBITS

Solid cutting tools made from High-Speed Steel (HSS) or Carbide.

Manufactured as single bars that require grinding to shape.

Undergo cryogenic heat treatment for durability and structural stability.

Used for general-purpose turning, allowing for reshaping and reuse after

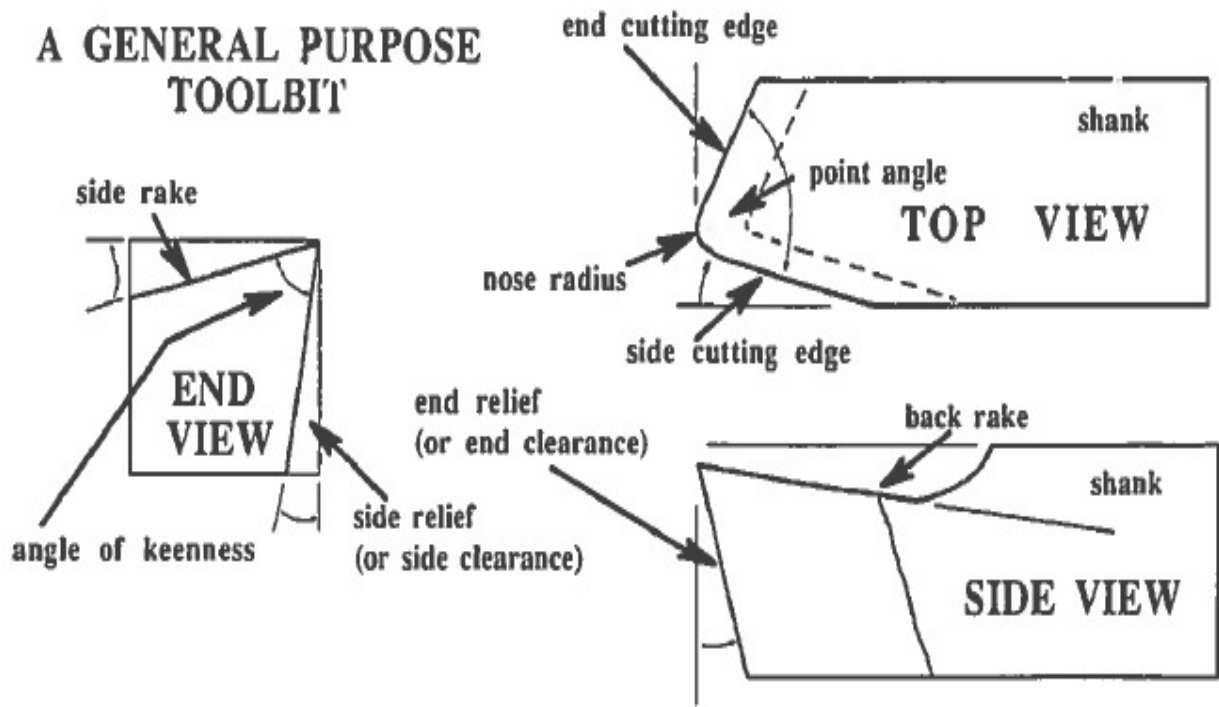


### Applications of Tool bits:

- 1. **Turning Tool bits** – Used for shaping cylindrical workpieces.
- 2. **Boring Tool bits** – Enlarges existing holes in a workpiece.
- 3. **Threading Tool bits** – Cuts internal or external threads.
- 4. **Grooving Tool bits** – Creates grooves or slots.
- 5. **Parting Tool bits** – Used to cut off finished parts

**USED IN LATHE  
MACHINE**

## A GENERAL PURPOSE TOOLBIT



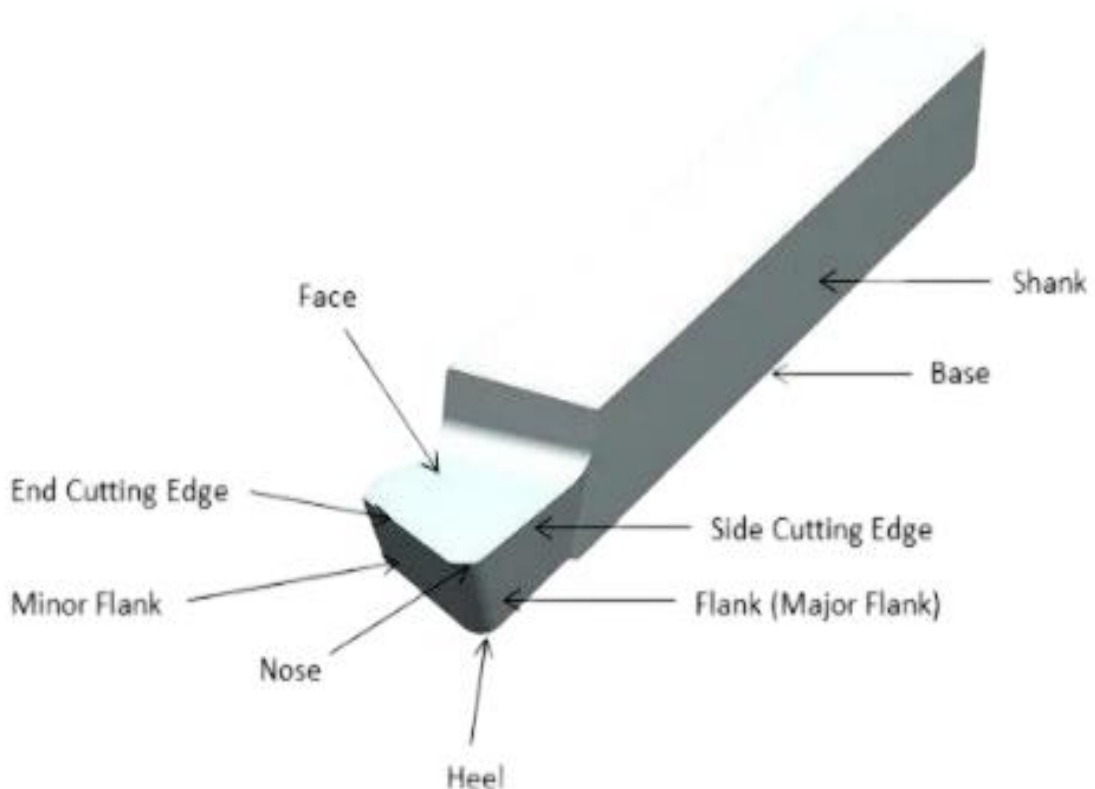
### Uses of Tool bits in Turning:

**Precision Cutting:** Achieves exact dimensions and tolerances on workpieces.

**Surface Finish:** Ensures smooth surfaces for both functionality and aesthetics.

**Material Removal:** Removes excess material to form desired shapes.

**Creating Features:** Forms holes, threads, grooves, and other functional elements.

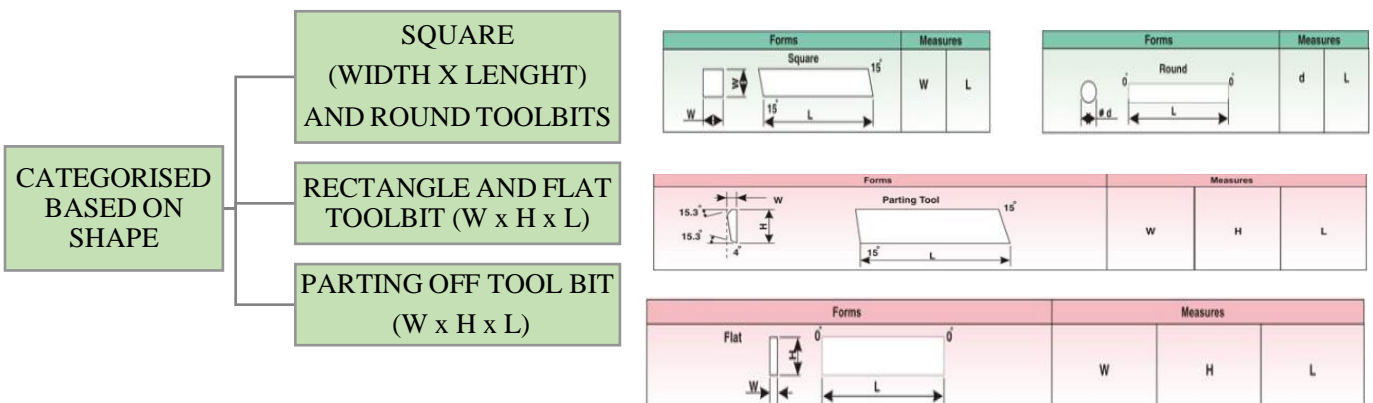


**Dimensions and Specifications:**

- **Length:** Varies based on the machine and operation requirements.
- **Width and Height:** Common sizes include 1/4", 3/8", 1/2", etc.
- **Material:** Typically made from High-Speed Steel (HSS) or carbide for enhanced durability and cutting performance.

**Anatomy and Structure:**

- **Shank:** The main body of the tool bit that is clamped into the tool holder.
- **Cutting Edge:** The part of the tool that comes into contact with the workpiece to remove material.
- **Rake Face:** The surface over which the chips flow after being cut.
- **Flank:** The surface of the tool that is adjacent to the cutting edge and provides clearance to prevent rubbing against the workpiece.
- **Nose Radius:** The rounded tip of the tool bit, which affects the finish of the machined surface.



**DIMENSIONS IN INCHES**

EXAMPLE ⇒  $\frac{3}{8}$ " X 4"

**DIMENSION IN MM**

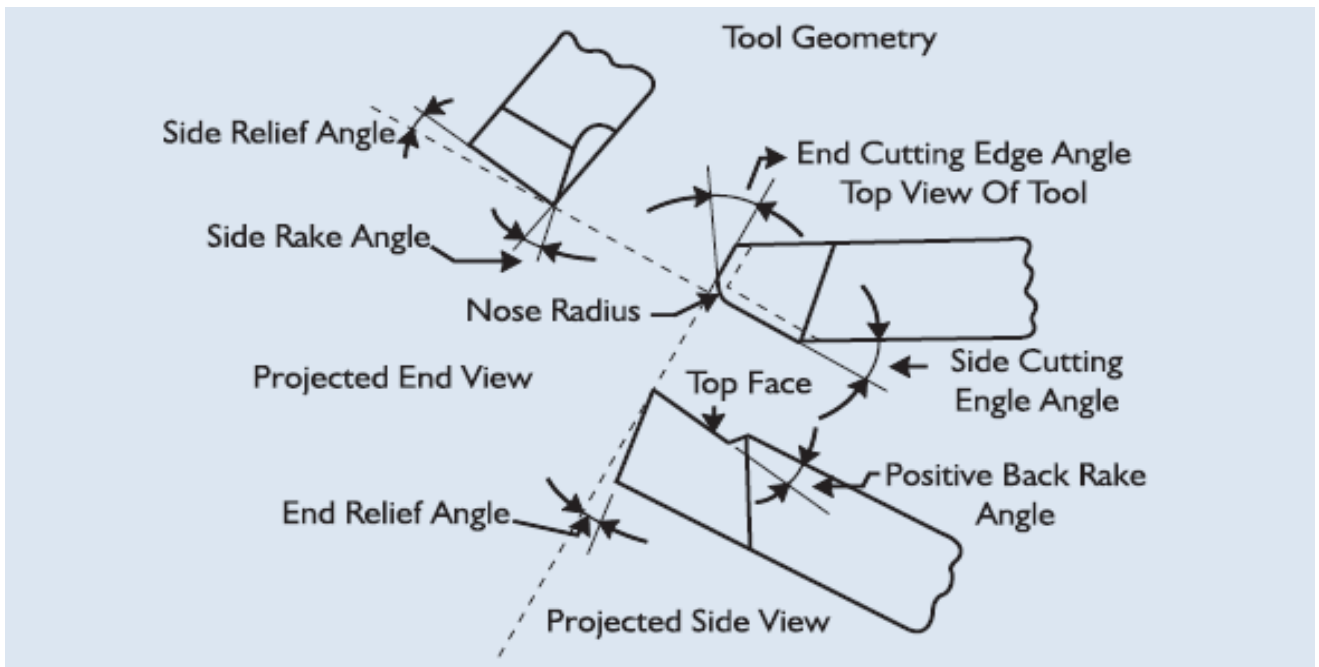
EXAMPLE ⇒ 10mm X 200mm

Size in inches			
W/d	L		
1/8	2 ½	3	4
3/16	2 ½	3	4 6
1/4	2 ½	3	4 6 8

Corresponding Size in mm				
W/d	L			
3	65	75	100	
5	65	75	100	150
6	65	75	100	150 200

**Holding Mechanism:**

Tool bits are secured using tool holders, which clamp the shank firmly to ensure stability during machining. Proper alignment and tight clamping are crucial to prevent tool chatter and achieve the desired machining accuracy.



**CATEGORISED BASED ON COBALT CONTENT**

% OF COBALT	0%	5%	8%	10%	10% + CRYO
(BIPICO)	BP101	BP202	BP303	BP404	BP505
(MIRINDA)	ZEDD	S200	S300	S400	S500

# HSS TOOLBIT BLANKS



NOMINAL SIZE			GRADES						PKT. QTY.
MM	INCH	EQUIVALENT MM	ZEDD SQ. Price Each Rs.	\$100 M35 SQ./RD Price Each Rs.	\$200 M42 SQ./RD Price Each Rs.	\$400 T42 SQ./RD Price Each Rs.	\$400E M35 SQ./RD Price Each Rs.	\$500 T42 SQ./RD Price Each Rs.	
-	3/32 x 2.1/2	2.38 x 63.50	140	310	436	459	365	488	10
-	3/32 x 3	2.38 x 76.20	164	501	701	735	588	781	10
3 x 75	1/8 x 3	3.18 x 76.20	164	343	483	510	401	531	10
3 x 100	1/8 x 4	3.18 x 101.60	215	618	889	933	734	970	10
4 x 75	5/32 x 3	3.97 x 76.20	164	347	495	520	410	532	10
4 x 100	5/32 x 4	3.97 x 101.60	220	538	769	808	640	829	10
5 x 75	3/16 x 3	4.76 x 76.20	140	274	360	377	321	390	10

# HSS PARTING TOOLBITS

NOMINAL SIZE		GRADES		PKT. QTY.
INCH	EQUIVALENT MM	MARK II	T42	
		Price Each Rs.	Price Each Rs.	
3/32 x 1/2 x 4	2.38 x 12.70 x 101.60	834	1,463	10
3/32 x 5/8 x 5	2.38 x 15.88 x 127.00	1,045	1,923	10
1/8 x 3/4 x 6*	3.18 x 19.05 x 152.40	1,332	2,361	10
1/8 x 7/8 x 6	3.18 x 22.23 x 152.40	1,559	2,883	10
3/16 x 1 x 6	4.76 x 25.40 x 152.40	1,938	3,303	10

- Mark II - M2 (HSS with 0% Cobalt) (62-65 HRc), T42 (HSS with 10% Cobalt)



**HIGH SPEED STEEL TOOL BIT**  
**■ SQUARE & ● ROUND**  
**(INCH SPECIFICATION)**  
 HSN Code 8207 8000

Size in mm	Size in inch	BP 101 0% Cobalt (M2) Rs/Pc	BP 202 5% Cobalt(M35) Rs/Pc	BP 303 8% Cobalt(M42) Rs/Pc	BP 404 10% Cobalt(T42) Rs/Pc	BP 505 10% Cobalt CRYD(T42) Rs/Pc	Unit of Pack in Plastic Box for square TB
2.5 x 63	5/32 x 4	146	294	445	454	-	1
2.5 x 75	5/32 x 3	175	469	718	720	-	1
3 x 75	3/32 x 2 1/2	175	320	497	500	-	1
3 x 100	1/8 x 3	225	579	910	919	-	1

ToolBits : Upto 1/2" (12.50 mm) to be ordered in multiple of 10Nos.