



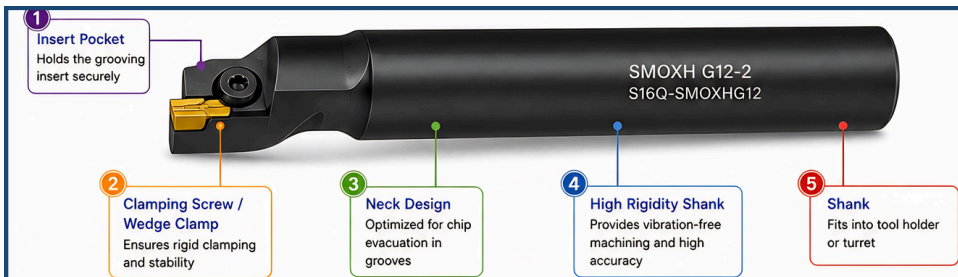
Smoxh Grooving Bar

Description

SMOXH grooving tools are precision CNC turning tools designed for creating grooves, recesses, and parting operations on metal components. They are widely used in industries like automotive, aerospace, and general machining.

Types

- External Parting & Grooving Bars
- Internal Parting & Grooving Bars
- Blade Tools
- Swiss type Grooving Tools
- Face Grooving Tools



APPLICATIONS

Used for machining:

- Bushings
- Cylinders
- Bearing housings
- Automotive components
- Hydraulic parts
- General engineering components

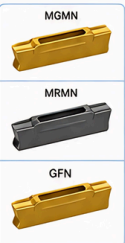


INSERT COMPATIBILITY

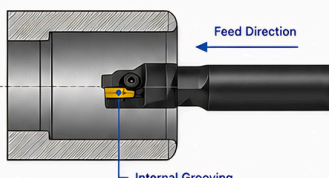
Uses standard ISO grooving inserts

Common Insert Types:

- MGMN
- MRMN
- GFN
- Custom grooving inserts



APPLICATION (INTERNAL GROOVING)



KEY FEATURES

- ✓ High rigidity for stable grooving
- ✂ Excellent chip control in narrow grooves
- ⊕ Precision groove width control
- ✦ Smooth surface finish
- 📈 Suitable for finishing and semi-finishing operations
- 📏 Available in multiple groove widths

ADVANTAGES

- ✓ Accurate groove width and depth
- ✓ Reduced vibration and better stability
- ✓ Better chip evacuation
- ✓ Replaceable inserts (cost-effective)
- ✓ High repeatability and reliability

LIMITATIONS


- ⚠ Limited by minimum bore diameter
- ⚠ Requires correct insert width selection
- ⚠ Improper setup may cause chatter
- ⚠ Chip packing in deep grooves (needs proper coolant and chip control)

TOOL DESIGNATION (EXAMPLE)

S	16	Q	SMOXH	G12	02
Shank Type	Shank Diameter	Shank Shape	Model	Groove Type	Insert Width
S = Steel Shank	16 mm	Q = Square (or as applicable)	SMOXH Grooving Bar	G12 = Internal Grooving	02 = 2.0 mm

Note: Designation may vary by manufacturer.

TYPICAL DIMENSIONS (EXAMPLE)



Shank Ø (D)	Min. Bore (d)	L	L1	Groove Width	Insert
12	14	100	20	2.0 mm	MGMN200
16	18	120	25	3.0 mm	MGMN300
20	22	125	30	4.0 mm	MGMN400
25	28	150	35	5.0 mm	MGMN500

Note: Dimensions are for reference only. Actual sizes may vary.