



Micron+Smash



Committed to quality, Committed to you....



www.smashindustry.co.in

SMASH INDUSTRY IS CHANGING AND MOVING FORWARD.

- To get closer to our customers and offer customized solutions to every problem.
- To increase customer satisfaction.
- To spread our enthusiasm as professional craftsmen. Where passion meets productivity.

SPECIALIST IN

- Special And Standard Gauges
- Mechanical Fixtures & SPM's
- Special And Standard Cutting Tools

COMPANY PROFILE



SMASH INDUSTRY made a modest beginning by making plain limit gauges and Special cutting tools. Smash Industry has been serving the customers since last 07 years.

Since our inception in the year 2015, we have been a professionally managed company involved in manufacturing a unique range of Special Relation Gauges, Fixtures, Press tools, Spline Gauges, Thread Gauges, Air Gauges, Standard Attribute Gauges, Carbide Gauges, Cutting tools Etc. Our sincere efforts towards quality gained us esteemed **ISO 9001:2015 (UK-PSIYQ27128342)** certification and have enabled us to cater our flawless range of gauges, fixtures and tools to wide client base. Sharp manufacturing expertise and competent coordination of our team of experts helps us in carrying out manufacturing process efficiently. Vast industrial experience and a well-equipped manufacturing unit has enabled us to tailor innovative and technologically advanced testing equipment for various industrial applications. we have been able to bring about necessary changes in our manufacturing process of all special and standard gauges, Carbide cutting tools and indexable tools etc. We have made a remarkable progress by providing customized solutions to our clients that conform to international quality standards. We are committed to promptly responding to customers' challenges with the dedication of a professional craftsman and doing our best to actively contribute to their success.

PRODUCT PORTFOLIO

With a thrust on innovation and quality, we have developed Special Gauges, Jig- Fixtures, Press Tools, Special and Standard industrial cutting tools, indexable tools, profile insert PCD. CBN. Carbide etc. which are widely demanded in the markets.

Manufacturing compact and efficient range of Gauges, we are fulfilling the voluminous technical and industrial requirements of our clients. Procuring high quality raw material from reliable vendors in Pune and Mumbai, we are able to deliver a flawless range of Gauges to our esteemed clients. Our Gauges are manufactured using high class raw material that includes Oil Hardened Non-Sinking Steel (OHNS), Special Wear Resistance Tungsten Carbide and other material grades as customers suggestion & application.

CUSTOMIZATION

We being a customer centric organization, aim at providing the best quality gauges, fixtures, cutting tools etc. to facilitate our customers, we manufacture gauges and fixtures as per their requirements and deliver a flawless range of product. Our research and marketing department analyse the requirements of our clients and are served accordingly by manufacturing gauges on advanced machinery at our manufacturing unit.

INDUSTRIES WE CATER TO

Providing customized solutions to our clients Maintaining highest level of quality, we have been able to deliver our wide array of precision engineered gauges to a number of industries. We primarily supply our engineering accessories to:

■ Automobile ■ Aviation ■ Defence organization ■ Heavy engineering ■ Electronic

Micron+Smash

PRODUCT RANGE



GAUGE AND FIXTURES

Relation Gauge	Jig Fixtures	Press Tools	Air Gauges
Thread Gauges	Spline Gauges	Taper Gauges	Standard Gauges

CUTTING TOOLS

Indexable Cutting Tools	Solid Carbide Mills	Special HSS Tools	Brazed Carbide Tools
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SPECIAL GAUGES AND FIXTURES

Special Gauges and Fixtures need to be robust enough to maintain Dimensional Integrity during the life cycle of the program.

DESIGN CONCEPT

The Design Concept must show the "Gauge Intent." It should reflect the GD&T datum locating scheme, customer requirements, and any special requirements reviewed during the quotation stage. The design concept shall consist of a minimum of a sketch and a written description of the gauge with sufficient detail in order that the gauge design concept could be better communicated.

Lead Time – 2 Weeks (depends On Qty) Customization As Per Customer Requirement And Specification.



RELATION GAUGE WITH PUNCHING
FIXTURE LEVER CHANGE SHAFT



PNEUMATIC CAP
PRESSING FIXTURE



DRILLING FIXTURE FOR
HUB CLUTCH



RELATION GAUGES
FOR CRANK PIN



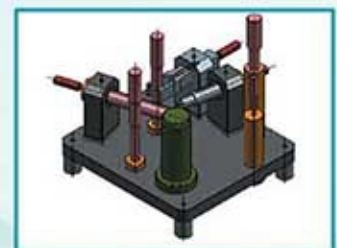
RELATION GAUGES C.B.
RUBBER MOUNT



INDICATIVE TYPE GAUGES



RELATION GAUGES FOR
CROWN HANDLE



RELATION GAUGES FOR
LEVER 180

PRODUCT RANGE



GAUGE AND FIXTURES

Relation Gauge	Jig Fixtures	Press Tools	Air Gauges
Thread Gauges	Spline Gauges	Taper Gauges	Standard Gauges

CUTTING TOOLS

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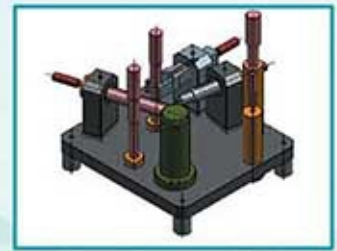
RELATION GAUGES C.B.
RUBBER MOUNT



INDICATIVE TYPE GAUGES



RELATION GAUGES FOR
CROWN HANDLE



RELATION GAUGES FOR
LEVER 180

THREAD RING GAUGES (METRIC & UNIFIED)

- Ring Range – 1 mm To 250 mm
Standards – Metric – DIN Iso 1502 / ANSI/ASME B1.16m
Unified – ANSI/ASME B1.2
Material – Oil Hardened Non-shrinkable Steel (OHNS / En31)
Lead Time – 1 Week (depends On Qty)
Customisation As Per Customer Requirement And Specification.



SPLINE GAUGES

SPLINE RING GAUGES

- Use** : For Quick and Accurate inspection of external involute/serration/straight spline
Range : Dia. 12mm to 150 mm
Quality Standard : Involute Spline ANSI B92.1 1970
Material : OHNS SAE 01/02
Profile : Involute/serration/straight
Gauge Quality : As Per DIN-3962 Class-5
Customization As Per Customer Requirement And Specification.
Lead Time – 1 Week (depends On Qty)



SPLINE PLUG GAUGES

- Use** : For Quick and Accurate inspection of internal involute/serration/straight spline
Range : Dia. 12mm to 150 mm
Quality Standard : Involute Spline ANSI B92.1 1970
Material : OHNS SAE 01/02
Profile : Involute/ Serration/ Straight
Gauge Quality : As Per DIN-3962 Class-5
Customization As Per Customer Requirement And Specification.
Lead Time – 1 Week (depends On Qty)



SPLINE TAPER MANDRELS

- Use** : For machining an inspection operation like turning, milling gear cutting etc. For production of spline component.
Profile type : Involute, Serration, Straight.
Range : Dia. 15mm to 200 mm,
Length : 150mm, 200mm, 250mm, 300mm.
Material : OHNS SAE 01/02
Hardness : 58-60 Hrc.



HARD BROACH TOOLS

- Use** : For DBP CORRECTION
Profile type : Involute, Serration, Straight.
Range : Dia.15mm to 100 mm
Length : 150mm, 200mm, 250mm, 300mm., 400mm
Material : OHNS/EN-24/D2
 Customization As Per Customer Requirement And Specification.
 Lead Time – 1 Week (depends On Qty)



TAPER GAUGES

Taper plug and ring gauge

Covers requirements for taper plug gauges and taper ring gauges, used for checking taper ID and taper OD of components.

Taper ring is blue matched up to 90 ~ 95 % with respect to plug.

Customization as per customer requirement and specification.

- Material** – EN31 / OHNS
Range – Ring - 2 mm – 250 mm
 Plug - 2 mm – 400 mm

Lead time – 2 – 3 weeks (depends on size and qty)



STANDARD GAUGES

Snap Gauges

Plug Gauges

Ring Gauges

Width Gauges

SNAP GAUGES

TYPE	RANGE
1.Single Ended Snap Gauge	0.5 – 1000 mm
2.Double Ended Snap Gauge	
3.Span Gauge	
4.Measuring Portion Thk. or Blade Type	



MATERIAL :- Carbide / Steel

Standard :- IS 3455

Lead Time :- 1 Week

PLUG GAUGES

TYPE	RANGE
1. Reversible Type Plug Gauge	0.5 – 10 mm
2. Taper Shank Type Plug Gauge	10 – 40 mm
3. Tri-lock Type Plug Gauge	40 – 100 mm
4. Plate Type Plug Gauge	100– 650 mm
5. A + B Type Plug Gauge (carbide + Steel)	0.5 – 100 mm
6. Progressive Plug Gauge	0.5 – 100 mm



MATERIAL :- Carbide / Steel

Standard :- IS 3455

Lead Time :- 1 Week

RING GAUGES

Range – 0.5 – 200 mm

Material – Carbide / Steel

Lead Time – 1 Week (depends On Qty And Size)



WIDTH GAUGES

TYPE	RANGE
1. Slip Master	1.0005 – 1000 mm
2. Height Block	5 – 100 mm
3. Reversible Type	1 – 40 mm
4. T – Type Width Gauge	10 – 100 mm



MATERIAL :- Carbide / Steel

Standard :- IS 3455

Lead Time :- 1 Week

Slip Gauge Set	Measuring Pins	Od Masters	Width + Snap Gauges
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Range – 1.0005 – 150 mm	Range – 0.5 – 150 Mm	Range – 5 – 150 Mm	Range – 5 – 50 Mm
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MATERIAL :- Carbide / Steel **Standard :-** IS 3455 **Lead Time :-** 3 Weeks for Measuring Pin set & Slip Gauge Set

CUTTING TOOLS

We work closely with our customers to develop complete solutions in **SOLID CARBIDE** to reduce not only the tooling cost but also cycle time; Our customized tools are a cut above the rest for we not only tailor it to suit the application but also use our specific geometries & grades developed for standard applications in materials like titanium, SS, steel, Aluminum, CI, etc to give you a standard like performance even on customized tools.

Additionally, we also cater to special solutions like Indexable Cutting Tools, CT Brazed Cutting Tools, Standard Cartridges, Lugged Carbide Tools, Special HSS Cutters, T-slot milling, wood-ruff, spherical, valve seat valve guide and others form milling cutters. Such tools are generally accompanied by an inspection certificate from word class quality measuring equipment like Walter Heli-check pro. It goes without saying that such sophisticated tooling undergoes rigorous in process quality checks on Zoller POM basic, Blicke, etc.

TYPES OF CUTTING TOOLS



INDEXABLE U – DRILLS



INDEXABLE FACE MILL CUTTER



INDEXABLE SIDE MILLING CUTTER



INDEXABLE T SLOT CUTTER



INDEXABLE CAMFER CUTTER



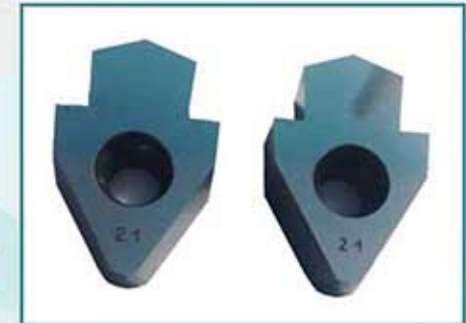
INDEXABLE BALL NOSE CUTTER



PROFILE INSERT PCD, CBN, CARBIDE



CBN PROFILE TOOLS



CARBIDE PROFILE INSERTS

PROFILE INSERTS



SPL. CARBIDE PROFILE INSERTS

SPL. CARBIDE PROFILE INSERTS

SPL. CARBIDE PROFILE INSERTS



HSS STEP DRILLS WITH THROUGH COOLANT

SPL PROFILE TOOLS

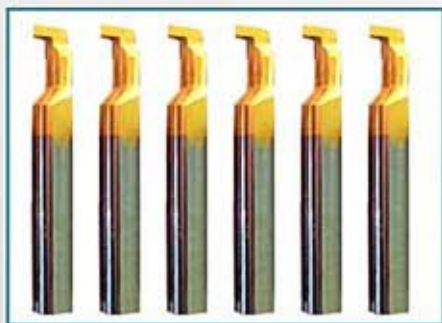
SPL PROFILE TOOLS



SPL. PROFILE TOOLS

SPECIAL CARBIDE DEAD CENTERS

SPL CARBIDE BLADES



SPL. CARBIDE ID GROOVING TOOLS

COLLET TYPE HOBGING FIXTURES

CARBIDE PROFILE DIES



INSERTED DRILLS



SPECIAL PROFILE TOOLS TO REMOVE BURR FROM GEAR TEETH



SPECIAL CARBIDE DRILLS FOR AGRICULTURAL USE



CT BRAZED PROFILE CUTTER



CT BRAZED REAMER



CT BRAZED SPECIAL PROFILE CUTTER



CT-BRAZED PROFILE CUTTER SET



CT BRAZED TRIPPING TOOL WITH MT2 SHANK



CT BRAZED SPECIAL REAMERS



LUGGED CARBIDE FACE MILL CUTTERS



LUGGED CARBIDE EXTRA LENGTH DRILL



SOLID CARBIDE T SLOT CUTTERS

TAPER END MILLS

Taper end mill is used to make a taper hole by a plunging operation. A hole should be machined prior to the machining of the taper end mill. Special Tapper End Mills as per Requirement



HOLE MILLS

Modern solid carbide drills produce holes in a tolerance zone of H8-H10; in which case the hole axis is accurate in half this tolerance



REAMERS

Reamers are the most used tools for finishing of holes from H6-H7 tolerances. The most widely used reamers in the diameter range 1.5- 32 mm are manufactured in solid carbide.



DREAMERS

Dreamer is just another name for a Drill cum Reamer. A dreamer is a time saving and economical hole making tool. This tool has the characteristics of a Drill and Reamer combined together.



STEP DRILLS

More than 60-65% of holes in the metal cutting industry have a chamfer at the start. Conventionally, drilling and chamfering have been two separate operations in hole-making.



STEP BURNISHING DRILLS

Hole making in aluminum is continuously expanding especially in the two-wheeler and car industry as more and more components are getting converted to Aluminum.



Manufacturing of Special Precision Gauges, Fixtures, & All Types of Customized Carbide Cutting Tools

SPECIAL GAUGES & FIXTURES



PROFILE & FORM TOOLS

Solid Carbide Special Profile, Circular, Dovetail Form Tools,
Multi Dia Cutters for Various Application



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MANUFACTURING PLANT

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SALES OFFICE FOR NORTH INDIA

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