

DITTOMIX

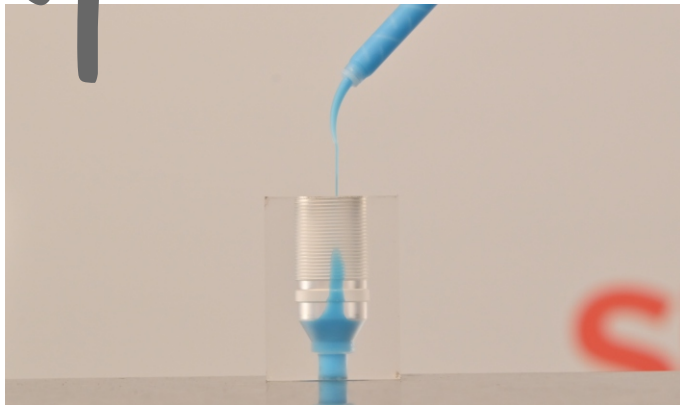
→ Converting Complex **3D** internal measurements to simple **2D** measurements

Say **NO** to Destructive Testing



DITTOMIX PROCESS

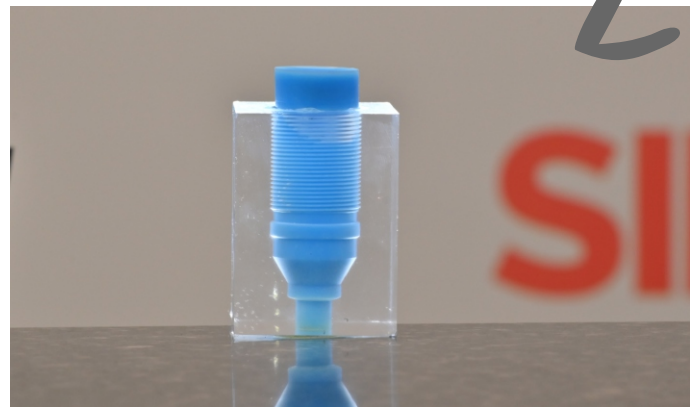
1



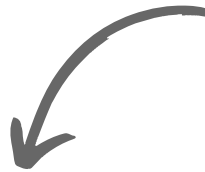
* Pour DITTOMIX in the cavity



2



* Let DITTOMIX Solidify



3



* Pullout Soft DITTOMIX Replica



4



* Ready to measure

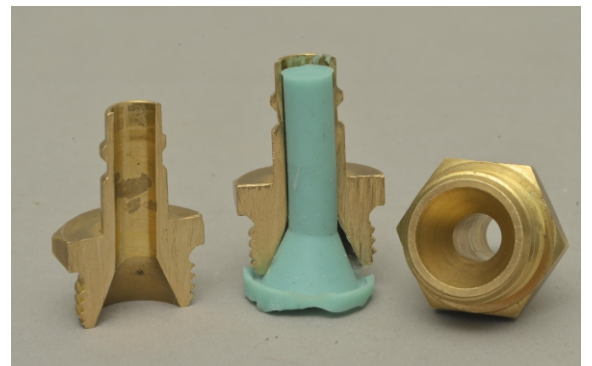
All your internal measurement problems are now

EASY TO REMOVE
NO ADHESION
EASY TO CUT CROSS SECTION
ONE MICRON RESULT
ZERO SHRINKAGE
NON TOXIC
RESISTANT TO HEAT & CHEMICALS
DIMENSIONALLY STABLE
FULLY ELASTIC

ARE SORTED

ADVANTAGES

- No need to buy expensive **3D** internal measurement instrument
- Measure dimensions which you were not able to measure before
- **Easy to use**
- **Cost effective**
- Perfect reproduction of dimension within **1µm accuracy**
- Measure **hard to access** dimensions
- Excellent **surface details** (finish) reproduction
- For roughness **Ra>0.4µm** we can use contact type roughness tester- no need to buy expensive optical roughness tester
- **3D replicas** in **1µm accuracy**
- **Easily cut section** & use your **2D** measurement systems to measure complex 3D internal geometry
- **Make inspections simple**, cheaper & more efficient
- **No need to destroy parts** for inspection
- Save time by avoiding destructive testing
- **Measure without disassembling big parts**
- Cut uniform sections of 1mm thickness with **DITTO MIX** cutting blade for measurement on optical profile projector / VMM or a microscope.



APPLICATIONS



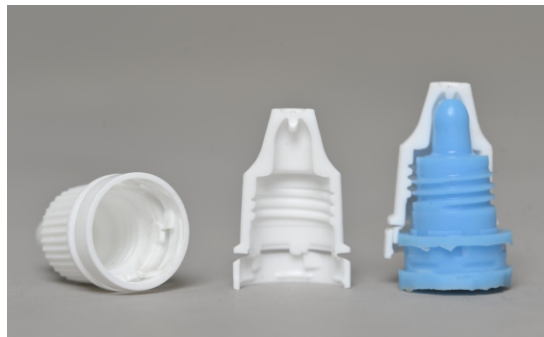
DIMENSIONS

- Internal Thread
- Grooves
- Radius
- Taper Angles
- Int Chamfers
- Thread Roots
- Small Bores
- Tslots
- Notches
- Undercuts



SURFACE MEASUREMENT

- Roughness
- Surface Finish Inspection



CUSTOM FIXTURING

- Soft parts
- Unbalanced parts
- Non-Magnetic parts



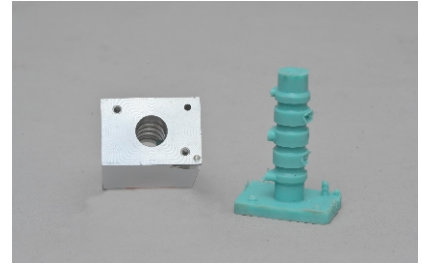
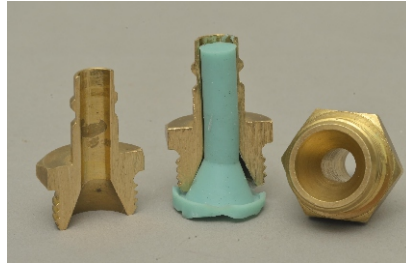
MASKING & SEALING

- Sandblasting
- Painting
- Chemical Treatment
- Heat treatment
- Anodising
- Chrome Plating



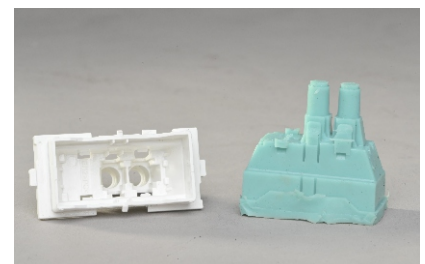
INDUSTRIES ...

- Aeronautics
- Oil & Energy
- Medical
- Automobile
- Pharma
- Precision Engineering
- Watch Components
- Electrical
- Electronics
- CNC Precision Turned Components
- **And Yours....**



MATERIALS

- Metals
- Non Metals
- Plastics
- Rubber
- Wood
- Glass
- Marble
- Ceramic
- Card Board
- Paper



HOW TO CHOOSE DITTO MIX

1. SELECT YOUR APPLICATION

External Dimension
Internal Dimension
Roughness
Visual Surface (Horizontal, Vertical, Slantrise)
Protecting, Masking, Sealing
Reinforcement, Holding

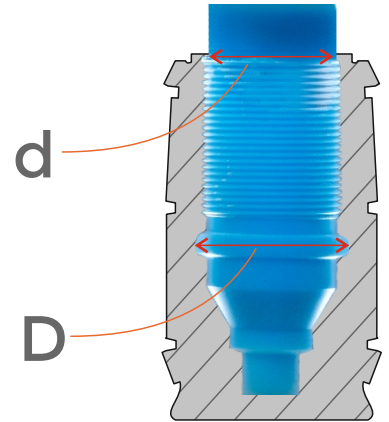
2. MINIMUM PULLOUT DIAMETER d

3. DO YOU WANT TOTAL OR PARTIAL IMPRESSION?

4. d/D RATIO (D =maximum Internal Dimension)

5. WHAT MEASURING INSTRUMENT DO YOU HAVE?

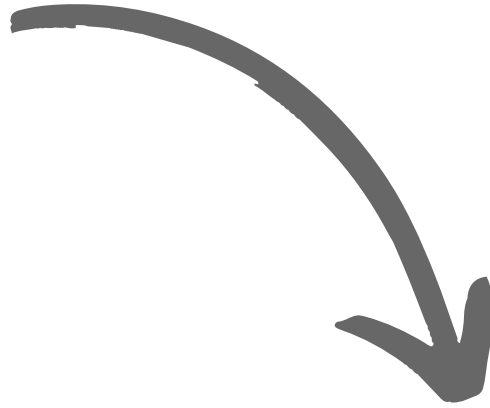
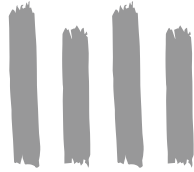
Contact, Non-contact Or Both



SPECIFICATIONS

S.No.	Model No.	DT912	DT914	DT916
1.	Color		Green/Blue	OrangeRed
2.	Final Output	Very Soft	Soft	Hard
3.	Suitable d/D Ratio	<40%	<15%	0%
4.	Final Shore Hardness (Durometer)	20	40	60
5.	Replica Accuracy	1 μ m	1 μ m	1 μ m
6.	Curing time	25min	45min	50min
7.	Dimensional Stability	0.04%	0.05%	0.07%
8.	Internal Threads (fine)	Yes	No	No
9.	Small undercuts	Yes	No	No
10.	Internal Threads (Big)	Yes	Yes	No
11.	Roughness Measurement	No	No	Yes
12.	Surface Finish Measurement	No	No	Yes
13.	Blade Sectioning	No	Yes	Yes
14.	Contact Measurement	No	No	Yes
15.	Non Contact Measurement	Yes	Yes	Yes

THE DITTOMIX KIT



DITTOMIX In Cartridge
Optimum Polymerization

Dispensing Gun

Nozzle Tips
To control flow rate

Mixing Nozzles
For Homogenous Mixing

Double Blade Cutter
For Cutting

Detergent Spray
For Cleaning



Book Your Demo

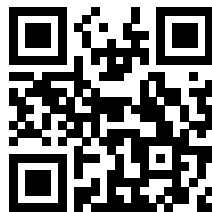
Book a LIVE DEMO to get all your queries answered



www.sipconinstrument.com/dittomix/demo



Book a 30mins online demo



SIPCON INSTRUMENT INDUSTRIES

PLANT1: 116-B HSIDC, Industrial Estate, Ambala Cantt-133001 Haryana-India

PLANT2: Plot No. 280, HSIDC Industrial Estate, Saha-Ambala Haryana-India