



A DIVISION OF ABHANG GROUP

RAJA PLASTICS & ENGINEERING COMPANY





RX20

JYOTI

JYOTI

Trusted manufacturing company specializing in
producing consumer innovations.

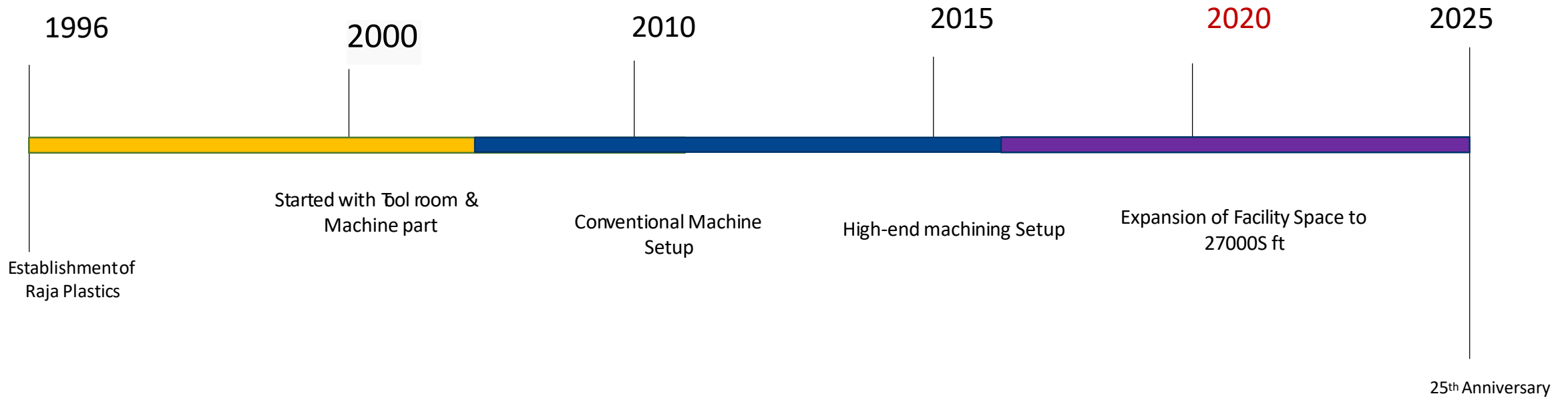
MULTIPURPOSE MANUFACTURING UNIT

Machinist Expert & Customized Projects



ISO
9001
QUALITY
ASSURANCE

About Us



Established in Pune India, in **1996**, the company first began as a Plastics products Manufacturer. Later, we began to manufacture Dies and Molds & Core Engineering Metal components Part Maker We are a Family of 79 and Strive to Expand more. Today, we have expanded to provide for the needs of the automotive, mechanical, and electronic goods sectors.

We produce customized goods to fit the industrial parts needs of any business, making sure that every single product we manufacture is of the highest quality

Company Vision Mission

Vision

To become a company that constantly strives for customer satisfaction by providing best solutions with global benchmarks and to be a company which integrates Health, Safety and Environmental considerations into all its business decisions and activities.

Mission

Our mission is to enable economic growth through development, and to provide solutions that support communities and protect the planet. We apply innovation and technology to improve the sustainability performance of products, services, solutions and operations.





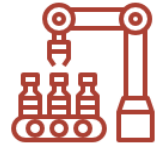
Our Key Attributes



Wide Range Of Products On Time Delivery Quality Assure
Product Range Sound Infrastructure



Highly Efficient Workforce Recognition The Parts And
Requirement Selection Of Raw Material As Per
Recommitted Or As Per Requirement.



Designing Department Manufacturing The Parts Quality
Check

CONTINUOUS IMPROVEMENTS &
UPGRADING TO ADVANCED TECHNOLOGIES

CHASING EXCELLENCE WITH **INNOVATION**

WE ARE **COMMITTED** TO
DELIVERING
EXCELLENCE



OUR FACILITY

3000 SQFT

UNIT 1



- Machine Shop
- Quality Department
- Storage Facility

23000 SQFT

UNIT 2



- Management Strength
- CA Qualified Accountants
 - Design Engineers
- Jig & Fixtures
Tool Design

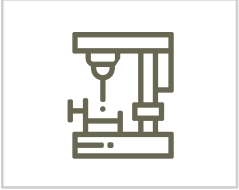
20000 SQFT

UNIT 3



- R&D
- Multiple Conference Facility

Services



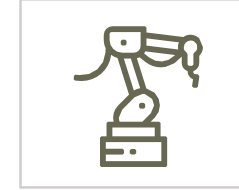
Precision Parts Manufacturing

Parts are produced through precise and fully automated machining equipment, allowing for mass production without a loss in quality. Our trained technicians and operators also make sure that all parts we produce should meet customers' needs & industry Standard.



Customization and Prototyping

We have an in-house team that will conceptualize and Develop the parts that meet customers' needs. Once we understand your requirements, we will handle everything from Prototyping the parts to producing the requested volume.



Parts and Product Sub Assembly

Streamline your operations by letting us assemble your products for you. We also provide welding, fabrication, and laser engraving services to bring your design from idea to finished product at a much faster pace.

Complete List of Services

IN HOUSE

1. Precision Machining
2. Lathe & Milling
3. VMC , CNC , HMC
4. Customized Parts
Design
5. CAD Programming
6. Plastic Injection
Molding
7. Product Assembly

Strategic Partner Services

1. Fabrication and Welding
2. Laser Engraving
3. Cutting Services
4. Surface Treatment



Industries Served



The Company is prepared to provide its services to different industries, within and outside of India. Because we handle end-to-end manufacture of industrial parts, we can produce an assortment of products fit for every and any customer.

1. Automotive
2. Food Industry
3. SPM
4. National Defense
5. Petroleum
6. Consumer Market

Inhouse Machineries



CNC TURNING				
SR.NO	MAKE	BRAND	SPECIFICATION	Qty
1	CNC TURNING DX 200 3A	JYOTI	200 X 300	4
2	CNC -DX 200-3 B	JYOTI	200 X 300	2
3	CNC - DX250 A28	JYOTI	380 X 1000	1
4	TSUGAMI Mi08JL5-II	TSUGAMI	200X500	1
5	TSUGAMI Mi08JL8-II	TSUGAMI	200 X 800	1
6	CNC - LL20 TL 7	LMW	280 X 300	1
7	POLYGON CNC	POLYGON	60 MM HEX	1
Total				10
VMC MACHINE				
SR.NO	MAKE	BRAND	Table Size	QTY
1	VMC VF2 (4th axis)	HAAS	762 X 406 X 508 MM	4
2	VMC VF4(Tool Prob)	HAAS	1270 X 508 X 635 MM	3
3	VMC - 850	JYOTI	1000 X 510 X 510 MM	1
4	VMC -RX 20	JYOTI	820 X 500 X 500 MM	1
5	VMC - NUV 1370	JYOTI	1370 X 700 X 700 MM	1
6	MAZAAK -DP850	MAZAAK	820 X 500 X 500 MM	1
7	HMC SEKI	SEKI	400 X 400 X 400 MM	1
8	VMC 3 METER	PHILIPHS	3000*2200*2000 MM	1
9	VTL	MARONDO	1500 MM SWING CHUK	1
Total				14

Inhouse Conventional Set up

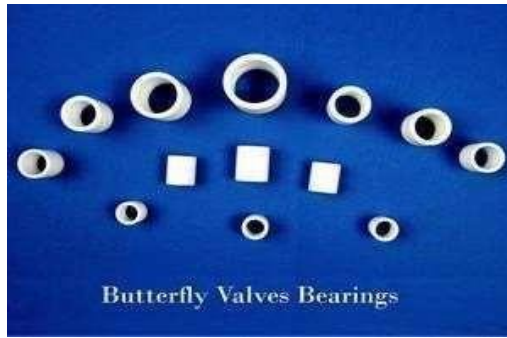


CONVENTINAL MACHINE SET UP				
SR.NO.	MAKE	YEAR	DETAILS	QTY
1	LATHE MACHINE 7 FT	2006	7 FEET	4
2	LATHE MACHINE 5 FT	2008	5 FEET	4
	M1TR MANFOLD	2023	1200 X 250 X 350 MM	1
3	M1TR MILING MACHINE	2008	1200 X 250 X 350 MM	5
4	UNIVERSAL MILLING MACHINE	2013	1400 X500X600MM WITH DRO AUTO FEED	3
5	MILING MACHINE	2014	1200 X 600 X 400 MM	2
6	SLOTING MACHINE 1	2015	INTERNAL SLOTING12" (300MM)	2
7	RADIAL DRILLING MACHINE	2015	MT 4 TO M38	3
8	DRILLING MACHINE 2	2015	1 1/2"	2
9	BANDSAW CUTTING	2016		2
10	HONING M/C	2017	52 MM TO 250 MM ,1500 MM FULL STROKE	1
11	CYCLINDER GRINDER	2024	1200 MM	1
12	SURFACE GRINDING	2024	1500 X 600 MM	1
13	EDM	2023	1000 X 500 mm	1
14	WIRECUT		700 X 1000 MM	1
15	AIR COMMPRESSOR-	2023	15 CFA	1
16	D.G. SET 125 KVA	2018		1
17	FORKLIFT 1	2019	500KG	1
18	FORKLIFT 1	2019	300KG	1
19	SHRINK FIT	2023		1
Total				38

Inhouse Plastics Moulding Machine



PLASTIC INJECTION MOULDING MACHINE				
SR.NO	MAKE	BRAND	DETAILS	QTY
1	VERTICAL PLUNGER TYEP	TEXTPLASST	TIE BAR 220 X 180 50 TON	2
2	VERTICAL SCREW INJECTION	SABA	TOGGLE HYDRAULIC PLASTICS MOULDING M/C 80 TON	3
4	HORIZONTAL INJECTION MOULDING	WINDSOR	TIE BAR 440 X 440 180 TON	2
5	HORIZONTAL INJECTION MOULDING	HAITIAN	TIE BAR 400 X 400 90 TON	1
6	HORIZONTAL INJECTION MOULDING	HAITIAN	TIE BAR 550 X 550 200 TON	1
7	HORIZONTAL INJECTION MOULDING	HAITIAN	TIE BAR 550 X 550 200 TON	1



Machine Setup

Photographs of some of the Advance Machine in our Factory



CNC



VMC



VMC



HITACHI SEKI HMC



HEAVY DUTY LATHE



MILLING/M1TR MACHINE



Injection Molding



Horizontal Injection Molding

Machine Setup



Machine no :
001

- **Model: HAAS VF-4-I**
- Make country : USA
- Table Size: 1270X508X635
- Computer Numeric Control Unit : Mitsubishi M80 A
- Spindle : BT 40
- Spindle Motor : 10000 rpm
- Power : 105/191Nm
- ATC : 31 Tools
- Inline direct-drive Through spindle GB
- 4TH Axis with Rotary Table
- Probe Risk Block & Edge Sensor
- Application :- Precision & Critical Work



Machine Setup



Machine no : 002

- **Model: HAAS VF-4**
- Make country : USA
- Table Size: 1270X508X635
- Computer Numeric Control Unit : Mitsubishi M80 A
- Spindle : BT 40
- Spindle Motor : 10000 rpm
- Power : 105/191Nm
- ATC : 31 Tools
- Inline direct-drive Through spindle GB
- Application : Die Mold



Machine Setup



Machine no : 003



Machine no :
004

- **Model: HAAS VF-2**
- Make country : USA
- Table Size: 726X406X508
- Computer Numeric Control Unit : HAAS M130
- Spindle : BT 40
- Spindle Motor : 8100 RPM
- Power : 122.0 Nm @ 2000 rpm
- ATC : 25 Tools
- Inline direct-drive Through spindle GB
- Application : Automobile & Medical Precision Components , Electrode

Machine no : 005



Machine Setup



Machine no : 006

- **Model: LMW CNC TURNING LL20T L7**
- Make Country : INDIA
- Swing Over bed: 510mm
- Chuck Dia. Max : 210mm
- Max. Turning Diameter: 320 mm
- Max. Turning Length: 690 mm
- Admit Between Centre: 830 mm
- Spindle nose Type : A2-6 & SIEMENS 828D
- Hole through Spindle : 61
- Spindle Speed Rpm : 3500
- Spindle Motor Power : 9/11Kw
- Application : Auto Parts & General Components



Machine Setup



Machine no : 007

- Model: JYOTI DX 250-1000B
- Make country : INDIA
- Chuck : Dia. 380 mm, 3-Jaw (inch Serration)
- Max. Turning Length: 1000 mm
- Spindle type: A2-11 & Siemens - 828 D
- Spindle Motor : 18.5/27.8kW 1500 rpm
- Accuracy X/Z : ± 0.002
- Work Specialty : Heavy Turning
- Steady Rest (80-240mm) SHS-523C



Machine Setup



Machine no : 008

- Model: **JYOTI DX 350-1000B**
- Make country : INDIA
- Chuck : Dia. 380 mm, 3-Jaw (inch Serration)
- Max. Turning Length: 1000 mm
- Spindle type: A2-11 & Siemens - 828 D
- Spindle Motor : 18.5/27.8kW, 1500 rpm
- Accuracy X/Z : ± 0.002
- Work Specialty : Heavy Turning
- Steady Rest (80-240mm) SHS-523C



Machine Setup



Machine no : 009

Machine no : 010

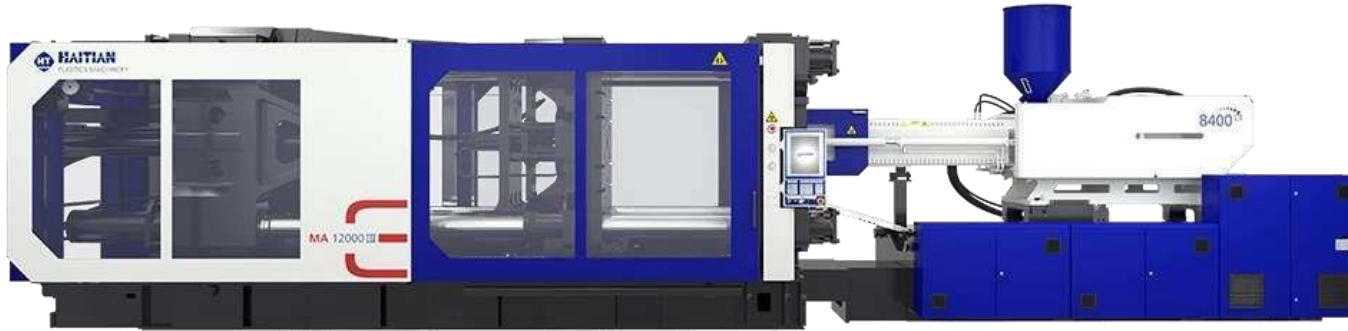
- **Model: TSUGAMI Mi08JL5-II**
- Make country : JAPAN
- Swing over bed: 515 mm
- Chuck dia. Max: 165 mm
- Max. Turning Diameter: $\varnothing 200^* 3$ Jaw
- Max. Turning Length: 300 mm
- Admit Between Centre : 350 mm
- Spindle type: A2-6 & Fanuc Oi TF & Tailstock with MT-5 Live center
- Spindle Speed : 4500 Rpm
- Spindle Motor Power : 9/11 Kw
- Accuracy X/Z : ± 0.001
- Application: High Precision for Medical and Valve Industry



Machine Setup

Machine no :
012

Machine no : 011



Machine Model		UN-90SK-II	UN-200SK-II
Injection Unit		IU295	IU895
Clamping Type		Toggle	Toggle
Tonnage	Ton	90 Ton	200 Ton
Screw Dia.	mm	30	48
Shot wt. in PS	Gr.	107	391
Injection Pressure	Bar	2528	1336
Platen Size (HxV)	mm	545x545	755x755
Tie Bar distance(HxV)	mm	360x360	510x510
Min. Mold Height	mm	130	180
Max.Mold Height	mm	350	520
Opening Stroke	mm	320	460
Total Daylight	mm	670	980

Planned Machine



- **Model: VMC 1370 NUV**
- Make Country : INDIA
- Table Size: 1500X700X700
- Computer Numeric Control Unit : Fanuc - Oi MF (Version)
- Spindle : BT 50
- Spindle Motor : 11/15kW 6000rpm,
- Power :105/191Nm
- ATC : 24 Tools
- Rotary Table Dia: Ø 250
- 4th Axis Continuous



Machine Setup

Model: VMC 3MTR PHILIPS PDC-2232

- Make country : INDIA
- Table Size: 3000X2400X1000
- Computer Numeric Control Unit : MITSUBISHI M80A
- Spindle : BT 50
- Power : 18.5/22 Kw (310/525NM)
- Spindle Motor : 6000 RPM
- ATC : 20 Tools
- 90 deg automatic indexing head with auto transfer
- Max load : 10 Ton
- Application: Die and Mold



Machine Setup



Hydraulic Surface Grinding Machine

Machine Specifications

CAPACITY		PH 2060
Max. Table Size	mm	500 x 1500
Max. Longitudinal Travel	mm	1575
Max. Cross Transverse	mm	550
Max. Spindle Center Height above Table	mm	550
Max. Table Speeds	m/min.	5-25
Power Cross Transverse	mm/min	1000
Auto Cross Feed at each Table Reversal (Infinitely variable)	mm	0.5 to 5
Least Count of Vertical feed head wheel	mm	0.002
Size of Grinding Wheel	mm	350 x 50 x 127
Power of Spindle Motor	HP	7.5
Speed of Grinding Spindle	RPM	1440
Working Pressure	Kg/Cm	20
Hydraulic Motor	HP	5
Hydraulic Tank Capacity	Liters.	150



Machine Setup



Electric Discharge Machine MODEL “YUVA 1050 ZNC”



YUVA SERIES – ZNC

Features :

- Column Movement Machine
- Double Door Opening
- Compact Foot Print
- Low Working Height
- Ball screw for X, Y axes
- PNC & X Y individual sparking (Optional)
- Z Axis AC servo
- Best surface finish : 0.3 μ Ra

Machine Tool	Yuva 1050
X AXIS TRAVEL (m.m.)	600
Y AXIS TRAVEL (m.m.)	450
Z AXIS TRAVEL (m.m.)	250
WORKTABLE SIZE X (m.m.)	1000
WORKTABLE SIZE Y (m.m.)	500
MAX PERMISSIBLE LOAD ON TABLE (k.g.)	1500
MAX ELECTRODE WEIGHT (k.g.)	100
DAYLIGHT (m.m.)	770
SHUTHEIGHT (m.m.)	320
WORK TANK INTERNAL DIM (X) (m.m.)	1420
WORK TANK INTERNAL DIM (Y) (m.m.)	850
WORK TANK INTERNAL DIM (Height) (m.m.)	550
DIELECTRIC CAPACITY (Ltrs.)	600
Generator (Amps)	50
M.R.R. Cu-Steel mm ³ /min	350
M.R.R. Gr-Steel mm ³ /min	500
Minimum Electrode wear%	0.2
Targeted Best Finish	0.8 / 0.3 mRa on steel
X, Y Screw	Precision drive Screw**
Z Screw	Lead Screw
Servo X, Y	NA (manual)
Guide Way X Y	LM
XY Movement	NA (manual)
Servo Z	DC Servo / AC Servo
Guideway Z	CRB
Back Slide	LM (Motorized)
Jump Speed Z Mtr/Min (NC)	1.5
Jump Speed Z Mtr/Min (ZNC)	2
Pump Motor (HP)	1 HP



Machine Setup



Cnc Wire Cut Edm Machine



TABLE / SPECIFICATION

Item	Parameter
<ul style="list-style-type: none">• model• Cutting power supply• Control system• X, Y axis travel• U and V axis travel• Machining taper/machining taper• Maximum straight cutting height• Maximum load capacity• Motion axis motion resolution• Bidirectional positioning accuracy• Repetitive positioning accuracy• Reverse clearance• Verticality of wire and workbench• Radial runout of wire storage cylinder• Diameter range of molybdenum wire• Wire feeding speed range• Maximum processing current• Maximum machining efficiency Cr12, H=60mm• Molybdenum wire loss Cr12, H=40mm• communication Interface• Rated power of electrical appliance• Multiple cutting accuracy Cr12, H=40mm, 15mm octagonal• Surface roughness(Straight cutting, H ≤ 40mm)	<ul style="list-style-type: none">• SF 40 series• High frequency power supply system• LQCUT• 400*500• +30mm, LM guide• ±10°/80mm• 300mm (Z-axis linear guide rail electric lifting)• 800kg• 0.001mm• ≤0.01mm• \$0.005mm• \$0.005 mm• ≤0.01mm• ≤0.005mm• 0.12-0.22mm• 1-12m/s• BA• 2200 mm²/min• ≤0.02mm/300000mm²,• LAN, RS232, USB• S3kW• s+0.004mm• cut Ras2.5pm. cut Ras1.6pm cut Ras1.0pm

STANDARD ACCESSORIES

- | | | |
|--|--|--|
| <ul style="list-style-type: none">• High Pressure coolant tank• Lifting motor for Z-Axis• Ball Screw in X & Y Axis | <ul style="list-style-type: none">• Ceramic nozzle• Guider (Z axis)• Wire tighten pulley | <ul style="list-style-type: none">• Steel Cover• Tool Box |
|--|--|--|



2.HIGH-FINISH
Ra0.8 μm - Ra1.0μm
H ≤ 40mm



1.HIGH-SPEED
≥200 mm²/min
(Cr12, H=60mm)

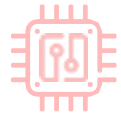
QC LAB Facility

Sr	S.No	Range	Qty.	Make
1	Tri -Mos (height)	0to 600mm	2	TRIMOS
3	Digital Varnier Caliper	0-600 MM	15	AEROSPACE
4	EXTERNAL MICROMETER	0-225 MM	8	YAMAYO
5	Digital Height Gauge	0-300MM	2	YAMAYO
6	DFT Meter	100 Micron	1	BAKER
7	VERNIER DEPTH GAUGE	0-300 MM	3	Baker

S.No	Name of Instrument	Range	Qty.	Make
1	Thread Ring Gauge	M 8X 1.25-6g	8	Baker
2	Lever Type Dial Gauge	10 MM	7	Baker
3	PLUNGER DIAL GAUGE	0-10 MM	7	Baker
5	VERNIERDEPTHGAUGE	0-300 MM	3	Baker
6	THREAD PLUGE GAUGE	M24X3-6H	8	PRECISION
7	TRG NO GO /GO	Multiple Size	31	BAKER
8	Surface Roughness Tester	.001Ra	4	Trimos
9	SURFACEPLATE	till 2meter	5	Micron
10	BOREGAUGE	160-250MM	10	YAMAYO



Quality Management



Quality

ISO and CMM



Quality Assurance

Metrics, Corrective, Preventive



Quality Planning

Cost Benefit, Benchmarking,
Cost of Quality Quality Management Plan



Quality Control

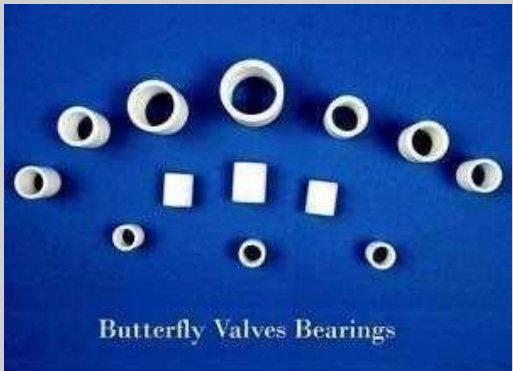
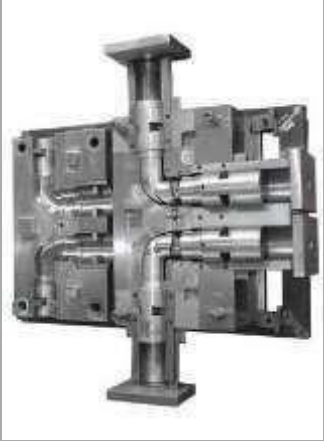
Audit, Analyst, Checklist

Product Catalogue

Products

InjectionMoldingdie& Plasticsproducts

Injection Molding Dies And Their Plastic Products



*Actual Photograph

Products

Metals

Imperial Nuts



Spare components of Fluid Control Systems

SOLID FORGED BALL



Actuator Body [Pnumatics] Full Finish



BALL VALVE STEM

Products

Machining of Casting , Extrusion, Bars



EXTRUSION MACHINIG



EXTRUSION



Machining
Components

Spares for Valves



Casting and Forging Products Catalogue



Export With Casting Parts Of SS304



Our Manufactured Parts are used in



Butterfly valve



Electric motor



Coffee Roaster Machine



Electrical Actuator



Diamond Setting Machine



EV Spare Components



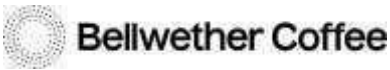
High Pressure Ball Valve



Plastics Components used in Automobile

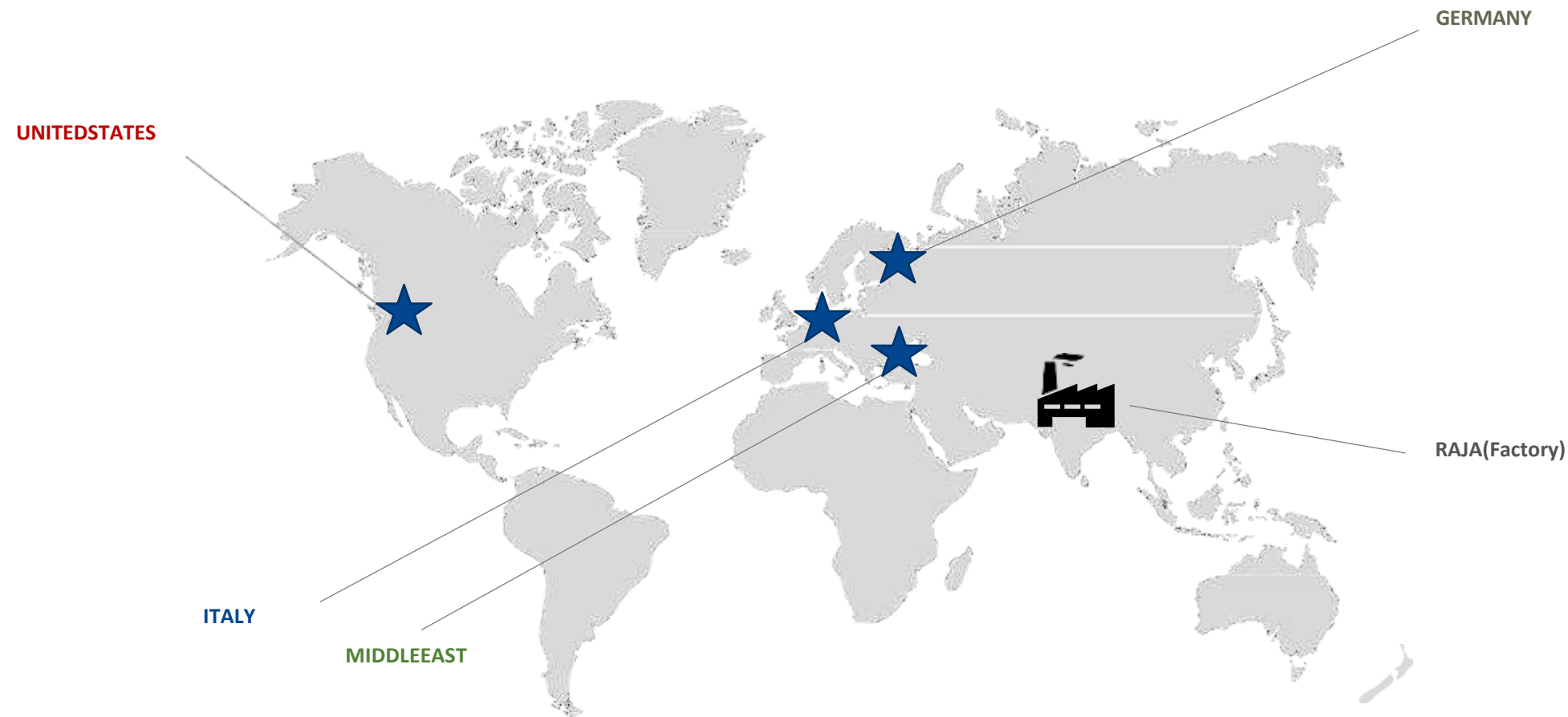
Our valuable Customers

Some of our Prominent Customer



Global

We Export to Following Countries and Expanding over the Global



Certification

Our Certification is various aspects of quality management



ISO 9001-2015 Certified by TUV AUSTRIA



Contact

If you are curious to learn more about what we can offer your next project, get in touch — we are happy to answer any questions about your creative requirements.



PUNE INDIA



ADDRESS

Plot No. 414, Gat No. 53, S. No. 17, Pawar Estate, Talawade—Nigdi Road, Talawadegaon, 411062 Pune, MH, India



CONTACT INFO

RPE Sales
(+91) 020 276901216
(+91) 99 22 427377
rajaplastics2@gmail.com
Sales@rajaplasticsandengg.com



SOCIAL MEDIA

FB @Rajaplastics
TW @
Rajaplastics
IN @ Rajaplasticsanengg



THANK-YOU

RAJA PLASTICS & ENGG. CO.

