



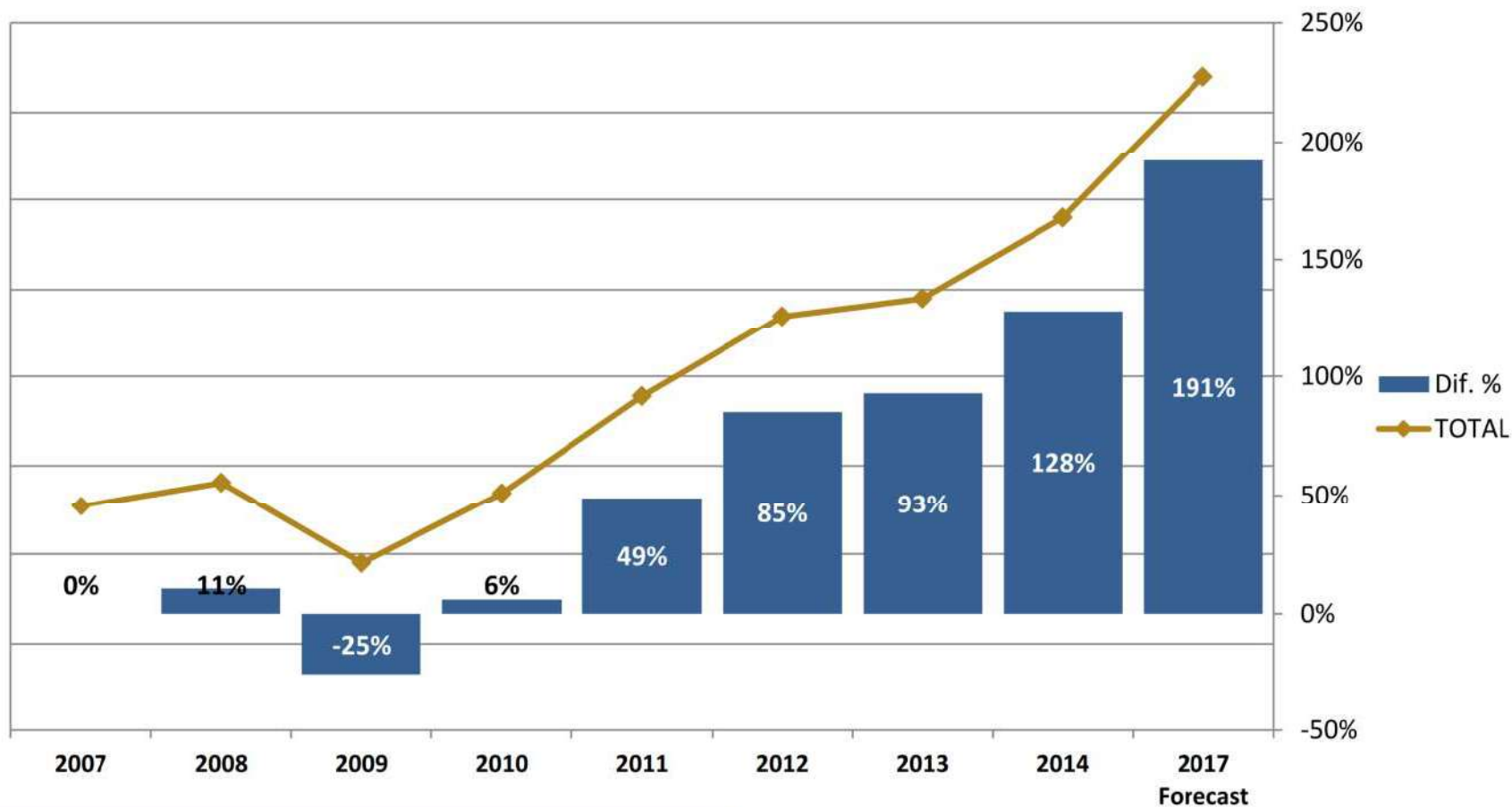
 ***ekin***
thinking together

- **Company profile**.....▶
- **Ekin India**.....▶
- **Our products (tools & machines)**.....▶
- **Manufacturing facilities**.....▶
- **Quality checking**.....▶
- **Our customers**.....▶
- **Future plans?**.....▶
- **Why Ekin?**.....▶

- Date of establishment: **1963**
- Type of company: **Cooperative**
- Products: **Tools and Machines**
 - Broaching
 - Cold forming
- Total staff: **370 people**
- Business: **Heat Treatment
Tools manufacturing
Machines manufacturing
Resharpener & refurbishing**

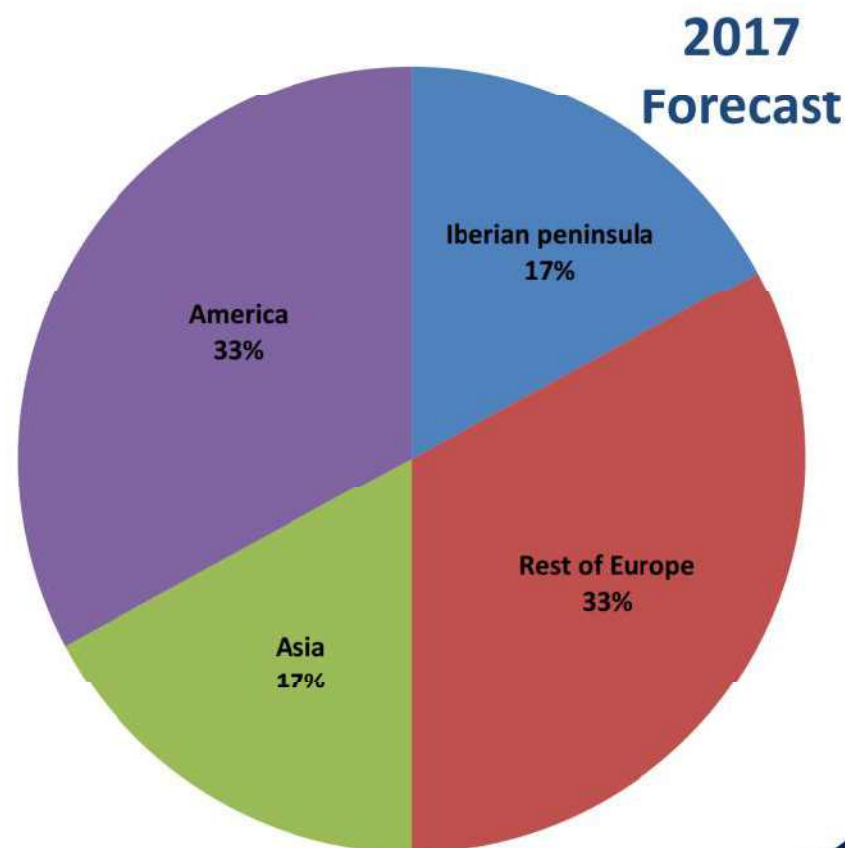
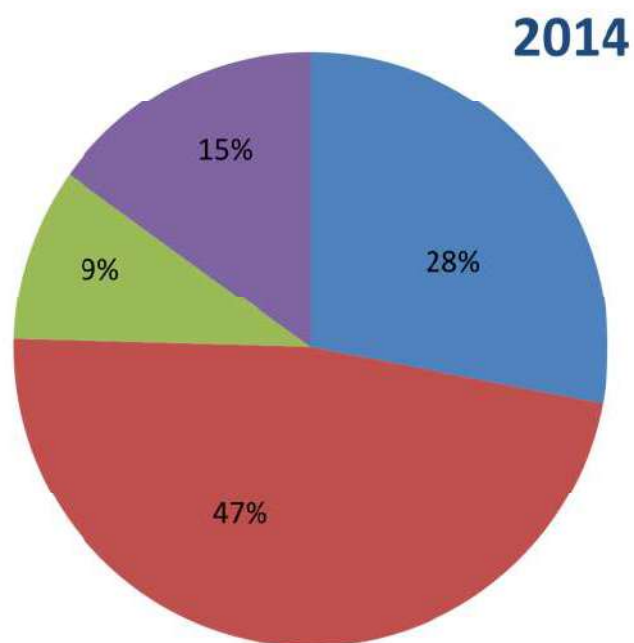
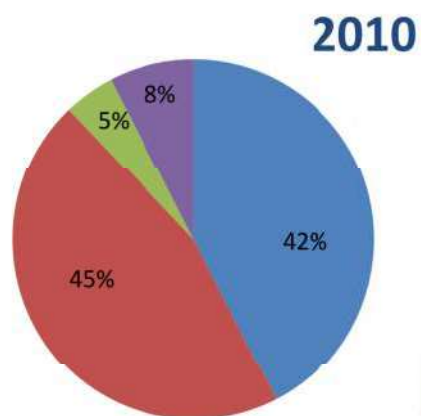


Yearly turnover



Steady growth and a promising future

Tooling market 2010-2017



Moving towards a more globalized market



Manufacturing plants

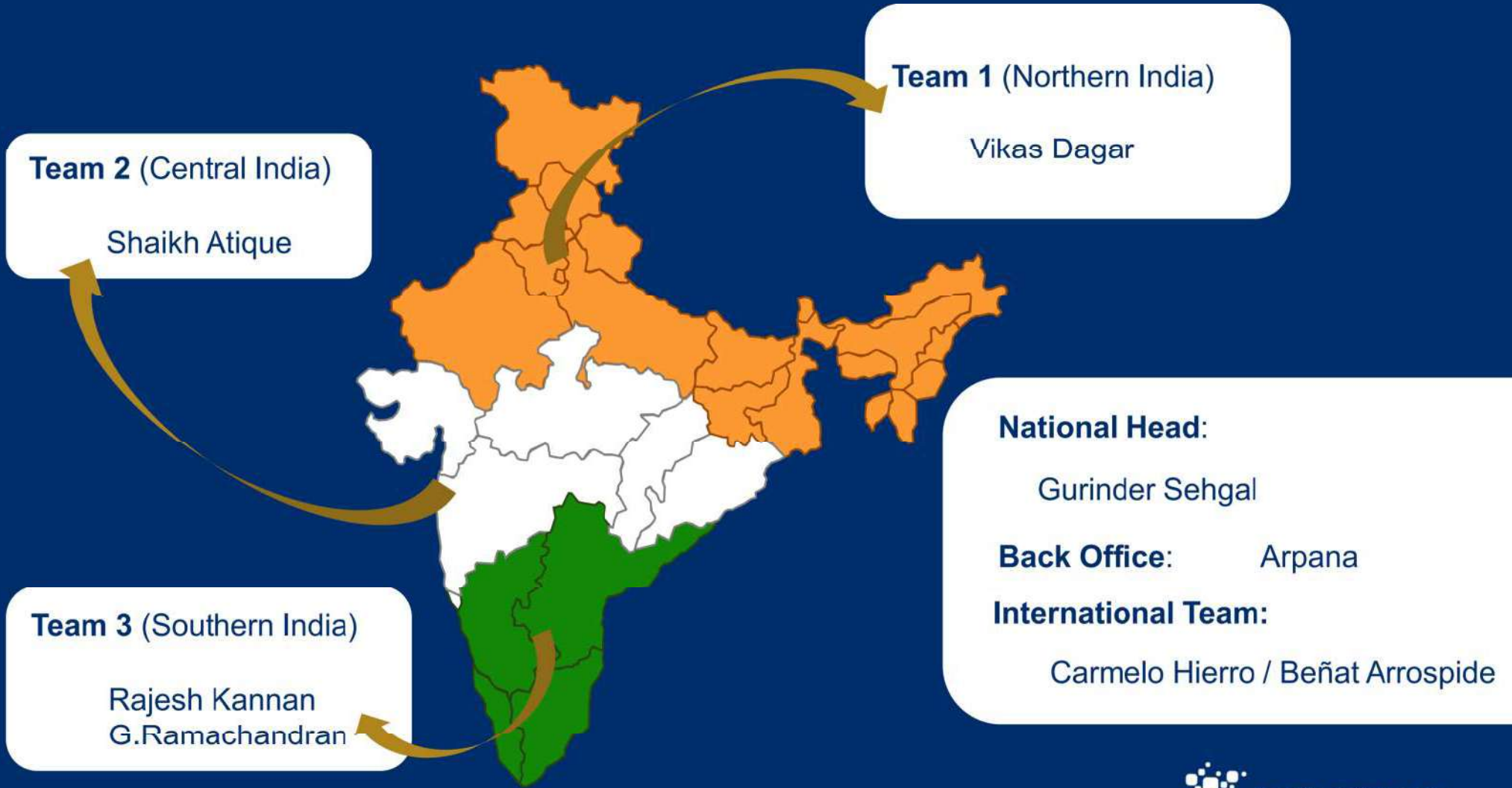


- Date of establishment: **Apr. 2012**
- Type of company: **PVT. LTD**
- Products: **Broaching tools**
Cylindrical
Keyway
Gauges
- Total staff: **73 people**
- Business: **Tools manufacturing**
After Sales Services





Sales teams



Ekin India range of products

- **Round broaches**
 - Dia. 10mm to 160 mm
 - Length up to 2000 mm
- **Flat broaches**
 - Length up to 600 mm
- **Rolling racks**
 - Spline and thread rolling
- **Gauges and mandrel**
 - Diameter check, OPD check, Mandrel



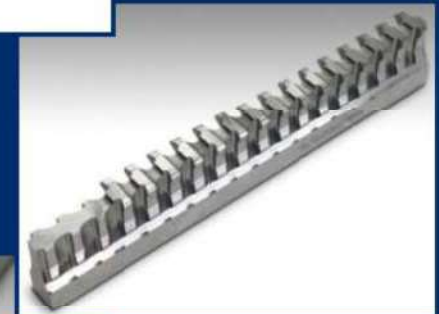


Ekin India range of products

- **Round broaches**
 - Dia. 10mm to 160 mm
 - Length up to 2000 mm
- **Flat broaches**
 - Length up to 600 mm
- **Rolling racks**
 - Spline and thread rolling
- **Gauges and mandrel**
 - Diameter check, OPD check, Mandrel



- **Round broaches**
 - Straight splines▶
 - Helical splines (*import basis*)...▶
- **Flat broaches** (*import basis*)▶
- **Rolling racks**
 - Splines.....▶
 - Threads.....▶





Straight splines

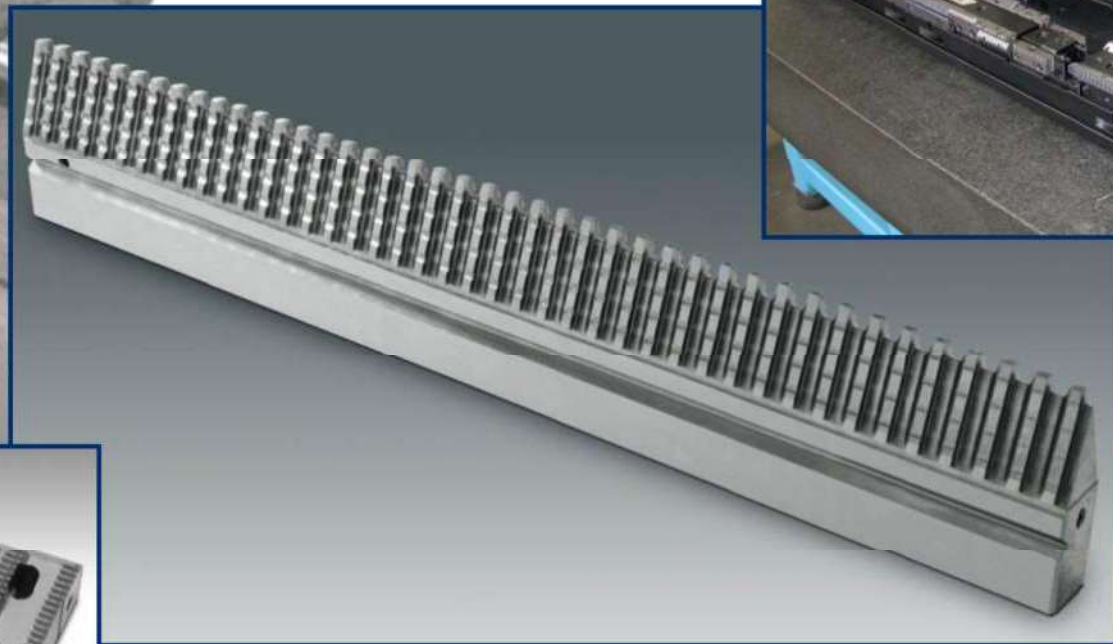




Helical splines (import basis)



Flat broaches (import basis)



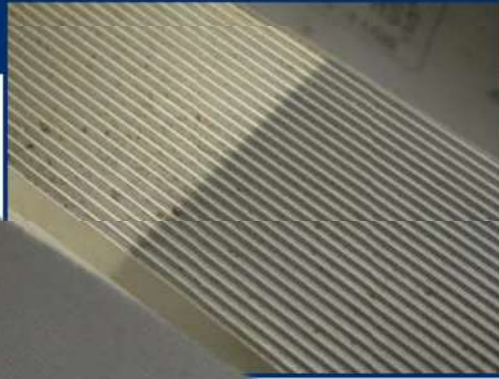


Spline rolling racks





Thread rolling racks



Machines (import basis)

- **Broaching machines**

- Internal broaching▶
- Surface broaching.....▶
- Blind broaching.....▶
- Pot broaching▶

- **Spline rolling machines**

- Vertical machines▶
- Horizontal machines▶

- **Sharpening machines**▶



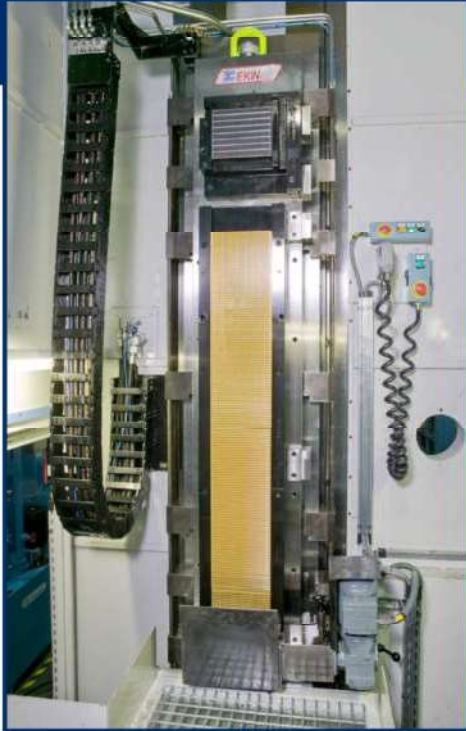


Internal broaching machines





Surface broaching machines



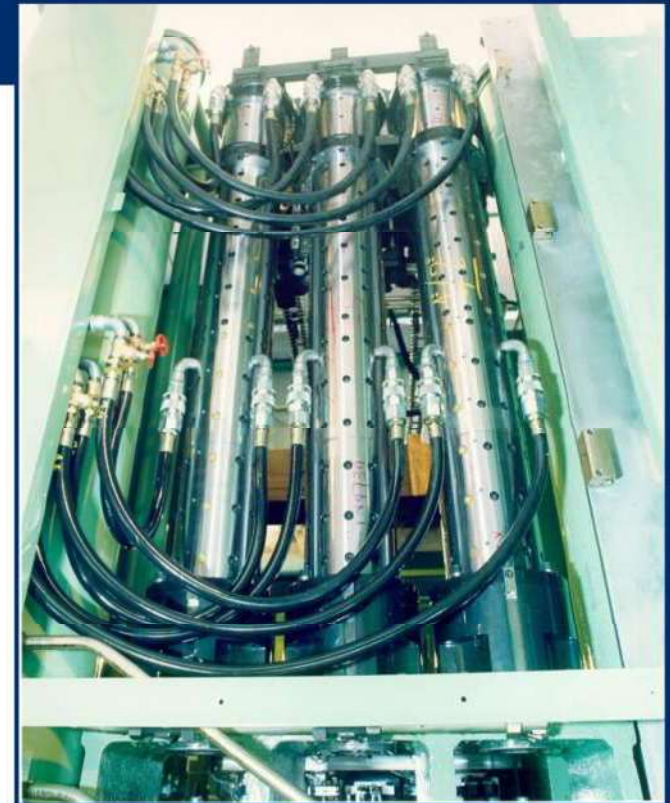


Blind broaching machine





Pot broaching machine





Vertical rolling machines





Horizontal rolling machines





Sharpening machines



- **Heat treatment**.....

- **CNC/NC Machines:**
 - Turning.....
 - Splining.....
 - Deeping.....
 - Surface grinding.....
 - Surface splining.....
 - Sharpening.....

- **Other machines**
 - Cylindrical grinding.....
 - Chip breakers.....
 - Straightening.....
 - Centering & Saw.....
 - Broaching.....
 - Sand blasting.....





- 3 NC Spline grinding machines
- 3 CNC Spline grinding machine
- Machine capacity = 2000mm

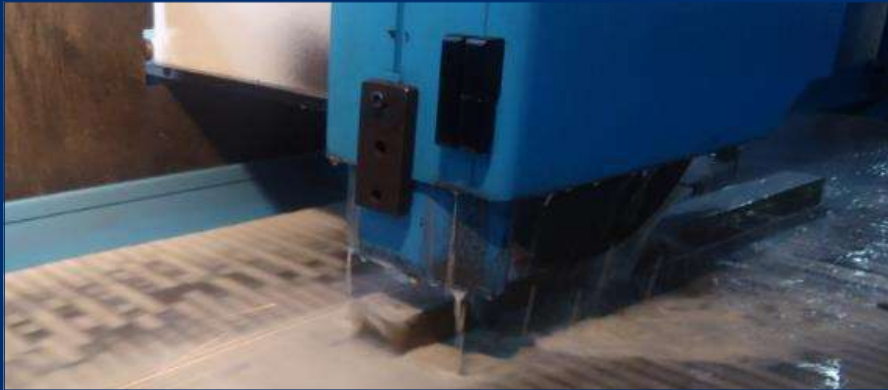




- 1 CNC Deeping machine



Surface grinding



- 3 machines (1 CNC)





- 1 CNC machine



Sharpening



- 3 sharpening machines
- 1 CNC sharpening machine



Cylindrical grinding



- 7 cylindrical grinding machines (2000mm capacity)



Straightening



- 2 machines (2 & 3 meters capacity)





- 2 broaching machines for test performing



- Profile inspection.....
- Profile scanning.....
- Longitudinal / diametral parameters.....
- Run out.....
- Rake angle inspection.....
- Radius measurements.....
- Material properties.....



Profile inspection

- 2 profile projectors

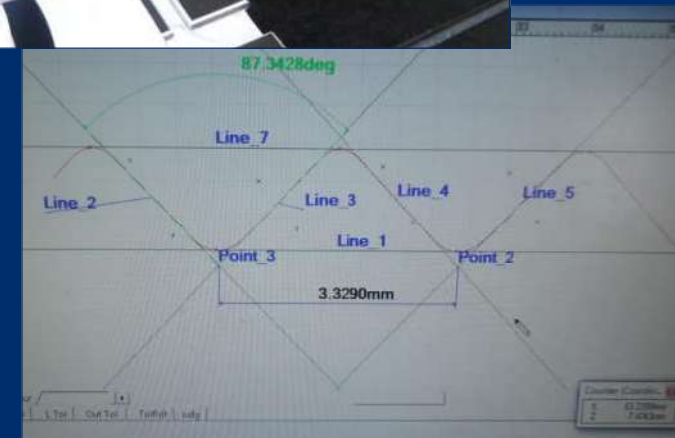


- Profile/span error check



Profile scanning

- 1 Mitutoyo profile meter



Longit. / diametral parameters

- Longitudinal parameters are checked with vernier or digital micrometer

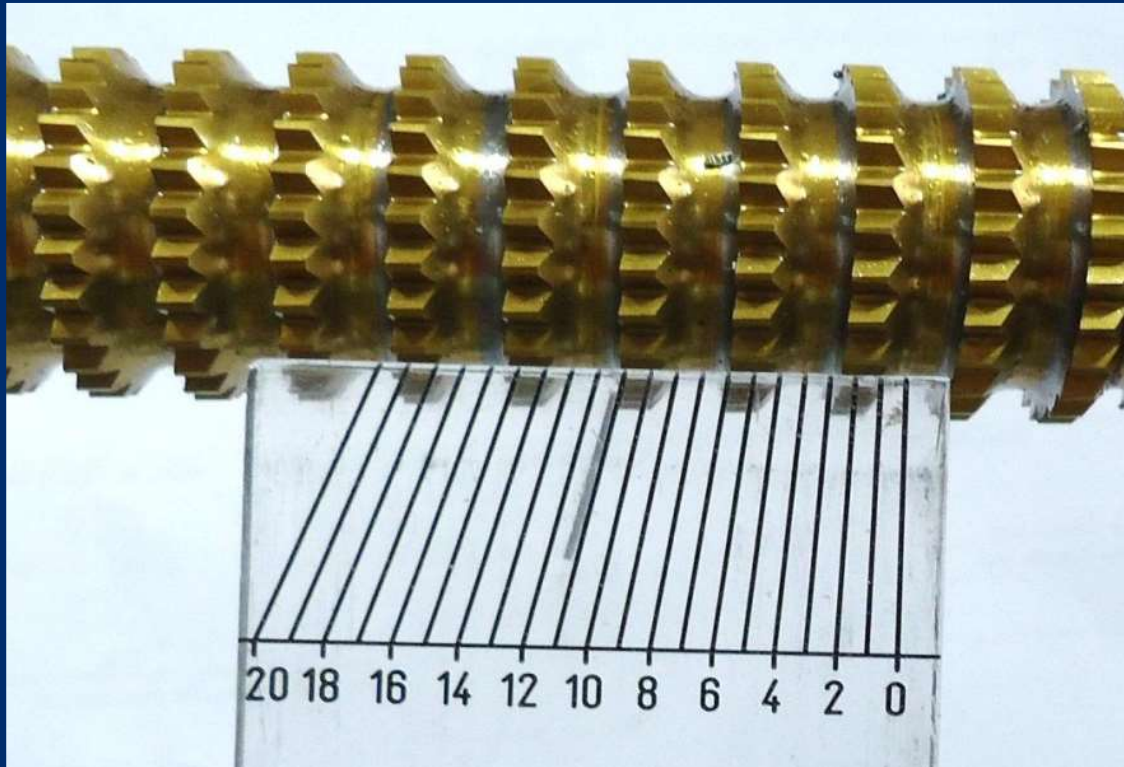


- Diameters and over pin dimensions are checked with digital micrometer (0.001/0.005 and 0.006/0.01 accuracies)



- Broach run out is kept within 0.005 and 0.01mm





- Angle measured with a magnetic pin and a transparent angle marked plate

Radius measurement



- **Measurement by radius gauges means**

- Heat treated material supplied by Böhler & Erasteel:
M2, M35, ASP2023, ASP2030...



- Broach hardness up to 62-66 HRC measured with microdurometer





Our customers worldwide

Automotive: OEMs



Automotive: supplier industry



Others: energy, agricultural, industrial...





Customers in India





New Plant

New manufacturing unit from January 2016 ready to keep on growing with our customers.



- **Customer oriented** vision (price, delivery & quality)
- 50+ years experience (supplying to **all major OEMs**)
- **Top worldwide tool supplier** (7 manufacturing plants)
- Wide range of products (**broaches and rolling racks**)
- Added value (**Full form broaches**)
- Quality broach **heat treatment** (top quality tools)
- **Encouraging future** (new unit, new products...)



Thanks for your attention!

Any coments?

