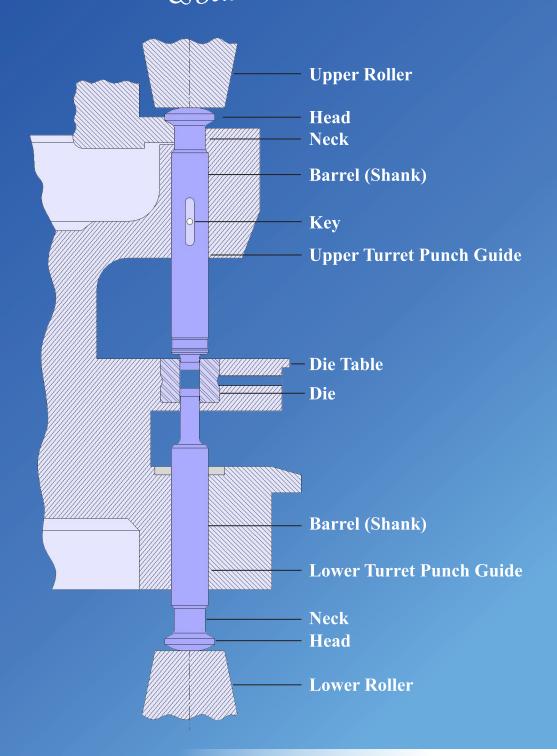




Creating ever Lasting Impression in Tablet Tooling's «L Science behind Tablet



AN ISO 9001:2008 COMPANY

"A leader in Tablet Tooling's with assurance of quality and prompt service."

The engineering industry is rapidly progressing with advanced technologies being unleashed daily. This ever changing scenario provides opportunities which go unnoticed. Mr. Sandeep,an experienced professional in the precision tooling industry and founder of **Kaizen** realized that there were potential, niche markets across the world, which could be added to Kaizen's client portfolio. The Kaizen team embraced this opportunity and emerged as a leading manufacturer of **Tablet Dies & Punches.**





Kaizen specializes in Tablet dies and punches for a range of industries such as Pharmaceuticals, Ayurvedic, (Nutraceutical), Veterinary, Cosmetics and Confectionery. Its product portfolio encompasses both individual & specific market requirements enabling it to cater to a wider range of tablet manufacturers. Kaizen's priority is to create ever-lasting impressions by adopting world-class facilities to maintain international standards. The Kaizen team believes in continual improvement and has invested more than a couple of successful decades of Research & Development to establish itself as a pre-eminent supplier of **Tablet Tooling** for tablet manufacturers across the globe.

With the effective use of latest technological advancements, Kaizen brings to its customers innovative and cost effective solutions for tablet tooling. Our commitment to the development of innovative materials and products, combined with state of the art technology and unmatched customer service has seen our solutions being successfully adopted by customers worldwide.

We are focused with a very well defined set of principles applicable across all levels of the company. As a result, Kaizen is rapidly gaining its reputation globally for its complete range of Tablet tools. We have the required expertise for making tablet tools for machines from all brands, such as Colton, Courtoy, Daniel, Erweka, Fette, Hata, Hansect, Horn, JCMC, Kikusi, Killian, Korsch, Manesty, Narong, Ronchi, Stroke, Sejong, Nilmide, Stc, Cadmach, Clit, Cip, Cemach, ZP, etc.





Some of the products like Cetrazine, Metformin, Cipro-floxacin, hormones, Ferrous Homeopathic & Nutraceutical present problems during the tablet production process thereby resulting in poor quality of tablets. These are ongoing issues faced by the tablet production staff and they struggle to keep the management pacified for not meeting the supply or adding new products in the list. Kaizen has adopted an approach where we have partnered with the production staff of companies which are facing such issues and have resolved their production difficulties to yield better tablets. This is possible, as we understand the difficulties faced globally by tablet manufacturers today.

In an endeavor to continually align ourselves to the dynamic changes in the market, we upgrade our processes to bring unique tooling, which helps increase the product ratio as well as the life span of tooling. Our years of experience have resulted in choosing a unique grade range of steels for products. To further enhance the performance of tooling, we have developed a range of treatments and coatings.





Close liaison with our customers allows us to advise them on tooling treatments ideally suited to solve a wide range of common but highly complex tooling problems like sticking, corrosion, excessive wear, granule impregnation etc. Selecting the right steel for each application is the absolute key to the successful performance of your tablet compression tooling.

Benefits Include:

- Toughness
- Abrasive wear resistance
- · Adhesive wear resistance
- High hardness levels
- · Compressive strength
- · Corrosion resistance
- · Clean structure
- · Good machine-ability and formability

Round Shape: To produce round shape tablets which available with different sizes and concavity are as follows.

- BI Concave
- Shallow Concave
- Standard Concave
- Deep Concave
- Extra Deep Concave
- Beveled Concave
- Ball Shape
- · Flat Faced Beveled Edge





- Bl Concave
- · Shallow Concave
- Standard Concave
- Deep Concave
- Extra Deep Concave
- Beveled Concave
- Flat Faced Beveled Edge



Geometric Shape: To produce Geometric Shape like. Triangular, Hexagonal, Pentagonal, Octagonal are available with different sizes and concavity are as follows.

- BI Concave
- Shallow Concave
- Standard Concave
- Deep Concave
- Extra Deep Concave
- Beveled Concave
- Flat Faced Beveled Edge





Special Shape: It's Design to attract children's like. Mango, Apple, Elephant, Dumbbell, Heart, Flower, Teddy Bare, Lion different sizes and concavity are as follows.

- BI Concave
- Shallow Concave
- Standard Concave
- Deep Concave
- Extra Deep Concave
- Beveled Concave
- Flat Faced Beveled Edge

Core Rod Shape: Core rod tooling's punch die sets produce tablets having hole in center These Punches are applicable in confectionery and ceramic industries. These punch die sets are available with different sizes & concavity.

- Standard Concave
- Deep Concave
- Flat Faced Beveled Edge



Multi-Tip Tooling: Kaizen believes increasing productivity within modern tablet manufacture is an ongoing challenge. And we at **Kaizen** are always striving to assist our partners in their quest for increased capacity; therefore we have developed our range of Multiple Tip tooling.

Kaizen has been leading the way in the production of Multi-tip tools for over 15 years; this experience has culminated in today's impressive array of configuration options to suit many products.



Increase in productivity - Number of tablets per turret

No large capital outlay on new tablet presses mean that higher tooling costs are easily outweighed by

Reduction in press run-time per output of tablets means that less maintenance is required per batch of

Reduction in press setup-time per output of tablets. Less tablet presses required to satisfy output therefore requiring less floor space leading to more

rotation is multiplied by the number of tips.

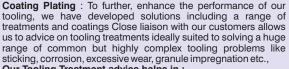


Interchangeability: With Kaizen tooling, interchangeability comes as standard. Our machining techniques are configured such that the position of the keyway relative to the punch tips is extremely accurate, resulting in reduced tooling set-up and re-tooling times, as well as allowing for random loading of upper punches and spares.

Benefits include:

- Improved set-up time, up to 50%
- Increased tablet press 'up time'
- Rapid re-tooling after cleaning
- Less damage to tooling and the die table
- Alignment tool for each product / machine





Our Tooling Treatment advice helps in : Improved surface hardness.

Improved wear resistance.

Benefits include:

increased output.

tablets produced.

product produced per Sq Meter.

- Improved corrosion resistance.
- Improved anti-stick properties.
- Extended tooling life, from increased durability.
- Increased productivity, from reduced downtime.

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- Enhanced tablet quality, due to improved wear resistance of the tool surface.
- Smoother operation of the tooling in the press.



Universal Seal Groove / Bellows & Drip Cups:

Granule contamination during the tabletting process can cause costly manufacturing problems. 'Black Spots' on tablets resulting in high numbers of rejected tablets, increased wear of punch guides and tightening of upper punches can result in excessive machine down time and high maintenance costs.

Sealed grove punch die sets are designed to prevent guide way and tablet contamination during the tablet compression process, a vast improvement over traditional dust caps used in the pharmaceutical, confectionery, and allied industries.



Our product support group is available globally for potential and existing clients alike, who seek advice, assistance, and education in finding the right solution to their tooling issues. The role of our Quality Assurance division is to develop and maintain the company's quality procedure and systems through a combination of sampling, testing, monitoring, and the dispatch of only tested and approved products. Quality is controlled according to stringent international standards at every stage of the manufacturing process, thus ensuring that specifications and expectations are met at all times. Authorized standards and operating procedures are followed for material management, production, storage, and safety. We have integrated inspection at several intermediate stages of our production procedure to ensure optimum productivity with zero defects. Every product is inspected for its conformance to customer specification and the relevant standard.





Our CAD/CAM professionals enhance existing designs and develop entirely new designs and concepts as per requirements.

The most critical stage is making the Master Hob for the tablet as per its size and shape. This process requires expertise with advanced technology. For this purpose, we use highly upgraded software for making an accurate master Design for the tablet. This software is integrated with the CNC engraving set-up to generate a supreme surface with fine engraving.

Strong tooling designs using stress analysis (FEA) to complement and enhance tablet design.
Interchangeable tooling as standard
Tooling designs for all tablet presses
Extensive tool and tablet drawing libraries
Enhancing customer perception of your brand
Improving productivity through robust tablet design
Production of sample tablets to aid visualization

Our plant is fully equipped with "state-of-art technology". All processes from design to development are carried out using modern technology under one roof. We adopt industrial developments by upgrading our infrastructure. Changes are made in technology and processes to meet the constantly changing requirements of our clients. Our sophisticated manufacturing ability is a result of extremely developed & skilled technicians in our work force.

Our Workshop is equipped with

- CNC Lathe Machine,
- CNC Milling Machine,
- CNC Wire Cut,
- Laser Marking Machines,
- · Punch Polishing Machine,
- · Reverse Engineering Machine.
- · Hardness Conformation Machine
- Internal Grinding Machine
- Honing Machine
- Hydraulic Press
- Punch Inspection machine





At Kaizen, we are committed to delivering products with consistent quality and meet stringent delivery schedules laid down by customers. Our mission is to produce, maintain and develop a powerful platform with total qualitative approach, where the combination of order and delivery can happen in a methodical way, thanks to our ability to incorporate people, products and practices. We aim to expand our horizon by developing new territories in the global world in addition to the existing. We believe in expertise at every level, our team is a judicious mix of trained professionals and experienced veterans, led by a thought leader and entrepreneur. Excellence in products, processes and systems is achieved through team effort. We have gained the trust and confidence of our customers with our prompt plus assured services.

Customer satisfaction is the topmost priority. We have a history of meeting the most critical delivery schedule with the help of our CAD/CAM facility, which enables quick and accurate drawings, thus reducing the time taken for the review and approval process. Our perfection and unwavering devotion towards details has led us to new heights throughout the history of our organization. We have showcased very effectively, the implementation of lean production techniques. Today, we have emerged as a frontrunner of all types of tablet tool's products and services which cater to the pharmaceutical industry. We believe that delivery of goods is not the final activity.





We aim to achieve total trust and delight of our customers by providing unparalleled service with zero defects.

Our customers get complete back-up support and confidence of the company's Quality Assurance and a long-term commitment to development. All our processes and quality assessment procedures are externally assessed and evaluated; we are immensely proud of our accreditation, and see it as an external verification of our commitment to Excellence in all areas of our business including design, innovation, manufacture, support and service.

Quality is the collective and individual responsibility of each member in our organization.

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At Kaizen , we ensure:

- Delivery of superior quality products
- Implementation of continual product improvement initiatives
- Delighted customers as a result of our products & after sales Service

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