



**WE TRANSLATE TECHNOLOGY  
INTO PROFITABILITY**



**Vibratory systems  
and equipment**

**Feeding of positioned parts, by continuous flow,  
for the automation of production processes**

# TAD TECHNOLOGY

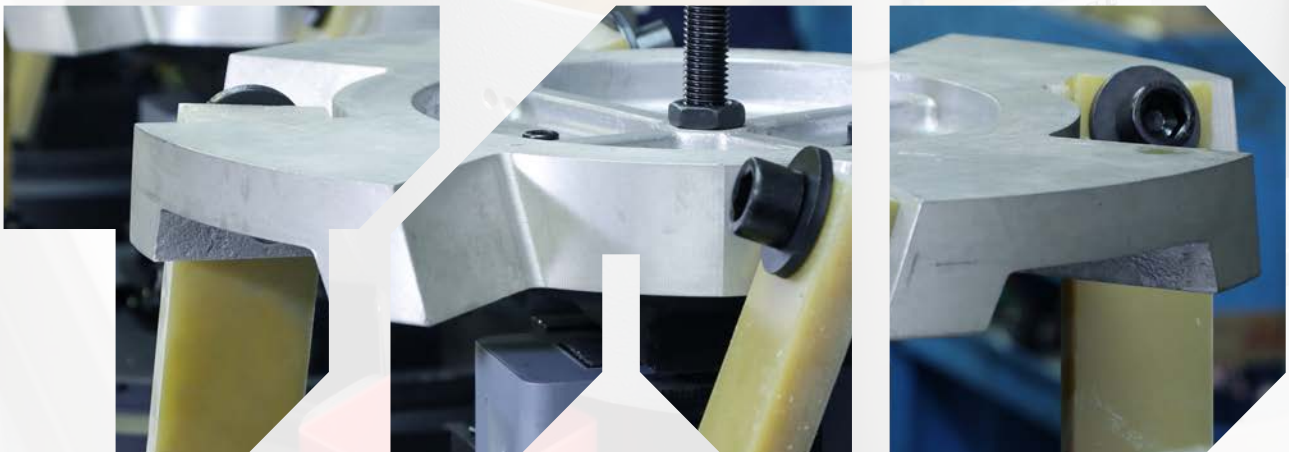
**TAD** is born as specialist in the design and manufacture of vibratory feeding equipment and systems.

From its beginnings, **TAD** has followed a line of supported growth, persevering in the constant development and update of its own technology as expert manufacturers of equipment for automatic feeding and parts positioning.

## QUALITY AND EFFICIENCY

The core of **TAD** continues being the production with a high performance, independently from its complexity and a flawless after-sales service at global scale.

Therefore, we focus on providing the maximum quality and the highest performance in the systems and industrial bowl feeders, in order to meet all the technical expectations of our partners.



## PROFITABILITY

We strongly believe that the most profitable investment is the one that translates into a better return.

One of our main goals in our manufacturing process is the competitiveness through the balance between the quality, the product performance and the purchase price.

## AT THE FOREFRONT OF THE VIBRATORY FEEDING SYSTEMS

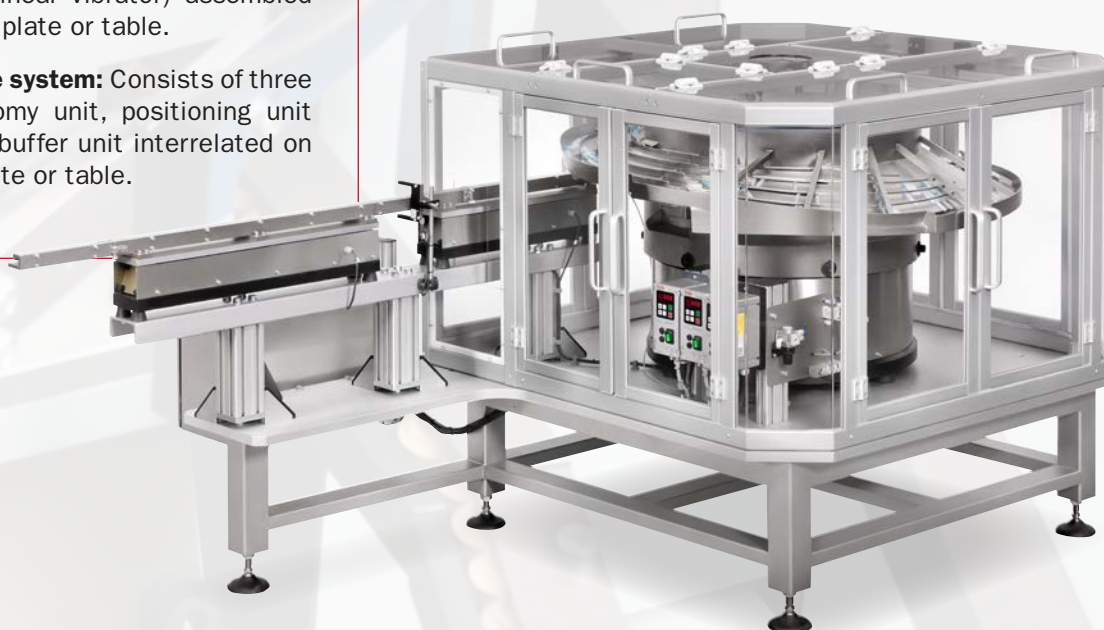
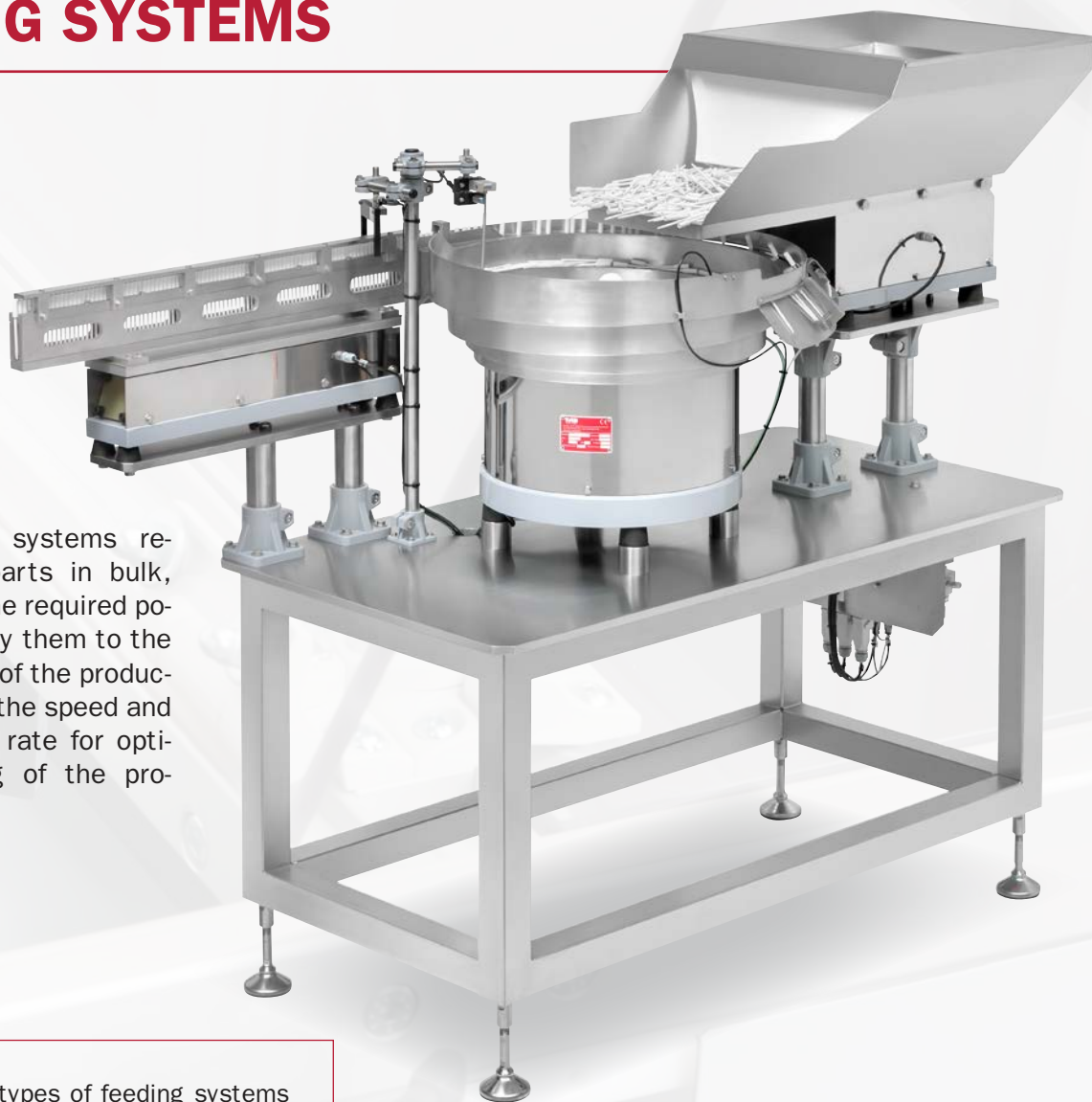
Our production volume, the quality and efficiency of the equipment, as well as our clients' expectations, positions us as one of the leading manufacturers of vibratory feeding systems in Europe. Our current productive capacity is above the average of the companies within this sector and we have a highly qualified workforce made up by 60 experienced professionals.

# FEEDING SYSTEMS

The feeding systems receive the parts in bulk, place them in the required position and supply them to the following stage of the production process at the speed and necessary flow rate for optimal functioning of the process.

There are two types of feeding systems to be defined:

- 1. The basic system:** Consists of a positioning unit (bowl feeder) and transfer buffer unit (linear vibrator) assembled on a support plate or table.
- 2. The complete system:** Consists of three units: autonomy unit, positioning unit and transfer buffer unit interrelated on a support plate or table.





# POSITIONING UNITS

## VIBRATORY BOWL FEEDERS



The bowl feeder function is to position in a default mode the parts received in bulk, forwarding them, once oriented, until their evacuation.

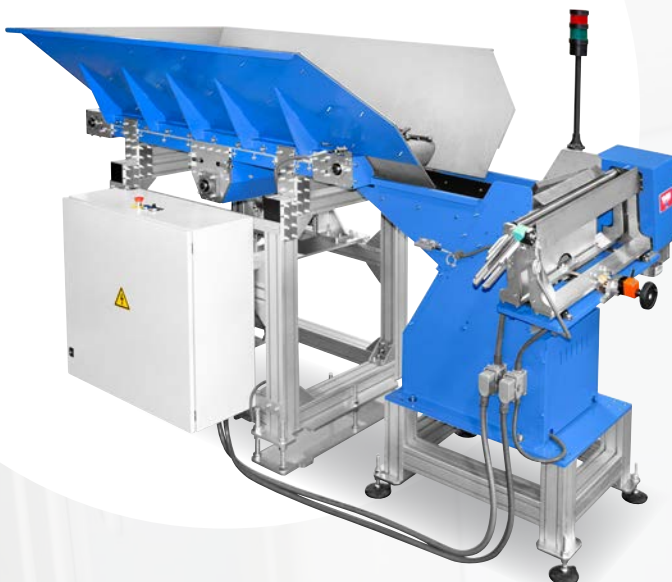
## MECHANICAL AND CENTRIFUGAL FEEDERS

Mechanical centrifugal feeders have the same function as vibratory bowl feeders. The use of a centrifugal mechanical feeder is ideal for simple parts and where the primary purpose is to achieve a high feeding rate.

## STEP FEEDERS

They are a necessary complement to traditional electromagnetic feeding.

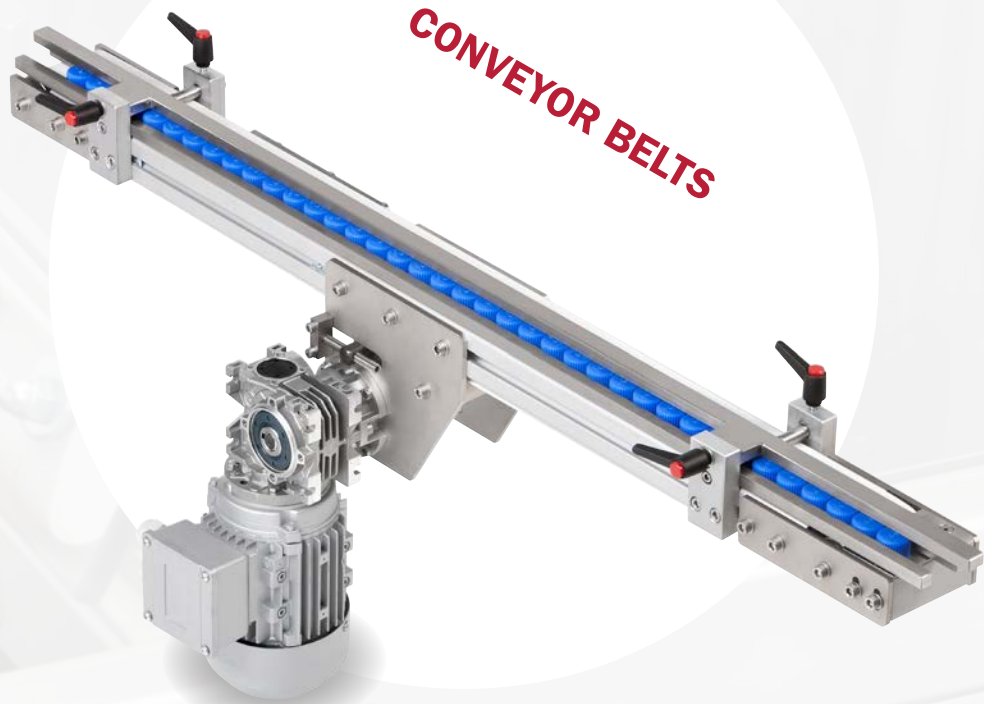
They are especially suited to feed: pipes, rods, bushings, shafts, ball joints, pins, nuts and bolts, among others.



# TRANSFER BUFFER UNITS

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At **TAD** we recommend to use transport belts, as an alternative to vibratory linear feeder with guide for the “transfer buffer” function, when the characteristics of the parts, the necessary speed or the sound level so require them.



## LINEAR VIBRATORS

The linear vibrators are positioned after the vibratory bowl feeders and their incorporation is necessary or advisable in most applications.



They are the linking element between the selection unit and the receiving station or process line.



# AUTONOMY UNITS

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## VIBRATORY HOPPERS



The vibratory hopper is located above the vibratory bowl feeder and its incorporation is advisable in many applications, because it is the autonomy element that allows **storing** the parts in bulk and doses them to the vibratory bowl feeder, ensuring the presence of parts in the bowl.

## ELEVATORS

The hopper-elevators with belt or metal slat band chain receive the parts in bulk and channel them to the selection unit (bowl feeder) which is supplied through discrete direct unloading thanks to a level control fitted in the bowl.



# ONE SECTOR, ONE SOLUTION

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Conscious of the market needs and in our bet for quality and innovation, our aim is to give response to all kinds of requirements and to cover the needs of diverse sectors of the industry.

Our feeding systems are among the first line of the European manufacturing. The selection, orientation & postioning of parts of our equipment, offer a high standard of quality & reliability.

At **TAD** we adapt ourselves to the industrial processes, creating solutions for each sector:

- **Food and Beverages**
- **Automotive**
- **Perfumery and Cosmetics**
- **Electrical**
- **Packaging**
- **Pharmaceutical**
- **Others**



Machining, assembly of sets, positioning of inserts in plastic injection, welding, packaging, trimming, printing & riveting.



# FOOD AND BEVERAGES

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In the food industry, the processes automation level is exceedingly high and requires reliability at high speeds, hygiene and quality.

**The TAD feeding systems intended to companies within the food and beverage sector comply with the requirements applicable to this sector, specially in so far as FDA/BGA regulations.**





# AUTOMOTIVE

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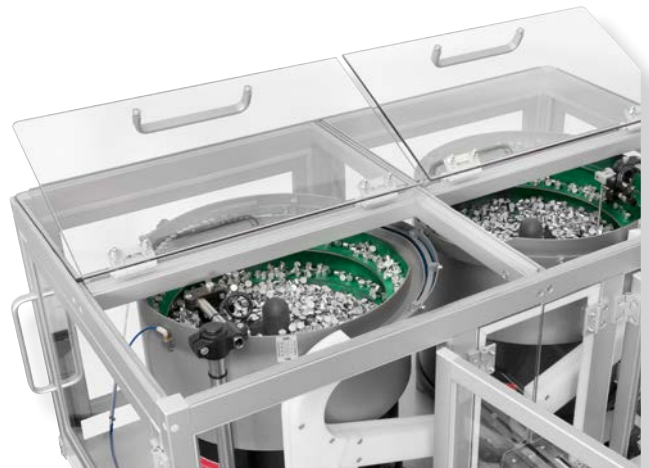
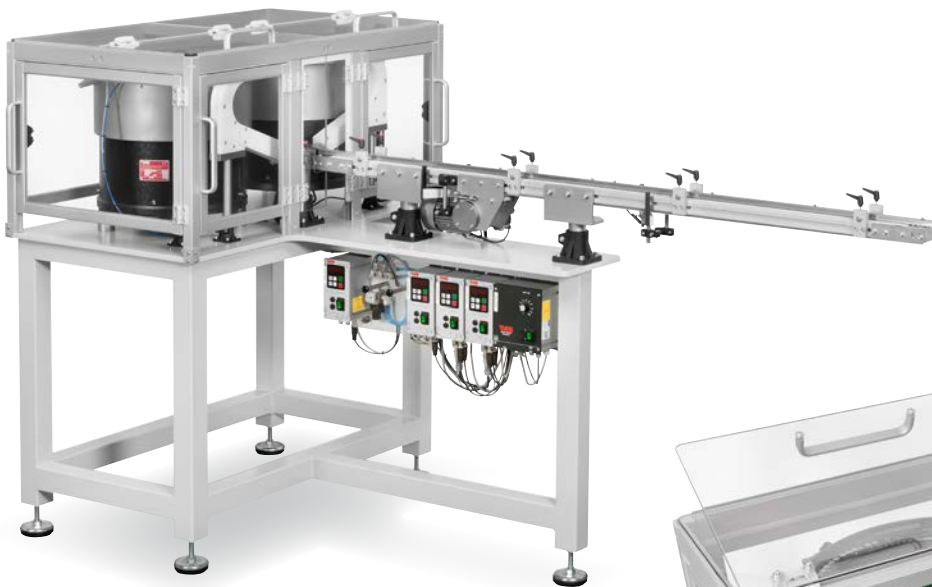
This sector is known for the complexity of the parts to feed, ranging from a rear-view mirror casing for cars to small parts such as a rivet or a nut. To increase their competitiveness, automotive companies demand quality, reliability, safety and high performance. **TAD** complies with these requirements.



# PERFUMERY AND COSMETICS

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At **TAD** we design and build equipment to feed delicate parts, fragile, which are easily damaged or scratched due to contact with metal surfaces, and complying with the requirements in so far as reliability at high frequency speeds, safety, quick format changes and quality.



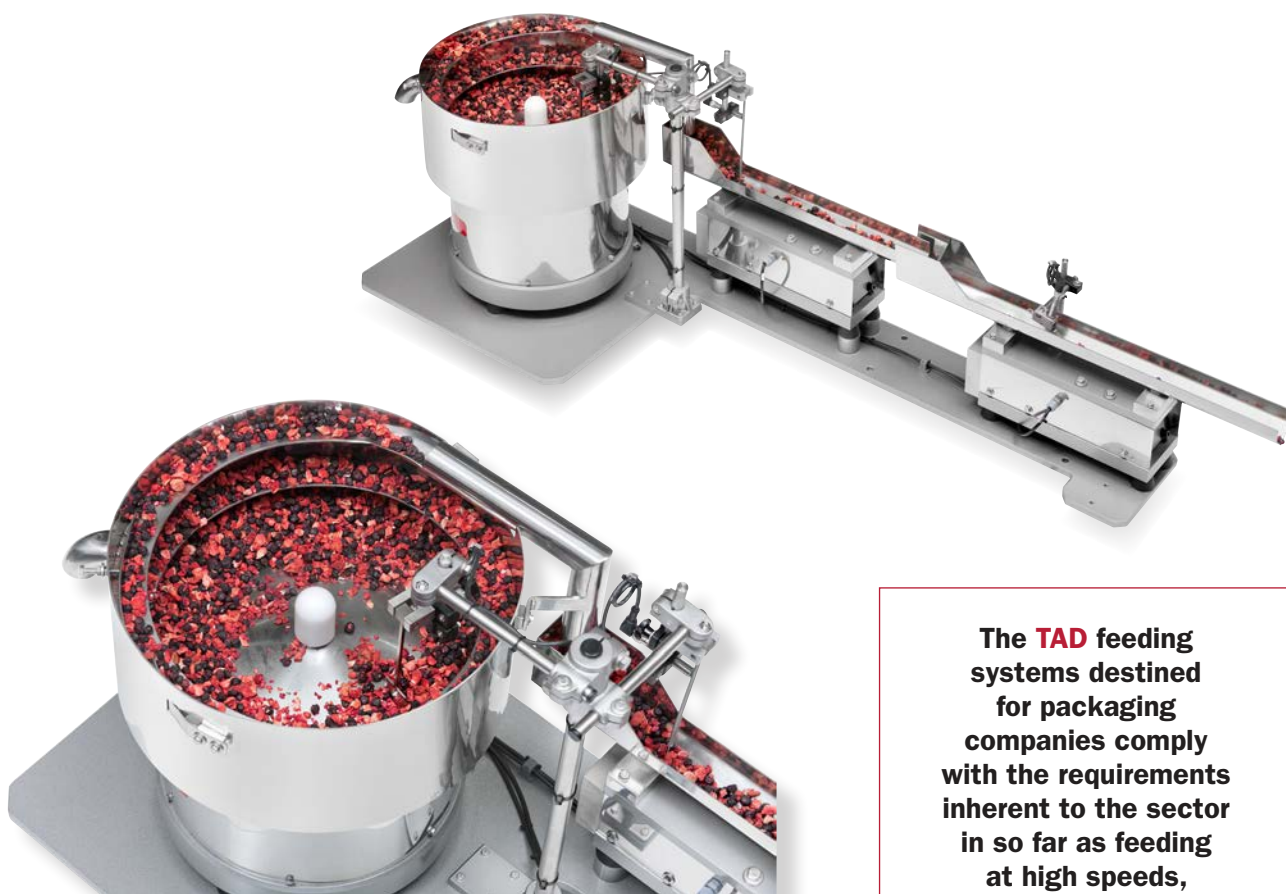
The electrical sector is known for the complexity of the parts to feed, especially due to their delicate aspect and their size, which can range from a three-piece framed switch to minute parts such as telephony microchips. A sector that requires reliability, precision, safety and quality.





# PACKAGING

**TAD** designs and manufactures feeding systems for the counting, verification and labelling of a wide range of products within the packaging sector, having, at present, a higher demand for new materials, diversity of formats and designs, more functional packaging.



The **TAD** feeding systems destined for packaging companies comply with the requirements inherent to the sector in so far as feeding at high speeds, reliability, safety and quality.

# PHARMACEUTICAL

Due to the fact that its activity directly affects human health, this industry is subject to a long list of laws and regulations. Our equipment is made of AISI 304 or 316L stainless steel, with mirror polished, electro-polished or projected polyurethane finishes, and we feed vials, syringes, needles, bottles, tablets, among others.



The **TAD** feeding systems intended to pharmaceutical companies comply with the requirements of the sector in terms of the FDA/BGA regulations, as well as with the requirements of reliability, accuracy, hygiene and quality.



**TAD**

# OTHERS

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Nowadays, all industry sectors require a certain degree of automation in their productive processes, in order to be competitive within an ever more global market.

All our feeding systems, manufactured using our own technology, are customised based on the specific needs of each client and sector.



**AGRICULTURE | LOCKSMITH | PLUMBING | TOYS | WATCHMAKING | MANUFACTURE**



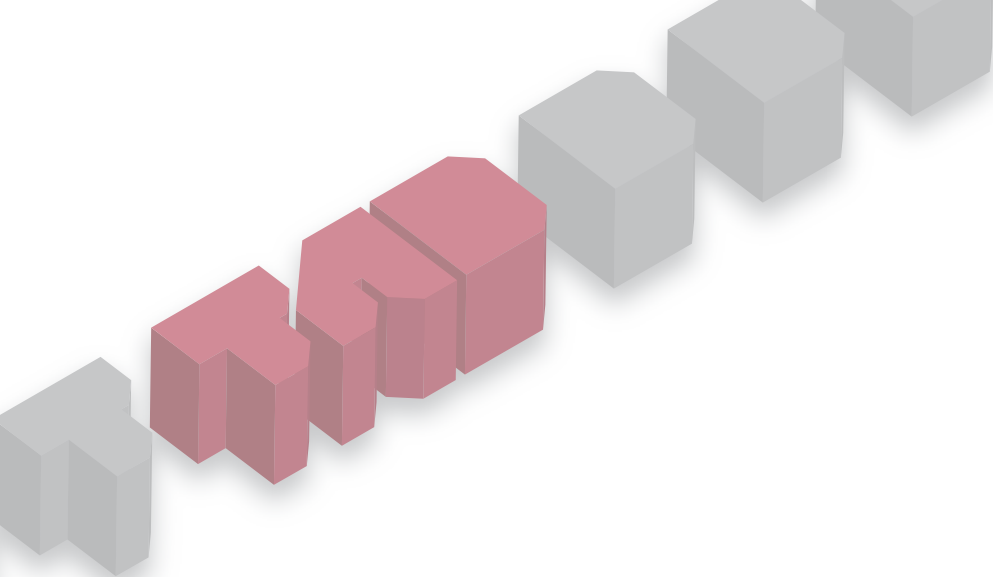
# INTERNATIONAL PRESENCE

Thanks to the **volume of production, quality and efficiency** of our equipment, as well as the satisfaction of **our clients**, we are positioned among the leading feeding systems manufacturers in Europe.

Our effort and illusion, joined to the strong determination for expanding our activity towards new markets, has allowed us to operate successfully in a frame of international action.

Nowadays, **TAD** has delegations in **France, Poland and United Kingdom**, and collaborations in **Portugal, Argentina and Brazil**.





ELASTIC PARTS • FRAGILE • NOISY • ABRASIVE • ADHERENT • IMPREGNATED • **PARTS IN ITS TOLERANCE LIMITS** • SELF-LUBRICATING • DIRTY • PACKABLE • INTERFERING • INTERFACEABLE • STAMPABLE • FITABLE W/O TIGHTENING • NON ACCUMULATING • ASEPTIC • **A FIXED ANSWER FOR FLEXIBLE LOADS** • CALIBRABLE • SLIPPERY • DUSTY • AGGRESSIVE • ELECTRIFIED • ELECTRIZABLE • MAGNETIZABLE • CRUMBEABLE • DEFORMED • HEAVY • LIGHT • INCOMPLETE SUBASSEMBLIES • **HIGH CADENCE RELIABILITY** • DISASSEMBLABLE SUBGROUP • ONE FLOW • SEVERAL FLOWS • ONE PART PER FLOW • **PARTS WITH COMPLEX GEOMETRY** • SEVERAL PARTS PER FLOW • DEFORMABLE AND SOFT • DEFORMABLE AND STREAMLINED • STRINGENT SURFACE FINISHES • WITH DELICATED EDGES OR CORNERS • PULVERIZABLE • IRREGULAR BY DEFAULT • IRREGULAR BY EXCESS • WITH STRANGE BODIES • SLIM • STAMPED • NON-CALIBRABLE



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