



Tiama
CUSTOMER
support

TOOLINGS

expertise



Data – the deciding factor



Tiama CUSTOMER support

THE TOOLING'S ACTIVITY ensures a full service linked to variable elements and bottle handling in the carousel machine.

TIAMA is a global provider of **process and quality control solutions** for glass containers.

From the very beginning, Customer support is a main priority. Besides providing machines, we want to support each of your investments and wish to build long-term partnerships. Tiama counts **more than 4,000 carousel machines installed** throughout the world.

You are facing **regularly changing production campaigns** and increasing articles' customization. Tiama supplies toolings for all types of container productions: cylindrical articles, non-round articles, pharmaceutical, jars...

We deliver parts necessary for **article conveying**, such as:

- Neck and body starwheels,
- Infeed screws,
- Outfeed guides,
- Blocking starwheel, ...

We also deliver **complete plug sets:**

- Internal caliber,
- External caliber,
- Extractor.



A dedicated team of experts with an advanced tooling know-how, designs the proper toolings answering your needs.

Our experts are not only working on variable equipment solutions, they also provide complete consultancy, advice and engineering services.

All the provided elements are **original TIAMA parts** that match perfectly your machines (regardless of the existing inspection features and their number):

- For a better article handling efficiency,
- For improved inspection performances thanks to precise settings,
- For an optimized machine safekeeping.

ROI benefits thanks to **adapted toolings sets:**

- You enjoy an improved quality warranty on bottles produced which leads naturally to less customer's claims and less associated costs.
- False rejections are minimized which leads to an improved production efficiency and a strong glassplant profitability.



ACTIVITY VOLUMES & ORGANIZATION:

- More than 2,000 starwheels per year.
- More than 200 specific infeed screws adapted to non-round articles.
- Worldwide shipments & deliveries to more than 55 countries, and 170 glassmakers.
- For standard equipment, our delivery time does not exceed 7 days (EXW) on request.
- Capability to deal with emergencies: production shortened to 48H for the required tooling part.



- Project follow-up with a detailed customer information sheet and tool part/glass article history.
- Choice of the most adapted materials for toolings (different thicknesses, parts' machining, materials' quality...) to offer optimized detection performances and avoid any impact on glass article.



*Our expertise at your service
for more than 40 years.*



Intelligence



Monitoring



Traceability



Inspection



Service



Sampling

Not just INFORMATION - ALLformation



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PHARMACEUTICAL & COSMETICS



1 SPECIFIC INFEEED SCREWS

for small articles adapted to high-speed production lines.

The clearance between the article and the screw is reduced to the minimum to ensure a maximal stability.



Infeed screw with a low clearance

Pharmaceutical infeed screws



2 SPECIFIC TOOLING SETS

adapted to pharmaceutical market:

- Available in 48 - 36 - 24 pockets.
- Starwheel:
 - With a thickness from 12 to 20mm,
 - Equipped with one or two rows of rollers (standard or specific adapted to article's shape) to ensure a maximum stability.



Specific starwheel



Standard black and white rollers

"PIT STOP" rollers



"PIT STOP" starwheel portion

PHARMACEUTICAL & COSMETICS

3 OUTFEED GUIDES:

- As a standard: with a thickness from 8 to 12mm,
- Also possible to provide thinner designs or more carved ones,
- Possibility to design a specific anti-jump guide,
- Adapted material and design to obtain the lowest possible friction coefficient.



Specific
and standard
outfeed guides

4 WE ALSO PROVIDE PLUG SETS.



Pharmaceutical plug set



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BEER, WINE, CHAMPAGNE & SOFT DRINKS



1 SINGLE OR DOUBLE INFEED SCREWS

adapted to high-speed or heavy weight production lines.

The clearance between the article and the screw is reduced to the minimum to ensure a maximal stability.



Infeed screw with a low clearance



CDR and NCI detection starwheel

2 SPECIFIC TOOLING SETS

adapted to bottle market:

- Available in 24 - 12 - 6 pockets.
- Starwheel:
 - With a thickness from 12 to 20mm,
 - With standard or specific rollers following the bottle's shape,
 - Customization on demand to specific constraints: ATLAS, CDR, NCI and other detections,
 - Rotation rollers from Ø60mm to Ø130mm in standard.



Standard rollers

ATLAS detection starwheel



Standard starwheel

BEER, WINE, CHAMPAGNE & SOFT DRINKS

3 OUTFEED GUIDES:

- As a standard: with a thickness from 8 to 12mm,
- Adapted material and design to obtain the lowest possible friction coefficient.

ATLAS starwheel
without aluminum
reinforcement



4 THE "PIT-STOP" RANGE:

- No more need to dismount and disturb your carousel machine,
- No risk of losing washers, axis and screws,
- Use of a unique wrench to screw and unscrew.

5 WE ALSO PROVIDE PLUG SETS.



Plug set for bottles



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JARS



1 SINGLE OR DOUBLE INFEEED SCREWS FOR JARS:

- The clearance between the article and the screw is reduced to the minimum to ensure a maximal stability,
- Anti-jump guide on the infeed screw increases bottle fluency in the transfer between infeed screws and starwheels.



Infeed screw with a low clearance



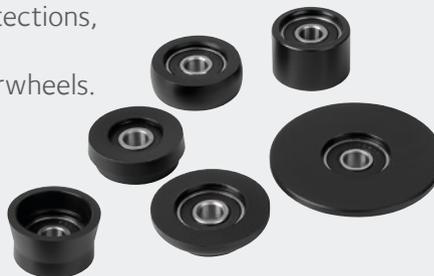
60mm thick starwheel

2 SPECIFIC TOOLING SETS

adapted to jar market:

- Available in 6 to 48 pockets.
- Starwheel:
 - With a standard thickness from 12 to 20mm and up to 60mm for specific mounting,
 - With standard, specific or even anti-rising rollers,
 - Customization on demand to specific constraints: ATLAS, CDR, NCI and other detections,
 - One or two rows of rollers,
 - Anti-jump guide above the starwheels.

Standard, specific and anti-rising rollers



Starwheel equipped with two rows of rollers



JARS

3 OUTFEED GUIDES:

- As a standard: with a thickness from 8 to 12mm,
- Possibility to design a specific anti-jump guide,
- Adapted material and design to obtain the lowest possible friction coefficient.



Specific and standard outfeed guides

4 WE ALSO PROVIDE PLUG SETS:

- One standardized extractor by machine welcoming customized extractor plates to fit any dimension.



Jar plug sets

Body starwheel



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NON ROUND ARTICLES



1 SPECIFIC INFEED SCREWS:

Capability to perfectly fit to complex articles' shapes & profiles such as square, rectangular, oval, triangular...



Specific infeed screws adapted to any shape

Standard and specific rollers



2 SPECIFIC TOOLING SETS

adapted to each of the non-round article.

- Available in 6 to 48 pockets,
- One or two body starwheels without rollers depending on the height of the article,
- Starwheel dedicated to specific necks fully adapted to article's shape to ensure:
 - Optimized non-round article's handling and stability,
 - Optimized article's rotation on the control stations.

WE PROVIDE:

- Machined rollers adapted to the shape of the article's neck, up to 60mm,
- Rotation rollers from Ø60mm to Ø130mm in standard,
- Foam-made rotation rollers to be positioned directly on the body of the non-round article enabling to increase the detection area on the shoulders.

Specific necks starwheels



NON ROUND ARTICLES

3 STANDARD AND SPECIFIC OUTFEED GUIDES:

- Capability to adapt them to complex articles' shapes & profiles,
- Adapted material and design to obtain the lowest possible friction coefficient.



Specific and standard outfeed guides

4 WE ALSO PROVIDE PLUG SETS.



Plug set for bottles



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EXPERTISE & INNOVATIONS



THE TOOLING DEPARTMENT

is organized around a dedicated customer follow-up. Our experts are delivering:

1

Personalized studies & follow-ups

You benefit from a personalized study & follow-up that is adapted to your chosen glass plant and to your types of carousel machines.

2

Sum-ups

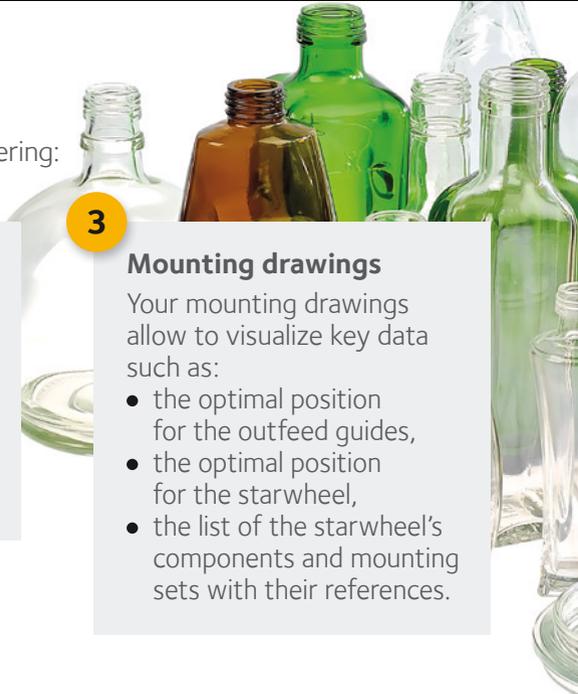
In your sum-ups file, we keep a record of all the ordered references and the precise machines' definitions (radius, machine's orientation, detections, product-mix...).

3

Mounting drawings

Your mounting drawings allow to visualize key data such as:

- the optimal position for the outfeed guides,
- the optimal position for the starwheel,
- the list of the starwheel's components and mounting sets with their references.



YOUR BENEFITS:

- Tiama is capable of **providing a complete comprehensive view** of your product-mix in accordance with your carousel machines.
- **We support you** with your future projects (tooling sets anticipation) and your new detections.
- We offer you all **our expertise to optimize** your machines' performances.

Tiama selects carefully all the tooling materials to ensure:

- The best adaptation of the material to your machine's configuration,
- The lowest possible article friction coefficient,
- An optimized value for money AND quality.

Tooling parts available ranges:

- Starwheel thickness: from 12 to 100mm,
- Starwheel number of pockets: from 6 to 48,
- Rollers: adapted to ALL articles' shapes (standard or specific).



EXPERTISE & INNOVATIONS



THE “PIT-STOP” RANGE

“Pit-stop” rollers: the fastest and simplest way to replace your rollers not even loosing a second.

Replacement time: 1/3 of the time previously required.

This option is available on your current starwheels as a replacement of your standard solution.



“Pit-stop” starwheel portions:

the fastest way to replace a defective starwheel thanks to specific removable parts.

“Pit-stop” mounting starwheel:

job-change time optimization through a new ergonomic mounting solution: starwheel is now fixed with only one nut.



THE “PIT-STOP” RANGE BENEFITS:

- No more need to dismount and disturb your carousel machine,
- No risk of loosing washers, axis and screws,
- Use of a unique wrench to screw and unscrew.

SPECIFIC INFEEDS SCREWS:

Fully adapted to non-round article's shapes ensuring a better introduction in the starwheels.

We can offer an express delivery time – less than 14 days (based on the provided customer's samples).



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