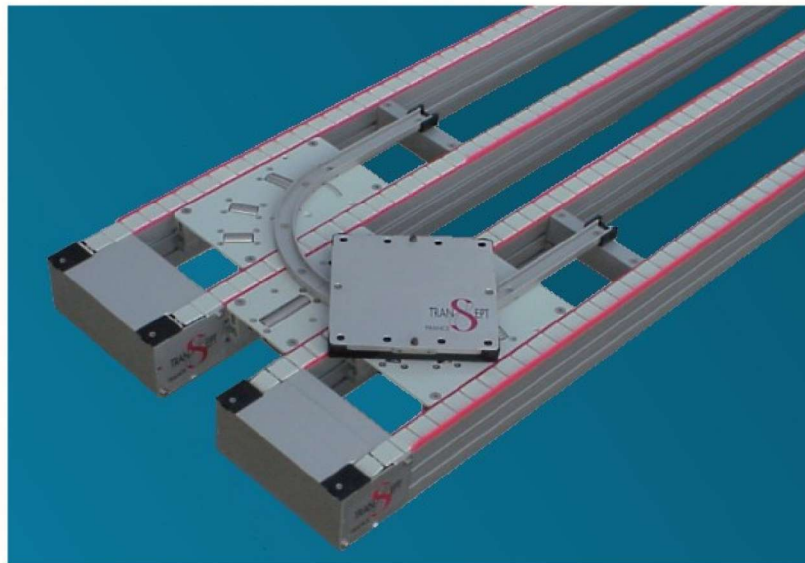


ASSEMBLY LINE TRANSFER
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The advantages of good design

TRANSEPT TR
ADVANTAGES :

DOWNTIME REDUCTION

WORKPIECE CARRIERS

FLEXIBILITY AND MODULARITY

EFFICIENCY AND RELIABILITY

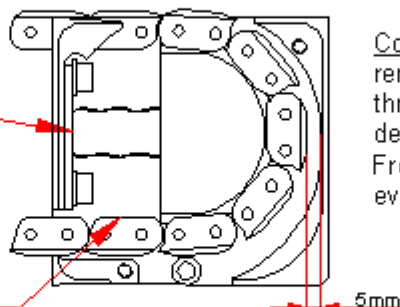
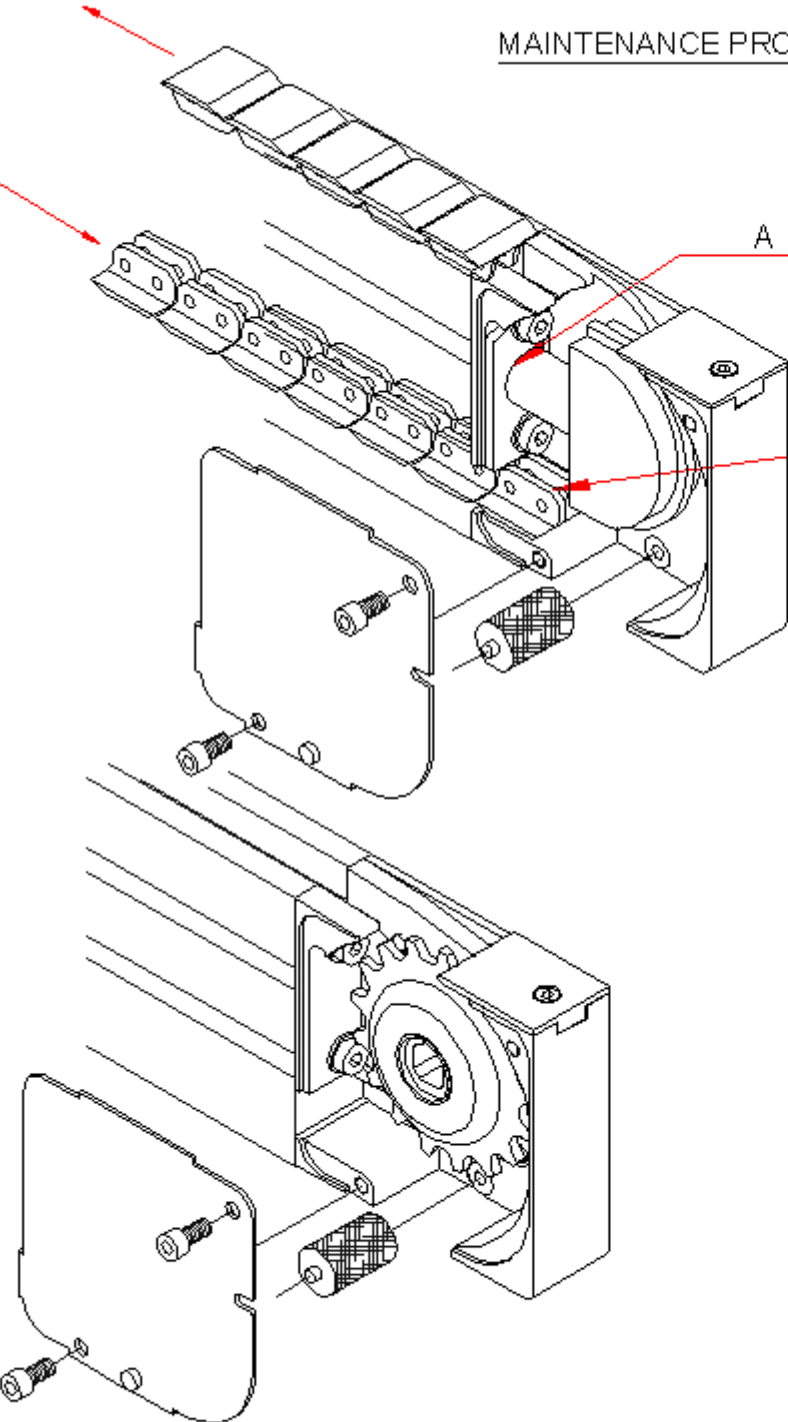
DOWNTIME REDUCTION

- **The WPC can easily be removed to repair tooling off line without affecting production**
- **The simple design reduces maintenance issues**
- **The simple design reduces the number of spare parts required**
- **The ergonomics of the system saves many manipulations and movements to the operators (necessary tooling and parts are located in parallel to the working place)**

SIMPLE POWER TRANSMISSION

- **Simple roller chain**
- **Delta Z corrosion treatment** to extend the life of the chain
- **Automatic chain tensioning** thanks to a spring tensioning device
- **Reduced chain stretch**
- **Extended chain life duration** (more than 30.000 hours)
- **Reduced maintenance procedure**
- **Simple chain tools**
- **Quiet operation**

MAINTENANCE PROCEDURE AFTER A 1.000 HOUR AND A 5.000 HOUR FUNCTIONING



Control of the rear position of the chain tensioning device :
remove a couple of chain links when a chain pad appears through the slot located in the cover of the tensioning device (rear gap less than 5mm).

Frequency of the control (proper lubrication supposed) : every 5.000 hours.

Control of the chain tensioning device :

Rise and release the chain: the tensioning device should come back to its initial position. In case of difficult sliding, apply spray lubricant (WD40) inside the rubber protection (point A).

Replacement of the chain tensioning device :

Frequency (proper lubrication supposed): between 7500h and 10000h
Open the chain, untighten and extract the tensioning device by the side (take care of the spring release).
Mount a new device (ref 7025) by compressing the spring.
Tighten it and put the chain again.

Cleaning of the driving boxes :

Remove the cover, extract the rotary brush.
clean the driving box by suction, then clean and set the rotary brush again.

Chain lubrication :

Use TRANSEPT lubricant ref.0033

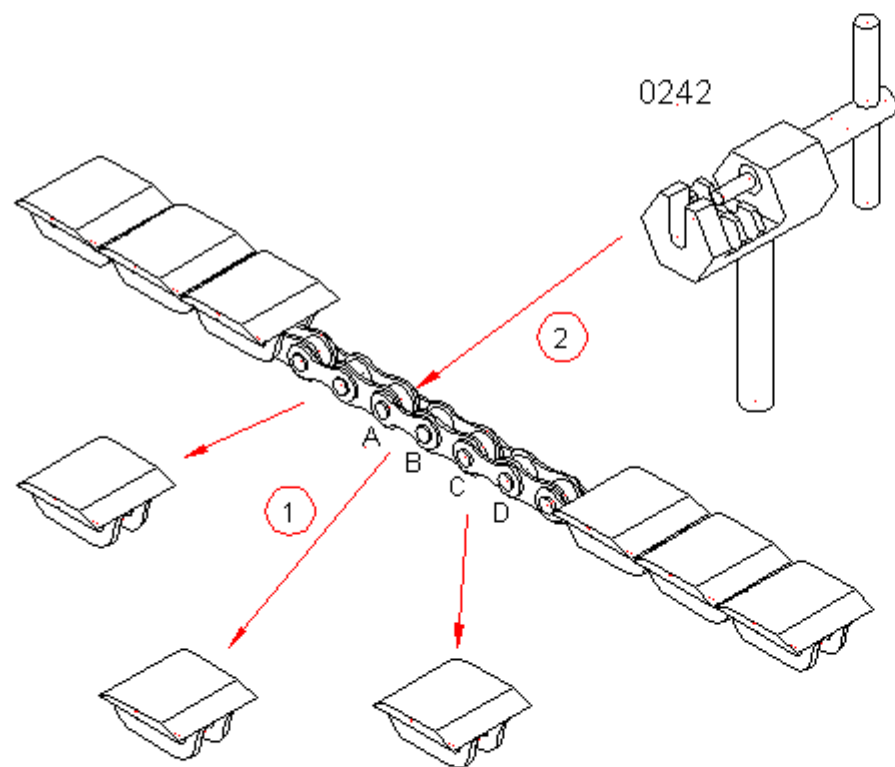
Mark one pad of each chain to be lubricated.

While the transfer is running, slightly lubricate through point B during one rotation cycle of the chain.

A lubricant spray such as WD40 can also be used.

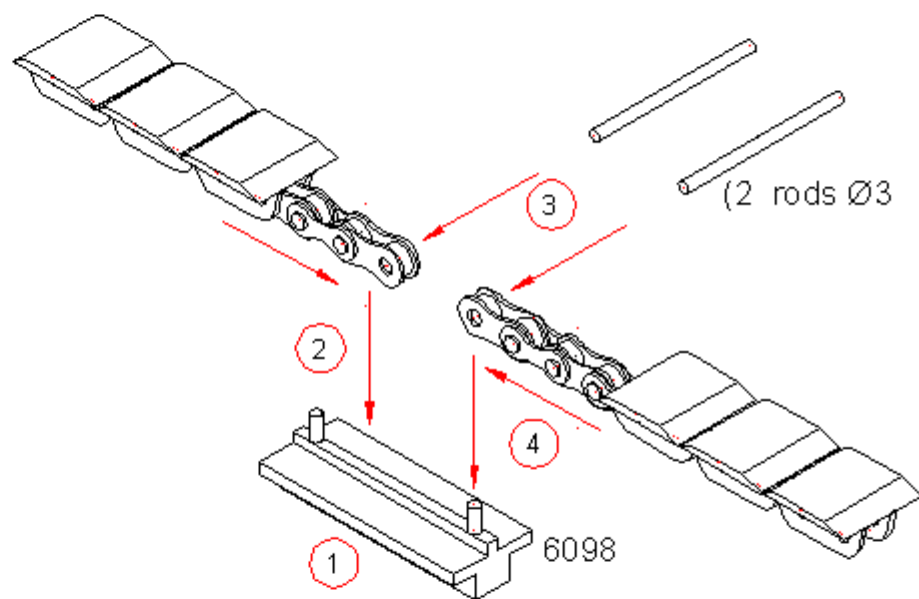
MAINTENANCE OF THE CHAIN

A - HOW TO OPEN THE CHAIN



simple dismounting of axes A and B.
shortening of the chain : axes A,B,C and D.

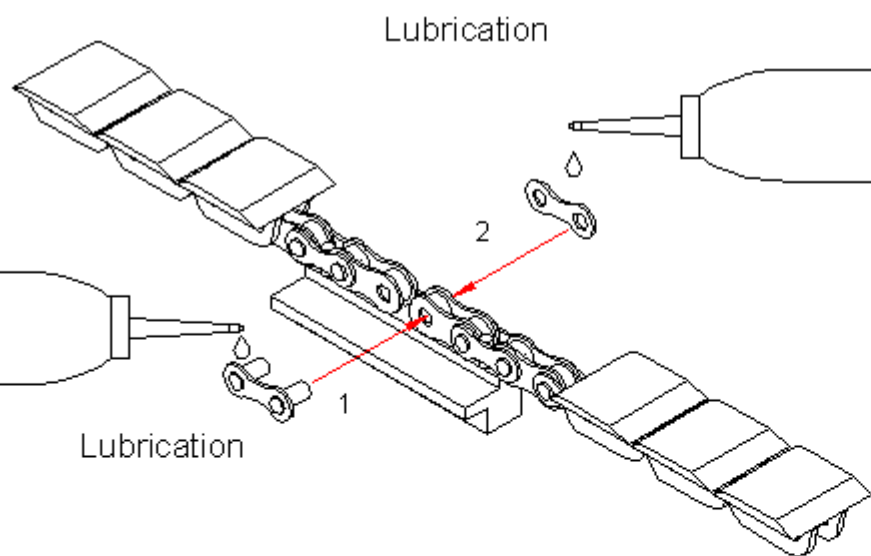
B - HOW TO JOIN END TO END



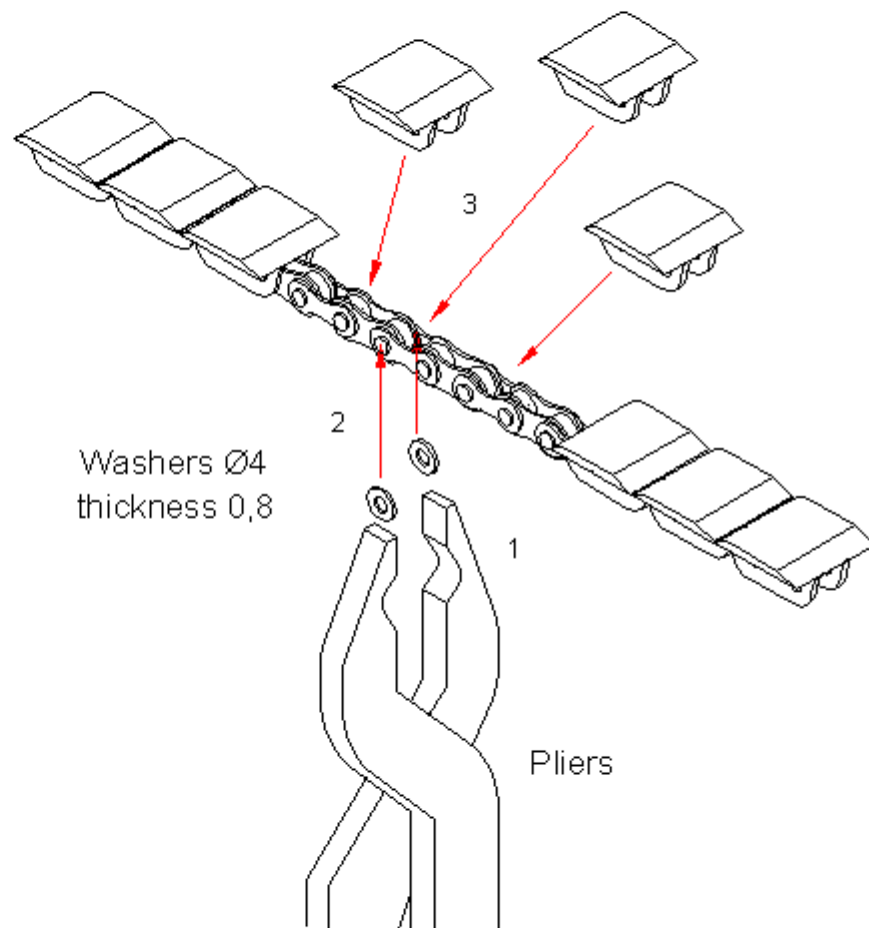
Set chain tool ref. 6098 into the profile groove.
Put one chain end on to one of the pins of the chain tool.
Bring both chain ends near using 2 rods $\text{Ø}3$.
Put the other chain end on to the second pin of the chain tool.

MAINTENANCE OF THE CHAIN

C - HOW TO FIX THE CHAIN LINK



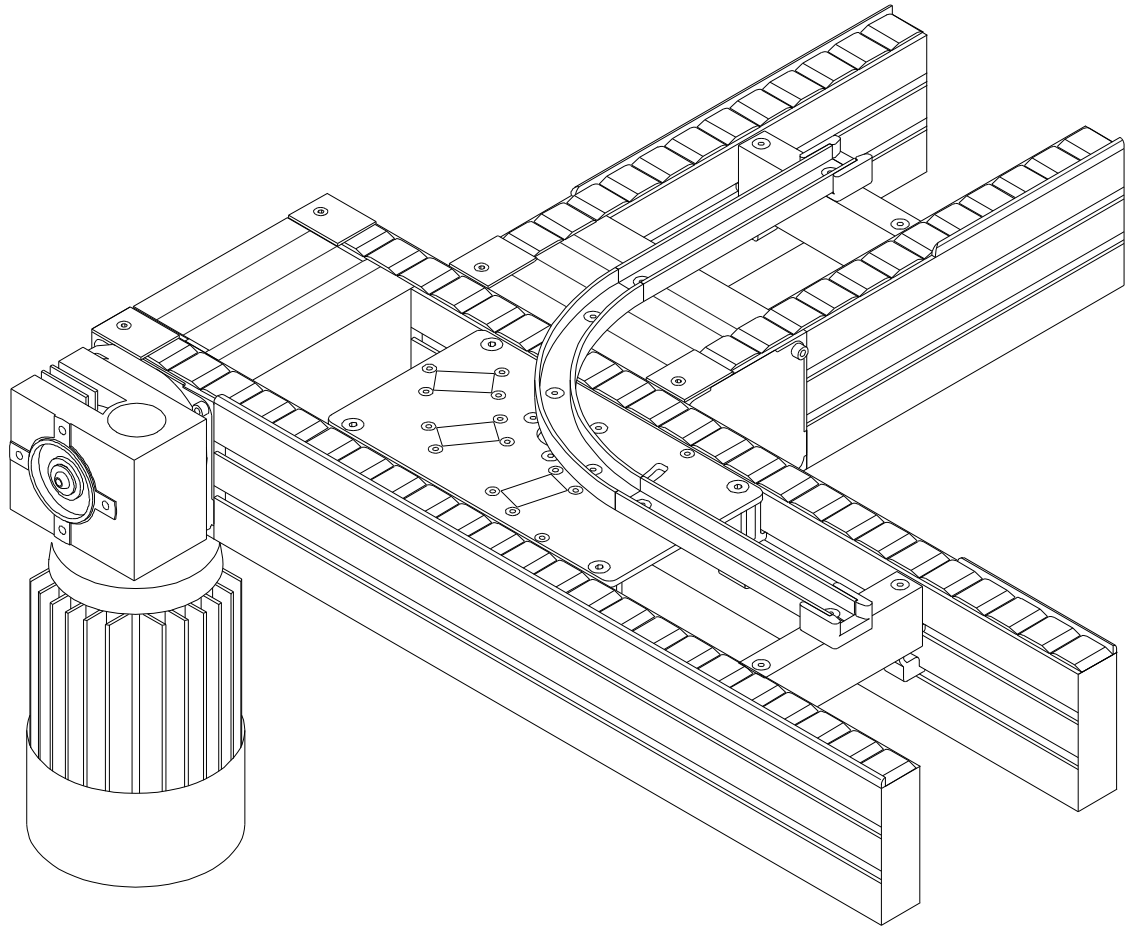
D - HOW TO CLOSE THE CHAIN

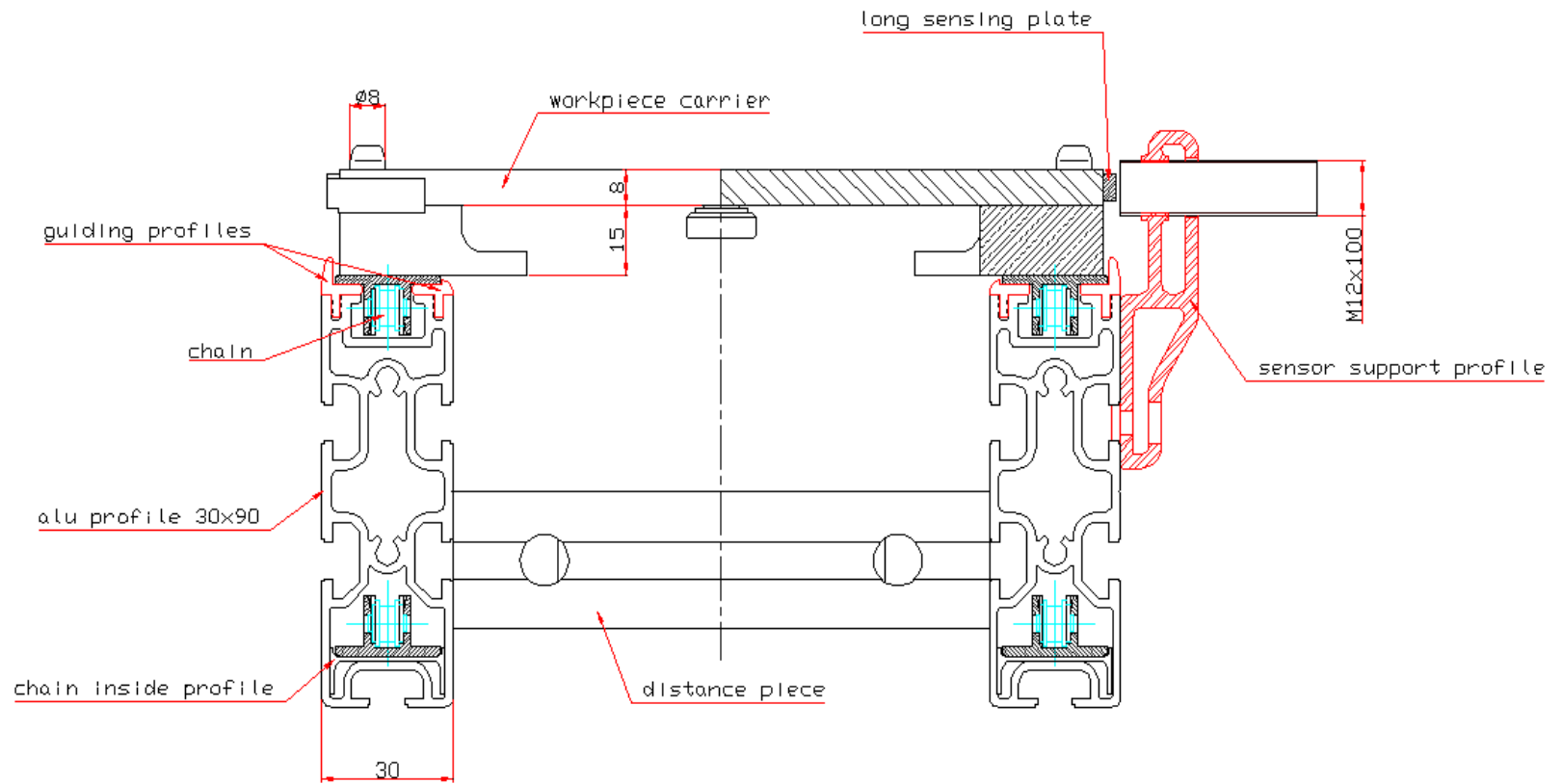


Center the link axes.
Check the free movement of the link.
Clip new pads on.

WORKPIECE CARRIERS

- They are **guided** :
 - **in the curves** : by means of a central rail and a motorized roller located on the bedplate
 - **in straight sections** : by means of a Fuschia side guiding profile
- They **directly take the curves**
- They **always keep the same orientation**
- They are **independent one from each other** (if one stops, it will not stop the whole line)
- They can **accumulate along the sections**
- They can **include openings for access from below**
- The **fixing plate can be bigger than the WPC itself**
- The **transported parts keep free access on all 6 sides**





FLEXIBILITY AND MODULARITY

Thanks to its modern design and/or light structure :

- The TR system can be **configured according to the requirements of the customer application and budget**
- The **hipodrome configuration** requires **little space** and **can be used as buffer** as well. The **lift configuration** requires **even less space**
- The **same line can have manual and automatic working places**
- The **same line can be used for different products at the same time** : the by-pass of a working place is possible thanks to the use of crosses or optional curves
- The TR can be **expanded, shortened or re-configured at any time**
- It can be **modified to fill all production needs** (water, high temperature), it is applicable in all industries



EFFICIENCY AND RELIABILITY

Accuracy :

- stop unit : **0,3** mm
- positioning tools : **0,03** mm

Efforts to be applied to the load up to **5000 kg** (when using a positioning tool)

Maxi. allowed load above a WPC : 17kg (WPC 400x400)

Max. allowed load per section :

up to 15 m/mn : **75 kg** in accumulation and **150kg** circulating

for speed higher than 15 m/mn : **50kg** in accumulation and **100kg** circulating

Maxi. allowed speed = 30 m/mn