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</table>
Description (modules)

Rectangular basis

Hippodrome basis

Shunt

Spur track

Diversion
Description (structure)

High quality material such as stainless steel, anodized extruded aluminium and plastic such as polyamid or acetal are used in the construction of a TRANSEPT system.

The modularity of the construction allows shorter assembly times and facilitate future extension and modifications.

Example: 90° curve, line 175
Description (drive)

Workpiece carriers run freely upon a chain fitted with pads requiring minimum maintenance (recommended lubrication every 5000h, one link removal every 10000h). Chain life duration is above 30000h. Shafts of chain are chromized in order to reinforce their hardness while reducing considerably the risk of wear.
Each straight section is composed of two 30mmx90mm aluminium profile ways fitted with side guiding for the guidance of workpiece carriers.

The maximum loading capacity in accumulation on one section is 75kg (and 50kg for speeds above 15m/min)

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Worm gear reducer, size 30mm

Three-phase motor reducer 180W 63 B14
- 50Hz 230/400V
- 60Hz 230/460V

Standard speed (50Hz): 14.6m/min

Other speeds:
- use frequency inverter (from 30Hz to 70Hz)
- a worm gear reducer different ratio (ref.7161)

Overall length

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Right side motorization

Left side motorization
Maxi./mini. section lengths and continuities

Maxi. 7640mm (one piece)

For lengths over 7640mm

Lengthening device ref. 7024

Continuity Lines 175 to 400
Left side motorization

Continuity Lines 175 to 400
Right side motorization

<table>
<thead>
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Continuity Line 100
Right side motorization

<table>
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<tr>
<td>100</td>
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Edition 2015
We keep the right to make any necessary modification
Page 6
Leg sets and links

Leg sets are used to support the transfer sections. 2 meters spacing between them is recommended. Leg sets are generally made of aluminium profile (30x60) or any other size on request. They are delivered fully mounted and fitted with adjustable leg sets and the requested fixing elements (anchoring brackets are not of supply). Tripod leg sets are recommended for the fixing of perpendicular sections.

Link 4056 (perpendicular sections) and 4156 (aligned sections, see page 6) ensure a perfect flatness of the system during assembly.
Workpiece carriers (WPC) hold the parts in position during the complete assembly process. The WPC is composed of an aluminium plate and a polyamide moulded pad fitted with grooves to ensure perfect guidance through curves and other functions.

For indexing, Ø 8mm pins are provided and allow accurate positioning in X, Y and Z axis within a +/- 0.03mm repeatability. A notch made in the WPC pad ensures total immobilization of the WPC at a stop position. Steel pads on either side allow sensing with conventional inductive sensors.

*Line 100 workpiece carrier (reference 8006) can carry payloads up to 5kg.*
Stop/Pad/Anti-backlash/Anti-lift/Sensing

Stop unit 8216 provides the stop of the WPC when precise positioning of the workpiece carrier is not necessary. It can also be used for flow control and prioritisation of workpiece carriers prior to and after "mobile" functions.

Stop pad 8261 improves the accuracy of the stop and the anti-backlash device 8262 reduces WPC bounce, providing better cycle times. When unloading pieces at manual workstations, anti-lift kit 8038 prevents the operator from lifting the WPC from the transfer line.

---

Stop
- stop capability 75kg
- stop accuracy ±0.3mm (with stop pad 8261)
- cylinder Ø 25mm, single-acting
- lubricated or not, cleaned air, 5 to 6 bars
- connector for Ø 4mm pipe (supplied)
- acetal body, stainless steel plunger
- sensing up/down positions: on request ref. 8014 (M8 sensors not supplied)

Direction of flow

The detection of WPC when stopped at working places, the control of flow and the prioritization of WPC are provided by M12 inductive sensors (4mm swept area) mounted in sensor support ref. 8095.
40kg positioning tool (6mm stroke)

When a process requires precise positioning of the workpiece carriers, the 40kg positioning tool (6mm stroke) ensures a +/- 0.03mm XYZ repeatability. The positioning tool is manufactured from high grade aluminium. A double-acting pneumatic cylinder lifts and secures the workpiece carrier inside hardened steel jaws. Two sensors set on the cylinder body ensure detection of up/down positions. Threads in the sides of the positioning tool allow the use of M12 sensors (not supplied).

The 40kg positioning tool (6mm stroke) is delivered with 2 stops 8016, pre-fitted on its base. These stops must be ordered separately.

**Cylinder** - Ø 32mm, double-acting
- lubricated or not, cleaned air, 6 bars
- connectors Ø4mm pipe (supplied)
- 2 sensors (supplied)

**Direction of Flow**

**40kg positioning tool, 6mm stroke**
**Ref. 8035**

**IMPORTANT**
1. The positioning tool must be mounted in a stable and robust structure in order to ensure accuracy of positioning and absorb forces.
2. The positioning tool must be fully guarded to protect the operators.
The 50mm or 100mm stroke version of the 40kg positioning tool ensures a +/- 0.03mm XYZ repeatability. The positioning tool is manufactured from high grade aluminium. A double-acting pneumatic cylinder lifts and secures the workpiece carrier in hardened steel jaws. Two sensors set on the cylinder body ensure detection of up/down positions. Threads in the side of the positioning tool allow the use of M12 sensors (not supplied).

The 40kg positioning tool (50/100mm stroke) is delivered with 2 stops 8016, pre-fitted on its base. These stops must be ordered separately.

**Cylinder** - Ø 32mm, double-acting
- lubricated or not, cleaned air, 6 bars
- connectors Ø 4mm pipe (supplied)
- 2 sensors (supplied)

**IMPORTANT**

1. The positioning tool must be mounted in a stable and robust structure in order to ensure accuracy of positioning and absorb forces.
2. The positioning tool must be fully guarded to protect the operators.
When a process requires precise positioning under strong efforts, the 160kg positioning tool (6mm stroke) ensures a +/- 0.03mm XYZ repeatability. The positioning tool is manufactured from high grade aluminium. A double-acting pneumatic cylinder lifts and secures the workpiece carrier in hardened steel jaws. Two sensors set on the cylinder body ensure detection of up/down positions. Threads in the side of the positioning tool allow the use of M12 sensors (not supplied).

The 160kg positioning tool (6mm stroke) is delivered with 2 stops 8016, pre-fitted on its base. These stops must be ordered separately.

**Cylinder**
- Ø 63mm, double-acting
- Lubricated or not, cleaned air, 6 bars
- Connectors Ø 4mm pipe (supplied)
- 2 sensors (supplied)

**Important**
1. The positioning tool must be mounted into a stable and robust structure in order to ensure accuracy of positioning and absorb forces.
2. The positioning tool must be fully guarded to protect operators.
The 90° curve allows the circulation of WPC from one section perpendicular to another. Grooves under the WPC guide it through rollers mounted on ball bearings. These rollers are set on painted steel bedplates. Special claws facilitate the mounting.

In this configuration, accumulation of WPC is possible. The curve gains more reliability as there is no mechanical element or motorization.

The minimum distance at which the workpiece carriers may be stopped in relationship to the curve is shown in the drawings above.
The 90° “mobile” curve allows the circulation of WPC from a secondary section to a main one (“input”) or from a main section to a secondary one (“output”). Grooves under the WPC guide it through rollers mounted on ball bearings.

This function is “mobile” due to the retractable main bedplate. The 90° “mobile” curve generates a mini. flow disruption and requires little automation.

Retractable bedplate cylinder

- Ø 16mm, double-acting
- lubricated or not, cleaned air, 5 to 6 bars
- connectors for Ø 4mm pipe (supplied)
- sensors on cylinder body (not supplied)
Using the 180° curve, it is possible to circulate from one section in parallel to another operating in the opposite direction. Four combinations cover all possible configurations.

This function is "mobile" due to the retractable bedplate. In the "static/static" curve, accumulation of workpiece carriers is possible. The bedplate between the sections ("middle bedplate") is equipped with a motorized roller to ease the workpiece carriers flow through the curve.

**Retractable bedplate cylinder**
- Ø 16mm, double-acting
- lubricated or not, cleaned air, 5 to 6 bars
- connectors for Ø 4mm pipe (supplied)
- sensors on cylinder body (not supplied)

**Intermediate motorized roller**
- power 6.3W
- voltage 220V single-phase
- frequency 50Hz
- rated current 73mA
The minimum distance at which WPC have to be stopped before the curve is shown in the drawings below.

Counter-clockwise

Clockwise
The function of the input/output combination transfers workpiece carriers from one section to another operating in parallel and running in the same direction.

This function is “mobile” due to the retractable bedplate. The bedplate between the sections (“middle bedplate”) is fitted with two motorized rollers (driven by only one motor) to ease the workpiece carriers flow through the function.
Retractable bedplate cylinder
- Ø 16mm, double-acting
- lubricated or not, cleaned air, 5 to 6 bars
- connectors for Ø 4mm pipe (supplied)
- sensors on cylinder body (not supplied)

Intermediate motorized rollers
- power 6.3W
- voltage 220V single-phase
- frequency 50Hz
- rated current 73mA

The minimum distance at which WPC have to be stopped before the combination is shown in the drawings below.
Workpiece carriers

The workpiece carriers (WPC) hold the parts in position during the complete assembly process. The WPC is fitted with ball bearings at its lower side to ensure perfect guidance through curves and other functions.

For indexing, Ø 8mm pins are provided and allow precise positioning in X, Y and Z axis within a +/- 0.03mm repeatability. A notch made in the WPC pad ensures total immobilization of the WPC at a stop position. Steel pads on either side allow sensing with conventional inductive sensors.

Line 175 workpiece carriers (references 8000 and 8001) can carry payloads up to 7kg.
The WPC plate is made of anodized aluminium. Flatness is more than 0.5mm. The moulded polyamid pads are easily replaceable. Friction coefficients are 0.25 (carrying) and 0.50 (accumulation).
Workpiece carriers (WPC) hold the parts in position during the complete assembly process. The WPC is fitted with ball bearings at its lower side to ensure perfect guidance through curves and other functions.

For indexing, Ø 8mm pins are provided and allow precise positioning in X, Y and Z axis within a +/- 0.03mm repeatability. A notch made in the WPC pad ensures total immobilization of the WPC at a stop position. Steel pads on either side allow sensing with conventional inductive sensors.

Line 250 workpiece carriers (references 8002 and 8003) can carry payloads up to 10kg.
The WPC plate is made of anodized aluminium. Flatness is more than 0.5mm. The moulded polyamid pads are easily replaceable. Friction coefficients are 0.25 (carrying) and 0.50 (accumulation).
Workpiece carriers (WPC) hold the parts in position during the complete assembly process. The WPC is fitted with ball bearings at its lower side to ensure perfect guidance through curves and other functions.

For indexing, Ø 8mm pins are provided and allow precise positioning in X, Y and Z axis within a +/- 0.03mm repeatability. A notch made in the WPC pad ensures total immobilization of the WPC at a stop position. Steel pads on either side allow sensing with conventional inductive sensors.

Line 325 workpiece carriers (references 8004 and 8005) can carry payloads up to 10kg.
The WPC plate is made of anodized aluminium. Flatness is more than 0.5mm. The moulded polyamid pads are easily replaceable. Friction coefficients are 0.25 (carrying) and 0.50 (accumulation).
Workpiece carriers (WPC) hold the parts in position during the complete assembly process. The WPC is fitted with ball bearings at its lower side to ensure perfect guidance through curves and other functions.

For indexing, Ø 8mm pins are provided and allow precise positioning in X, Y and Z axis within a +/- 0.03mm repeatability. A notch made in the WPC pad ensures total immobilization of the WPC at a stop position. Steel pads on either side allow sensing with conventional inductive sensors.

Line 400 workpiece carrier (reference 8240) can carry payloads up to 10kg.

The WPC plate is made of anodized aluminium. Flatness is more than 0.5mm. The moulded polyamid pads are easily replaceable. Friction coefficients are 0.25 (carrying) and 0.50 (accumulation).
Stop/Pad/Anti-lift/Sensing

Stop unit 8016 provides the stop of the WPC when precise positioning of the workpiece carrier is not necessary. It can also be used for flow control and prioritization of workpiece carriers prior to and after "mobile" functions.

Stop pad 8061 improves the accuracy of the stop by limiting the WPC rotation and the efforts on the side guides. Its use is compulsory. When unloading pieces at manual workstations, anti-lift kit 8038 prevents the operator from lifting of the WPC from the transfer line.

The detection of WPC when stopped at working places, the control of flow and the prioritization of WPC are provided by M12 inductive sensors (4mm swept area) mounted in sensor support ref.8095.
When a process requires precise positioning of the workpiece carriers, the 100kg positioning tool (6mm stroke) ensures a +/- 0.03mm XYZ repeatability. The positioning tool is manufactured from high grade aluminium. A double-acting pneumatic cylinder lifts and secures the workpiece carrier inside hardened steel jaws. Two sensors (supplied) set on the cylinder body ensure detection of up/down positions. Threads in the sides of the positioning tool allow the use of M12 sensors (not supplied).

Allowable vertical centred force = 100kg. 2 stops 8016 and 2 pads 8061 are necessary.

Cylinder  - Ø 50mm, double-acting  
- lubricated or not, cleaned air 6 bars  
- connectors Ø 4mm pipe (supplied)  
- 2 sensors (supplied)

Direction of flow

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<th>Line 250</th>
<th>Line 325</th>
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<td>B (mm)</td>
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<td>C (mm)</td>
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**IMPORTANT**
1. The positioning tool must be mounted in a stable and robust structure in order to ensure accuracy of positioning and absorb forces.
2. The positioning tool must be fully guarded to protect the operators.
The 50mm or 100mm stroke version of the 100kg positioning tool ensures a +/- 0.03mm XYZ repeatability. The positioning tool is manufactured from high grade aluminium. A double-acting pneumatic cylinder lifts and secures the workpiece carrier inside hardened steel jaws. Two sensors (supplied) set on the cylinder body ensure detection of up/down positions. Threads in the sides of the positioning tool allow the use of M12 sensors (not supplied).

Allowable vertical centered forces = 100kg. 2 stops 8016 and 2 pads 8061 are necessary.

**Cylinder**
- Ø 50mm ISO, double-acting
- Lubricated or not, cleaned air, 6 bars
- Connectors Ø 8mm pipe (supplied)
- 2 sensors (supplied)

### Important
1. The positioning tool must be mounted in a stable and robust structure in order to ensure accuracy of positioning and absorb forces.
2. The positioning tool must be fully guarded to protect the operators.
Anvil positioning tool (6mm stroke)

When a process requires precise positioning under strong efforts, the anvil positioning tool ensures a +/- 0.03mm XYZ repeatability. The positioning tool is manufactured from high grade aluminium. The lift mechanism is composed of a wedge made of synthetic material (little maintenance) and is actuated by a double-acting pneumatic cylinder. Two sensors set on the cylinder body ensure detection of up/down positions. Threads in the sides of the positioning tool allow the use of M12 sensors (not supplied).

Allowable vertical centred force = 5000kg (irreversible mechanism). 2 stops 8016 and 2 pads 8061 are necessary.

<table>
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<td>Ø 32mm, double-acting</td>
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<td>lubricated or not cleaned air, 6 bars</td>
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<tr>
<td>connectors Ø 4mm pipe (supplied)</td>
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<tr>
<td>2 sensors (supplied)</td>
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Direction of flow

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**IMPORTANT**

1. The positioning tool must be mounted in a stable and robust structure in order to ensure accuracy of positioning and absorb forces.
2. The positioning tool must be fully guarded to protect the operators.
Setting of positioning tools

General setting for 100Kg positioning tools Line 175.

![Diagram of 100Kg positioning tools Line 175.]

General setting for 100Kg positioning tools Lines 175 to 400.

![Diagram of 100Kg positioning tools Lines 175 to 400.]

General setting for anvil positioning tools Lines 175 to 400.

<table>
<thead>
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<th>A (mm)</th>
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<tr>
<td>Line 175</td>
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<td>Line 325</td>
<td>170</td>
</tr>
<tr>
<td>Line 400</td>
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![Diagram of anvil positioning tools Lines 175 to 400.]

Multipositioning tool

When an operation should be repeated on the same WPC in order to reduce cycle times, special steel jaws will be provided to 100kg and anvil positioning tools (multiple sequential indexing 2 or 3 positions).

This option is not available for line 100 and is difficult to apply to line 175. For lines 250 to 400, a specific study is necessary (number of positions, span and WPC lifting and sensing).

Example of 100kg positioning tool (6mm stroke, a line 250) with multipositioning option (2 positions)
The 90° static curve allows the circulation of WPC from one section perpendicular to another. Two ball bearings under the WPC ensure perfect guidance through 12x22 aluminium rails. Special claws facilitate the mounting.

In this configuration, accumulation of workpiece carriers is possible. The 90° curve gains more reliability as there is no mechanical element or motorization.

The 90° "mobile" curve allows the circulation of WPC from a secondary section to a main one ("input") or from a main section to a secondary one ("output"). Two ball bearings under the WPC ensure perfect guidance through 12x22 aluminium rails.

This function is "mobile" due to the rotation of the 12x22 central rail. The 90° mobile curve generates mini. flow disruption and recquires little automation.

Mobile rail cylinder
- Ø 15mm, double-acting
- lubricated or not, cleaned air, 5 to 6 bars
- connectors for Ø 4mm pipe (supplied)
- M8 sensors under mobile rail bearing (not supplied)
The minimum distance at which WPC have to be stopped before the curve is shown in the drawings below. Both 175x175 and 175x250 workpiece carriers are concerned.

Similarly, to chain up 90° curves (static or mobile), it is compulsory to respect the minimal space required as shown in page 57.
The 180° curve allows the circulation of WPC from one section in parallel to another operating in the opposite direction. Four combinations cover all possible configurations. This function is "mobile" due to the rotation of the 12x22 central rail. In the "static/static" curve, accumulation of workpiece carriers is possible. The herald plate between the sections ("middle herald plate") is fitted with a motorized roller to help WPC through the curve.

**Ref. 4064 (static/static)**

**Ref. 4073 (mobile/mobile)**

**Ref. 4067 (static/mobile)**

**Ref. 4068 (mobile/static)**

**Mobile rail cylinder**
- Ø 15mm, double-acting
- lubricated or not, cleaned air, 5 to 6 bars
- connectors for Ø 4mm pipe (supplied)
- M8 sensors under mobile rail bearing (not supplied)

**Motorized roller motor**
- power 6.3W
- frequency 50Hz
- voltage 220V single-phase
- rated current 73mA
The minimum distance at which WPC have to be stopped before the curve is shown in the drawings below. Both 175x175 and 175x250 workpiece carriers are concerned.
The input/output combination allows the circulation of WPC from one section to another operating in parallel and running in the same direction.

This function is "mobile" due to the rotation of the 12x22 central rail. The bedplate between the sections ("middle bedplate") is fitted with two motorized rollers (driven by one single motor) to help WPC through the curve.
Mobile rail cylinder
- Ø 15mm, double-acting
- lubricated or not, cleaned air, 5 to 6 bars
- connectors for Ø 4mm pipe (supplied)
- M8 sensors under mobile rail bearing (not supplied)

Motorized roller motor
- power 6.3W
- voltage 220V single-phase
- frequency 50Hz
- rated current 73mA

The minimum distance at which WPC have to be stopped before the combination is shown in the drawings below.
The 90° static curve allows the circulation of WPC from one section perpendicular to another. Two ball bearings under the WPC ensure perfect guidance through 12x22 aluminium rails. Special claws facilitate the mounting.

In this configuration, accumulation of workpiece carriers is possible. The 90° curve gains more responsibility as there is no mechanical element or motorization.

The 90° mobile curve allows the circulation of WPC from a secondary section to a main one ("input") or from a main section to a secondary one ("output"). Two ball bearings under the workpiece carriers ensure perfect guidance through 12x22 aluminium rails.

This function is "mobile" due to the rotation of the 12x22 central rail. The 90° mobile curve generates mini. flow disruption and requires little automation.

**Mobile rail cylinder**
- Ø 15mm, double-acting
- lubricated or not, cleaned air, 5 to 6 bars
- connectors for Ø 4mm pipe (supplied)
- M8 sensors under mobile rail bearing (not supplied)
The minimum distance at which WPC have to be stopped before the curve is shown in the drawings below. Both 250x250 and 250x325 workpiece carriers are concerned.

Similarly, to chain up 90° curves (static or mobile), it is compulsory to take care of minimal space as shown in page 57.
The 180° curve allows the circulation of WPC from one section in parallel to another operating in the opposite direction. Four combinations cover all possible configurations. This function is "mobile" due to the rotation of the 12x22 central rail. In the "static/static" curve, accumulation of workpiece carriers is possible. The bar plate between the sections ("middle bar plate") is fitted with a motorized roller to help WPC through the curve.

**Mobile rail cylinder**
- Ø 15mm, double-acting
- Lubricated or not, cleaned air, 5 to 6 bars
- Connectors for Ø 4mm pipe (supplied)
- M8 sensors under mobile rail bearing (not supplied)

**Motorized roller motor**
- Power 6.3W
- Frequency 50Hz
- Voltage 220V single-phase
- Rated current 73mA
The minimum distance at which WPC have to be stopped before the curve is shown in the drawings below. Both 250x250 and 250x325 workpiece carriers are concerned.
The input/output combination allows the circulation of WPC from one section to another operating in parallel and running in the same direction.

This function is "mobile" due to the rotation of the 12x22 central rail.
**Mobile rail cylinder**
- Ø 15mm, double-acting
- Lubricated or not, cleaned air, 5 to 6 bars
- Connectors for Ø 4mm pipe (supplied)
- M8 sensors under mobile rail bearing (not supplied)

The minimum distance at which WPC have to be stopped before combination is shown in the drawings below.
The 90° **static** curve allows the circulation of WPC from one section perpendicular to another. Two ball bearings under the WPC ensure perfect guidance through 12x22 aluminium rails. Special claws facilitate the mounting. The bedplate is fitted with a motorized roller to help workpiece carrier through the curve. In this configuration, accumulation of workpiece carriers is possible. The 90° curve gains more reliability as there is no mechanical element or motorization.

The 90° **mobile** curve allows the circulation of WPC from a secondary section to a main one ("input") or from a main section to a secondary one ("output"). Two ball bearings under the WPC ensure perfect guidance through 12x22 aluminium rails. The bedplate is fitted with a motorized roller to help WPC through the curve. This function is "mobile" due to the rotation of the 12x22 central rail. The 90° mobile curve generates mini. flow disruption and requires little automation.

**Mobile rail cylinder**
- Ø 15mm, double-acting
- lubricated or not, cleaned air, 5 to 6 bars
- connectors for Ø 4mm pipe (supplied)
- M8 sensors under mobile rail bearing (not supplied)

**Motorized roller motor**
- power 6.3W
- frequency 50Hz
- voltage 220V single-phase
- rated current 73mA
The minimum distance at which WPC have to be stopped before the curve is shown in the drawings below. Both 325x325 and 325x475 workpiece carriers are concerned.

Similarly, to chain up 90° curves (static or mobile), it is necessary to respect the mini. space required as shown in page 57.
The 180° curve allows the circulation of WPC from one section in parallel to another operating in the opposite direction. Four combinations cover all possible configurations. This function is "mobile" due to the rotation of the 12x22 central rail. In the "static/static" curve, accumulation of workpiece carriers is possible. Each input and output bedplate is fitted with a motorized roller to help WPC through the curve.

---

**Mobile rail cylinder**
- Ø 15mm, double-acting
- lubricated or not, cleaned air, 5 to 6 bars
- connectors for Ø 4mm pipe (supplied)
- M8 sensors under mobile rail bearing (not supplied)

**Motorized roller motor**
- power 6.3W
- frequency 50Hz
- voltage 220V single-phase
- rated current 73mA
The minimum distance at which WPC have to be stopped before the curve is shown in the drawings below. Both 325x325 and 325x475 workpiece carriers are concerned.
The input/output combination allows the circulation of WPC from one section to another operating in parallel and running in the same direction.

This function is "mobile" due to the rotation of the 12x22 central rail. Each input and output bedplate is fitted with a motorized roller to help WPC through the curve.
Mobile rail cylinder
- Ø 15mm, double-acting
- Lubricated or not, cleaned air, 5 to 6 bars
- Connectors for Ø 4mm pipe (supplied)
- M8 sensors under mobile rail bearing (not supplied)

Motorized roller motor
- Power 6.3W
- Voltage 220V single-phase
- Frequency 50Hz
- Rated current 73mA

The minimum distance at which WPC have to be stopped before the combination is shown in the drawings below.
The 90° **static** curve allows the circulation of WPC from one section perpendicular to another. Two ball bearings under the WPC ensure perfect guidance through 12x22 aluminium rails. Special claws facilitate the mounting. The bedplate is fitted with a motorized roller to help the WPC through the curve. In this configuration, accumulation of workpiece carriers is possible. The 90° curve gains more reliability as there is no mechanical element or motorization.

The 90° **mobile** curve allows the circulation of WPC from a secondary section to a main one ("input") or from a main section to a secondary one ("output"). Two ball bearings under the WPC ensure perfect guidance through 12x22 aluminium rails. The bedplate is fitted with a motorized roller to help the WPC through the curve. This function is "mobile" due to the rotation of the 12x22 central rail. The 90° mobile curve generates minimal flow disruption and requires little automation.

**Mobile rail cylinder**
- Ø 15mm, double-acting
- lubricated or not, cleaned air, 5 to 6 bars
- connectors for Ø 4mm pipe (supplied)
- M8 sensors under mobile rail bearing (not supplied)

**Motorized roller motor**
- power 6.3W
- frequency 50Hz
- voltage 220V single-phase
- rated current 73mA
The minimum distance at which WPC have to be stopped before the curve is shown in the drawings below. 400x400 workpiece carriers are concerned.

Similarly, to chain up 90° curves (static or mobile), it is necessary to respect the mini. space required as shown in page 57.
The input/output combination allows the circulation of WPC from one section to another operating in parallel and running in the same direction.

This function is "mobile" due to the rotation of the 12x22 central rail. Each input and output bedplate is fitted with a motorized roller to help WPC through the curve.
Mobile rail cylinder
- Ø 15mm, double-acting
- lubricated or not, cleaned air, 5 to 6 bars
- connectors for Ø 4mm pipe (supplied)
- M8 sensors under mobile rail bearing (not supplied)

Motorized roller motor
- power 6.3W
- voltage 220V single-phase
- frequency 50Hz
- rated current 73mA

The minimum distance at which WPC have to be stopped before the combination is shown in the drawings below.
Cross combination

The cross-combination can replace two consecutive input/output combinations in order to reduce space.

This function is available on special request and is available "static/mobile" or "mobile/mobile".

<table>
<thead>
<tr>
<th></th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line 175</td>
<td>395</td>
<td>639</td>
<td>97</td>
</tr>
<tr>
<td>Line 250</td>
<td>470</td>
<td>864</td>
<td>97</td>
</tr>
<tr>
<td>Line 325</td>
<td>545</td>
<td>1089</td>
<td>97</td>
</tr>
<tr>
<td>Line 400</td>
<td>578</td>
<td>1272</td>
<td>55</td>
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Example of line 175

Static/mobile cross

<table>
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<tr>
<th></th>
<th>References</th>
</tr>
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<tbody>
<tr>
<td>Line 175</td>
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<td>Line 250</td>
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<tr>
<td>Line 325</td>
<td>4185</td>
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<tr>
<td>Line 400</td>
<td>4187</td>
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</tbody>
</table>

Mobile/mobile cross

<table>
<thead>
<tr>
<th></th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line 175</td>
<td>4184</td>
</tr>
<tr>
<td>Line 250</td>
<td>4182</td>
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<td>Line 325</td>
<td>4186</td>
</tr>
<tr>
<td>Line 400</td>
<td>4188</td>
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</tbody>
</table>
Linking of functions

To chain up 90° curves (static or mobile), it is necessary to respect the minimal space required as shown below.

<table>
<thead>
<tr>
<th>Length A (mini, mm)</th>
<th>Length B (mini, mm)</th>
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</thead>
<tbody>
<tr>
<td>Line 100</td>
<td>330</td>
</tr>
<tr>
<td>Line 175</td>
<td>272</td>
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<tr>
<td>Line 250</td>
<td>347</td>
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<tr>
<td>Line 325</td>
<td>422</td>
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<tr>
<td>Line 400</td>
<td>447</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dimension C (mini, mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line 175</td>
</tr>
<tr>
<td>Line 250</td>
</tr>
<tr>
<td>Line 325</td>
</tr>
<tr>
<td>Line 400</td>
</tr>
</tbody>
</table>

Mini. dimension between two consecutive functions
Miscellaneous, maintenance, accessories

Lubrication

Slightly lubricate every 5,000h with TRANSEPT special lubricant spray, to be applied through the tensioning boxes at the rear of the section.

Maintenance box

Composed of: chain pads, TRANSEPT special lubricant spray, end caps, spare sprockets, chain tools.

<table>
<thead>
<tr>
<th>Maintenance</th>
<th>Lubricant</th>
<th>Maintenance box</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference</td>
<td>0033</td>
<td>7123</td>
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</tbody>
</table>

Data base

Different configurations are possible because of the modularity of the system. A data base of every elements in this catalogue is available through our distributors.

TRANSEPT range of transfer systems and conveyors are available on our website:

hellowoov-transept.fr
Other TRANSEPT products

TB 24 SERIES

Belt conveyors Ø24: widths available 20mm; 40mm; 60mm; 80mm; 100mm

TB 50 SERIES

Belt conveyors Ø50: widths available from 70 to 500mm

TB 90 SERIES

Belt conveyors Ø90: widths available from 600 to 1200mm

TBM TBI SERIES

Flex conveyor: widths available 114,3mm; 190,5mm; 254mm; 304,8mm
Other products by TRANSEPT

TR SERIES

Transfer system: widths available 100mm; 175mm; 250mm; 325mm; 400mm

TRM SERIES

Transfer system: widths available from 336mm to 1236mm

TM SERIES

Monorail transfer system
Payload: 100kg above the shuttle
Shuttle length from 600mm to 2500mm

TM configuration
/ 1 OFFER, 3 EXPERTS

50 years experience forged with customers from our 3 sister companies, in a wide range of manufacturing fields, allowing a large variety of products to move on production lines.

Our offer of standard modules, sized to measures solutions, and standard equipments that we bring today on the market is truly unique by its depth and perfect mix and match features.

/ COMPLETE, MODULAR, CREATIVE AND RELIABLE

Our long time established expertise on modular conveyors and transfers

Our wide and deep profiles range offering high quality assembled solutions perfectly meeting your demands

Our unique capacity to develop and supply function plastic parts and screws

Our creativity to provide longlasting and efficient solutions

/ ALLOWING PRODUCTS TO MOVE ON PRODUCTION LINES TODAY AND TOMORROW

Our ambition is to give you one move beyond

By building together innovations that will make your production lines processes more fluid, that will enhance aesthetic & creativity to fuel your teams motivation and efficiency.