



# Technical Documentation

## DTZ-P 2040 TURNTABLE

Each serial number is unique to that specific unit and provides mk North America with complete order details.

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## 1 GENERAL INFORMATION

### 1.1 Foreword

Congratulations on purchasing a turntable from mk North America, Inc., a leading manufacturer of quality low profile conveyors and turntables. Our more than 30 years experience in material handling allows us to offer robust solutions with long life and reliable operation. We strive to make the best products in the industry even better and we are committed to making sure our customers get top notch support before, during, and after each and every sale.

### 1.2 The importance of reading your manual

Inside this manual you will find the instructions on how to set up and maintain your mk turntable properly, as well as maximize its performance. Please take the time to read this manual and familiarize yourself with these set up and maintenance instructions. These instructions will help assure a long product life that requires a minimum amount of service and keeps your turntable working at its maximum capacity.

### 1.3 If you need assistance

If you need assistance there are a variety of ways to get it. You can contact our customer service team Monday through Friday, 8am-5pm (Eastern Time) at (860) 769-5500. You can also visit our website for additional information and technical documentation at [www.mknorthamerica.com](http://www.mknorthamerica.com). In addition, your local representative can provide support in many instances.

### 1.4 When your shipment arrives

- 1) Check your shipment
  - a) If you have not already done so, visually inspect the shipping crate/container for any damage caused during shipment.
  - b) Carefully unpack the crate/container making sure to inspect the components for damage that may have occurred inside the packaging materials.
  - c) If you find any damage, please contact the carrier and mk North America, Inc.
  - d) Lastly, check the contents against the packing slip provided by mk for any discrepancies. If you should find any, please contact mk North America, Inc.
- 2) Locate your ordered items
  - a) Each mk turntable will ship in its own custom built container, carefully packaged in the most economical way.
  - b) Review the packing slip against your Purchase Order.

# Technical Documentation DTZ-P 2040

## 2 SERIAL NUMBER LABEL

- The turntable's serial number is located on the frame at the drive end of the turntable.

	Type:		Date:	
	Serial #:		CO #:	
	Drawing #:			
	www.mknorthamerica.com    (860) 769-5500			Scan for Documentation

### Type:

This description refers to the type of unit that is associated with the particular serial number. The type should NOT be substituted for the serial number when inquiring.

### Serial #:

This number is unique to this item. With this number we can access all of the original order details.

### Drawing #:

This number, if applicable, refers to the specific drawing that was created for this unit.

### Date:

This is the date that the unit was scheduled to ship.

### CO#:

This is the customer order number in which this unit was built. This is an mk North America, Inc. internal number. This number is also referenced on any related invoices, etc.

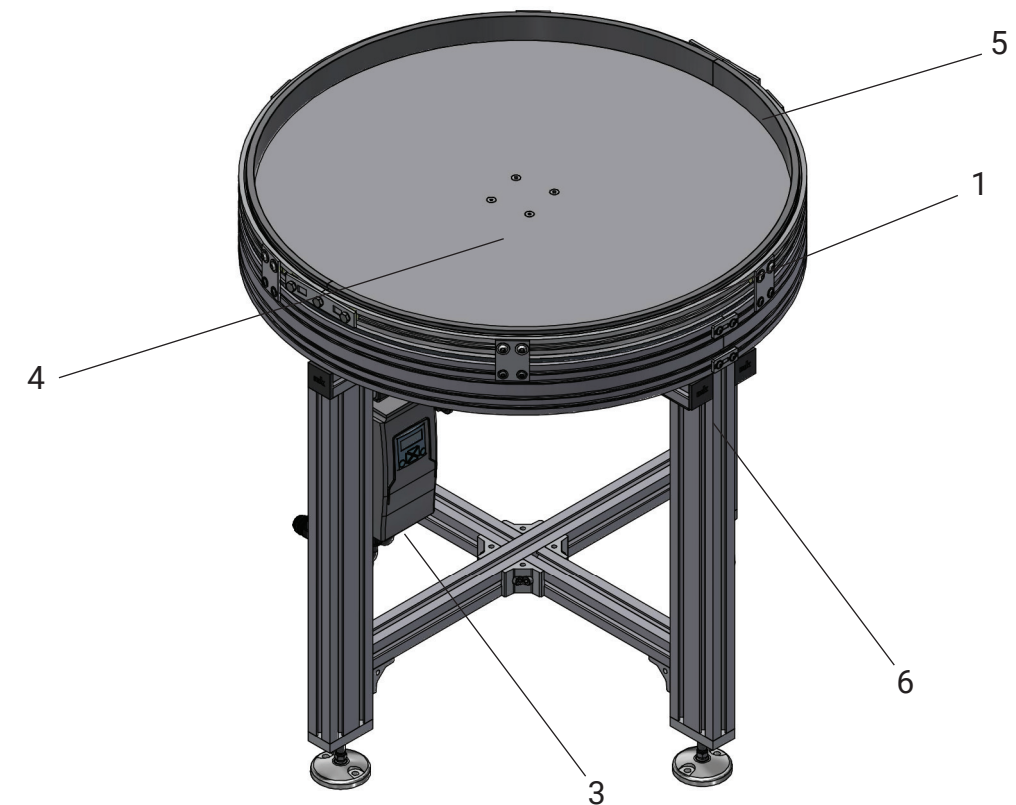
### Scan for Documentation:

Scanning this QR code will bring you to a webpage specific for the turntable on this order. From here you can access drawings and spare parts.

## 3 TURNTABLE DESCRIPTION

### 3.2 Turntable Components

The DTZ-P 2040 has many typical turntable components. Below is a description of the basic parts and options for the DTZ-P 2040 turntable. The items you receive will vary based on your actual purchase order. Items may appear different on your model based on your particular order requirements. Consult your approval drawing for specifics items included in your order.



### Typical Components

- 1) Turntable Frame
- 2) Gearmotor (not shown)
- 3) Speed Control
- 4) Table surface
- 5) Side Rails
- 6) Support Stand

*Your model will vary.*

## 4 WARRANTY INFORMATION

### Warranty

mk North America, Inc. (MKNA) offers a COMPLETE ONE YEAR WARRANTY from the date of delivery, to the original purchaser of the MKNA equipment (CUSTOMER), to be free from defects in material and workmanship; under normal use and with proper installation, maintenance and cleaning.

Additionally MKNA offers a LIMITED 10 YEAR WARRANTY on all equipment that MKNA is the original manufacturer of, to be free from defect and workmanship.<sup>1</sup>

This warranty is extended by MKNA only to CUSTOMER, and is non-transferable. All warranty requests shall be made by CUSTOMER.

MKNA will replace or repair, at our factory or any other location we designate<sup>2</sup>, any defective part within the warranty period and without charge. It is at MKNA's sole discretion whether to repair or replace. CUSTOMER will provide MKNA with a prompt written notice of the defect, including the serial number of the unit (when applicable) and the date of delivery.

At MKNA's request CUSTOMER will return all defective parts for evaluation at MKNA. MKNA will provide CUSTOMER with a return goods authorization number (RGA#). No parts will be returned without a RGA#. The RGA# must clearly be marked on all labels, packages and packing slips.

CUSTOMER shall pay all costs for packaging, shipping, duties and/or any other related costs in the sending or receiving of parts. CUSTOMER is responsible for all labor associated with sending or receiving of parts.

MKNA PROVIDES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; UNLESS IT IS AGREED TO BY MKNA AND CUSTOMER IN WRITING PRIOR TO PLACEMENT OF ORDER. Such agreement requires approval of MKNA Management.

UNDER NO CIRCUMSTANCES SHALL MKNA BE HELD LIABLE FOR DAMAGES OR LIABILITY FOR LOSS OF PRODUCTION, PRODUCT, EQUIPMENT OR PROFITS OR LIABILITY FOR DIRECT, INCIDENTAL, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES TO PERSONS OR PROPERTY, WHATSOEVER. CUSTOMER agrees that it is their sole remedy for liability of any kind, including negligence with respect to the equipment and services furnished by MKNA shall be limited to the remedies provided herein. This warranty shall not apply to any failure of the unit or its components caused by lack of maintenance and/or improper maintenance, incorrect adjustments, misuse or unreasonable use or exposure to chemicals and/or environments which the unit is not designed for. Unauthorized modification of the unit or the use of non-MKNA replacement parts and building components voids this warranty.

<sup>1</sup> The limited 10 year warranty does not apply to equipment and components manufactured by others. Such equipment and components are subject to any limitation contained in the original manufacturer's warranty and include, but are not limited to: bearings, belts, casters, controllers, motors and pneumatic devices.

<sup>2</sup> No work will be performed by MKNA or an MKNA factory authorized service representative at the site of installation unless in MKNA's opinion it is impractical for Customer to remove and return the defective part to MKNA's factory.

EXCEPT AS EXPRESSLY STATED HEREIN, THERE ARE NO WARRANTIES, EXPRESSED OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, OF THE EQUIPMENT OR SERVICES FURNISHED BY MKNA OR FACTORY AUTHORIZED SERVICE REPRESENTATIVE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.

mk North America, Inc. reserves the right to change, modify or discontinue products and/or specifications with or without notice.

All of mk North America, Inc. products are covered by this warranty.

## 5 SAFETY REQUIREMENTS

### 5.1 Warnings - Safety Guidelines

**READ AND UNDERSTAND ALL OF THESE WARNINGS PRIOR TO OPERATING EQUIPMENT.**

<p><b>CAUTION</b></p>  <p>Read this manual before operating conveyors.</p>	<p><b>CAUTION</b></p>  <p>Never operate or service equipment under the influence of drugs and/or alcohol.</p>	<p><b>CAUTION</b></p>  <p>Lock out power before servicing the conveyor.</p>	<p><b>WARNING</b></p>  <p>Do NOT operate conveyors without guards in place.</p> <p>Severe injury can occur.</p>
<p><b>IMPORTANT</b></p>  <p>Conveyors must be installed so that they are square and level – across the belt. Failure to install conveyors correctly may cause premature equipment failure and/or product damage.</p>	<p><b>WARNING</b></p>  <p>Do not operate conveyors in an explosive environment.</p>	<p><b>DANGER</b></p>  <p>Moving equipment can cause severe injury or death.</p> <p>Do NOT touch moving parts. Lock out power before servicing.</p>	<p><b>WARNING</b></p>  <p>Gearmotors will be hot. Do NOT touch.</p> <p>Severe injury can occur.</p>
<p><b>DANGER</b></p>  <p>Climbing, sitting, walking or riding on the conveyor at any time could result in severe injury or death.</p> <p>KEEP OFF!</p>	<p><b>DANGER</b></p>  <p>Always support conveyor sections prior to loosening stands or supports. Loosening stands or supports can cause the conveyor to fall creating a crush hazard.</p>		

## 5 SAFETY REQUIREMENTS

(CONT.)

### NOTICE



All work should be done by qualified professionals. This includes electricians for all wiring.

## 6 MAINTENANCE

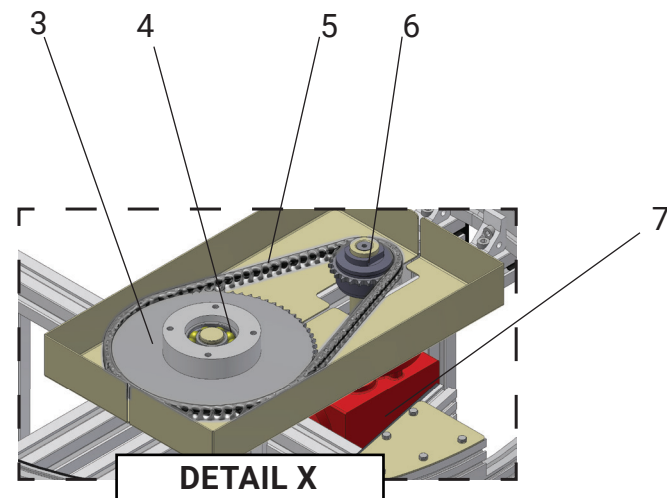
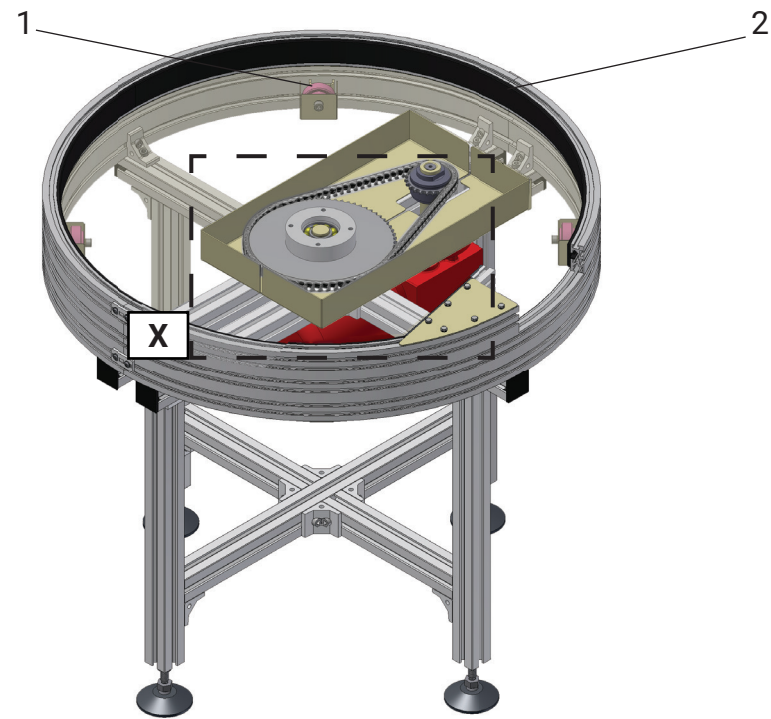
### 6.1 Important Notes About Maintenance

The following information regarding life of the wear items and service or adjustment intervals of the functional elements are only GUIDELINES. Turntables are application-specific products whose life expectancy can vary depending on their relative loads and speeds, and which can be significantly influenced by environmental factors.

- All moving components and screw connections should be checked every 6 months.
- All safety-relevant components should be part of a regularly scheduled weekly inspection
- The proper function of these components must be confirmed at all times.
- Do NOT operate turntables if safety-relevant components are damaged or missing.
- All parts which contact the product should be cleaned weekly (example: table surface).
- The table surface require little special care. It is easily cleaned using lukewarm soapy water.

6 MAINTENANCE (CONT.)

6.2 DTZ-P 2040



NOTE: Not all items shown in all views for clarity.

(Cont.)

6 MAINTENANCE (CONT.)


6.2 DTZ-P 2040 (Cont.)

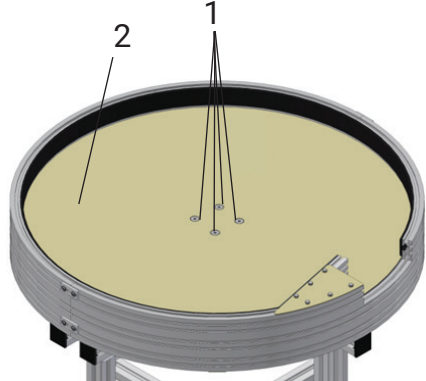
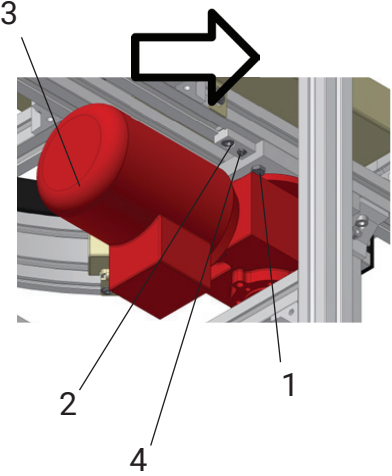
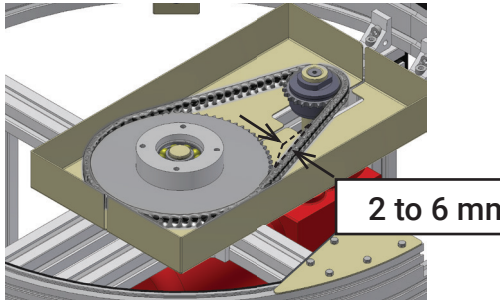
Position	Description	Action*	Interval in Hours (Months)	Lubricant
1	Roller	I, C	1,000 Hours (max. 6 Months)	
		R	If wear visible	
2	Wear Strip	I, C	1,000 Hours (max. 6 Months)	
		R	If wear visible	
3	Sprocket	I, C	500 Hours (max. 3 Months)	
		R	If wear visible	
4	Bearing	I	1,000 Hours (max. 6 Months)	
		R	If wear visible	
5	Chain	I, C, L, T	500 Hours (max. 3 Months)	White Chain Oil
		R	If wear visible	
6	Sprocket / Sliding Hub	I, C	Service & maintenance per manufacturer's documentation	
7	Motor	I, C	Service & maintenance per manufacturer's documentation	

\* LEGEND: *Inspect, Replace, Tension, Clean, Lubricate (grease).*




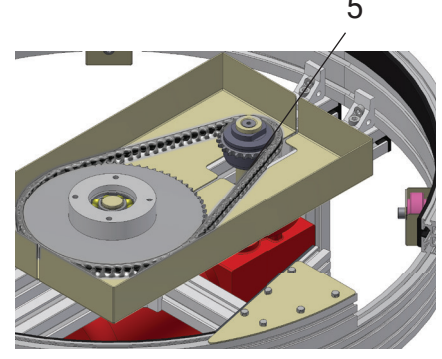
7 TENSIONING & LUBRICATING THE DRIVE CHAIN


 All work to be performed by qualified personnel only.  
Turntable power must be disconnected before replacing belt.

<p><u>Tensioning the Drive Chain, Step 1</u></p> <ul style="list-style-type: none"> <li>Remove all accessories which may interfere with the remove of the turntable top (2)</li> <li>Loosen and remove screws (1)</li> <li>Remove the turntable top (2)</li> </ul>	
<p><u>Tensioning the Drive Chain, Step 2</u> WORK FROM THE UNDER SIDE OF THE TURNTABLE</p> <ul style="list-style-type: none"> <li>Loosen, but do not remove, screw (1) in four places (one location shown)</li> <li>Loosen screw (2)</li> <li>Push the motor (3) along with tensioning element, in the direction of the arrow. This will place tension on the chain. Do not over tension, see NOTE 1 (below)</li> <li>Tighten screw (2)</li> <li>As needed use threaded pin (4) for fine tuning the chain tension</li> <li>Tighten screw (1) all four places</li> </ul>	
<p><u>Tensioning the Drive Chain, NOTE 1</u></p> <p>Do not over tension the drive chain, it must always have between 2 and 6 mm of play.</p>	

7 TENSIONING & LUBRICATING THE DRIVE CHAIN (CONT.)

 All work to be performed by qualified personnel only.  
Turntable power must be disconnected before replacing belt.

<p><u>Lubricating the Drive Chain</u></p> <ul style="list-style-type: none"> <li>Complete Step 1 from Tensioning the Drive Chain</li> <li>Use white chain oil to lubricate the drive chain (5)</li> <li>The oil must be applied using a brush to the edge of the chain, to ensure the lubricant enters the chain links</li> </ul>	
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 Reassemble in reverse order. Ensure all screws are tight.  
Do NOT power on until reassembly is complete.

8 CONTACT INFORMATION

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