

## 3 Station Automatic Park out Tablet Disintegration Tester – ToronPharma – 3PO

### Features:

- Complies With Usp, Ph, Ph. Eur. Specifications.
- Basket Park-Out From Beaker.
- Unique Camless Drive
- Print Report Of Test Results And Validation
- Individual Motor And Timer With External Probe For Each Basket.
- Moulded Bath With Slide-Up Cover.
- Ergonomically Designed And Magnetically Coupled Basket For Easy Loading.
- Lan Connectivity For Data Transfer To A Computer

### Standard Accessory Included:

- Heater, stirrer and level sensor ( Qty. 1)
- Acrylic moulded water bath (Qty.1)
- 1000 ml glass beaker (Qty.2)
- 6 tube magnetic basket (Qty.2)
- Guided discs (Qty.12)
- External probe with clamp (Qty.2)
- Keyboard ( Qty. 1)

### Optional accessory:

- 3 tube basket assembly (Qty. 3)
- 1 tube basket assembly (Qty.3)
- Magnetic guided disc (Qty.12)
- Printer (Epson LX-310) (Qty. 1)
- Deconex 12 basic - (20 bottles of 500 ml) (Qty.1)  
(deconex is a proven disinfectant solution. Also, it contains special cleaning agents which make cleaning of the bath easier to perform and provide secondary protection to all components exposed to recirculation flow)
- Validation Kit

**IQ / OQ documents are available**



| Part #            | Description  |
|-------------------|--|
| ToronPharma – 3PO | <b>3 Station Automatic Park out Tablet Disintegration Tester</b>   |
|                   | <b>Features:</b>   |
|                   | <ul style="list-style-type: none"> <li>• Complies With Usp, Ph, Ph. Eur. Specifications.</li> <li>• Basket Park-Out From Beaker.</li> <li>• Unique Camless Drive</li> <li>• Print Report Of Test Results And Validation</li> <li>• Individual Motor And Timer With External Probe For Each Basket.</li> <li>• Moulded Bath With Slide-Up Cover.</li> <li>• Ergonomically Designed And Magnetically Coupled Basket For Easy Loading.</li> <li>• Lan Connectivity For Data Transfer To A Computer</li> </ul> |
|                   | <b>Standard Accessory Included:</b>  |
|                   | <ul style="list-style-type: none"> <li>• Heater, stirrer and level sensor ( Qty. 1)</li> <li>• Acrylic moulded water bath (Qty.1)</li> <li>• 1000 ml glass beaker (Qty.2)</li> <li>• 6 tube magnetic basket (Qty.2)</li> <li>• Guided discs (Qty.12)</li> <li>• External probe with clamp (Qty.2)</li> <li>• Keyboard ( Qty. 1)</li> </ul>   |
|                   | <b>Optional accessory:</b>   |
| TP-SAP001         | 3 tube basket assembly (Qty. 3)  |
| TP-SAP002         | 1 tube basket assembly (Qty.3)   |
| TDT-003           | Magnetic guided disc (Qty.12)  |
| TP-SAP004         | Printer (Epson LX-310) (Qty. 1)  |
|                   | Deconex 12 basic - (20 bottles of 500 ml) (Qty.1)<br>(deconex is a proven disinfectant solution. Also, it contains special cleaning agents which make cleaning of the bath easier to perform and provide secondary protection to all components exposed to recirculation flow)   |
|                   | Validation Kit   |
| TT-002            | <b>IQ / OQ documents</b>   |

<http://www.torontech.com/pharmaceutical/disintegration-testers>

# Torontech Disintegration Testers



## 2 Station Semi Automatic Park Out Disintegration Tester – ToronPharma - 2SAPO

### Features:

- Complies with USP, IP, EP, Ph. Eur. specifications
- Disintegration time registration of individual tablets
- Basket park-out from beaker on test completion
- Test results and validation gets printed
- Individual motor and timer with external probe for both the baskets
- Bath with flip-top cover for easy cleaning
- Magnetically coupled basket for easy loading



### Specifications

|                              |  |
|------------------------------|--|
| Water bath                   | Clear acrylic moulded water bath   |
| Beaker                       | 1000 ml glass beakers (2 nos.)   |
| Baskets                      | 2 nos. each carrying 6 test position (dimensions as per latest USP)              |
| Guided disc                  | Perforated cylindrical disc 6 nos. in each basket (dimensions as per latest USP) |
| Display                      | 20 x 4 LCD   |
| Printer interface            | Centronics parallel port   |
| Motor                        | Single shaft 6V DC motor 10 kg cm torque (2 nos.)                                |
| Heater                       | 400 watts, S.S. 304  |
| Illumination                 | White LED  |
| Stirrer motor                | DC motor 12V   |
| Water level sensor           | Float switch type level sensor   |
| Power supply                 | 110 V AC, 60 Hz, 490 VA  |
| No. of strokes               | 30 +0.5 strokes/min  |
| Stroke height                | 55 mm +2 mm  |
| Readable temperature range   | 10o C to 45o C   |
| Controlled temperature range | 15o C to 40o C   |
| Temperature resolution       | +0.2o C  |
| Timer setting                | 23 hrs 59 min. 59 sec. (for both baskets)  |
| Dimensions (L x W x H)       | (360 x 372 x 570) mm   |
| Weight                       | Net 25 kgs - Gross 30 kgs  |

### Standard Accessory Included:

- Heater, stirrer and level sensor (Qty. 1)
- Acrylic moulded water bath (Qty. 1)
- 1000 ml glass beaker (Qty. 2)
- 6 tube magnetic basket (Qty. 2)
- Guided disc (Qty. 12)
- External probe with clamp (Qty. 2)
- Keyboard (Qty. 1)

### Optional accessory:

- 3 tube basket assembly (Qty. 2)
  - 1 tube basket assembly (Qty. 2)
  - Magnetic guided disc (Qty. 12)
  - Printer (Epson LX-310) (Qty. 1)
  - Deconex 12 basic - (20 bottles of 500 ml) (Qty. 1)
- (deconex is a proven disinfectant solution. Also, it contains special cleaning agents which make cleaning of the bath easier to perform and provide secondary protection to all components exposed to recirculation flow)
- Validation Kit (Qty. 1)

**IQ / OQ documents are available**

| Part #              | Description   |
|---------------------|---|
| ToronPharma - 2SAPO | <b>2 Station Semi Automatic Park Out Disintegration Tester</b>  |
|                     | <b>Features:</b>  |
|                     | <ul style="list-style-type: none"> <li>• Complies with USP, IP, EP, Ph. Eur. specifications</li> <li>• Disintegration time registration of individual tablets</li> <li>• Basket park-out from beaker on test completion</li> <li>• Test results and validation gets printed</li> <li>• Individual motor and timer with external probe for both the baskets</li> <li>• Bath with flip-top cover for easy cleaning</li> <li>• Magnetically coupled basket for easy loading</li> </ul> |



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| Standard Accessory Included: |  |
|------------------------------|--|
|                              | <ul style="list-style-type: none"> <li>• Heater, stirrer and level sensor (Qty. 1)</li> <li>• Acrylic moulded water bath (Qty. 1)</li> <li>• 1000 ml glass beaker (Qty. 2)</li> <li>• 6 tube magnetic basket (Qty. 2)</li> <li>• Guided disc (Qty. 12)</li> <li>• External probe with clamp (Qty. 2)</li> <li>• Keyboard (Qty. 1)</li> </ul> |
| Optional accessory:          |  |
| <b>TP-SAP001</b>             | 3 tube basket assembly (Qty. 2)  |
| <b>TP-SAP002</b>             | 1 tube basket assembly (Qty. 2)  |
| <b>TDT-003</b>               | Magnetic guided disc (Qty. 12)   |
| <b>TP-SAP004</b>             | Printer (Epson LX-310) (Qty. 1)<br>Deconex 12 basic - (20 bottles of 500 ml) (Qty. 1)<br>(deconex is a proven disinfectant solution. Also, it contains special cleaning agents which make cleaning of the bath easier to perform and provide secondary protection to all components exposed to recirculation flow)                           |
| <b>TP-SAP006</b>             | Validation Kit (Qty. 1)  |
| <b>TT-001</b>                | IQ / OQ documents  |

## 2 Station Disintegration Tester – ToronPharma – DT2AL

### Features:

- Complies with USP, IP and Ph. Eur. specifications
- Supports 2 USP baskets
- Each basket is controlled by independent timer and motor
- Snap-click™ loading and a swivel free basket movement
- Green illumination for better visibility of disintegration process
- Programmable temperature controller
- Auto parking of the baskets at the top position at the end of the test
- Ergonomically designed splash proof panel
- External probe for beaker temperature validation
- Dual range timer
- Maintenance-free smooth drive



### Specifications

|                               |  |
|-------------------------------|--|
| <b>Physical parameter</b>     |  |
| Number of baskets             | 2  |
| Number of strokes             | 30 +0.5 strokes/minute                         |
| Stroke length                 | 55 mm +2 mm                                    |
| Number of tubes per basket    | 6  |
| <b>Drive</b>                  |  |
| No. of motors                 | 2  |
| Motor type                    | DC stepper motor of 6V DC and 3.5 kg cm torque |
| <b>Temperature controller</b> |  |
| Range                         | 20o C to 39.9o C                               |
| Control accuracy              | + 0.2o C                                       |
| Resolution                    | 0.1o C   |
| Display                       | 3 digit LED                                    |
| Heater                        | 400 watts-S.S. 304                             |
| Sensor                        | RTD  |
| <b>Timer</b>                  |  |
| No. of timers                 | 2  |
| Range 1                       | 1 sec. to 59 min. 59 sec.                      |
| Range 2                       | 1 min. to 9 hrs. 59 min.                       |
| Display                       | 4 digit LED each                               |
| Power supply                  | 110 VAC, 60 Hz, 500 VA                         |
| Dimensions (L x W x H)        | (350 x 390 x 510) mm                           |
| Weight                        | Net 23 kgs- Gross 32 kgs                       |

<http://www.torontech.com/pharmaceutical/disintegration-testers>

### Standard Accessory Included:

- Acrylic water bath with heater and sensor (Qty.1)
- Glass beaker (Qty.2)
- 6 tube basket assembly (Qty.2)
- Guided discs (Qty.12)
- External probe (Qty.1)

### Optional accessory:

- 3 tube basket assembly (Qty. 2)
- 1 tube bolus basket (Qty.2)
- Magnetic guided disc (Qty.12)
- Disc handling device for 6 tube basket assembly (Qty.1)
- Deconex 12 basic - (20 bottles of 500 ml) (Qty.1)

(deconex is a proven disinfectant solution. Also, it contains special cleaning agents which make cleaning of the bath easier to perform and provide secondary protection to all components exposed to recirculation flow)

**IQ / OQ documents are available**



| Part #              | Description   |
|---------------------|---|
| ToronPharma – DT2AL | <b>2 Station Disintegration Tester</b>  |
|                     | <b>Features:</b>  |
|                     | <ul style="list-style-type: none"> <li>• Complies with USP, IP and Ph. Eur. specifications</li> <li>• Supports 2 USP baskets</li> <li>• Each basket is controlled by independent timer and motor</li> <li>• Snap-click™ loading and a swivel free basket movement</li> <li>• Green illumination for better visibility of disintegration process</li> <li>• Programmable temperature controller</li> <li>• Auto parking of the baskets at the top position at the end of the test</li> <li>• Ergonomically designed splash proof panel</li> <li>• External probe for beaker temperature validation</li> <li>• Dual range timer</li> <li>• Maintenance-free smooth drive</li> </ul> |
|                     | <b>Standard Accessory Included:</b>   |
|                     | <ul style="list-style-type: none"> <li>• Acrylic water bath with heater and sensor (Qty.1)</li> <li>• Glass beaker (Qty.2)</li> <li>• 6 tube basket assembly (Qty.2)</li> <li>• Guided discs (Qty.12)</li> <li>• External probe (Qty.1)</li> </ul>  |
|                     | <b>Standard Accessory Included:</b>   |
| <b>TDT-001</b>      | 3 tube basket assembly (Qty. 2)   |
| <b>TDT-002</b>      | 1 tube bolus basket (Qty.2)   |
| <b>TDT-003</b>      | Magnetic guided disc (Qty.12)   |
| <b>TDT-004</b>      | Disc handling device for 6 tube basket assembly (Qty.1)<br>Deconex 12 basic - (20 bottles of 500 ml) (Qty.1)<br>(deconex is a proven disinfectant solution. Also, it contains special cleaning agents which make cleaning of the bath easier to perform and provide secondary protection to all components exposed to recirculation flow)   |
| <b>TT-001</b>       | <b>IQ / OQ documents</b>  |

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## 2 Station Disintegration Tester – ToronPharma – DT2L

### Features:

- Complies with USP, IP and Ph. Eur. specifications
- Parking of the baskets at the top position at the end of the test with alarm
- External probe for beaker temperature validation
- Programmable temperature controller
- Green illumination for better visibility
- Programmable timer with dual range in min-sec and in hrs-min
- Snap-click™ loading and a swivel free baskets movement
- Maintenance-free smooth drive
- Suitable for veterinary tablets also



### Specifications

|                              |  |
|------------------------------|--|
| No. of stroke                | 30 +1 stroke/minute  |
| Stroke height                | 55 mm +2 mm  |
| Motor                        | DC stepper motor of 6V DC and 3.5 kg cm torque                               |
| No. of baskets               | 2 nos. (Each having 6 test tubes)  |
| Water bath                   | 6 mm thick transparent acrylic   |
| Heater                       | 400 watts, S.S. 304  |
| Temperature range            | 20o C to 39.9o C   |
| Temperature resolution       | 0.1o C   |
| Temperature control accuracy | +0.5o C  |
| Timer                        | Range 1- 1 sec. to 99 min. & 59 sec.      Range 2- 1 min. to 9 hrs & 59 min. |
| Timer resolution             | Range 1- 1 sec.  |
| Power supply                 | 110 VAC, 60 Hz, 500 VA   |
| Dimensions (L x W x H)       | (350 x 390 x 510) mm (approx.)   |
| Weight                       | Net 23 kgs      Gross 28 kgs   |

### Standard Accessory Included:

- Acrylic water bath with heater and sensor (Qty.1)
- 1000 ml glass beaker (Qty.2)
- 6 tube basket assembly for bolus baskets (Qty.2)
- Guided discs (Qty.6)
- External probe (Qty.1)

### Optional accessory:

- 3 tube basket assembly (Qty. 2)
- 1 tube bolus basket (Qty.2)
- Magnetic guided disc (Qty.12)
- Disc handling device for 6 tube basket assembly (Qty.1)
- Deconex 12 basic - (20 bottles of 500 ml) (Qty.1)

(deconex is a proven disinfectant solution. Also, it contains special cleaning agents which make cleaning of the bath easier to perform and provide secondary protection to all components exposed to recirculation flow)

**IQ / OQ documents are available**

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| Part #             | Description   |
|--------------------|---|
| ToronPharma – DT2L | <b>2 Station Disintegration Tester</b>  |
|                    | <b>Features:</b>  |
|                    | <ul style="list-style-type: none"> <li>• Complies with USP, IP and Ph. Eur. specifications</li> <li>• Parking of the baskets at the top position at the end of the test with alarm</li> <li>• External probe for beaker temperature validation</li> <li>• Programmable temperature controller</li> <li>• Green illumination for better visibility</li> <li>• Programmable timer with dual range in min-sec and in hrs-min</li> <li>• Snap-click™ loading and a swivel free baskets movement</li> <li>• Maintenance-free smooth drive</li> <li>• Suitable for veterinary tablets also</li> </ul> |
|                    | <b>Standard Accessory Included:</b>   |
|                    | <ul style="list-style-type: none"> <li>• Acrylic water bath with heater and sensor (Qty.1)</li> <li>• 1000 ml glass beaker (Qty.2)</li> <li>• 6 tube basket assembly for bolus baskets (Qty.2)</li> <li>• Guided discs (Qty.6)</li> <li>• External probe (Qty.1)</li> </ul>   |
|                    | <b>Optional accessory:</b>  |
| TDT-001            | 3 tube basket assembly (Qty. 2)   |
| TDT-002            | 1 tube bolus basket (Qty.2)   |
| TDT-003            | Magnetic guided disc (Qty.12)   |
| TDT-004            | Disc handling device for 6 tube basket assembly (Qty.1)   |
| TT-001             | Deconex 12 basic - (20 bottles of 500 ml) (Qty.1)<br>(deconex is a proven disinfectant solution. Also, it contains special cleaning agents which make cleaning of the bath easier to perform and provide secondary protection to all components exposed to recirculation flow)  |

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