## **Automatic Powder Dispensing**

for Precise Sample Preparation

Automated dosing with the Quantos powder dosing module, autosampler and HPD enables you to achieve the highest level of accuracy and safety in sample preparation. In just a few seconds, Quantos can automatically weigh out as little as 1 mg or up to several grams of free-flowing powder directly into your target vessel. The minimum sample weight of your balance can be reduced by up to 30%. Nanoparticles, fine powders, granules and heterogeneous mixes are suitable for dispensing.

Quantos dosing heads have been designed to handle a range of different powder characteristics. Use the table overleaf to select the heads which best suit the different characteristics of your substances.



www.mt.com/Quantos

For more information

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# **Keep Substances Contained** Simple and Safe Storage Solutions

To avoid cross-contamination, one powder dosing head is dedicated to one substance or lot number for the duration of its lifetime. The dosing head is simply attached to the storage vial and samples are identified safely via the built-in RFID chip.



The optional transport/storage boxes protect your dosing heads when not in use and ensure that valuable and toxic substances remain safe. The transport container is impact resistant and water tight for safe storage.

|              | Transportbox large                                   | Transportbox small                                  |  |  |  |  |  |
|--------------|--|---|--|--|--|--|--|
|              |  |   |  |  |  |  |  |
| Description* | Transport boxes with 120 ml storage vials. Set of 10 | Transport boxes with 16 ml storage vials. Set of 10 |  |  |  |  |  |
| Dosing Head  | QH012  | QH008   |  |  |  |  |  |
| Part no      | 30036965   | 30139824  |  |  |  |  |  |

\* For compatible dosing heads, please see the selection table

### The Easy Way to Get Started

Our starter kit contains a selection of dosing heads for you to determine which heads best suit your different samples.

Starterkit (30132792): Set of 8 dosing heads

| 1 x QH008-BNMW | 1 x QH002-CNMW |
|----------------|----------------|
| 1 x QH008-BNMP | 1 x QH012-LNCT |
| 1 x QH012-LNLW | 1 x QH010-CNMW |
| 1 x QH012-LNLT | 1 x QH012-LNJW |

### www.mt.com/dosing-heads



# **Quantos Dosing Heads Selection Guide**

**METTLER TOLEDO** 

# **Quantos Dosing Heads Overview**

|                            |  | Standard Dosing Heads   |   |   |  | Special Dosing Heads   |  |   |  |   |   |   |                                       |
|----------------------------|--|---|---|---|--|--|--|---|--|---|---|---|---------------------------------------|
|                            |  |   |   |   | 7  |  |  |   |  |   |   |   |                                       |
| Powder Cha                 | racteristics   | <b>QH008-BNMW</b><br>Ø2.5 mm dosing pin<br>with pushing stirrer | <b>QH012-LNMW</b><br>Ø2.5 mm dosing pin<br>with pushing stirrer | <b>QH012-LNLW</b><br>Ø4.0 mm dosing pin<br>with pushing stirrer | <b>QH012-LNJW</b><br>Ø6.5 mm dosing<br>pin with fixed pad-<br>dles stirrer | <b>QH002-CNMW</b><br>Ø2.5 mm dosing<br>pin with fixed pad-<br>dles stirrer | <b>QH010-CNMW</b><br>Ø2.5 mm dosing<br>pin with fixed pad-<br>dles stirrer | <b>QH008-BNMP</b><br>Ø2.5 mm dosing pin<br>with pushing stirrer<br>Pinocchio 1mm nose | <b>QH012-LNMP</b><br>Ø2.5 mm dosing pin<br>with pushing stirrer<br>Pinocchio 1mm nos | <b>QH012-LNCT</b><br>Ø4.0 mm dosing pin<br>with loosening stirrer | <b>QH012-LNLT</b><br>Ø4.0 mm dosing pin<br>with loosening stirrer | <b>QH012-LNMX</b><br>Ø2.5 mm dosing pin | <b>QH012-LNLX</b><br>Ø4 mm dosing pin |
| Flowability                | Fast/free flowing  | •   | •   | •   | •  | •  | •  | •   | •  |   |   | •                                       | •                                     |
|                            | Slow/poor flowing  | •   | •   | •   |  |  |  |   |  | •   | •   |   |                                       |
| Target Dose                | 0.1 mg – 200 mg  | •   | •   |   |  | •  | •  | •   | •  |   |   | •                                       |                                       |
|                            | 200 mg – 1 g   |   |   | •   |  |  |  |   |  | •   | •   |   | •                                     |
|                            | 1 g – 8 g  |   |   |   | •  |  |  |   |  | •   |   |   |                                       |
| Particle Size              | Large > 1 mm   |   |   | •   | •  |  |  |   |  | •   | •   |   | •                                     |
|                            | Medium ~1 mm   | •   | •   | •   | •  | •  | •  | •   | •  | •   | •   | •                                       | •                                     |
|                            | Fine > 300 nm  | •   | •   |   |  | •  | •  | •   | •  |   |   | •                                       |                                       |
| Optical<br>Characteristics | Very low density / fluffy / lyophilisates                            |   |   |   | •  |  |  |   |  | •   |   |   |                                       |
|                            | Pellets / beads / coated particles                                   |   |   |   | •  |  |  |   |  |   |   |   | •                                     |
|                            | Compacting   |   |   |   |  |  |  |   |  | •   | •   |   |                                       |
|                            | High density   | •   | •   |   |  | •  | •  |   |  |   |   | •                                       |                                       |
|                            | Slightly sticky  |   |   | •   | •  |  |  |   |  | •   |   |   |                                       |
|                            | Electrostatically charged  |   |   |   | •  | •  | •  |   |  |   |   |   |                                       |
| Product<br>Specifications  | Part no (Package quantity)   | 11141533 (10)   | 11141532 (10)   | 11150145 (10)   | 30366317 (10)  | 30083440 (30)<br>30098264 (90)<br>30244518 (500)                           | 30132790 (10)<br>30132791 (40)<br>30046355 (150)                           | 11150120 (10)   | 11150118 (10)  | 11150171 (10)   | 11150170 (10)   | 30112276 (10)                           | 11150155 (10)                         |
|                            | Maximum capacity   | 8 ml  | 12 ml   | 12 ml   | 12 ml  | 2 mL (fill to maximal 2/3 capacity)  | 10 ml  | 8 ml  | 12 ml  | 12ml  | 12ml  | 8ml                                     | 12ml                                  |
|                            | FDA approved material  | •   | •   | •   |  |  |  | •   | •  | •   | •   | •                                       | •                                     |
|                            | Thread size  | 18-400 thread   | 38-400 thread   | 38-400 thread   | 38-400 thread  |  |  | 18-400 thread   | 38-400 thread  | 38-400 thread   | 38-400 thread   | 38-400 thread                           | 38-400 thread                         |
|                            | Minimum opening of target vial $\emptyset$ (mm)                      | 8   | 8   | 12  | 18   | 8  | 8  | 5   | 5  | 12  | 12  | 8                                       | 12                                    |
|                            | Recommended doses / max. doses                                       | 250 / 999   | 250 / 999   | 250 / 999   | 250 / 999  | 36 / 999   | 36 / 999   | 250 / 999   | 250 / 999  | 250 / 999   | 250 / 999   | 250 / 999                               | 250 / 999                             |
|                            | Set of 10 transport boxes with 10<br>16 ml storage vials (30139824)  | •   |   |   |  |  |  | •   |  |   |   |   |                                       |
|                            | Set of 10 transport boxes with 10<br>120 ml storage vials (30036965) |   | •   | •   | •  |  |  |   | •  | •   | •   | •                                       | •                                     |
|                            | Material   | POM, PMP, PP,<br>Stainless Steel                                | POM, PMP, PP,<br>Stainless Steel                                | POM, PMP, PP,<br>Stainless Steel                                | POM, PMP, PP   | PP   | PP   | POM, PMP, PP,<br>Stainless Steel  | POM, PMP, PP,<br>Stainless Steel   | POM, PMP, PP,<br>Stainless Steel                                  | POM, PMP, PP,<br>Stainless Steel                                  | POM, PMP, PP,<br>Stainless Steel        | POM, PMP, PP,<br>Stainless Steel      |







