



MEDIUM DUTY HOPPER TANK



CHIEF

- » Easy to install.
- » A cost effective solution built with superior strength.
- » Wide range of capacities adaptable for different applications, commodities, and more!

Trusted. Tested. True.®

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Standard V-Rib Roof Design

Chief's V-rib roof design uses over 30% more ribs than leading competitors, providing a cover of exceptional strength for smaller bins without a structured roof.



Legs

- Utilize strength of Chief's W stiffener
- 3 legs per sidewall sheet for MDHT 5, 6, and 7 models.
- Legs attached with grade 8, 7/16" (11.11 mm) hardware.
- Formed angle bracing for hopper and leg support.

Hopper

- Hopper panels are attached directly to the sidewall sheets.
- Round head bolts used on the hopper seams to minimize material hang up.
- Hopper sheet horizontal seams have an offset to minimize material hang up.
- Optional hopper access door available.



Sidewalls

- Chief's standard sidewall sheets are 116.625" (2962.275 mm) long, which provides more capacity when compared to a bin with 112.5" (2857.5 mm) long sheets.
- Chief's 4.7" (119.38 mm) wide corrugation minimizes material hang up on the walls.
- Chief's 42.5" (1079.5 mm) tall sheets require less fasteners compared to 32" (812.8 mm) tall sheets.
- All Chief vertical sidewall seams have two full rows of fasteners allowing for better sealing.
- Sheets with up to 70 ksi tensile strength steel.
- G115 (350 g/m²) galvanizing for stiffener and sidewall sheets and G140 (450 g/m²) roof sheet galvanizing.



Built in compression ring installed on MDHT 5, 6, and 7 above 6 rings tall

| Chief Diameter | Bin Model # | Height | | | | Estimated Storage Capacity | | | |
|---|-------------|------------|----------|---------------|-------------|----------------------------|--------------------------|-------------------------|------------------------|
| | | Eave (Ft.) | Eave (M) | Overall (Ft.) | Overall (M) | Filled to Peak (Bushels) | Filled to Peak (Cub. Ft) | Filled to Peak (Cub. M) | Filled to Peak (M Ton) |
| Diameter 15'6" (4.7m) 45 deg Hopper 30 Degree V-Rib Roof with 30" Peak Ring | MDHT 5-2 | 16' 11" | 5.1 | 21' 4" | 6.5 | 1665 | 1955 | 55 | 42 |
| | MDHT 5-3 | 20' 6" | 6.3 | 24' 10" | 7.6 | 2231 | 2620 | 74 | 57 |
| | MDHT 5-4 | 24' 1" | 7.3 | 28' 5" | 8.6 | 2797 | 3284 | 93 | 71 |
| | MDHT 5-5 | 27' 6" | 8.4 | 31' 11" | 9.7 | 3363 | 3948 | 112 | 85 |
| | MDHT 5-6 | 31' 1" | 9.5 | 35' 5" | 10.8 | 3929 | 4613 | 131 | 100 |
| | MDHT 5-7 | 35' 1" | 10.7 | 39' 5" | 12.0 | 4495 | 5278 | 149 | 114 |
| | MDHT 5-8 | 38' 7" | 11.0 | 42' 11" | 13.1 | 5124 | 6016 | 170 | 130 |
| | MDHT 5-9 | 42' 1" | 12.8 | 46' 5" | 14.2 | 5690 | 6680 | 189 | 145 |
| | MDHT 5-2 | 22' 1" | 6.7 | 26' 6" | 8.1 | 1942 | 2280 | 65 | 49 |
| Diameter 16'6" (4.7m) 60 deg Hopper 40 Degree Flat Panel Roof with 22" Peak Ring | MDHT 5-3 | 25' 8" | 7.8 | 30' 0" | 9.1 | 2507 | 2943 | 83 | 64 |
| | MDHT 5-4 | 29' 3" | 8.9 | 37' 1" | 11.3 | 3073 | 3608 | 102 | 78 |
| | MDHT 5-5 | 32' 8" | 10.0 | 37' 7" | 10.2 | 3639 | 4273 | 121 | 92 |
| | MDHT 5-6 | 36' 3" | 11.0 | 40' 7" | 12.4 | 4205 | 4937 | 140 | 107 |
| | MDHT 5-7 | 40' 3" | 12.3 | 44' 7" | 13.6 | 4771 | 5601 | 159 | 121 |
| | MDHT 5-8 | 43' 9" | 13.3 | 48' 1" | 14.7 | 5400 | 6340 | 180 | 137 |
| | MDHT 5-9 | 47' 3" | 14.4 | 51' 7" | 15.7 | 5966 | 7004 | 198 | 152 |
| | MDHT 6-2 | 18' 6" | 5.6 | 23' 9" | 7.2 | 2580 | 3029 | 86 | 66 |
| | MDHT 6-3 | 22' 0" | 6.7 | 27' 3" | 8.3 | 3395 | 3986 | 113 | 86 |
| Diameter 18'7" (5.7m) 45 deg Hopper 30 Degree V-Rib Roof with 30" Peak Ring | MDHT 6-4 | 25' 6" | 7.8 | 30' 10" | 9.4 | 4210 | 4943 | 140 | 107 |
| | MDHT 6-5 | 29' 0" | 8.9 | 34' 4" | 10.5 | 5025 | 5899 | 167 | 128 |
| | MDHT 6-6 | 32' 7" | 9.9 | 37' 11" | 11.5 | 5840 | 6856 | 194 | 148 |
| | MDHT 6-7 | 36' 6" | 11.1 | 41' 10" | 12.7 | 6746 | 7920 | 224 | 171 |
| | MDHT 6-8 | 40' 0" | 12.2 | 45' 4" | 13.8 | 7561 | 8877 | 251 | 192 |
| | MDHT 6-9 | 43' 7" | 13.3 | 48' 11" | 14.9 | 8376 | 9834 | 278 | 213 |
| | MDHT 7-3 | 23' 6" | 7.2 | 29' 9" | 9.1 | 4869 | 5716 | 162 | 124 |
| | MDHT 7-4 | 27' 1" | 8.2 | 33' 3" | 10.1 | 5978 | 7018 | 199 | 152 |
| | MDHT 7-5 | 30' 7" | 9.3 | 36' 10" | 11.2 | 7088 | 8321 | 236 | 180 |
| Diameter 21'8" (6.6m) 45 deg Hopper 30 Degree V-Rib Roof with 30" Peak Ring | MDHT 7-6 | 34' 1" | 10.4 | 40' 4" | 12.3 | 8197 | 9623 | 272 | 208 |
| | MDHT 7-7 | 38' 1" | 11.6 | 44' 3" | 13.5 | 9430 | 11071 | 313 | 240 |
| | MDHT 7-8 | 41' 7" | 12.7 | 47' 10" | 14.6 | 10539 | 12373 | 350 | 268 |
| | MDHT 7-9 | 45' 1" | 13.8 | 51' 4" | 15.6 | 11648 | 13675 | 387 | 296 |

| Even Diameter | Bin Model # | Height | | | | Estimated Storage Capacity | | | |
|---|-------------|------------|----------|---------------|-------------|----------------------------|--------------------------|-------------------------|------------------------|
| | | Eave (Ft.) | Eave (M) | Overall (Ft.) | Overall (M) | Filled to Peak (Bushels) | Filled to Peak (Cub. Ft) | Filled to Peak (Cub. M) | Filled to Peak (M Ton) |
| Diameter 15' (4.6m) 45 deg Hopper 30 Degree V-Rib Roof with 30" Peak Ring | MDHTE 5-2 | 16' 7" | 5.1 | 20' 10" | 6.4 | 1529 | 1795 | 51 | 39 |
| | MDHTE 5-3 | 20' 2" | 6.1 | 24' 5" | 7.4 | 2056 | 2414 | 68 | 52 |
| | MDHTE 5-4 | 23' 8" | 7.2 | 27' 11" | 8.5 | 2582 | 3031 | 86 | 66 |
| | MDHTE 5-5 | 27' 3" | 8.3 | 31' 6" | 9.6 | 3109 | 3650 | 103 | 79 |
| | MDHTE 5-6 | 30' 9" | 9.4 | 35' 0" | 10.7 | 3635 | 4268 | 121 | 92 |
| | MDHTE 5-7 | 34' 8" | 10.6 | 38' 11" | 11.9 | 4162 | 4886 | 138 | 106 |
| | MDHTE 5-8 | 38' 3" | 11.6 | 42' 6" | 12.9 | 4747 | 5573 | 158 | 121 |
| | MDHTE 5-9 | 41' 9" | 12.7 | 46' 0" | 14.0 | 5274 | 6192 | 175 | 134 |
| | MDHTE 5-2 | 21' 9" | 6.6 | 26' 0" | 7.9 | 1776 | 2085 | 59 | 45 |
| Diameter 15' (4.6m) 60 deg Hopper 40 Degree Flat Panel Roof with 22" Peak Ring | MDHTE 5-3 | 25' 4" | 7.7 | 29' 7" | 9.0 | 2302 | 2703 | 77 | 58 |
| | MDHTE 5-4 | 28' 10" | 8.8 | 33' 1" | 10.1 | 2829 | 3321 | 94 | 72 |
| | MDHTE 5-5 | 32' 5" | 9.9 | 36' 8" | 11.2 | 3356 | 3940 | 112 | 85 |
| | MDHTE 5-6 | 35' 11" | 10.9 | 40' 2" | 12.2 | 3882 | 4558 | 129 | 99 |
| | MDHTE 5-7 | 39' 10" | 12.1 | 44' 1" | 13.4 | 4409 | 5176 | 147 | 112 |
| | MDHTE 5-8 | 43' 5" | 13.2 | 47' 8" | 14.5 | 4994 | 5863 | 161 | 127 |
| | MDHTE 5-9 | 46' 11" | 14.3 | 51' 2" | 15.6 | 5521 | 6482 | 184 | 140 |
| | MDHT 6-2 | 18' 2" | 5.5 | 23' 3" | 7 | 2365 | 2777 | 79 | 60 |
| | MDHTE 6-3 | 21' 9" | 6.6 | 26' 9" | 8.2 | 3123 | 3666 | 104 | 79 |
| Diameter 18' (5.6m) 45 deg Hopper 30 Degree V-Rib Roof with 30" Peak Ring | MDHTE 6-4 | 25' 3" | 7.7 | 30' 4" | 9.2 | 3882 | 4558 | 129 | 99 |
| | MDHTE 6-5 | 28' 10" | 8.8 | 33' 10" | 10.3 | 4640 | 5447 | 154 | 118 |
| | MDHTE 6-6 | 32' 4" | 9.9 | 37' 5" | 11.4 | 5398 | 6337 | 179 | 137 |
| | MDHTE 6-7 | 36' 3" | 11.1 | 41' 4" | 12.6 | 6240 | 7327 | 207 | 158 |
| | MDHTE 6-8 | 39' 10" | 12.1 | 44' 10" | 13.7 | 6999 | 8217 | 233 | 178 |
| | MDHTE 6-9 | 43' 4" | 13.2 | 48' 5" | 14.7 | 7758 | 9108 | 258 | 197 |
| | MDHTE 7-3 | 23' 3" | 7.1 | 29' 1" | 8.9 | 4474 | 5253 | 149 | 114 |
| | MDHTE 7-4 | 26' 9" | 8.2 | 32' 8" | 10.0 | 5506 | 6464 | 183 | 140 |
| | MDHTE 7-5 | 30' 4" | 9.2 | 36' 2" | 11.0 | 6538 | 7676 | 217 | 166 |
| Diameter 21' (6.4m) 45 deg Hopper 30 Degree V-Rib Roof with 30" Peak Ring | MDHTE 7-6 | 33' 10" | 10.3 | 39' 9" | 12.1 | 7570 | 8887 | 252 | 192 |
| | MDHTE 7-7 | 37' 9" | 11.5 | 43' 8" | 13.3 | 8717 | 10234 | 290 | 221 |
| | MDHTE 7-8 | 41' 4" | 12.6 | 47' 2" | 14.4 | 9749 | 11446 | 324 | 248 |
| | MDHTE 7-9 | 44' 10" | 13.7 | 50' 9" | 15.5 | 10782 | 12658 | 358 | 274 |

NOTE: Metric ton capacity is based on a density of 56 lbs./bushel (721 kg/m³). All capacities are based on a 6% compaction factor unless otherwise noted.

All MDHT have 16" Discharge Collars with 3' (0.9M) Clearance under discharge collar



P.O. Box 848 | Kearney, Nebraska 68848 USA
 Phone (308) 237-3186 | Toll Free (800) 359-7600
 Fax (308) 389-6703
 agri.chiefind.com

06/25/20EDL