

FORGED HOOKS

Miller hooks are produced in accordance with the following DIN standards:

DIN 15400- Lifting hooks, materials, mechanical properties, lifting capacity, stresses

DIN 15401- Single hooks

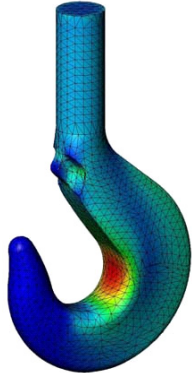
DIN 15402- Rams horn hooks (double hooks) with and without bottom hole

DIN 15402- Quad hooks (based on DIN 15402)

DIN 7540- Eye hook class 8 (grade 80)



DIN is the German Institute for Standardization (Deutsches Institut für Normung) and has been based in Berlin since 1917. DIN has historically developed the detailed and exacting standards used in German engineering and is the body that represents Germany in international standards organizations.



Shank Hooks

Hooks feature markings of fixed distances ("y" dimension) which allow confirmation that no deformation has occurred in use, under testing, etc. This dimension is a detail of the DIN requirement.

Hooks are identified by hook number and material. Each hook number maintains identical dimensions across a number of raw materials and has increasing load capacity depending on the material used. Hooks are forged and heat treated for optimal strength and toughness properties.



Shank hook forgings are available in three increasingly stronger materials:

DIN **class P**, fine-grained carbon steel. St-E355/St-E420, similar to ASTM A573 Gr. 65

DIN **class T**, alloy steel 34CrMo4-34CrNiMo6, similar to SAE 4135/4340

DIN **class V**, super alloy steel, 34CrNiMo6-30CrNiMo8, similar to SAE 4340/4337

In the following **selection tables** for shank hooks, three working load limits are indicated for each hook number depending on the material selected. Hook forgings have a design safety factor of 5. Safety latches are included. Longer shanks are available (dimension "B", +150 to +200mm).

Miller also offers **hook machining with matching nut** for your particular application from our stock of DIN hooks or from the hook manufacturer of your choice. This catalog includes hooks up to working loads of 500 metric tons. Please inquire for higher load requirements.

| DIN HOOK NO. | FIXED DISTANCE MARKS "Y" FOR DEFORMATION INDICATION (MM) | | | | | | | | | | | | | |
|--------------|--|-------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|-----|-------|
| | 6 | 8 | 10 | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
| SINGLE HOOKS | 130 | 145 | 160 | 180 | 200 | 225 | 255 | 290 | 320 | 355 | 400 | 450 | 505 | 570 |
| DOUBLE HOOKS | 93 | 104.5 | 117.5 | 132.5 | 148.5 | 165.5 | 185 | 207 | 233 | 265 | 297 | 331 | 370 | 414.5 |

Eye Hooks

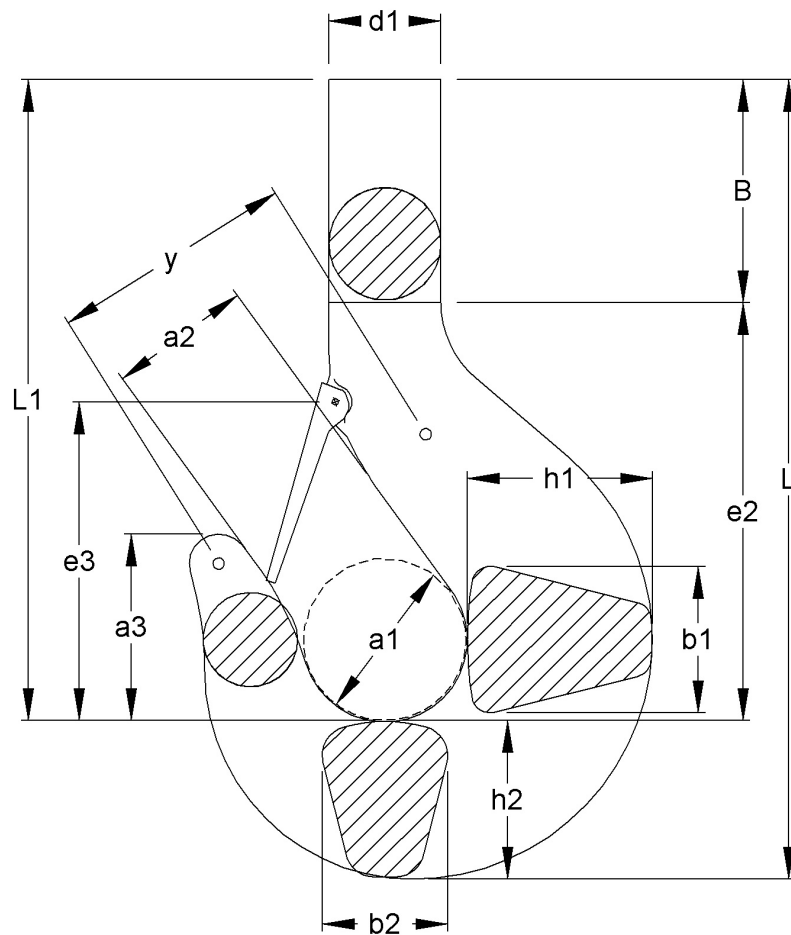
See detailed eye hook tables immediately following the shank hook tables.

Our **DIN 7540 Grade 80 Eye Hook** features the traditional eye-ring of circular cross section allowing the maximum degree of motion in the connection and is available standard in working load ratings up to metric 400 tons. These are forged from 34CrNiMo6V alloy steel with safety latch and can be adapted for ROV use. Design factor is 4:1.



Our **Shackle Eye Hook** features an eye of cylindrical section for a close fit onto the shackle pin, limiting motion and evenly distributing the load. These are similar to DIN 15401 shank hooks and are forged from the class V alloy steel material noted above. Design factor is 5:1. Our Shackle Eye Hooks include a locking safety latch and can also be adapted for ROV (remotely operated vehicle) use.

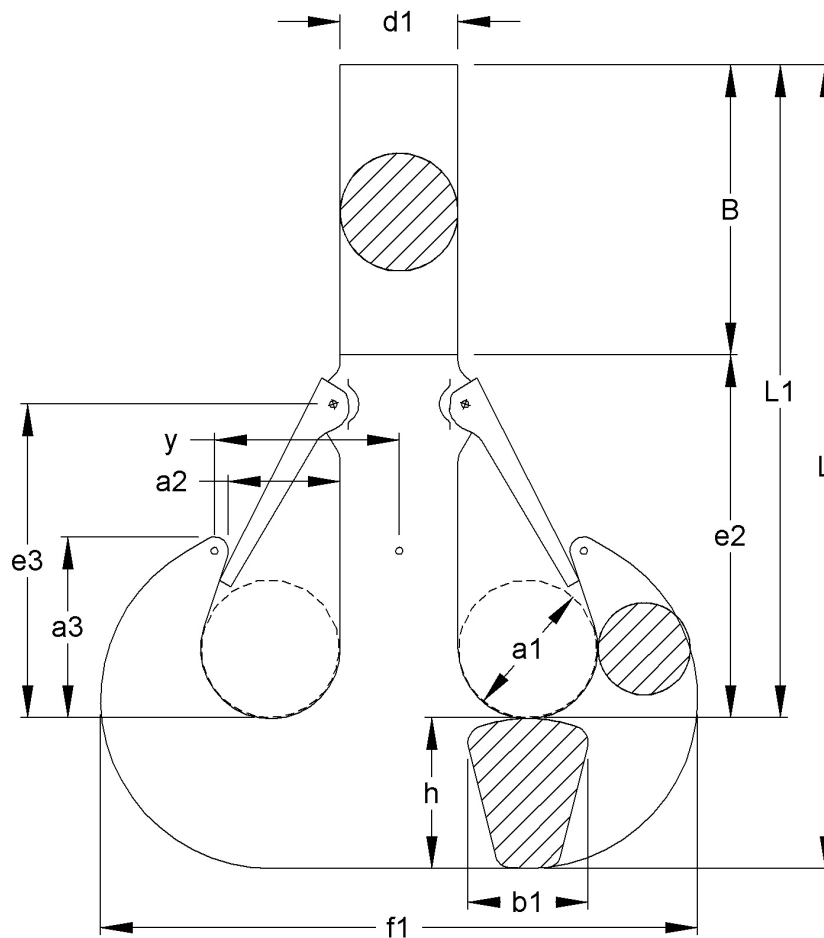
FORGED HOOKS- SINGLE HOOKS DIN 15401



| Model Number | Capacity Metric Tons Carbon Class P | Capacity Metric Tons Alloy Class T | Capacity Metric Tons Super Alloy Class V | a1 | a2 | a3 | B | b1 | b2 | d1 | e2 | e3 | h1 | h2 | L | L1 | y | Weight Kg |
|--------------|-------------------------------------|------------------------------------|--|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|------|-----|-----------|
| GS 1,6 | 3 | 5 | 6.5 | 56 | 45 | 64 | 78 | 45 | 38 | 36 | 146 | 118 | 56 | 48 | 272 | 224 | | 4.5 |
| GS 2,5 | 5 | 8 | 10 | 63 | 50 | 72 | 86 | 53 | 45 | 42 | 167 | 132 | 67 | 58 | 311 | 253 | | 6.3 |
| GS 4 | 8 | 12 | 16 | 71 | 56 | 80 | 95 | 63 | 53 | 48 | 190 | 148 | 80 | 67 | 352 | 285 | | 8.8 |
| GS 5 | 10 | 16 | 20 | 80 | 63 | 90 | 103 | 71 | 60 | 53 | 215 | 165 | 90 | 75 | 393 | 318 | | 12.3 |
| GS 6 | 12.5 | 20 | 25 | 90 | 71 | 101 | 140 | 80 | 67 | 60 | 240 | 185 | 100 | 85 | 465 | 380 | 130 | 17.1 |
| GS 8 | 16 | 25 | 32 | 100 | 80 | 113 | 150 | 90 | 75 | 67 | 268 | 210 | 112 | 95 | 513 | 418 | 145 | 24 |
| GS 10 | 20 | 32 | 40 | 112 | 90 | 127 | 166 | 100 | 85 | 75 | 286 | 221 | 125 | 106 | 558 | 452 | 160 | 34 |
| GS 12 | 25 | 40 | 50 | 125 | 100 | 143 | 209 | 112 | 95 | 85 | 316 | 252 | 140 | 118 | 643 | 525 | 180 | 55 |
| GS 16 | 32 | 50 | 63 | 140 | 112 | 160 | 238 | 125 | 106 | 95 | 357 | 280 | 160 | 132 | 727 | 595 | 200 | 77 |
| GS 20 | 40 | 63 | 80 | 160 | 125 | 180 | 260 | 140 | 118 | 106 | 405 | 330 | 180 | 150 | 815 | 665 | 225 | 112 |
| GS 25 | 50 | 80 | 100 | 180 | 140 | 202 | 280 | 160 | 132 | 118 | 455 | 360 | 200 | 170 | 905 | 735 | 255 | 160 |
| GS 32 | 63 | 100 | 125 | 200 | 160 | 225 | 300 | 180 | 150 | 132 | 510 | 400 | 224 | 190 | 1000 | 810 | 290 | 220 |
| GS 40 | 80 | 125 | 160 | 224 | 180 | 252 | 338 | 200 | 170 | 150 | 567 | 447 | 250 | 212 | 1117 | 905 | 320 | 310 |
| GS 50 | 100 | 160 | 200 | 250 | 200 | 285 | 355 | 224 | 190 | 170 | 635 | 485 | 280 | 236 | 1226 | 990 | 355 | 430 |
| GS 63 | 125 | 200 | 250 | 280 | 224 | 320 | 410 | 250 | 212 | 190 | 710 | 550 | 315 | 265 | 1385 | 1120 | 400 | 600 |
| GS 80 | 160 | 250 | 320 | 315 | 250 | 358 | 468 | 280 | 236 | 212 | 802 | 598 | 355 | 300 | 1570 | 1270 | 450 | 860 |
| GS 100 | 200 | 320 | 400 | 355 | 280 | 402 | 513 | 315 | 265 | 235 | 902 | 688 | 400 | 335 | 1750 | 1415 | 505 | 1220 |
| GS 125 | 250 | 400 | 500 | 400 | 315 | 450 | 570 | 355 | 300 | 265 | 1020 | 750 | 450 | 375 | 1965 | 1590 | 570 | 1740 |

•Dimensions are in millimeters •Tolerance on all dimensions, +7/-0 % •Hole Tolerance +2/-0 %

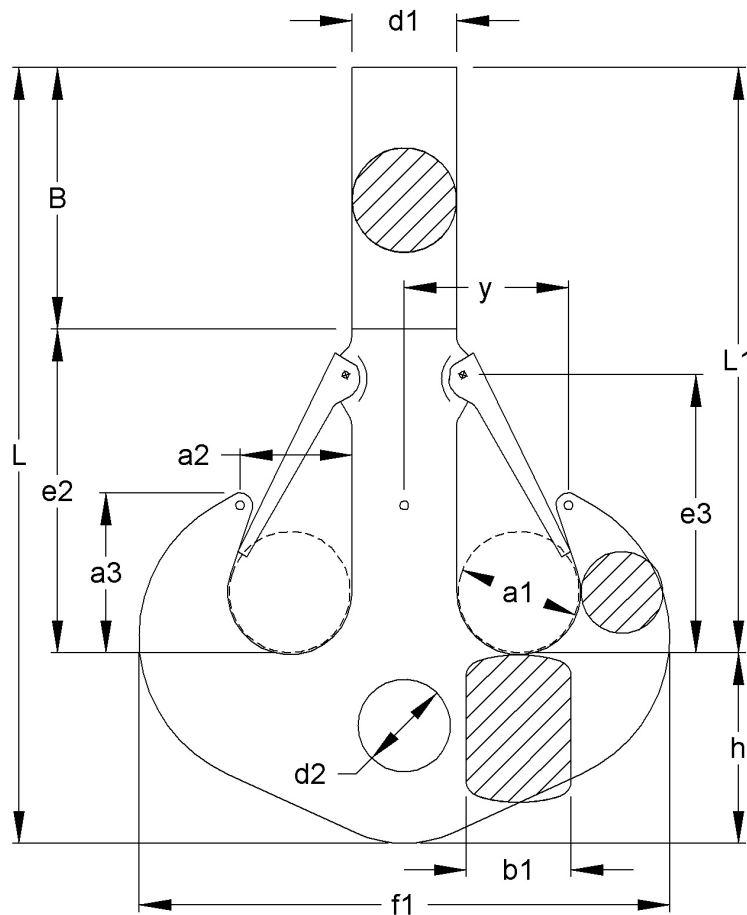
FORGED HOOKS- DUPLEX HOOK DIN 15402



| Model Number | Capacity Metric Tons Carbon Class P | Capacity Metric Tons Alloy Class T | Capacity Metric Tons Super Alloy Class V | a1 | a2 | a3 | B | f1 | b1 | e2 | d1 | e3 | H | L | L1 | y | Weight Kg |
|--------------|-------------------------------------|------------------------------------|--|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|------|------|-------|-----------|
| GD 6 | 12.5 | 20 | 25 | 71 | 56 | 92 | 183 | 301 | 60 | 192 | 60 | 160 | 75 | 450 | 375 | 93 | 16.8 |
| GD 8 | 16 | 25 | 32 | 80 | 63 | 103 | 197 | 337 | 67 | 218 | 67 | 182 | 85 | 500 | 415 | 104.5 | 25.3 |
| GD 10 | 20 | 32 | 40 | 90 | 71 | 116 | 220 | 377 | 75 | 230 | 75 | 192 | 95 | 545 | 450 | 117.5 | 35.3 |
| GD 12 | 25 | 40 | 50 | 100 | 80 | 130 | 258 | 421 | 85 | 252 | 85 | 210 | 106 | 616 | 510 | 132.5 | 50 |
| GD 16 | 32 | 50 | 63 | 112 | 90 | 146 | 296 | 471 | 95 | 284 | 95 | 237 | 118 | 698 | 580 | 148.5 | 71 |
| GD 20 | 40 | 63 | 80 | 125 | 100 | 163 | 332 | 531 | 106 | 318 | 106 | 265 | 132 | 782 | 650 | 165.5 | 100 |
| GD 25 | 50 | 80 | 100 | 140 | 112 | 182 | 347 | 598 | 118 | 378 | 118 | 315 | 150 | 865 | 715 | 185 | 138 |
| GD 32 | 63 | 100 | 125 | 160 | 125 | 205 | 388 | 672 | 132 | 402 | 132 | 335 | 170 | 960 | 790 | 207 | 197 |
| GD 40 | 80 | 125 | 160 | 180 | 140 | 230 | 435 | 754 | 150 | 450 | 150 | 375 | 190 | 1075 | 885 | 233 | 286 |
| GD 50 | 100 | 160 | 200 | 200 | 160 | 260 | 461 | 842 | 170 | 504 | 170 | 420 | 212 | 1177 | 965 | 265 | 394 |
| GD 63 | 125 | 200 | 250 | 224 | 180 | 292 | 538 | 944 | 190 | 552 | 190 | 460 | 236 | 1326 | 1090 | 297 | 547 |
| GD 80 | 160 | 250 | 320 | 250 | 200 | 325 | 617 | 1062 | 212 | 618 | 212 | 515 | 265 | 1500 | 1235 | 331 | 760 |
| GD 100 | 200 | 320 | 400 | 280 | 224 | 364 | 685 | 1186 | 235 | 690 | 235 | 575 | 300 | 1675 | 1375 | 370 | 1060 |
| GD 125 | 250 | 400 | 500 | 315 | 250 | 408 | 776 | 1330 | 265 | 774 | 265 | 645 | 335 | 1885 | 1550 | 414.5 | 1491 |

•Dimensions are in millimeters •Tolerance on all dimensions, +7/-0 % •Hole Tolerance +2/-0 %

FORGED HOOKS- DUPLEX HOOK DIN 15402-B

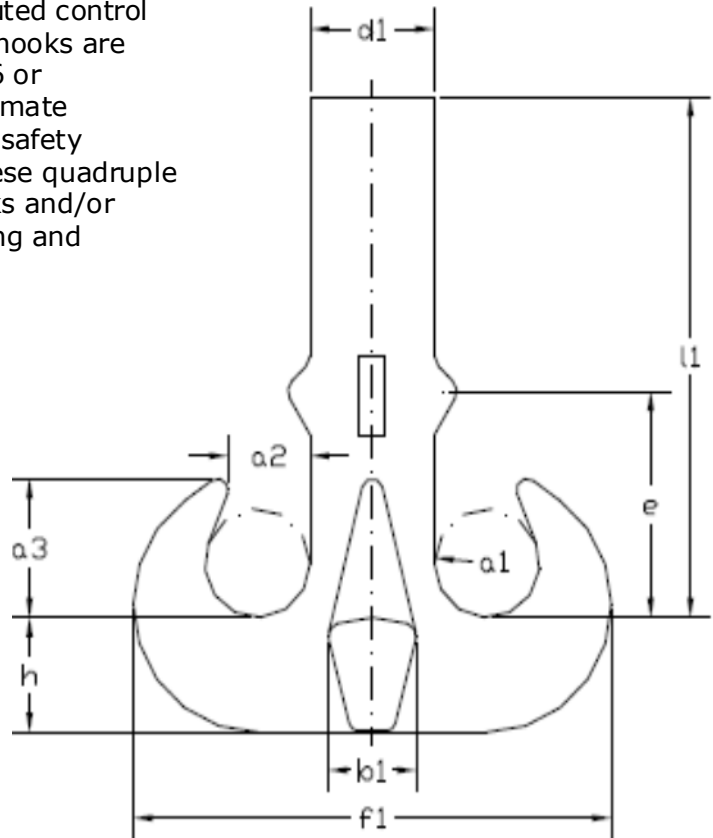


| Model Number | Capacity Metric Tons Carbon Class P | Capacity Metric Tons Alloy Class T | Capacity Metric Tons Super Alloy Class V | a1 | a2 | a3 | B | f1 | b1 | d2 | e2 | d1 | e3 | H | L | L1 | y | Weight Kg |
|--------------|-------------------------------------|------------------------------------|--|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|------|------|-------|-----------|
| GDB 10 | 20 | 32 | 40 | 90 | 71 | 116 | 220 | 377 | 75 | 74 | 230 | 75 | 192 | 130 | 580 | 450 | 117.5 | 41 |
| GDB 12 | 25 | 40 | 50 | 100 | 80 | 130 | 258 | 421 | 85 | 78 | 252 | 85 | 210 | 150 | 660 | 510 | 132.5 | 57 |
| GDB 16 | 32 | 50 | 63 | 112 | 90 | 146 | 296 | 471 | 95 | 86 | 284 | 95 | 237 | 170 | 750 | 580 | 148.5 | 82 |
| GDB 20 | 40 | 63 | 80 | 125 | 100 | 163 | 332 | 531 | 106 | 96 | 318 | 106 | 265 | 190 | 840 | 650 | 165.5 | 115 |
| GDB 25 | 50 | 80 | 100 | 140 | 112 | 182 | 347 | 598 | 118 | 106 | 378 | 118 | 315 | 212 | 927 | 715 | 185 | 160 |
| GDB 32 | 63 | 100 | 125 | 160 | 125 | 205 | 388 | 672 | 132 | 116 | 402 | 132 | 335 | 236 | 1026 | 790 | 207 | 229 |
| GDB 40 | 80 | 125 | 160 | 180 | 140 | 230 | 435 | 754 | 150 | 131 | 450 | 150 | 375 | 265 | 1150 | 885 | 233 | 330 |
| GDB 50 | 100 | 160 | 200 | 200 | 160 | 260 | 461 | 842 | 170 | 146 | 504 | 170 | 420 | 300 | 1265 | 965 | 265 | 458 |
| GDB 63 | 125 | 200 | 250 | 224 | 180 | 292 | 538 | 944 | 190 | 168 | 552 | 190 | 460 | 335 | 1425 | 1090 | 297 | 638 |
| GDB 80 | 160 | 250 | 320 | 250 | 200 | 325 | 617 | 1062 | 212 | 188 | 618 | 212 | 515 | 375 | 1610 | 1235 | 331 | 892 |
| GDB 100 | 200 | 320 | 400 | 280 | 224 | 364 | 685 | 1186 | 235 | 208 | 690 | 235 | 575 | 425 | 1800 | 1375 | 370 | 1248 |
| GDB 125 | 250 | 400 | 500 | 315 | 250 | 408 | 776 | 1330 | 265 | 235 | 774 | 265 | 645 | 475 | 2025 | 1550 | 414.5 | 1757 |

•Dimensions are in millimeters •Tolerance on all dimensions, +7/-0 % •Hole Tolerance +2/-0 %

FORGED HOOKS- QUADRUPLE HOOK - BASED ON DIN 15402

For heavy lift activity where more distributed control of the load is necessary, these quadruple hooks are forged from class V superalloy, 34CrNiMo6 or 30CrNiMo8. The static design factor to ultimate strength is 5:1. Available with or without safety latches. Shown here as a raw forging, these quadruple hooks are also available with longer shanks and/or machined with matching nut, thrust bearing and trunnion.



Metric Dimensions

| Model Number | Capacity (SWL) Metric Tons* | a1 | a2 | a3 | b1 | d1 | e | f1 | h | L1** | Weight Kg |
|--------------|--------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|--------------|
| GQ16V | 160 | 112 | 90 | 146 | 95 | 132 | 237 | 508 | 118 | 580 | 146 |
| GQ20V | 200 | 125 | 100 | 163 | 106 | 150 | 265 | 575 | 132 | 650 | 208 |
| GQ25V | 250 | 140 | 112 | 182 | 118 | 170 | 315 | 650 | 150 | 715 | 300 |
| GQ32V | 320 | 160 | 125 | 205 | 132 | 190 | 335 | 730 | 170 | 790 | 418 |
| GQ40V | 400 | 180 | 140 | 230 | 150 | 212 | 375 | 816 | 190 | 885 | 604 |
| GQ50V | 500 | 200 | 160 | 260 | 170 | 236 | 420 | 908 | 212 | 965 | 785 |

Imperial Dimensions

| Model Number | Capacity (SWL) Short Tons* | a1 | a2 | a3 | b1 | d1 | e | f1 | h | L1** | Weight Lbs. |
|--------------|-------------------------------|------|------|-------|------|------|-------|-------|------|-------|----------------|
| GQ16V | 193 | 4.41 | 3.54 | 5.75 | 3.74 | 5.20 | 9.33 | 20.00 | 4.65 | 22.83 | 322 |
| GQ20V | 241 | 4.92 | 3.94 | 6.42 | 4.17 | 5.91 | 10.43 | 22.64 | 5.20 | 25.59 | 459 |
| GQ25V | 301 | 5.51 | 4.41 | 7.17 | 4.65 | 6.69 | 12.40 | 25.59 | 5.91 | 28.15 | 661 |
| GQ32V | 385 | 6.30 | 4.92 | 8.07 | 5.20 | 7.48 | 13.19 | 28.74 | 6.69 | 31.10 | 922 |
| GQ40V | 482 | 7.09 | 5.51 | 9.06 | 5.91 | 8.35 | 14.76 | 32.13 | 7.48 | 34.84 | 1332 |
| GQ50V | 602 | 7.87 | 6.30 | 10.24 | 6.69 | 9.29 | 16.54 | 35.75 | 8.35 | 37.99 | 1731 |

* Tolerance per DIN15402

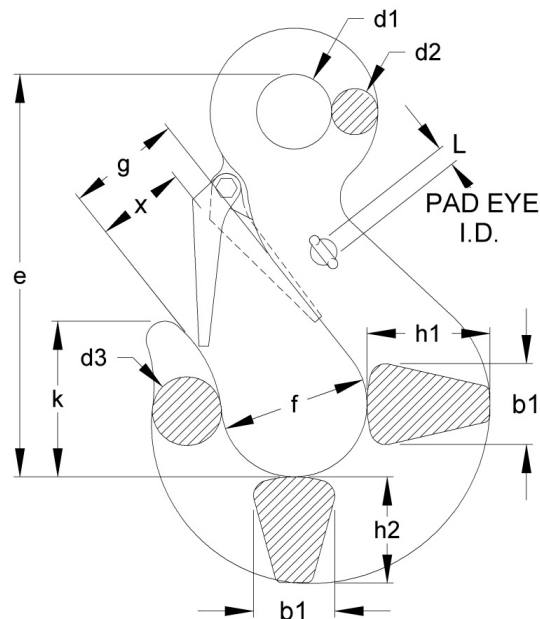
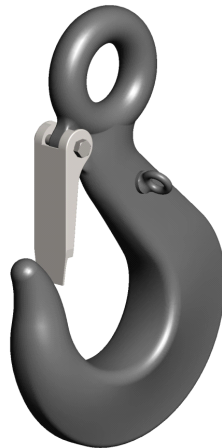
* Capacities based on FEM 1Bm/ISO M3 service class ** Additional length, L1 is available

FORGED EYE HOOKS- DIN 7540 GRADE 80



DIN is the German Institute for Standardization (Deutsches Institut für Normung) and has been based in Berlin since 1917. DIN has historically developed the detailed and exacting standards used in German engineering and is the body that represents Germany in international standards organizations.

- Forged from high-strength alloy steel 34CrNiMo6V
- Safe Working Loads from 40 to 400 metric tons
- Design factor 4:1 to ultimate strength
- Proof load is 2.5 times Safe Working Load
- Includes safety latch
- ROV modification (addition of pad eyes) available upon request
- Higher load capacities available upon request



Metric Dimensions

| Model Number | Capacity (SWL) Metric Tons | MBL Metric ton | b1 | d1 | d1 Tolerance | d2 | d3 | e | f | g | h1 | h2 | K | L | X | Weight Kg |
|--------------|----------------------------|----------------|-----|-----|--------------|-----|-----|------|-----|-----|-----|-----|-----|----|-----|-----------|
| EH34 | 40 | 160 | 78 | 72 | +1.9 / -3.7 | 44 | 66 | 388 | 140 | 109 | 118 | 103 | 80 | 19 | 90 | 31.5 |
| EH35 | 50 | 200 | 89 | 84 | +1.9 / -3.7 | 50 | 74 | 442 | 158 | 124 | 135 | 116 | 90 | 19 | 103 | 46 |
| EH36 | 63 | 250 | 99 | 90 | +2.3 / -4.7 | 56 | 83 | 494 | 176 | 138 | 151 | 130 | 101 | 19 | 114 | 63 |
| EH37 | 80 | 320 | 110 | 102 | +2.3 / -4.7 | 63 | 93 | 610 | 198 | 155 | 168 | 145 | 113 | 19 | 131 | 80 |
| EH38 | 100 | 400 | 125 | 116 | +/- 5.0 | 74 | 120 | 650 | 225 | 175 | 195 | 172 | 133 | 19 | 147 | 125 |
| EH39 | 150 | 600 | 140 | 130 | +/- 6.5 | 86 | 140 | 765 | 250 | 200 | 225 | 199 | 160 | 19 | 166 | 250 |
| EH40 | 200 | 800 | 160 | 150 | +/- 7.5 | 102 | 161 | 850 | 275 | 225 | 260 | 237 | 195 | 25 | * | 365 |
| EH41 | 250 | 1000 | 180 | 170 | +/- 8.5 | 120 | 195 | 928 | 310 | 255 | 290 | 269 | 210 | 25 | * | 515 |
| EH42 | 300 | 1200 | 200 | 190 | +/- 9.5 | 140 | 223 | 1052 | 350 | 290 | 330 | 310 | 240 | 32 | * | 730 |
| EH43 | 400 | 1600 | 240 | 210 | +/- 10.5 | 170 | 240 | 1195 | 400 | 320 | 380 | 345 | 270 | 32 | * | 1055 |

Imperial Dimensions

| Model Number | Capacity (SWL) Short Tons | MBL Short ton | b1 | d1 | d1 Tolerance | d2 | d3 | e | f | g | h1 | h2 | k | L | X | Weight Lbs. |
|--------------|---------------------------|---------------|------|------|--------------|------|------|-------|-------|-------|-------|-------|-------|------|------|-------------|
| EH34 | 44 | 176 | 3.07 | 2.83 | +.07 / -.14 | 1.73 | 2.6 | 15.28 | 5.51 | 4.29 | 4.65 | 4.06 | 3.15 | .75 | 3.54 | 69 |
| EH35 | 55 | 220 | 3.5 | 3.31 | +.07 / -.14 | 1.97 | 2.91 | 17.4 | 6.22 | 4.88 | 5.31 | 4.57 | 3.54 | .75 | 4.06 | 102 |
| EH36 | 69 | 275 | 3.9 | 3.54 | +.09 / -.18 | 2.2 | 3.27 | 19.45 | 6.93 | 5.43 | 5.94 | 5.12 | 3.98 | .75 | 4.49 | 139 |
| EH37 | 88 | 353 | 4.33 | 4.02 | +.09 / -.18 | 2.48 | 3.66 | 24.02 | 7.88 | 6.10 | 6.61 | 5.71 | 4.45 | .75 | 5.16 | 176 |
| EH38 | 110 | 441 | 4.92 | 4.57 | +/- .19 | 2.91 | 4.72 | 25.59 | 8.86 | 6.89 | 7.68 | 6.77 | 5.24 | .75 | 5.79 | 276 |
| EH39 | 165 | 661 | 5.51 | 5.12 | +/- .25 | 3.39 | 5.51 | 30.12 | 9.84 | 7.87 | 8.86 | 7.83 | 6.3 | .75 | 6.54 | 551 |
| EH40 | 220 | 882 | 6.3 | 5.91 | +/- .29 | 4.02 | 6.34 | 33.46 | 10.83 | 8.86 | 10.24 | 9.33 | 7.68 | .98 | * | 805 |
| EH41 | 276 | 1102 | 7.09 | 6.69 | +/- .33 | 4.72 | 7.68 | 36.54 | 12.2 | 10.04 | 11.42 | 10.59 | 8.27 | .98 | * | 1135 |
| EH42 | 331 | 1322 | 7.87 | 7.48 | +/- .37 | 5.51 | 8.78 | 41.42 | 13.78 | 11.42 | 12.99 | 12.2 | 9.45 | 1.26 | * | 1609 |
| EH43 | 441 | 1764 | 8.27 | 8.27 | +/- .41 | 6.69 | 9.45 | 47.05 | 15.75 | 12.6 | 14.96 | 13.58 | 10.63 | 1.26 | * | 2326 |

▪ Except where otherwise noted, dimensional tolerances for hooks through model EH37 are approximately $\pm 5\%$, and increase somewhat for hooks larger than model EH37. Contact Miller for detailed tolerance data.

▪ Load capacities indicated are for operating temperatures between -40°C and 200°C (-40°F and 392°F). Outside this range check with Miller for reduced capacity limits.

* x dimension please inquire.

FORGED HOOKS- HEAVY DUTY SHACKLE EYE HOOK

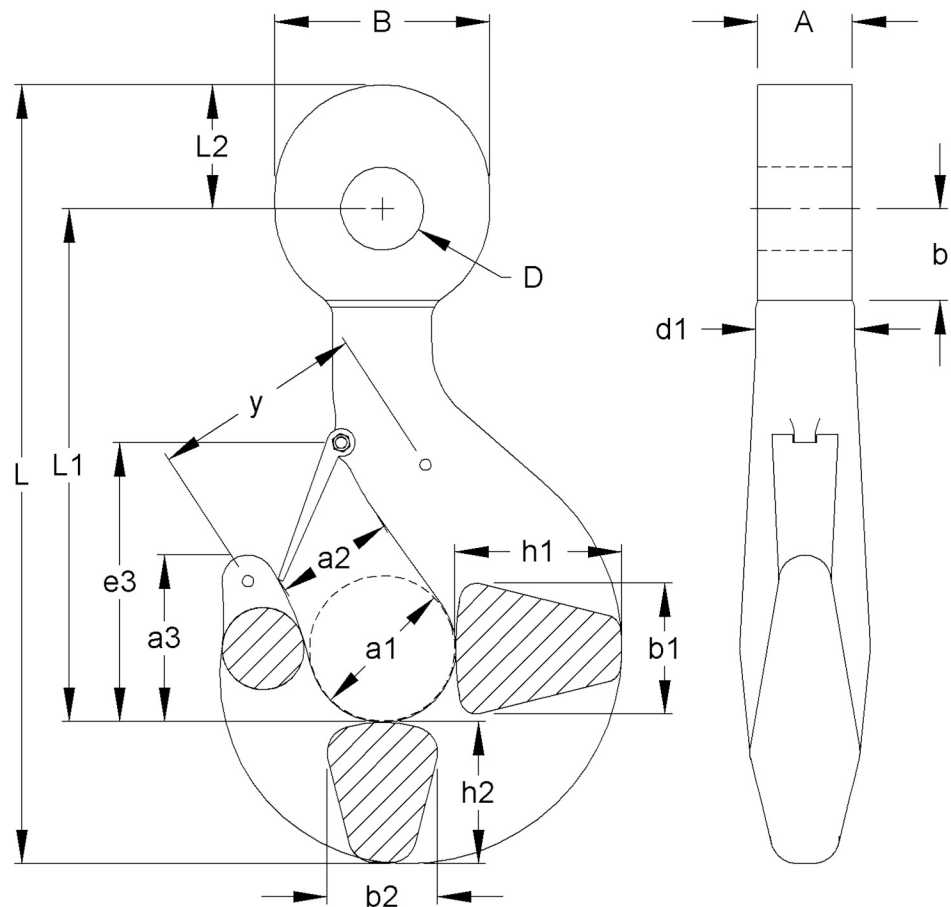
Heavy Duty Eye Hooks for Shackles

Miller Heavy Duty Eye Hooks are specifically intended for use with shackles or other pin-type connections. The cylindrical cross-section of the eye assures uniform pin loading while limiting relative hook motion.

Based also the DIN norms, they are typically forged from the strongest DIN "V" material class (see above) and carry a 5:1 design safety factor and a positive locking latch.

Adaptable for ROV (Remotely Operated Vehicles) use, these eye hooks fit standard shackles and also are available in customized versions.

Deformation indicators are also included on these heavy duty models.



| Model Number | Capacity Metric Tons | A | a1 | a2 | a3 | B | b1 | b2 | D | d1 | e3 | h1 | h2 | b | L1 | L2 | L | y | Weight Kg |
|--------------|----------------------|-------|-----|-----|-----|-----|-----|-----|-------|-----|-----|-----|-----|-----|------|-----|------|-----|-----------|
| GSOJ8T | 30 | 52 | 100 | 80 | 113 | 115 | 90 | 75 | 43 | 67 | 210 | 112 | 95 | 51 | 419 | 65 | 569 | 145 | 17 |
| GSOJ8V | 40 | 65 | 100 | 80 | 113 | 140 | 90 | 75 | 52.5 | 67 | 210 | 112 | 95 | 59 | 427 | 80 | 602 | 145 | 24 |
| GSOJ12V | 55 | 74.5 | 125 | 100 | 143 | 155 | 112 | 95 | 60.5 | 85 | 252 | 140 | 118 | 68 | 484 | 90 | 692 | 180 | 55 |
| GSOJ20V | 85 | 96.5 | 160 | 125 | 180 | 195 | 140 | 118 | 73 | 106 | 330 | 180 | 150 | 80 | 585 | 112 | 847 | 225 | 112 |
| GSOJ25V | 120 | 119 | 180 | 140 | 202 | 235 | 160 | 132 | 86 | 118 | 360 | 200 | 170 | 91 | 646 | 135 | 951 | 255 | 160 |
| GSOJ32V | 150 | 125 | 200 | 160 | 225 | 250 | 180 | 150 | 98.5 | 132 | 400 | 224 | 190 | 112 | 722 | 145 | 1057 | 290 | 220 |
| GSOJ40T | 175 | 131.5 | 224 | 180 | 252 | 285 | 200 | 170 | 109.5 | 150 | 447 | 250 | 212 | 126 | 793 | 165 | 1170 | 320 | 310 |
| GSOJ40V | 200 | 144.5 | 224 | 180 | 252 | 320 | 200 | 170 | 122.5 | 150 | 447 | 250 | 212 | 147 | 814 | 185 | 1211 | 320 | 310 |
| GSOJ50V | 250 | 179 | 250 | 200 | 285 | 340 | 224 | 190 | 135 | 170 | 485 | 280 | 236 | 168 | 903 | 195 | 1334 | 355 | 430 |
| GSOJ63V | 300 | 179 | 280 | 224 | 320 | 405 | 250 | 212 | 154 | 190 | 550 | 315 | 265 | 168 | 978 | 235 | 1478 | 400 | 600 |
| GSOJ80V | 400 | 201.5 | 315 | 250 | 358 | 460 | 280 | 236 | 179.5 | 212 | 598 | 355 | 300 | 196 | 1098 | 265 | 1663 | 450 | 860 |

•Dimensions are in millimeters •Tolerance on all dimensions, +7/-0 % •Hole Tolerance +2/-0 %