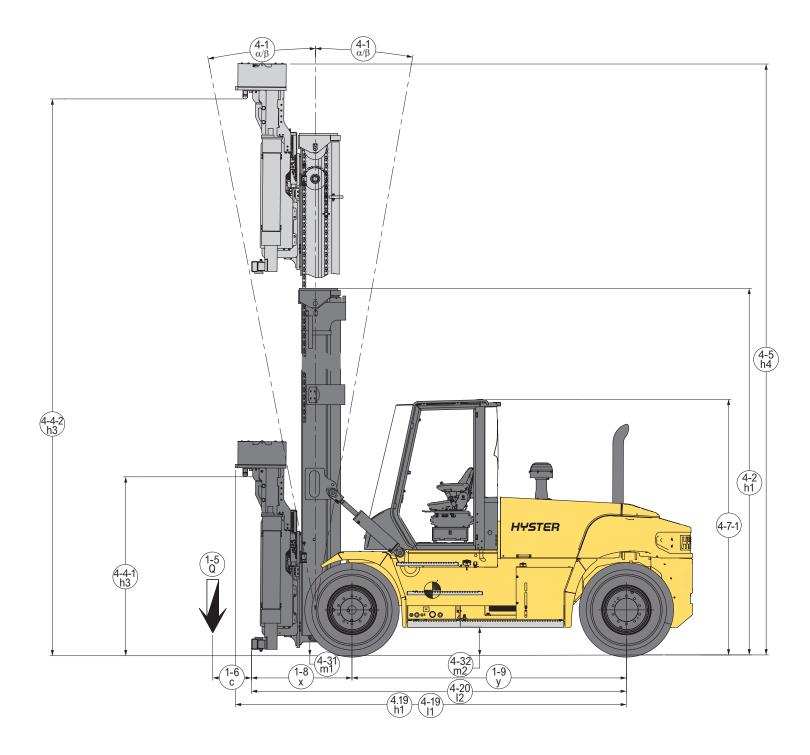


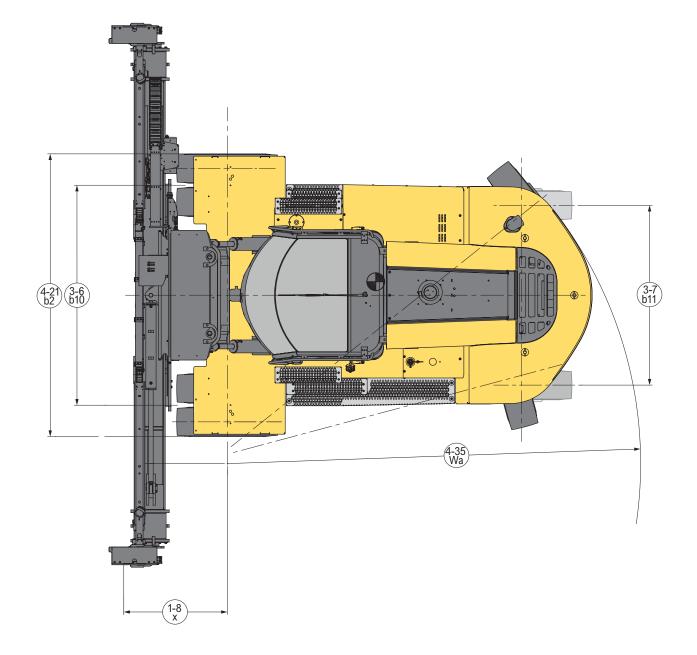
# EMPTY CONTAINER HANDLER PRODUCT TECHNICAL GUIDE



WWW.HYSTER.COM



### DIMENSIONS



### **SPECIFICATIONS**

| Image         Image <t< th=""><th></th><th></th><th></th><th>I</th><th>I</th><th>1</th><th>I</th><th></th><th></th><th></th></t<>  |           |        |  | I     | I      | 1    | I             |          |          |            |  |
|--|-----------|--------|--|-------|--------|------|---------------|----------|----------|------------|--|
| Part and - distribution         Part and - di  |           |        |  |       |        |      |               | -        |          |            |  |
| Perform         <  | ł         |        |  |       |        |      |               |          |          |            |  |
| Image       Load capacity at land cardiar, nominal       Q       Bo       By       B <th< th=""><th>-</th><th></th><th></th><th></th><th></th><th></th><th colspan="5"></th></th<>   | -         |        |  |       |        |      |               |          |          |            |  |
| IILoad conderCinmmm <t< th=""><th>F</th><th></th><th></th><th>0</th><th>lb</th><th>ka</th><th colspan="3"></th><th>9<i>6</i></th></t<>   | F         |        |  | 0     | lb     | ka   |               |          |          | 9 <i>6</i> |  |
| IILoad conderCinmmm <t< th=""><th>Ne H</th><th></th><th></th><th></th><th></th><th>-</th><th></th><th colspan="2"></th><th></th></t<>  | Ne H      |        |  |       |        | -    |               |          |          |            |  |
| Image         Lad distance         N         Image         M   | ы         |        |  |       |        | -    |               |          |          |            |  |
| Image         Monolize from / manual matrix of matrix          |           |        |  |       |        |      |               |          |          |            |  |
| Interface         Stating height aff that req (number container height)         Image: Container height)  |           |        |  |       |        |      |               |          |          |            |  |
| Image: state of the  | -         |        |  | у     |        |      | 10            |          |          |            |  |
| By Det By Det Section (1) with sole, front / rare (2) with sol | F         |        |  |       |        |      | 54.4          |          |          | 692        |  |
| 3         Tim type         Common line         Common line <thcommon line<="" th=""> <thcommon line<="" th=""> <thcommon l<="" th=""><th>된</th><th></th><td><b>U</b> ( )</td><td></td><td></td><td></td><td>· · · · · ·</td><td></td><td></td><td></td></thcommon></thcommon></thcommon>   | 된         |        | <b>U</b> ( )   |       |        |      | · · · · · ·   |          |          |            |  |
| 3         The type         The type         Projection         Projection           32         The size, front         0         0         0         1200-20.20 RPR           33         The size, front         0         0         0         1200-20.20 RPR           34         The size, front         0         0         0         1200-20.20 RPR           35         The size, front         0         0         0         200-20 20 RPR           35         The size, front         101         in         mm         97         2.469           36         The data         The size, front         101         in         mm         79         2.469           42         Height, mest leteled to lowishoods, maximum         13         in         mm         424         12.56         111           42         Height of contrade guard (desed cab)         14         in         mm         12.24         3.110           42         Height of contrade guard (desed cab)         10         in         mm         12.24         3.205           42         Height of contrade guard (desed cab)         10         in         mm         12.24         3.205           42         Maxit of cont  | ME        |        |  |       |        | -    |               |          |          |            |  |
| Provide of the size near increase in the size near increase  |           |        |  |       |        | -    |               |          | · ·      |            |  |
| 3-6Tread, frontb10inmm972.4893-7Tread, frontb11inmm792.0184-41Mast thi, forward / backwardcr.βDegree $\sim$ 1.000000000000000000000000000000000000   |           | 3-2    |  |       |        | 1    |               |          |          |            |  |
| 3-6         Track, front         D10         in         mm         97         2.489           3-7         Track, rand, r   | ELS       | 3-3    |  |       | 0      | 0    | 12.00-20 20PR |          |          |            |  |
| 3-6         Track, front         D10         in         mm         97         2.489           3-7         Track, rand, r   | H         | 3-5    | Number of tires, front / rear ( X driven )   |       | #      |      |               |          |          |            |  |
| 4-1         Mest itil, forward / hackward         cu/3         Degree         5 / 6           4-2         Height, mast kowerd         h1         in         mm         264         6.633           4-41         Distance from ground to twistlocks, maximum         h3         in         mm         85         2.151           4-42         Distance from ground to twistlocks, maximum         h3         in         mm         441         12.061           4-3         Height of ownhad guard (closed cab w Jarco)         in         mm         122.4         3.110           4-7.4         Height of ownhad guard (closed cab w Jarco)         in         mm         122.4         3.131           4-7.4         Height of ownhad guard (closed cab w Jarco)         in         mm         122.3         3.225           4-7.4         Height of ownhad guard (closed cab w Jarco)         in         mm         122.4         3.103           4-7.4         Height of ownhad guard (closed cab w Jarco)         in         mm         122.4         3.225           4-7.4         Height of ownhad guard (closed cab w Jarco)         in         mm         122.4         3.225           4-3.4         Steen from townel closed cab w Jarco)         haits         3.225         1.22  |           | 3-6    | Tread, front   | b10   | in     | mm   | 97            | 7        | 2,4      | 69         |  |
| Vert Part A         Height, mast lowered         Ini         ini         mm         264         6.693           4-42         Distance from ground to livisitods, maximum         13         in         mm         474         12.061           4-42         Distance from ground to livisitods, maximum         13         in         mm         474         12.061           4-42         Height, mast extended (2)         H4         in         mm         422.4         3.110           4-74         Height of ownhead guard (closed cable // stobe light)         in         mm         122.4         3.110           4-74         Height of ownhead guard (closed cable // stobe light)         in         mm         122.3         3.259           4-74         Height of ownhead guard (closed cable // stobe light)         in         mm         122.8         3.025           4-74         Height of ownhead guard (closed cable // stobe light)         in         mm         122.8         3.025           4-12         tore coupler height         h0         in         mm         122.4         3.259           4-12         tore coupler height         h0         in         mm         214         5.4241           4-20         Length to Sale         Sale  |           | 3-7    | Tread, rear  | b11   | in     | mm   | 79            | )        | 2,0      | 18         |  |
| 44.1         Distance from ground to twistlocks, maximum         h3         in         mm         47.4         12.261           4.4.2         Decisance from ground to twistlocks, maximum         h3         in         mm         47.4         12.269           4.4.3         Height of workhad guard (closed cab)         in         mm         122.4         3.110           4.7.3         Height of workhad guard (closed cab) valcoc)         in         mm         122.4         3.110           4.7.4         Height of workhad guard (closed cab valcoc)         in         mm         122.4         3.110           4.7.4         Height of workhad guard (closed cab valcoc)         in         mm         122.4         3.120           4.7.3         Height of workhad guard (closed cab valcoc)         strobe light)         in         mm         127.4         3.255           4.7.3         Seat height to SIP         h7         in         mm         127.4         3.255           4.10         Tow coupler height         110         in         mm         27.1         6.30           4.10         Vorall width across growd or sprader         12         in         mm         24.0         14.2           4.20         Vorall words across growd or sprade  |           | 4-1    | Mast tilt, forward / backward  | α/β   | Deg    | ree  |               | 5        | / 6      |            |  |
| 4-2         Distance from ground to hvistock, maximum         h3         in         rm         474         H2         H3         in         rm         474         H3         in         rm         491         12.453           4-7.4         Haight of overhead guard (closed clab w) airco)         in         rm         122.4         3,110         10         10         10         rm         122.4         3,110         10         10         10         rm         122.4         3,110            |           |        | Height, mast lowered   |       | in     | mm   |               |          |          |            |  |
| 4-5         Height, max evended (2)         Ind         in         mm         441         in         mm         12.489           4-7.1         Height of overhead guard (closed clab w/ airco)         in         mm         122.4         3,110           4-7.2         Height of overhead guard (closed clab w/ airco)         in         mm         122.4         3,100           4-7.4         Height of overhead guard (closed clab w/ airco)         in         mm         122.3         3,235           4-7.4         Height of overhead guard (closed clab w/ airco)         in         mm         128.3         3,225           4-7.4         Height of overhead guard (closed clab w/ airco)         8.100         in         mm         127.4         3,235           4-8         Stase height of 30         8.100         11         in         mm         127.4         8.89           4-10         Overall length         11         in         mm         128.5         3,168           4-20         Unerall kingth across proteiner, relacted / xetnided         b129         in         mm         13.4         341           4-30         Sideshift         in         mm         13.4         341         341           4-31         Sideshift  |           |        | <b>.</b>   |       |        | mm   |               |          |          |            |  |
| 47.1         Height of overhead guard (closed cab)         in         in         mm         122.4         3,110           47.2         Height of overhead guard (closed cab witrobe fight)         in         mm         122.4         3,110           47.4         Height of overhead guard (closed cab witrobe fight)         in         mm         122.4         3,110           47.4         Height of overhead guard (closed cab witrobe fight)         in         mm         122.4         3,235           47.4         Height of overhead guard (closed cab witrobe light)         in         mm         127.4         683           47.5         Height of overhead guard (closed cab witrobe light)         in         mm         75         1903           412         Tow coupler height         h10         in         mm         214         5.441           0 verall with accord spreader         12         in         mm         206         5.223           420         Length of face of spreader         12         in         mm         124         5.441           423         Vieth accos spreader, retracted / otended         b120         in         mm         134         316           423         Ground clearance, lowest point         mm         nm   |           |        | -  |       |        | mm   |               |          |          |            |  |
| 4-7.2         Height of overhead guard (closed cab w/ strobe light)         in         mm         122.4         3.10           4-7.3         Height of overhead guard (closed cab w/ strobe light)         in         mm         128.3         3.205           4-7.4         Height of overhead guard (closed cab w/ akrobe light)         in         mm         127.4         3.235           4-8         Sase theight to [3         S  | -         |        |  | h4    |        | mm   |               |          |          |            |  |
| 4-7.3         Height of overhead guard (closed cab w/ sork light)         in         mm         128.2         3.205           4-7.4         Height of overhead guard (closed cab w/ work light)         in         mm         128.3         3.259           4-7.5         Height of overhead guard (closed cab w/ work light)         in         mm         127.4         3.235           4-7.4         Height of overhead guard (closed cab w/ work light)         in         mm         127.4         3.235           4-12         Wor coupler height         h10         in         mm         7.5         1,903           4-12         Wor coupler height         h10         in         mm         27.1         6.69           4-13         Overall width across drive tins         b2         in         mm         24.2         3.168           4-23         Width across spreader, retracted / actended         b12.0         in         mm         13.4         3.188           4-33         Ground clearance, lowest point         m1         in         mm         3.43         8.722           4-34         Asie width with 20 Container - 1.9" (200mm) operating clearance (3)         Ast20         in         mm         3.43         8.722           4-34         Asie width with  |           |        |  |       |        | mm   |               |          |          |            |  |
| 47.4         Height of overhead guard (closed cab w/ arico & strobe light)         in         mm         122.3         3.259           4.4         Sate height to foverhead guard (closed cab w/ arico & strobe light)         in         mm         127.4         3.259           4.4         Sate height to foverhead guard (closed cab w/ arico & strobe light)         h7         in         mm         127.4         80.9           4.4         Sate height to foverhead guard (closed cab w/ arico & strobe light)         h10         in         mm         27.1         80.9           4.12         Tow coupler height         H1         in         mm         27.1         80.9           4.20         Lenght to face of spreader         I2         in         mm         22.5         3.168           4.21         Overall length         mm         12         in         mm         2.6         5.06.0         12.238           4.30         Side shift         mm         1in         mm         9.6         2.435         3.168           4.31         Ground clearance, center of whetbase         m1         in         mm         3.51         8.89.22           4.32         Asle width with 20 Container - 7.9" (200mm) operating clearance (3)         Ast0         in         mm </th <th>-</th> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  | -         |        |  |       |        |      |               |          |          |            |  |
| 47.5         Height of overhead guard (closed cab w/ aico & strobe light)         in         mm         127.4         3.235           4.3         Seat height to SIP         h7         in         mm         75         1.903           4.12         Vice coupter height         h10         in         mm         27.1         689           4.19         Overall width across drive tires         12         in         mm         20.6         5.228           4.20         Length to face of spreader         12         in         mm         12.5         3.168           4.21         Overall width across drive tires         b1.20         in         mm         12.738         4.16         12.238           4.23         Width across drive tires         b1.20         in         mm         13.6         24.5         14.23           4.30         Ground clearance, lowest point         m1         in         mm         3.4 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>   |           |        |  |       |        |      |               |          |          |            |  |
| 4-3         Seat height to SIP         h7         in         mm         75         1,903           4-12         Tow coupler height         110         in         mm         27.1         689           4-12         Tow coupler height         11         in         mm         27.1         689           4-19         Overall leight         11         in         mm         27.1         689           4-20         Length to face of spreader         12         in         mm         206         5,228           4-21         Overall leight         mm         12         in         mm         12.23           4-23         Width across spreader, retracted / extended         b1.20         in         mm         9.6         7.23           4-30         Sideshift         m1         m         mm         9.6         7.24           4-31         Asle width with 20° Container - no operating clearance (3)         Ast20         in         mm         3.51         8.922           4-34         Asle width with 20° Container - no operating clearance (3)         Ast20         in         mm         5.56         4.34           4.34         Asle width with 40° Container - 19° (200mm) operating clearance (3)         Ast40 </th <th>-</th> <th></th> <th><b>5 6 (</b></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>   | -         |        | <b>5 6 (</b>   |       |        |      |               |          |          |            |  |
| 412         Tow coupler height         h10         in         mm         27.1         689           419         Overall leight         11         in         nm         244         5,441           420         Leight to face of spreader         12         in         mm         206         5,223           421         Overall with across spreader, retracted / extended         b1.20         in         mm         240         482         6,106         12,233           423         With across spreader, retracted / extended         b1.20         in         mm         +15.7         ++/-4.00           433         Ground clearance, lowest point         m1         in         mm         mm         341         341           433         Ground clearance, conset point         m1         in         mm         343         8,722           434         Asle width with 20° Container - no operating clearance (3)         Ast20         in         mm         534         3555           434         Asle width with 40° Container - no operating clearance (3)         Ast40         in         mm         554         13,558           434         Asle width with 40° Container - 10% operating clearance (3)         Ast40         in         mm         <   | ł         |        |  | 1-7   |        |      |               |          |          |            |  |
| P0       earl length       11       in       mm       214       5.441         4200       Length folce of spreader       12       in       mm       206       5.228         4201       Length folce of spreader       12       in       mm       125       3,168         421       Width across spreader, retracted / extended       b1.20       in       mm       1482       6,106       12,238         430       Siteshift       m       m       m       m       m       +442       6,106       12,238         431       Siteshift       m       m       m       m       +432       Ground clearance, lowest point       m       m       m       3420       in       mm       13.4       341         432       Ground clearance, conter of wheelbase       m2       in       mm       343       8,722       4.32         4331       Asile width with 20 <sup>C</sup> Container - n.9 operating clearance (3)       Ast20       in       mm       354       13,558         4342       Asile width with 20 <sup>C</sup> Container - n.9 (200m) operating clearance (3)       Ast40       in       mm       542       13,768         4344       Asile width with 40 <sup>C</sup> Container - n.9 (200m) operating clearance (3)  | ł         |        | , and the second s |       |        |      |               |          |          |            |  |
| 4-30       Midn across spleader, revisited       01:00       mm       mm       240       01:00       10:20       10  | ŝ         |        |  |       |        |      |               |          |          |            |  |
| 4-30       Mind Not Oss Spleader, Federational Control of Actional Contrection Actional Actional Contrection Actional Control                  | SIO       |        |  |       |        |      |               |          |          |            |  |
| 4-30       Midn across spleader, revisited       01:00       mm       mm       240       01:00       10:20       10  | Ë         |        |  |       |        |      |               |          |          |            |  |
| 4-30       Sideshift       in       mm       +/-15.7       +/-400         4-31       Ground clearance, lowest point       m1       in       mm       9.6       245         4-32       Ground clearance, center of wheelbase       m2       in       mm       13.4       341         4-33       Aisle width with 20' Container - no operating clearance (3)       Ast20       in       mm       343       8.722         4-33.1       Aisle width with 20' Container - 7.9" (200mm) operating clearance (3)       Ast20       in       mm       378       9.594         4-34       Aisle width with 40' Container - no operating clearance (3)       Ast20       in       mm       534       13.558         4-344       Aisle width with 40' Container - 7.9" (200mm) operating clearance (3)       Ast40       in       mm       544       13.558         4-342       Aisle width with 40' Container - 10% operating clearance (3)       Ast40       in       mm       587       14.914         4-35       Outside turning radius       b13       in       mm       180       4.573         4-36       Internal turning radius       b13       in       mm       177       177         5-1       Travel speed, with / without load (4)       f/min <th></th> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |           |        |  |       |        |      |               |          |          |            |  |
| 4-31       Ground clearance, lowest point       m1       in       mm       9.6       245         4-32       Ground clearance, center of wheelbase       m2       in       mm       13.4       341         4-33       Aisle width with 20' Container - no operating clearance (3)       Ast20       in       mm       343       8,722         4-332       Aisle width with 20' Container - 7.9" (200mm) operating clearance (3)       Ast20       in       mm       351       8.922         4-34       Aisle width with 40' Container - no operating clearance (3)       Ast40       in       mm       554       4.344       13.558       9.594         4-34       Aisle width with 40' Container - 7.9" (200mm) operating clearance (3)       Ast40       in       mm       557       14.914         4-34       Aisle width with 40' Container - 7.9" (200mm) operating clearance (3)       Ast40       in       mm       57       14.914         4-35       Outside turning radius       b13       in       mm       70       1,777         4-36       Internal turning radius       b13       in       mm       188       27       29         5-1       Travel speed, with / without load       ft/min       m/s       114       118       .58       <   | ŕ         |        |  | 01.20 |        |      |               |          |          |            |  |
| 4-32<br>4-33Ground clearance, center of wheelbasem2inmm13.43414-33<br>4-33Aisle width with 20' Container - no operating clearance (3)Ast20inmm3438,7224-33-1Aisle width with 20' Container - 7.9" (200mm) operating clearance (3)Ast20inmm3518,9224-34Aisle width with 40' Container - no operating clearance (3)Ast40inmm55413,5584-34-1Aisle width with 40' Container - no operating clearance (3)Ast40inmm55413,5584-34-1Aisle width with 40' Container - no operating clearance (3)Ast40inmm55414,9144-35Outside turning radiusWainmm1804,57314,9144-36Internal turning radiusb13inmm171827295-1Travel speed, with / without load (4)mphkm/h171827295-2Lifting speed, with / without loadft/minm/s114113.58.605-3Lowering speed with / without loadmbkN22,10025,0001051065-6Drawbar pull - max, with / without load (5)with with with with with with add5536375-7Gradeability - max, with / without load (5)with with with with add56375-7Gradeability - max, with / without loadft/minm/s10694.545-7Drawb   | ľ         |        |  | m1    |        |      |               |          |          |            |  |
| 4-33       Aisle width with 20' Container - no operating clearance (3)       Ast20       in       mm       343       8,722         4-33       Aisle width with 20' Container - 7.9" (200mm) operating clearance (3)       Ast20       in       mm       351       8,922         4-33       Aisle width with 20' Container - 10% operating clearance (3)       Ast20       in       mm       378       9,594         4-34       Aisle width with 40' Container - no operating clearance (3)       Ast40       in       mm       534       13,558         4-34       Aisle width with 40' Container - 7.9" (200mm) operating clearance (3)       Ast40       in       mm       542       13,758         4-34-2       Aisle width with 40' Container - 10% operating clearance (3)       Ast40       in       mm       587       14,914         4-35       Outside turning radius       Wa       in       mm       180       4,573         4-36       Internal turning radius       Wa       in       mm       70       1,777         5-1       Travel speed, with / without load (4)       mph       km/h       17       18       27       29         5-2       Lifting speed, with / without load       ft/min       m/s       114       118       58       60  | ſ         |        |  |       |        |      |               |          |          |            |  |
| 4-33-2       Aisle width with 20' Container - 10% operating clearance (3)       Ast20       in       mm       378       9,594         4-34       Aisle width with 40' Container - no operating clearance (3)       Ast40       in       mm       534       13,558         4-34-1       Aisle width with 40' Container - 7.9" (200mm) operating clearance (3)       Ast40       in       mm       542       13,758         4-34-2       Aisle width with 40' Container - 10% operating clearance (3)       Ast40       in       mm       542       13,758         4-34-2       Aisle width with 40' Container - 10% operating clearance (3)       Ast40       in       mm       542       13,758         4-34-2       Aisle width with 40' Container - 10% operating clearance (3)       Ast40       in       mm       587       14,914         4-35       Outside turning radius       Wa       in       mm       70       1,777         TER4 VSE 6.7L         For VERTRAIN #1       17       18       27       29         5-2       Lifting speed, with / without load       ft/min       m/s       114       118       .58       .60         5-3       Lowering speed with / without load       ft/min       m/s       106       944       .54   | Ì         |        |  | Ast20 | in     | mm   | 34            | 3        | 8,7      | 22         |  |
| 4-33-2       Aisle width with 20' Container - 10% operating clearance (3)       Ast20       in       mm       378       9,594         4-34       Aisle width with 40' Container - no operating clearance (3)       Ast40       in       mm       534       13,558         4-34-1       Aisle width with 40' Container - 7.9" (200mm) operating clearance (3)       Ast40       in       mm       542       13,758         4-34-2       Aisle width with 40' Container - 10% operating clearance (3)       Ast40       in       mm       542       13,758         4-34-2       Aisle width with 40' Container - 10% operating clearance (3)       Ast40       in       mm       542       13,758         4-34-2       Aisle width with 40' Container - 10% operating clearance (3)       Ast40       in       mm       587       14,914         4-35       Outside turning radius       Wa       in       mm       70       1,777         TER4 VSE 6.7L         For VERTRAIN #1       17       18       27       29         5-2       Lifting speed, with / without load       ft/min       m/s       114       118       .58       .60         5-3       Lowering speed with / without load       ft/min       m/s       106       944       .54   | ĺ         | 4-33-1 |  | Ast20 | in     | mm   | 35            | 1        | 8.9      | 22         |  |
| 4-34         Aisle width with 40' Container - no operating clearance (3)         Ast40         in         mm         534         13,558           4-34-1         Aisle width with 40' Container - 7.9" (200mm) operating clearance (3)         Ast40         in         mm         542         13,758           4-34-2         Aisle width with 40' Container - 10% operating clearance (3)         Ast40         in         mm         542         13,758           4-34-2         Aisle width with 40' Container - 10% operating clearance (3)         Ast40         in         mm         587         14,914           4-34-2         Aisle width with 40' Container - 10% operating clearance (3)         Ast40         in         mm         587         14,914           4-35         Outside turning radius         Wa         in         mm         180         4,573           FOWERTRAIN #1         mm         mm         70         1/777           5-1         Travel speed, with / without load         ft/min         m/s         114         118         .58         .60           5-2         Lifting speed, with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         ft/min   | -         |        |  |       |        |      |               |          |          |            |  |
| 4-34-1         Aisle width with 40' Container - 7.9" (200mm) operating clearance (3)         Ast40         in         mm         542         13,758           4-34-2         Aisle width with 40' Container - 10% operating clearance (3)         Ast40         in         mm         587         14,914           4-33         Outside turning radius         Wa         in         mm         180         4,573           4-36         Internal turning radius         b13         in         mm         70         1,777           View of the figure of the  | -         |        |  |       |        |      |               |          |          |            |  |
| 4-34-2       Aisle width with 40' Container - 10% operating clearance (3)       Ast40       in       mm       587       14,914         4-35       Outside turning radius       Wa       in       mm       180       4,573         4-36       Internal turning radius       b13       in       mm       70       1,777         FOWERTRAIN #1         Travel speed, with / without load (4)       mph       km/h       17       18       27       29         5-1       Travel speed, with / without load       mph       km/h       17       18       27       29         5-2       Lifting speed, with / without load       ft/min       m/s       114       118       .58       .60         5-5       Drawbar pull - 1 mph (1.6 km/h), with / without load       ft/min       m/s       106       94       .54       .48         5-5       Drawbar pull - 1 mph (1.6 km/h), with / without load       lb       kN       22,100       25,000       105       106         5-6       Drawbar pull - 1 mph (1.6 km/h), with / without load (5)       %       36       37       37         5-7       Gradeability - 1 mph (1.6 km/h), with / without load (5)       %       41       37       37  | -         |        |  |       |        |      |               |          |          |            |  |
| 4-35       Outside turning radius       Wa       in       mm       180       4,573         4-36       Internal turning radius       b13       in       mm       70       1,777         FOWERTRAIN #1         TIER 4 OSB 6.7L         5-1       Travel speed, with / without load (4)       mph       km/h       17       18       27       29         5-2       Lifting speed, with / without load       Mith / without load       ft/min       m/s       114       118       .58       .60         5-3       Lowering speed with / without load       ft/min       m/s       106       94       .54       .48         5-5       Drawbar pull - 1 mph (1.6 km/h), with / without load       b       kN       22,100       25,000       105       106         5-6       Drawbar pull - 1 mph (1.6 km/h), with / without load (5)       %       36       37       37         5-7       Gradeability - 1 max, with / without load (5)       %       41       37       37         5-7       Gradeability - max, with / without load (5)       %       36       37       37         5-8       Gradeability - max, with / without load       mph       km/h       17       18       2  | -         |        |  |       |        |      |               |          |          |            |  |
| POWERTRAIN #1         TIER 4 QSB 6.7L           5-1         Travel speed, with / without load (4)         mph         km/h         17         18         27         29           5-2         Lifting speed, with / without load         ft/min         m/s         114         118         .58         .60           5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         lb         kN         22,100         25,000         105         106           5-6         Drawbar pull - 1 mph (1.6 km/h), with / without load (5)         %         36         37           5-7         Gradeability - 1 mph (1.6 km/h), with / without load (5)         %         41         37           5-8         Gradeability - max, with / without load (5)         %         41         37           TIER 3 OSB 6.7L           FOWERTRAIN #2           Tiers 3 osb 6.7L           FOWERTRAIN #2           Tiers 3 osb 6.7L           File 3 osb 6.7L           File 3 osb 6.7L           File 3 osb 6.7L           File 3 osb 6.   |           |        |  |       |        |      |               |          |          |            |  |
| 5-1         Travel speed, with / without load (4)         mph         km/h         17         18         27         29           5-2         Lifting speed, with / without load         ft/min         m/s         114         118         .58         .60           5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         b         kN         22,100         25,000         105         106           5-6         Drawbar pull - max, with / without load         b         kN         22,700         25,600         118         119           5-7         Gradeability - 1 mph (1.6 km/h), with / without load (5)         %         36         37           5-8         Gradeability - max, with / without load (5)         %         41         37         29           5-1         Travel speed, with / without load (4)         mph         km/h         17         18         27         29           5-2         Lifting speed, with / without load         ft/min         m/s         106         118         .54         .60           5-3         Lowering speed with / without load         ft/min         m/s  |           |        |  | b13   | in     |      | 70            | )        |          |            |  |
| 5-1         Travel speed, with / without load (4)         mph         km/h         17         18         27         29           5-2         Lifting speed, with / without load         ft/min         m/s         114         118         .58         .60           5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         b         kN         22,100         25,000         105         106           5-6         Drawbar pull - max, with / without load         b         kN         22,700         25,600         118         119           5-7         Gradeability - 1 mph (1.6 km/h), with / without load (5)         %         36         37           5-8         Gradeability - max, with / without load (5)         %         41         37         29           5-1         Travel speed, with / without load (4)         mph         km/h         17         18         27         29           5-2         Lifting speed, with / without load         ft/min         m/s         106         118         .54         .60           5-3         Lowering speed with / without load         ft/min         m/s  |           |        | POWERTRAIN #1  |       |        |      |               | TIER 4 ( | QSB 6.7L |            |  |
| 5-2         Lifting speed, with / without load         ft/min         m/s         114         118         .58         .60           5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         lb         kN         22,100         25,000         105         106           5-6         Drawbar pull - max, with / without load         lb         kN         22,700         25,600         118         119           5-7         Gradeability - 1 mph (1.6 km/h), with / without load (5)         %         36         37           5-8         Gradeability - max, with / without load (5)         %         41         37           5-8         Gradeability - max, with / without load (5)         %         41         37           5-1         Travel speed, with / without load (4)         mph         km/h         17         18         27         29           5-2         Lifting speed, with / without load         ft/min         m/s         106         118         .54         .60           5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48   |           | 5-1    |  |       | mph    | km/h | 17            |          |          | 29         |  |
| 5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         lb         kN         22,100         25,000         105         106           5-6         Drawbar pull - max, with / without load         lb         kN         22,700         25,600         118         119           5-7         Gradeability - 1 mph (1.6 km/h), with / without load (5)         %         36         37           5-8         Gradeability - max, with / without load (5)         %         41         37           5-8         Gradeability - max, with / without load (4)         mph         km/h         17         18         27         29           5-1         Travel speed, with / without load         ft/min         m/s         106         118         .64         .60           5-2         Lifting speed, with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         lb         kN         20,900         21,400         99         100           5-6         Drawbar pull - max, with / without load         lb         k   |           |        |  |       |        |      |               |          |          |            |  |
| 5-6         Drawbar pull - max, with / without load         Ib         kN         22,700         25,600         118         119           5-7         Gradeability - 1 mph (1.6 km/h), with / without load (5)         %         36         37           5-8         Gradeability - max, with / without load (5)         %         41         37           5-8         Gradeability - max, with / without load (5)         %         41         37           FOWERTRAIN #2           5-1         Travel speed, with / without load (4)         mph         km/h         17         18         27         29           5-2         Lifting speed, with / without load         ft/min         m/s         106         118         .54         .60           5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         lb         kN         20,900         21,400         99         100           5-6         Drawbar pull - max, with / without load         lb         kN         23,600         24,200         111         113   | ľ         | 5-3    | Lowering speed with / without load   |       | ft/min | m/s  | 106           | 94       | .54      | .48        |  |
| 5-7         Gradeability - 1 mph (1.6 km/h), with / without load (5)         %         36         37           5-8         Gradeability - max, with / without load (5)         %         41         37           5-8         Gradeability - max, with / without load (5)         %         41         37           FOWERTRAIN #2           5-1         Travel speed, with / without load (4)         mph         km/h         17         18         27         29           5-2         Lifting speed, with / without load         ft/min         m/s         106         118         .54         .60           5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         lb         kN         20,900         21,400         99         100           5-6         Drawbar pull - max, with / without load         lb         kN         23,600         24,200         111         113   | Ī         | 5-5    | Drawbar pull - 1 mph (1.6 km/h), with / without load   |       | lb     | kN   | 22,100        | 25,000   | 105      | 106        |  |
| 5-2         Lifting speed, with / without load         ft/min         m/s         106         118         .54         .60           5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         Ib         kN         20,900         21,400         99         100           5-6         Drawbar pull - max, with / without load         Ib         kN         23,600         24,200         111         113   | [         | 5-6    | Drawbar pull - max, with / without load  |       | lb     | kN   | 22,700        | 25,600   | 118      | 119        |  |
| 5-2         Lifting speed, with / without load         ft/min         m/s         106         118         .54         .60           5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         Ib         kN         20,900         21,400         99         100           5-6         Drawbar pull - max, with / without load         Ib         kN         23,600         24,200         111         113   | NC        | 5-7    | Gradeability - 1 mph (1.6 km/h), with / without load (5)   |       | %      | 5    | 36            | 6        |          |            |  |
| 5-2         Lifting speed, with / without load         ft/min         m/s         106         118         .54         .60           5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         Ib         kN         20,900         21,400         99         100           5-6         Drawbar pull - max, with / without load         Ib         kN         23,600         24,200         111         113   | <b>MA</b> | 5-8    | Gradeability - max, with / without load (5)  |       | %      |      | 41            |          | 3        | 7          |  |
| 5-2         Lifting speed, with / without load         ft/min         m/s         106         118         .54         .60           5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         Ib         kN         20,900         21,400         99         100           5-6         Drawbar pull - max, with / without load         Ib         kN         23,600         24,200         111         113   | 15        |        | POWERTRAIN #2  |       |        |      |               | TIER 3 ( | QSB 6.7L |            |  |
| 5-2         Lifting speed, with / without load         ft/min         m/s         106         118         .54         .60           5-3         Lowering speed with / without load         ft/min         m/s         106         94         .54         .48           5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         Ib         kN         20,900         21,400         99         100           5-6         Drawbar pull - max, with / without load         Ib         kN         23,600         24,200         111         113   | PER       | 5-1    | Travel speed, with / without load (4)  |       | mph    | km/h | 17            | 18       | 27       | 29         |  |
| 5-5         Drawbar pull - 1 mph (1.6 km/h), with / without load         Ib         kN         20,900         21,400         99         100           5-6         Drawbar pull - max, with / without load         Ib         kN         23,600         24,200         111         113  |           | 5-2    | Lifting speed, with / without load   |       |        | m/s  | 106           | 118      | .54      | .60        |  |
| 5-6         Drawbar pull - max, with / without load         Ib         kN         23,600         24,200         111         113  |           | 5-3    | Lowering speed with / without load   |       | ft/min | m/s  | 106           | 94       | .54      | .48        |  |
|  |           | 5-5    | Drawbar pull - 1 mph (1.6 km/h), with / without load   |       | lb     | kN   | 20,900        | 21,400   | 99       | 100        |  |
| 5-7 Gradeability - 1 mph (1.6 km/h), with / without load (5) % 34 37   |           | 5-6    | Drawbar pull - max, with / without load  |       | lb     | kN   | 23,600        | 24,200   | 111      | 113        |  |
|  |           |        | Gradeability - 1 mph (1.6 km/h), with / without load (5)   |       |        |      |               |          |          |            |  |
| 5-8     Gradeability - max, with / without load (5)     %     39     37  |           | 5-8    | Gradeability - max, with / without load (5)  |       | %      | 0    | 39            | )        | 3        | 7          |  |

### **SPECIFICATIONS**

| POW      | /ERTRAIN      |   |            |           |  |                     |                                      |             |  |
|----------|---------------|---|------------|-----------|--|---------------------|--------------------------------------|-------------|--|
| F        | 1-1           | Manufacturer  |            |           | Hyster   |                     | Hyster                               |             |  |
| GENERAL  | 1-2           | Model designation                                       |            |           | H150XD-EC4   |                     | H150XD-EC4                           |             |  |
| GEN      | 1-3           | Powertrain / drivetrain                                 |            |           | Die  | Diesel              |                                      | Diesel      |  |
|          | 7-1           | Engine manufacturer / model                             |            |           | Cummins / QSB 6.7                                    |                     | Cummins                              | / QSB 6.7   |  |
|          | x             | EPA tier compliance                                     |            |           | Tier 4F / stage IV                                   |                     | Tier 3 /                             | stage III   |  |
|          | 7-2           | Engine power - rated                                    | hp         | kW        | 164@2,300  | 122@2,300           | 156@2,300                            | 116@2,300   |  |
|          | 7-2-1         | Engine power - peak                                     | hp         | kW        | 168@2,100  | 125@2,100           | 156@2,300                            | 116@2,300   |  |
| щ        | 7-3           | Rated speed   | rpm        | rpm       | 2,300  |                     | 2,300                                |             |  |
| ENGINE   | 7-3-1         | Engine torque @ rpm (1.min)                             | lb-ft      | N-m       | 540 @ 1,500  | 732 @ 1,500         | 440 @ 1,500                          | 597 @ 1,500 |  |
| 6        | 7-4           | Number of cylinders / displacement                      | # / in3    | # / cm3   | 6 / 409  | 6 / 6,700           | 6 / 409                              | 6 / 6,700   |  |
|          | x             | Turbocharger  | Ту         | /pe       | Variable geometry, water cooled                      |                     | Wastegate, water cooled              |             |  |
|          | 7-8           | Alternator output                                       | An         | nps       | 120  |                     | 120                                  |             |  |
|          | 7-9           | Electrical system voltage                               |            | V         | 24   |                     | 24                                   |             |  |
|          | 7-10          | Battery voltage, nominal capacity                       |            | Ah        | 24 / 102   |                     | 24 / 102                             |             |  |
|          | 8-0           | Drive control / transmission                            |            | rpe       | Powershift transmission                              |                     | Powershift transmission              |             |  |
|          | 8-1           | Type of drive unit                                      | Туре       |           | Torque converter                                     |                     | Torque converter                     |             |  |
| ų        | 8-2           | Transmission manufacturer / type                        | Туре       |           | ZF / WG161   |                     | ZF / WG161                           |             |  |
| DRIVE    | 8-2-1         | Transmission speeds forward / backward                  | #          |           | 3/3  |                     | 3/3                                  |             |  |
|          | 8-3           | Wheel drive / drive axle manufacturer / type            |            | rpe       | Kessler / D81  |                     | Kessler / D81                        |             |  |
|          | 8-11          | Service brake   | Туре       |           | Oil immersed (wet) disc                              |                     | Oil immersed (wet) disc              |             |  |
|          | 8-12          | Parking brake   | Туре       |           | Spring apply, dry disc on drive axle<br>Elme / 588TB |                     | Spring apply, dry disc on drive axle |             |  |
| <b>≃</b> | 9-1           | Spreader manufacturer / type                            |            | rpe       |  |                     | Elme / 588TB                         |             |  |
| ġ        | 9-1-1         | Pile slope, mechanical<br>Size of containers            | in         | mm        | +/- 8.1  | +/- 205<br>)' & 40' | +/- 8.1<br>ISO 20                    | +/- 205     |  |
| SPREADER | 9-3<br>9-4    |   | ft<br>in   |           | +/- 15.7   | +/- 400             | +/- 15.7                             | +/- 400     |  |
| S        | 9-4-1         | Sideshift (total)<br>Telescoping time, extend / retract | sec        | mm<br>sec |  | / 16                |                                      | / 16        |  |
|          | 9-4-1<br>10-1 | Operating pressure for attachments                      | psi        | MPa       | 3,263  | 22.5                | 3,263                                | 22.5        |  |
|          | 10-1          | Oil volume for attachments                              |            | l/m       | 26.4   | 100                 | 26.4                                 | 100         |  |
|          | 10-2          | Hydraulic tank capacity                                 | gpm<br>gal | 1/11      | 20.4   | 103                 | 20.4                                 | 103         |  |
| MISC     | 10-3          | Fuel tank capacity                                      | gal        |           | 30   | 113                 | 30                                   | 113         |  |
|          | 10-4-1        | DEF/AdBlue Tank capacity                                | gal        |           | 5  | 19                  | N/A                                  | N/A         |  |
|          | 10-5          | Steering design   | Type       |           | Hydrostatic  |                     | Hydrostatic                          |             |  |
|          | 10-6          | Number of steering rotations                            | #          |           | 5.0  |                     | 5.0                                  |             |  |
|          | 10-8          | Towing coupling, type DIN                               | Type       |           | Pin  |                     | Pin                                  |             |  |
|          |               |   |            |           |  |                     |                                      |             |  |

#### NOTES:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster<sup>®</sup> truck.

(1) Based on Tier 4 engine and 588TB spreader

(2) Top of spreader

(3) With 588TB spreader

(4) Travel speed with or without load limited to 12 mph (20 kmh) as factory default

(5) Gradeability figures are provided for comparison of tractive performance, but are not intended to endorse the operation of vehicle on the stated inclines.

All capacities are according to EN1459.

All specifications and capacities are valid for trucks equipped with

a Hyster® container handling spreader for handling ISO containers.

Specification data is based on VDI 2198.

#### NOTICE:

Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

Hyster products are subject to change without notice.

Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

#### CERTIFICATION:

Hyster lift trucks meet the design and construction requirements of B56.1-1969, per OSHA Section 1910.178(a)(2), and also comply with the B56.1 revision in effect at time of manufacture. Certification of compliance with the applicable ANSI standards appears on the lift truck. Performance specifications are for a truck equipped as described under Standard Equipment on this Technical Guide. Performance specifications are affected by the condition of the vehicle and how it is equipped, as well as by the nature, condition of the operating area, proper service and maintenance of the vehicle. If these specifications are critical, the proposed application should be discussed with your dealer.

#### NOTE:

Specifications, unless otherwise listed, are for a standard truck without optional equipment.

## FEATURES AND OPTIONS

| PERFORMANCE  | STD  | OPT                  |
|--|--|----------------------|
| Cummins QSB 6.7L Tier 4F diesel engine 164 hp (122 kW)*  | х  |                      |
| Cummins QSB 6.7L Tier 3 diesel engine 156 hp (116 kW)*   | х  |                      |
| Tier 4/Stage IV compliant  | х  |                      |
| Tier 3/Stage IIIA compliant  | х  |                      |
| Wastegate turbocharger, water cooled - Tier 3/Stage IIIA   | х  |                      |
| Variable geometry turbocharger, water cooled - Tier 4  | х  |                      |
| On-demand cooling fan  | х  |                      |
| 120 amp alternator   | х  |                      |
| Performance modes selectable in Integrated Performance Display   | х  |                      |
| Powertrain protection system   | х  |                      |
| Heavy duty air intake  | х  |                      |
| Heavy duty air intake (raised)   |  | х                    |
| Low mount exhaust (below chassis)  | х  |                      |
| High mount exhaust - Tier 4  |  | х                    |
| High mount exhaust - Tier 3  | х  |                      |
| ZF Transmission WG161 3-speeds fwd/3-speeds reverse auto-shifting  | х  |                      |
| Kessler D81 drive axle with wet disc brakes  | х  |                      |
| DRIVE  | STD  | OPT                  |
| Travel speed limiter - unconditional and customer adjustable   |  | х                    |
| Travel speed limiter - loaded (adjustable)   |  | х                    |
| 12.00 - 20 20PR Trelleborg Pneumatic Bias Ply drive and steer tires  | х  |                      |
| 12.00 - R20 Michelin XZM Radial drive and steer tires  |  | х                    |
|  |  |                      |
| 12.00 - R20 Trelleborg Radial drive and steer tires  |  | х                    |
| 12.00 - R20 Trelleborg Radial drive and steer tires<br>12.00 - 20 Pneumatic Shaped Solid drive and steer tires   |  | x<br>x               |
| Ŭ  | STD  |                      |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires  | STD<br>X   | х                    |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires  |  | х                    |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires LIFT On-Demand Load Sensing Hydraulic System   | х  | х                    |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking   | x<br>x   | х                    |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires LIFT On-Demand Load Sensing Hydraulic System Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces  | x<br>x<br>x  | х                    |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking   | x<br>x<br>x<br>x   | х                    |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking         Mast tilt - 5° forward/6° back         Pressure compensated lowering         Hydraulic system temperature protection with performance de-rate   | x<br>x<br>x<br>x<br>x<br>x   | х                    |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking         Mast tilt - 5° forward/6° back         Pressure compensated lowering  | x<br>x<br>x<br>x<br>x<br>x   | X<br>OPT             |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking         Mast tilt - 5° forward/6° back         Pressure compensated lowering         Hydraulic system temperature protection with performance de-rate   | X<br>X<br>X<br>X<br>X<br>X   | X<br>OPT             |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking         Mast tilt - 5° forward/6° back         Pressure compensated lowering         Hydraulic system temperature protection with performance de-rate         HANDLING         Hyster 588TB single handling 20-40ft empty container spreader with   | X<br>X<br>X<br>X<br>X<br>X<br>STD  | X<br>OPT             |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires LIFT On-Demand Load Sensing Hydraulic System Automatic throttle-up when lifting (in neutral or inching) Variable lap mast for low roller forces 2-stage non free lift mast for 4-high stacking Mast tilt - 5° forward/6° back Pressure compensated lowering Hydraulic system temperature protection with performance de-rate HANDLING Hyster 588TB single handling 20-40ft empty container spreader with vertical twistlocks   | X<br>X<br>X<br>X<br>X<br>X<br>STD<br>X   | X<br>OPT             |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking         Mast tilt - 5° forward/6° back         Pressure compensated lowering         Hydraulic system temperature protection with performance de-rate         HANDLING         Hyster 588TB single handling 20-40ft empty container spreader with vertical twistlocks         CANBus spreader controls  | X<br>X<br>X<br>X<br>X<br>X<br>STD<br>X   | X<br>OPT             |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking         Mast tilt - 5° forward/6° back         Pressure compensated lowering         Hydraulic system temperature protection with performance de-rate         HANDLING         Hyster 588TB single handling 20-40ft empty container spreader with vertical twistlocks         CANBus spreader controls         +/- 15/7" (400 mm) sideshift   | X<br>X<br>X<br>X<br>X<br>X<br>STD<br>X<br>X<br>X<br>X                          | X<br>OPT<br>X<br>OPT |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires  LIFT  On-Demand Load Sensing Hydraulic System  Automatic throttle-up when lifting (in neutral or inching)  Variable lap mast for low roller forces  2-stage non free lift mast for 4-high stacking  Mast tilt - 5° forward/6° back  Pressure compensated lowering  Hydraulic system temperature protection with performance de-rate  HANDLING  Hyster 588TB single handling 20-40ft empty container spreader with vertical twistlocks  CANBus spreader controls  +/- 15/7" (400 mm) sideshift  ERGONOMICS   | x<br>x<br>x<br>x<br>x<br>x<br>x<br>stD<br>x<br>x<br>x<br>x<br>x<br>x<br>x<br>z | X<br>OPT<br>X<br>OPT |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking         Mast tilt - 5° forward/6° back         Pressure compensated lowering         Hydraulic system temperature protection with performance de-rate         HANDLING         Hyster 588TB single handling 20-40ft empty container spreader with vertical twistlocks         CANBus spreader controls         +/- 15/7" (400 mm) sideshift         ERCONOMICS         Enclosed operator cabin  | X<br>X<br>X<br>X<br>X<br>X<br>STD<br>X<br>X<br>X<br>X<br>STD<br>X<br>X         | X<br>OPT<br>X<br>OPT |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking         Mast tilt - 5° forward/6° back         Pressure compensated lowering         Hydraulic system temperature protection with performance de-rate         HANDLING         Hyster 588TB single handling 20-40ft empty container spreader with vertical twistlocks         CANBus spreader controls         +/- 15/7" (400 mm) sideshift         ERGONOMICS         Enclosed operator cabin         Manual tilt operator compartment for service   | X<br>X<br>X<br>X<br>X<br>X<br>STD<br>X<br>X<br>X<br>X<br>STD<br>X<br>X         | X<br>OPT<br>X<br>OPT |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking         Mast tilt - 5° forward/6° back         Pressure compensated lowering         Hydraulic system temperature protection with performance de-rate         HANDLING         Hyster 588TB single handling 20-40ft empty container spreader with vertical twistlocks         CANBus spreader controls         +/- 15/7" (400 mm) sideshift         ERGONOMICS         Enclosed operator cabin         Manual tilt operator compartment for service         Powered tilt operator compartment for service   | X<br>X<br>X<br>X<br>X<br>X<br>STD<br>X<br>X<br>X<br>X<br>STD<br>X<br>X<br>X    | X<br>OPT<br>X<br>OPT |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking         Mast tilt - 5° forward/6° back         Pressure compensated lowering         Hydraulic system temperature protection with performance de-rate         HANDLING         Hyster 588TB single handling 20-40ft empty container spreader with vertical twistlocks         CANBus spreader controls         +/- 15/7" (400 mm) sideshift         ERGONOMICS         Enclosed operator cabin         Manual tilt operator compartment for service         Powered tilt operator compartment for service         Isolated cabin mounting for low noise and vibration   | X X X X X X STD X STD X STD X X X X X X X X X X X X X X X X X X X              | X<br>OPT<br>X<br>OPT |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking         Mast tilt - 5° forward/6° back         Pressure compensated lowering         Hydraulic system temperature protection with performance de-rate         HANDLING         Hyster 588TB single handling 20-40ft empty container spreader with vertical twistlocks         CANBus spreader controls         +/- 15/7" (400 mm) sideshift         ERGONOMICS         Enclosed operator cabin         Manual tilt operator compartment for service         Powered tilt operator compartment for service         Isolated cabin mounting for low noise and vibration         Operator presence system                                    | X X X X X X STD X STD X STD X X X X X X X X X X X X X X X X X X X              | X<br>OPT<br>X<br>OPT |
| 12.00 - 20 Pneumatic Shaped Solid drive and steer tires         LIFT         On-Demand Load Sensing Hydraulic System         Automatic throttle-up when lifting (in neutral or inching)         Variable lap mast for low roller forces         2-stage non free lift mast for 4-high stacking         Mast tilt - 5° forward/6° back         Pressure compensated lowering         Hydraulic system temperature protection with performance de-rate         HANDLING         Hyster 588TB single handling 20-40ft empty container spreader with vertical twistlocks         CANBus spreader controls         +/- 15/7" (400 mm) sideshift         ERGONOMICS         Enclosed operator cabin         Manual tilt operator compartment for service         Powered tilt operator compartment for service         Isolated cabin mounting for low noise and vibration         Operator presence system         Mechanical suspension seat | X X X X X X STD X STD X STD X X X X X X X X X X X X X X X X X X X              | X<br>OPT<br>X<br>OPT |

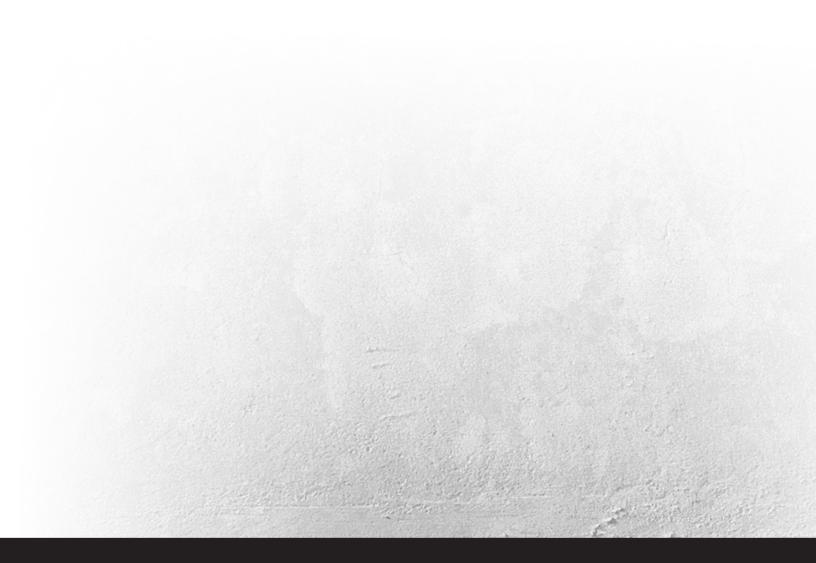
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|--|-----|-----|
| ERGONOMICS (continued)   | STD | OPT |
| High backrest seat   |     | Х   |
| Armrest on left side   | х   |     |
| Cloth seat cover   |     | Х   |
| Vinyl seat cover   | х   |     |
| Seat heating   |     | х   |
| Seat ventilation   |     | х   |
| 2-point high visibility seatbelt                                 | х   |     |
| Lateral seat sliding mechanism                                   |     | х   |
| Floor mat  | х   |     |
| Coat hook  | х   |     |
| Interior dome light  | х   |     |
| Front, top and rear wipers                                       | х   |     |
| "H"-pattern front wiper (enclosed operator cabin)                |     | х   |
| "I"-pattern front wiper (enclosed operator cabin)                | х   |     |
| Laminated glass operator compartment front window                |     | х   |
| Tinted operator compartment windows (doors, rear and top window) |     | х   |
| Tinted operator compartment top window                           |     | x   |
| Plexiglass shield in front of front window                       |     | х   |
| Wire mesh installed on top of operator compartment               |     | x   |
| 7" Integrated Performance Display                                | х   |     |
| Joystick hydraulic control integrated in control arm             | x   |     |
| Steering wheel without spinner knob                              | x   |     |
| Steering wheel with spinner knob                                 |     | x   |
| Directional control lever on steering column                     | x   |     |
| Hyster MONOTROL <sup>®</sup> pedal directional control           |     | x   |
| Directional control on joystick                                  |     | х   |
| Park brake - push button applied                                 | х   |     |
| Park brake - automatically applied                               |     | х   |
| Heater with adjustable speed fan (enclosed operator cabin)       | x   |     |
| Telescoping & tilting steering column                            | х   |     |
| USB outlet inside armrest  | x   |     |
| 24-12 volt DC converter with 1 socket and 2 USB outlets          | x   |     |
| 24-12 volt DC converter with 2 sockets and 2 USB outlets         |     | x   |
| Air conditioning   |     | х   |
| Automatic climate control  |     | x   |
| Reading light  |     | x   |
| Sun shades on top and rear                                       |     | x   |
| Sun visors front window  |     | x   |
| Trainer seat   |     | x   |
| Recirculation fan  | x   | ~   |
| Additional recirculation fan                                     |     | x   |
|  |     |     |
| Accessory mounting bracket on cab front right pillar             |     | X   |
| Document holder on cab front right pillar                        |     | x   |
| Heated top- and/or rear window                                   |     | X   |
| Radio preparation set-up (wiring, two speakers and antenna)      |     | Х   |

\* Standard or optional in select markets or on select models.

### FEATURES AND OPTIONS

| VISIBILITY   | STD | OPT |
|--|-----|-----|
| Top window with armored glass (enclosed operator cabin)                  | х   |     |
| Steel bars under armored glass top window (enclosed operator cabin)      |     | х   |
| Interior wide angle mirrors  | х   |     |
| Exterior mirrors mounted to cab  | х   |     |
| Rear view camera system  |     | х   |
| Radar object detection system  |     | х   |
| Halogen work lights  |     | х   |
| High performance LED work lights   |     | х   |
| Two head lights mounted on front fenders                                 |     | х   |
| Four cabin mounted work lights   |     | х   |
| Two rearward work lights mounted on the cabin                            |     | х   |
| LED stop/tail/brake lights   | х   |     |
| Turn signals, hazard & marker lights (LED)                               |     | х   |
| OPERATION  | STD | OPT |
| Air horn 112 dBA   |     | х   |
| Electric horn 105 dBA  | х   |     |
| Visible alarm – Amber strobe light, ignition activated                   |     | х   |
| Audible alarm – Reverse direction activated 82–102 dB(A), self-adjusting |     | х   |
| Audible alarm – Reverse direction white noise                            |     | х   |
| Forward/reverse motion alarm   |     | х   |
| Blue LED spotlight – rear/front and rear                                 |     | х   |
| Tire pressure monitoring system  |     | х   |
| Air conditioning shut-off with open door                                 |     | х   |
| Automatic engine shutdown with timer                                     |     | х   |
| Lockable battery disconnect switch                                       |     | х   |
| Battery jump start connector (NATO plug)                                 |     | х   |
| Truck start with key switch and start button                             | х   |     |
| Operator password (display) for truck start                              | х   |     |
| Seatbelt interlock for truck start                                       |     | х   |
| Power distribution group with fuses                                      | х   |     |

| OPERATION (continued)  | STD | OPT |
|--|-----|-----|
| Fuses below 30 amps replaced by electric circuit breakers              |     | х   |
| Non-lockable fuel cap  |     |     |
| Lockable fuel cap  |     | х   |
| Diesel fuel inlet strainer in filler neck                              |     | х   |
| Hyster Tracker™ wireless asset management system                       | x   |     |
| Hyster Tracker™ wireless asset management - Access/Verification        |     | х   |
| Hyster Tracker™ wireless asset management - Monitoring                 |     | х   |
| Auto greasing system for base truck                                    |     | х   |
| 24-volt electrical system  | x   |     |
| Engine block heater 110 or 240-volt                                    |     | х   |
| Steer wheel lug nut protection   |     | х   |
| Front mud flaps  |     | х   |
| Rear mud flaps   |     | х   |
| Wire mesh belly pan  |     | х   |
| Wire mesh and plates belly pan   |     | х   |
| APPEARANCE   | STD | ОРТ |
| Second capacity plate  |     | х   |
| Hyster yellow paint base truck   | x   |     |
| Special paint base truck   |     | х   |
| Operator compartment special paint (complete cabin)                    |     | х   |
| Hazard warning striping on counterweight                               |     | х   |
| SUPPLEMENTAL   | STD | ОРТ |
| Literature package   | х   |     |
| Operator's manual  | x   |     |
| CE certification   |     | х   |
| U.L. Label - Standard Construction                                     | x   |     |
| Warranty: 12 months/2,000 hours parts & labor manufacturer's warranty* | х   |     |
| Warranty: 12 months/2,000 hours parts manufacturer's warranty*         | x   |     |





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