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|                                                                                                                                                              |                                                                                                                                               |                                                                                                                                                    |                                                                                                                                          |                                                                                                                                              |                                                                                                                                                 |                                                                                                                                              |
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# HOLLOW BAR

| O.D.<br>mm | I.D.<br>mm | W.T.<br>mm | APPROX<br>WEIGHT<br>Kg/m | O.D.<br>mm | I.D.<br>mm | W.T.<br>mm | APPROX<br>WEIGHT<br>Kg/m | O.D.<br>mm | I.D.<br>mm | W.T.<br>mm | APPROX<br>WEIGHT<br>Kg/m | O.D.<br>mm | I.D.<br>mm | W.T.<br>mm | APPROX<br>WEIGHT<br>Kg/m | O.D.<br>mm | I.D.<br>mm | W.T.<br>mm | APPROX<br>WEIGHT<br>Kg/m |      |
|------------|------------|------------|--------------------------|------------|------------|------------|--------------------------|------------|------------|------------|--------------------------|------------|------------|------------|--------------------------|------------|------------|------------|--------------------------|------|
| 32         | 25         | 3.5        | 2.8                      | 85         | •70        | 7.5        | 15.7                     | 125        | 106        | 9.5        | 30.9                     | 190        | •170       | 10         | 53.7                     | 298        | •266       | 16         | 111                      |      |
|            | 20         | 6          | 4.2                      |            | 67         | 9          | 18.4                     |            | 100        | 12.5       | 37.8                     |            | 165        | 12.5       | 63.8                     |            | 258        | 20         | 137                      |      |
|            | 16         | 8          | 5                        |            | 61         | 12         | 23.3                     |            | 95         | 15         | 43.8                     |            | 160        | 15         | 73.7                     |            | 248        | 25         | 169                      |      |
|            |            |            |                          |            | 55         | 15         | 27.4                     |            | 90         | 17.5       | 50                       |            | •155       | 17.5       | 81.4                     |            | 238        | 30         | 199                      |      |
| 36         | 28         | 4          | 3.6                      | 90         | 50         | 17.5       | 31                       | 132        | •85        | 20         | 54.7                     | 200        | •150       | 20         | 90.7                     | 317        | 226        | 36         | 233                      |      |
|            | 25         | 5.5        | 4.5                      |            | 45         | 20         | 34                       |            | 80         | 22.5       | 61.1                     |            | 150        | 20         | 90.7                     |            | 218        | 40         | 255                      |      |
|            | 20         | 8          | 5.8                      |            |            |            |                          |            | 71         | 27         | 67.9                     |            | 146        | 22         | 98.3                     |            | 208        | 45         | 281                      |      |
|            | 16         | 10         | 6.7                      |            | •75        | 7.5        | 16.9                     |            | 112        | 10         | 34.4                     |            | 132        | 29         | 122                      |            | 198        | 50         | 306                      |      |
| 40         |            |            |                          | 95         | 71         | 9.5        | 20.7                     | 140        | 106        | 13         | 41.7                     | 212        | 118        | 36         | 143                      | 324        | 226        | 45.5       | 327                      |      |
|            | 32         | 4          | 4                        |            | 67         | 11.5       | 24.3                     |            | 98         | 17         | 51.6                     |            | 106        | 42         | 160                      |            | •292       | 16         | 121                      |      |
|            | 28         | 6          | 5.5                      |            | 63         | 13.5       | 27.1                     |            | 90         | 21         | 61.9                     |            |            |            |                          |            | •284       | 20         | 150                      |      |
|            | 25         | 7.5        | 6.7                      |            | 56         | 17         | 32.7                     |            | 80         | 26         | 70.9                     |            | 160        | 20         | 92                       |            | 274        | 25         | 184                      |      |
| 45         | 20         | 10         | 7.8                      | 100        | 50         | 20         | 36.7                     | 150        | 71         | 30.5       | 79                       | 224        | •150       | 25         | 116                      | 356        | 264        | 30         | 217                      |      |
|            |            |            |                          |            | 45         | 22.5       | 38.7                     |            | 65         | 33.5       | 84.7                     |            | 140        | 30         | 133.9                    |            | •252       | 36         | 256                      |      |
|            | 36         | 4.5        | 5                        |            |            |            |                          |            | 55         | 38.5       | 92                       |            | •130       | 35         | 150                      |            | 244        | 40         | 280                      |      |
|            | 32         | 6.5        | 6.7                      |            | 80         | 7.5        | 18.1                     |            | 118        | 11         | 39.9                     |            | 112        | 44         | 177                      |            | 224        | 50         | 338                      |      |
| 50         | 28         | 8.5        | 8.1                      | 106        | 71         | 12         | 26.7                     | 160        | 112        | 14         | 47.5                     | 236        |            |            |                          | 406        | •324       | 16         | 134                      |      |
|            | •25        | 10         | 9.1                      |            | •69        | 13         | 28                       |            | 106        | 17         | 55.3                     |            | 180        | 16         | 80                       |            | •316       | 20         | 166                      |      |
|            | 20         | 12.5       | 10.4                     |            | 67         | 14         | 29.7                     |            | 100        | 20         | 64.1                     |            | 170        | 21         | 108                      |            | 306        | 25         | 204                      |      |
|            |            |            |                          |            | 63         | 16         | 32.8                     |            | •95        | 22.5       | 68.7                     |            | 160        | 26         | 128                      |            | 296        | 30         | 241                      |      |
| 56         | 40         | 5          | 6.7                      | 112        | 59         | 18         | 36.4                     | 170        | 90         | 25         | 76.2                     | 250        | 150        | 31         | 147                      | 419        | •284       | 36         | 284                      |      |
|            | 36         | 7          | 8.4                      |            | 56         | 19.5       | 37.9                     |            | 80         | 30         | 84.7                     |            | 140        | 36         | 164                      |            | 276        | 40         | 311                      |      |
|            | 32         | 9          | 10.2                     |            | 50         | 22.5       | 42.6                     |            | 60         | 40         | 102                      |            | •140       | 36         | 164                      |            | 270        | 43         | 366                      |      |
|            | •28        | 11         | 11.3                     |            | 45         | 25         | 46                       |            |            |            |                          |            | 125        | 43.5       | 189                      |            | 256        | 50         | 377                      |      |
| 63         | 25         | 12.5       | 12.3                     | 118        |            |            |                          | 180        | •132       | 9          | 36.2                     | 273        | 92         | 60         | 233                      | 508        | 236        | 60         | 438                      |      |
|            |            |            |                          |            | 85         | 7.5        | 19.9                     |            | 125        | 12.5       | 47.2                     |            |            |            |                          |            | •336       | 16         | 139                      |      |
|            | 45         | 5.5        | 7.8                      |            | 80         | 10         | 25.7                     |            | 118        | 16         | 57.3                     |            | 190        | 17         | 102                      |            | 328        | 20         | 172                      |      |
|            | 40         | 8          | 10.6                     |            | 75         | 12.5       | 30.7                     |            | 106        | 22         | 73.7                     |            | •180       | 28         | 155                      |            | •318       | 25         | 211                      |      |
| 71         | 36         | 10         | 12.6                     | 122        | 71         | 14.5       | 33.9                     | 180        | •100       | 25         | 81.2                     | 250        | 180        | 22         | 119.7                    | 457        | 308        | 30         | 250                      |      |
|            | 32         | 12         | 13.9                     |            | 63         | 18.5       | 39.6                     |            | 95         | 27.5       | 87.1                     |            | •170       | 27         | 141                      |            | •296       | 36         | 295                      |      |
|            | 28         | 14         | 15.3                     |            | 56         | 22         | 45                       |            | •90        | 30         | 92.8                     |            | 160        | 32         | 161                      |            | 288        | 40         | 324                      |      |
|            |            |            |                          |            |            |            |                          |            | 80         | 35         | 103.1                    |            | •144       | 40         | 190                      |            | 268        | 50         | 392                      |      |
| 75         | •53        | 5          | 8.1                      | 126        | 90         | 8          | 22.1                     | 180        | 75         | 37.5       | 108.2                    | 250        | 132        | 46         | 211                      | 508        |            |            |                          |      |
|            | 50         | 6.5        | 9.9                      |            | 85         | 10.5       | 27.1                     |            |            |            |                          |            |            |            |                          |            | •374       | 16         | 154                      |      |
|            | 45         | 9          | 12.8                     |            | 80         | 13         | 31.9                     |            | 136        | 12         | 49.3                     |            | 190        | 23         | 132                      |            | •366       | 20         | 191                      |      |
|            | 40         | 11.5       | 15.6                     |            | 75         | 15.5       | 36.7                     |            | 132        | 14         | 55.8                     |            | •180       | 28         | 155                      |            | 356        | 25         | 235                      |      |
| 80         | 36         | 13.5       | 17.2                     | 126        | 71         | 17.5       | 40.9                     | 180        | 122        | 19         | 71                       | 250        | •180       | 28         | 155                      | 559        | •346       | 30         | 278                      |      |
|            | 32         | 15.5       | 18.8                     |            | 63         | 21.5       | 47.8                     |            | •118       | 21         | 76.9                     |            | 170        | 33         | 176                      |            | •334       | 36         | 329                      |      |
|            |            |            |                          |            | 56         | 25         | 53                       |            | 112        | 24         | 85.3                     |            | 150        | 38         | 196                      |            | 326        | 40         | 361                      |      |
|            |            |            |                          |            | 50         | 28         | 55.6                     |            | 100        | 30         | 101                      |            | •160       | 43         | 215                      |            | 306        | 50         | 439                      |      |
| 85         | 60         | 5.5        | 10                       | 126        | 50         | 28         | 55.6                     | 180        | •95        | 32.5       | 107                      | 250        | •150       | 43         | 215                      | 419        | 286        | 60         | 512                      |      |
|            | 56         | 7.5        | 12.9                     |            | 45         | 30.5       | 61                       |            | 90         | 35         | 112.1                    |            | 140        | 48         | 233                      |            | 419        | 309        | 55                       | 539  |
|            | 50         | 10.5       | 17                       |            |            |            |                          |            |            |            |                          |            |            |            |                          |            | 299        | 60         | 572                      |      |
|            | 45         | 13         | 19.8                     |            | 95         | 8.5        | 24.6                     |            | 145        | 12.5       | 54.8                     |            | 200        | 25         | 152.6                    |            | 457        | 377        | 40                       | 412  |
| 90         | 40         | 15.5       | 22.1                     | 126        | 90         | 11         | 29.9                     | 180        | 140        | 15         | 63.5                     | 250        | •190       | 30         | 175                      | 559        | 357        | 50         | 502                      |      |
|            | 36         | 17.5       | 23.9                     |            | 85         | 13.5       | 35.3                     |            | 130        | 20         | 79.6                     |            | 180        | 35         | 198                      |            | 347        | 55         | 595                      |      |
|            |            |            |                          |            | 80         | 16         | 40.9                     |            | •126       | 22         | 85.9                     |            | •170       | 40         | 219                      |            | 337        | 60         | 634                      |      |
|            | •63        | 6          | 11.9                     |            | •75        | 18.5       | 45                       |            | 118        | 26         | 97.8                     |            | •160       | 45         | 239                      |            | 327        | 65         | 629                      |      |
| 95         | 60         | 7.5        | 14.3                     | 126        | 71         | 20.5       | 49.6                     | 180        | 110        | 30         | 110                      | 250        | •160       | 45         | 239                      | 508        | 317        | 70         | 668                      |      |
|            | 56         | 9.5        | 17.2                     |            | 63         | 24.5       | 56.4                     |            | 100        | 35         | 122                      |            | 150        | 50         | 258                      |            |            |            |                          |      |
|            | 50         | 12.5       | 21                       |            |            |            |                          |            | •90        | 40         | 133                      |            | 100        | 75         | 334                      |            | 448        | 30         | 354                      |      |
|            | 45         | 15         | 24.1                     |            | 80         | 45         | 144                      |            | 80         | 45         | 144                      |            |            |            |                          |            | •428       | 40         | 462                      |      |
| 100        | 40         | 17.5       | 26                       | 118        | 95         | 11.5       | 33.1                     | 180        | 155        | 12.5       | 58.7                     | 273        | •241       | 16         | 101                      | 610        | •388       | 50         | 565                      |      |
|            |            |            |                          |            | 90         | 14         | 38.5                     |            | 150        | 15         | 68                       |            | •233       | 20         | 125                      |            | 368        | 60         | 663                      |      |
|            | 67         | 6.5        | 13.1                     |            | 85         | 16.5       | 43.9                     |            | •145       | 17.5       | 77                       |            | 223        | 25         | 153                      |            |            | 70         | 756                      |      |
|            | 63         | 8.5        | 16.4                     |            | 80         | 19         | 49.8                     |            | 140        | 20         | 85.3                     |            | 213        | 30         | 180                      |            | 559        | 399        | 80                       | 972  |
| 110        | 56         | 12         | 21.7                     | 126        | •75        | 21.5       | 53.7                     | 180        | 125        | 27.5       | 109.2                    | 250        | 201        | 36         | 210                      | 660        | 490        | 60         | 866                      |      |
|            | 50         | 15         | 25.4                     |            | 71         | 23.5       | 58.7                     |            | 112        | 34         | 128                      |            | 193        | 40         | 230                      |            | 550        | 30         | 488                      |      |
|            | 45         | 17.5       | 28.8                     |            | 63         | 27.5       | 63.7                     |            | 100        | 40         | 144                      |            |            |            |                          |            |            |            |                          |      |
|            | 40         | 20         | 31.4                     |            | 50         | 34         | 72.7                     |            | 70         | 55         | 175                      |            | 173        | 50         | 275                      |            | 660        | 500        | 80                       | 1165 |

| TYPICAL CHEMICAL COMPOSITION |      |      |      |      |      | TYPICAL MECHANICAL PROPERTIES |                |            |
|------------------------------|------|------|------|------|------|-------------------------------|----------------|------------|
| C%                           | Si%  | Mn%  | V%   | S%   | P%   | TENSILE STRENGTH              | YIELD STRENGTH | ELONGATION |
| 0.19                         | 0.30 | 1.50 | 0.12 | 0.03 | 0.03 | 635 MPa                       | 420 MPa        | 18%        |

All sizes listed are available in Carbon steel 20MnV6, except for the sizes listed "-". These and other sizes and grades are available ex-Mill and/or ex-stock overseas. All sizes shown are nominal sizes only. For information on finished machine sizes and other technical data please contact our Sales Office. Some sizes also available in 4140 hardened & tempered high tensile steel and 316L free machining stainless steel. Weights are approximate only.