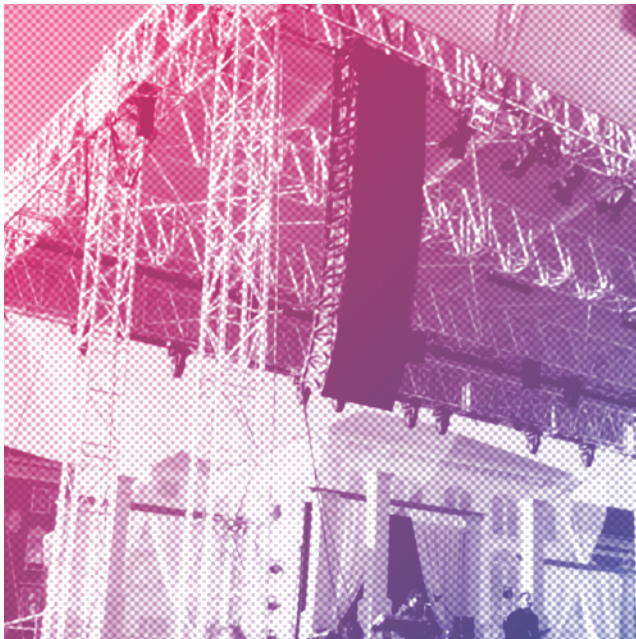
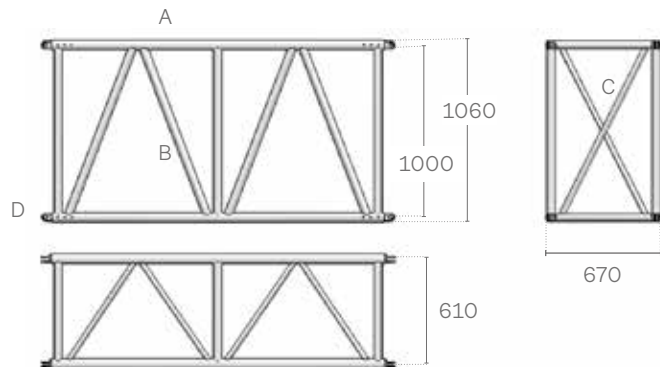


RL105A

Anti-torsion



Rectangular section High Load aluminium truss with 105 x 67 cm long sides. It is intended for uses that require elevated loads on large spans. The steel fork connection bestows sturdiness and wear resistance to the system. It is designed and tested according to the most widespread international standards.



Chords A

Extruded tube \varnothing 60 x 5 mm
EN AW 6082 T6

Diagonals B

Extruded tube \varnothing 50 x 3 mm
EN AW 6082 T6

Braces C

Extruded tube \varnothing 50 x 4 mm
EN AW 6082 T6

Ends D

Steel forks connector
11SMnPb37

Connection systems

KHLP: cylindrical pin + safety R-clip

Gates and accessories

| code | | kg |
|-------------|---|---------------|
| KHLPZ1 | Cylindrical pin + safety R-clip | 0.2 |
| CO67RL | Pick up bar RL 105 | 9.9 |
| RL105TT | RL 105 skate set - 2 pcs | 7.5 On demand |
| RL 105X4 | HL 105 rectangular 4 ways corner | 75.2 |
| MTS 52K02 | Wheel set for sleeve block Set of 8 pcs | 19.6 |
| MTS 52R105 | RL105 4 ways sleeve block Maxitower 52 | 94.8 |
| MTS 52R105H | RL105 3 ways w/hoist support sleeve block - Maxitower 52 | 103.1 |
| MTS 52K01 | Guy-wires fastening to sleeve block - Set of 4 pcs | 6.3 |

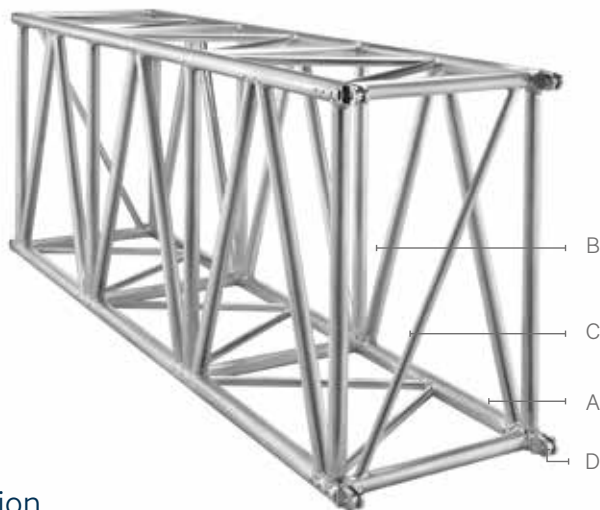
Cantilever load table / Fork connection



Linear elements

| code | cm | kg |
|-----------|----------------|------|
| RL105100A | 106 x 67 x 100 | 41.5 |
| RL105200A | 106 x 67 x 200 | 62.5 |
| RL105300A | 106 x 67 x 300 | 83.5 |

| SPAN | Uniformly distributed load | | | Centre point load | |
|------|----------------------------|--------|------|-------------------|------|
| | m | kg / m | kg | mm | kg |
| 2 | | 1976 | 3952 | 1 | 3018 |
| 4 | | 734 | 2936 | 4 | 2005 |
| 6 | | 382 | 2290 | 11 | 1467 |
| 8 | | 229 | 1831 | 22 | 1124 |
| 10 | | 148 | 1479 | 36 | 882 |



Load table / Fork connection

| SPAN | Unif. distributed load | | | Centre point load | | | Third point load | | | Quarter point load | | | Fifth point load | | |
|------|------------------------|-----------|--------------------|-------------------|-----------|--------------------|------------------|-----------|--------------------|--------------------|-----------|--------------------|------------------|-----------|--------------------|
| | Point load | Full load | Central deflection | Point load | Full load | Central deflection | Point load | Full load | Central deflection | Point load | Full load | Central deflection | Point load | Full load | Central deflection |
| m | kg/m | kg | mm | kg | kg | mm | kg | kg | mm | kg | kg | mm | kg | kg | mm |
| 3 | 3471 | 10414 | 1 | 9669 | 9669 | 1 | 5207 | 10414 | 1 | 3471 | 10414 | 1 | 2603 | 10414 | 1 |
| 4 | 2596 | 10386 | 1 | 8615 | 8615 | 2 | 5009 | 10018 | 2 | 3462 | 10386 | 2 | 2596 | 10386 | 2 |
| 5 | 2072 | 10358 | 3 | 7394 | 7394 | 3 | 4619 | 9238 | 3 | 3398 | 10193 | 4 | 2590 | 10358 | 3 |
| 6 | 1722 | 10330 | 5 | 6461 | 6461 | 5 | 4273 | 8546 | 5 | 3190 | 9569 | 6 | 2574 | 10294 | 6 |
| 7 | 1472 | 10303 | 8 | 5735 | 5735 | 7 | 3841 | 7683 | 8 | 3002 | 9005 | 9 | 2441 | 9764 | 9 |
| 8 | 1284 | 10275 | 12 | 5149 | 5149 | 9 | 3484 | 6969 | 11 | 2827 | 8482 | 12 | 2222 | 8887 | 12 |
| 9 | 1139 | 10247 | 16 | 4663 | 4663 | 12 | 3184 | 6368 | 14 | 2587 | 7761 | 16 | 2006 | 8024 | 16 |
| 10 | 990 | 9896 | 22 | 4255 | 4255 | 15 | 2927 | 5854 | 18 | 2340 | 7019 | 20 | 1826 | 7303 | 20 |
| 11 | 819 | 9005 | 27 | 3905 | 3905 | 19 | 2704 | 5409 | 22 | 2132 | 6395 | 24 | 1672 | 6689 | 24 |
| 12 | 687 | 8246 | 32 | 3603 | 3603 | 23 | 2509 | 5019 | 27 | 1954 | 5863 | 29 | 1540 | 6160 | 29 |
| 13 | 584 | 7591 | 38 | 3342 | 3342 | 27 | 2337 | 4674 | 32 | 1801 | 5403 | 34 | 1425 | 5698 | 34 |
| 14 | 501 | 7020 | 44 | 3108 | 3108 | 32 | 2183 | 4366 | 37 | 1667 | 5000 | 40 | 1323 | 5292 | 40 |
| 15 | 434 | 6516 | 50 | 2899 | 2899 | 37 | 2045 | 4090 | 43 | 1548 | 4645 | 46 | 1232 | 4926 | 46 |
| 16 | 379 | 6068 | 57 | 2711 | 2711 | 42 | 1920 | 3839 | 50 | 1442 | 4326 | 52 | 1151 | 4603 | 53 |
| 17 | 333 | 5666 | 65 | 2540 | 2540 | 48 | 1805 | 3611 | 57 | 1346 | 4039 | 59 | 1078 | 4311 | 60 |
| 18 | 295 | 5302 | 73 | 2387 | 2387 | 54 | 1704 | 3408 | 65 | 1262 | 3786 | 66 | 1011 | 4046 | 68 |
| 19 | 261 | 4968 | 81 | 2244 | 2244 | 61 | 1608 | 3216 | 72 | 1183 | 3548 | 74 | 951 | 3803 | 76 |
| 20 | 234 | 4671 | 90 | 2113 | 2113 | 68 | 1519 | 3038 | 81 | 1111 | 3332 | 82 | 895 | 3580 | 84 |
| 21 | 209 | 4392 | 99 | 1995 | 1995 | 75 | 1439 | 2877 | 90 | 1047 | 3140 | 91 | 844 | 3376 | 93 |
| 22 | 188 | 4135 | 109 | 1884 | 1884 | 83 | 1362 | 2723 | 99 | 986 | 2957 | 100 | 797 | 3190 | 102 |
| 23 | 169 | 3891 | 119 | 1779 | 1779 | 91 | 1290 | 2580 | 109 | 930 | 2791 | 109 | 752 | 3010 | 112 |
| 24 | 152 | 3660 | 129 | 1681 | 1681 | 100 | 1222 | 2443 | 119 | 877 | 2631 | 119 | 711 | 2843 | 122 |
| 25 | 138 | 3452 | 139 | 1589 | 1589 | 109 | 1160 | 2320 | 130 | 828 | 2483 | 129 | 672 | 2687 | 133 |
| 26 | 125 | 3254 | 150 | 1503 | 1503 | 118 | 1100 | 2201 | 141 | 781 | 2344 | 139 | 634 | 2538 | 143 |
| 27 | 114 | 3069 | 162 | 1421 | 1421 | 128 | 1044 | 2088 | 152 | 737 | 2210 | 150 | 601 | 2403 | 155 |
| 28 | 103 | 2897 | 173 | 1343 | 1343 | 138 | 991 | 1981 | 164 | 697 | 2090 | 162 | 568 | 2272 | 166 |
| 29 | 94 | 2730 | 185 | 1270 | 1270 | 149 | 940 | 1880 | 177 | 658 | 1974 | 173 | 537 | 2149 | 179 |
| 30 | 86 | 2573 | 198 | 1200 | 1200 | 160 | 891 | 1783 | 189 | 621 | 1863 | 185 | 508 | 2031 | 191 |
| 31 | 78 | 2424 | 210 | 1133 | 1133 | 171 | 845 | 1690 | 203 | 586 | 1757 | 198 | 480 | 1919 | 204 |
| 32 | 71 | 2283 | 223 | 1069 | 1069 | 183 | 801 | 1602 | 216 | 552 | 1657 | 210 | 453 | 1812 | 217 |
| 33 | 65 | 2148 | 237 | 1008 | 1008 | 196 | 759 | 1517 | 231 | 520 | 1561 | 224 | 427 | 1710 | 231 |

Load table has been prepared in accordance with UNI ENV 1999-1-1 (Eurocode 9). When calculating the allowable loads it is assumed that the load is suspended from the bottom chord and the truss is supported from the top chord at each end.


The values shown in the table are the allowable static loads that can be

applied to the truss. This is the live load or the payload. The self weight of the truss has been taken into account when calculating the values in the table. It should be noted that this are idealised loading conditions and the User shall re-analyze the truss for the loading conditions which prevail for the application being considered.

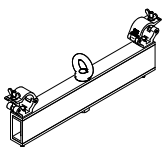


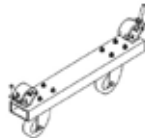

RL105A System

High Load structures can be extended using specially designed accessories for suspension, transportation and reinforcement, including hooks, corner frames and skates. Only forked connectors with steel junction pins are used. Designed to withstand the highest stress and load levels, they offer guaranteed compatibility with the whole series. Gates are short, flat section High Load elements generally used when putting together corners or tower sleeve blocks. Code numbers shown under the pictures refer to the shape and make it easy to identify.

Connections

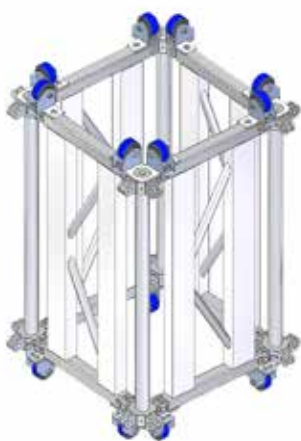
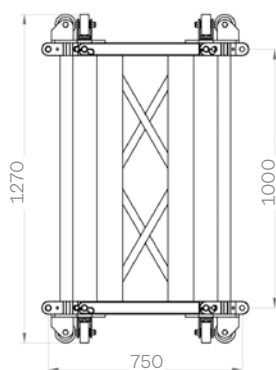
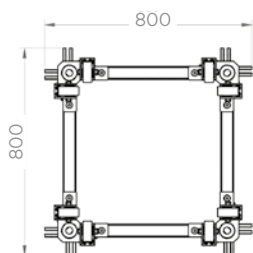
| | | | | |
|---|---|---|--|--|
|  |  |  |  |  |
| KHLB M20 screw bolt + spring washer | KHLD M20 screw nut + spring washer | KHLF Female fork connector complete | KHLG M20 Lifting Eye | KHLM Male fork connector complete |
|  |  |  |  |  |
| KHL P Cylindrical pin + 3 mm safety R-clip | KHL180A 180° double fork aluminum connector | KHL180S 180° double fork steel connector | KHL90LA 90° double fork alum. connector, left | KHL90LS 90° double fork steel connector, left |
|  |  |  |  | |
| KHL90RA 90° double fork alum. connector, right | KHL90RS 90° double fork steel connector, right | KHL180AL149R Alusfera 76 spacer A | TZHL01 FL assembly kit | |

Accessories

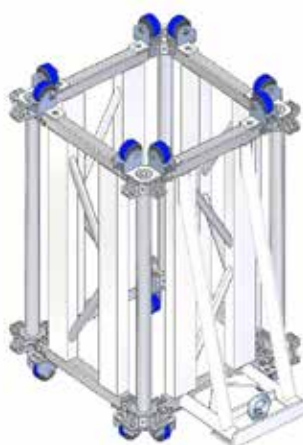
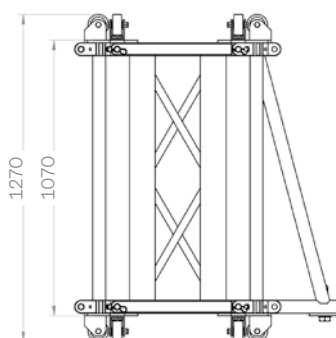
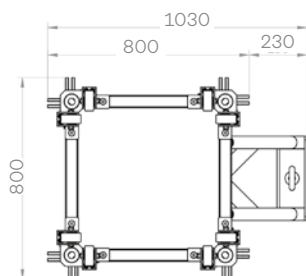
| | | | | |
|---|---|---|--|---|
|  |  |  |  |  |
| CO67RL Pickup bar RL105 | MTS52K01 Guy-wires fastening to sleeve block Set of 4 pcs | MTS52K02 Wheel set for sleeve block - Set of 8 pcs | RL105TT RL 105 skate set 2 pcs | RL105X4 HL 105 rectangular 4 ways corner |

Sleeve blocks

MTS52R105



MTS52R105H



RL105x4

