



**IOWA MOLD TOOLING CO., INC.**

P.O. Box 189  
Garner, IA 50438  
Tel: 641.923.3711  
Fax: 641.923.2424  
[www.imt.com](http://www.imt.com)

**Manual # 99905499**

# **50/345 Technical Specifications**

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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**Section - 1**

**Technical Specifications**

## 50 / 345 - Specifications

| Performance                         | Unit  | K2                                         | K3                                                       | K4                                                                     | K5                                                                                   | K6                                                                                                 | K7                                                                                                              | K8                                                                                                                           |
|-------------------------------------|-------|--------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Loading group (EN12999)             |       | H1/B3                                      | H1/B3                                                    | H1/B3                                                                  | H1/B3                                                                                | H1/B3                                                                                              | H1/B3                                                                                                           | H1/B3                                                                                                                        |
| Load moment                         | ft-lb | 345015                                     | 334165                                                   | 331995                                                                 | 323316                                                                               | 315359                                                                                             | 313913                                                                                                          | 306680                                                                                                                       |
| Hydraulic reach                     | ft    | 27' 1"                                     | 33' 6"                                                   | 41' 0"                                                                 | 47' 6"                                                                               | 55' 0"                                                                                             | 62' 7"                                                                                                          | 70' 1"                                                                                                                       |
| Hydraulic telescopic movement       | ft    | 11' 9"                                     | 18' 5"                                                   | 25' 0"                                                                 | 32' 1"                                                                               | 39' 4"                                                                                             | 46' 8"                                                                                                          | 54' 5"                                                                                                                       |
| Lifting capacity, hydraulic         | lb-ft | 22840-15'1"<br>16445-20'8"<br>12675-26'10" | 22155-15'1"<br>15830-20'8"<br>12080-26'10"<br>9680-33'5" | 21540-15'5"<br>15256-21'0"<br>11508-27'3"<br>9127-33'10"<br>7584-40'4" | 20956-15'8"<br>14705-21'0"<br>10980-27'3"<br>8600-33'10"<br>7055-40'4"<br>6975-47'3" | 20435-15'5"<br>14240-21'0"<br>10540-27'3"<br>8155-33'10"<br>6615-40'4"<br>5510-47'3"<br>4740-54'9" | 19930-15'9"<br>13800-21'4"<br>10140-27'6"<br>7780-34'1"<br>6240-40'8"<br>5135-47'7"<br>4385-55'1"<br>3815-62'4" | 19490-15'9"<br>13425-21'4"<br>9765-27'6"<br>7405-34'1"<br>5885-40'8"<br>4805-47'7"<br>4035-55'1"<br>3485-62'8"<br>3085-70'3" |
| Lifting capacity, manual extensions | lb-ft |                                            |                                                          | 5842-46'9"<br>4762-54'8"<br>3858-62'3"                                 | 4630-54'8"<br>3858-62'3"<br>3086-69'9"                                               | 3726-62'0"<br>3086-69'6"<br>2425-78'1"                                                             | 3086-69'9"<br>2425-78'1"<br>1653-86'3"                                                                          | 2425-78'1"<br>1653-86'3"                                                                                                     |
| Slewing torque, gross               | lb-ft | 36878                                      |                                                          |                                                                        |                                                                                      |                                                                                                    |                                                                                                                 |                                                                                                                              |
| Slewing angle                       | °     |                                            |                                                          |                                                                        |                                                                                      |                                                                                                    |                                                                                                                 |                                                                                                                              |
| Max. heel at max. load moment       | °     | 5                                          |                                                          |                                                                        |                                                                                      |                                                                                                    |                                                                                                                 |                                                                                                                              |
| Slewing speed                       | °/s   | 10                                         |                                                          |                                                                        |                                                                                      |                                                                                                    |                                                                                                                 |                                                                                                                              |

| Minimum Chassis Specs        |                                |
|------------------------------|--------------------------------|
| Front Axle Rating (GAWR)     | 20,000 lbs (9,072 kg)          |
| Rear Axle Rating (GAWR)      | 40,000 lbs (18,150 kg)         |
| Resistance to Bending Moment | 5,175,000 in-lbs (59,622 kg-m) |



## 50 / 345 - Specifications - Continued

| Dimensions                                    | Unit  | K2    | K3 | K4 | K5 | K6 | K7    | K8 |
|-----------------------------------------------|-------|-------|----|----|----|----|-------|----|
| Height above chassis                          | ft-in | 7' 9" |    |    |    |    | 8' 0" |    |
| Width                                         | ft-in | 8' 3" |    |    |    |    |       |    |
| Length, no extra valves                       | ft-in | 3' 9" |    |    |    |    | 4' 3" |    |
| Length, with extra valves (hose guides)       | ft-in | 4' 3" |    |    |    |    | -     | -  |
| Length, with 2 extra valve (hose reels)       | ft-in |       |    |    |    |    | 4' 7" |    |
| Length, with extra valves (int. hose routing) | ft-in | 3' 9" |    |    |    |    |       |    |
| Stabilizer spread, min., 2xS=1625             | ft-in | 18'2" |    |    |    |    |       |    |
| Stabilizer spread max., 2xS=2735              | ft-in | 25'5" |    |    |    |    |       |    |

| Weights, basic loader                    | Unit | K2   | K3   | K4                | K5                | K6                | K7                | K8         |
|------------------------------------------|------|------|------|-------------------|-------------------|-------------------|-------------------|------------|
| Standard loader 1), excl. stabilizers    | lb   | 7959 | 8598 | 9193              | 9744              | 10185             | 10582             | 10968      |
| Stabilizers beam, 1xS=1625               | lb   | 408  |      |                   |                   |                   |                   |            |
| Stabilizers beam, 1xS=2065               | lb   | 628  |      |                   |                   |                   |                   |            |
| Stabilizers beam, 1xS=2735               | lb   | 683  |      |                   |                   |                   |                   |            |
| Stabilizer cylinders, 1x swing-up        | lb   | 143  |      |                   |                   |                   |                   |            |
| Stabilizers cylinders, 1xhyd. swing-up   | lb   | 159  |      |                   |                   |                   |                   |            |
| Mounting kit - long, 8 bolts             | lb   | 220  |      |                   |                   |                   |                   |            |
| Mounting kit - standard 8 bolts          | lb   | 198  |      |                   |                   |                   |                   |            |
| Mounting kit - subframe                  | lb   | 110  |      |                   |                   |                   |                   |            |
| Manual extensions                        | lb   |      |      | 331<br>298<br>231 | 331<br>298<br>231 | 231<br>198<br>181 | 198<br>181<br>137 | 181<br>137 |
| Oil in loader (stowing position)         | lb   | 104  | 115  | 123               | 134               | 146               | 157               | 165        |
| Tank 250L, excl. oil (fitted on loader)* | lb   | 205  |      |                   |                   |                   |                   |            |
| Tank 160L, excl. oil (fitted on loader)* | lb   | 165  |      |                   |                   |                   |                   |            |

1) Weights  $\pm$  5% because of tolerances for plate thickness

## 50 / 345 - Specifications - Continued

| Weights, equipment                         | Unit | K2  | K3  | K4  | K5  | K6  | K7  | K8  |
|--------------------------------------------|------|-----|-----|-----|-----|-----|-----|-----|
| 1 extra valve, int hose routing            | lb   | 165 |     | 176 |     | 187 |     |     |
| 2 extra valves, hose guides                | lb   | 165 | 198 | 231 | 265 | 298 |     |     |
| 2 extra valve, hose reels                  | lb   |     |     |     |     |     | 408 |     |
| 2 extra valve, int. hose routing           | lb   | 287 |     | 309 | 320 | 331 |     |     |
| Winch (2.5 t), single snatch block         | lb   | 397 | 397 | 397 | 408 | 408 | 408 | 419 |
| Winch (2.5 t), double snatch block         | lb   | 441 |     |     | 452 |     |     | 463 |
| Winch (3.2 t), single snatch block         | lb   | 529 |     |     |     |     |     |     |
| Winch (3.2 t), double snatch block         | lb   | 606 |     |     | 617 |     |     | 628 |
| Extra proportional RC-function on the base | lb   | 26  |     |     |     |     |     |     |
| Oil cooler                                 | lb   | 66  |     |     |     |     |     |     |

| Max. Load on stabilizers (per stabilizer cylinder) | Unit  | K2  | K3 | K4 | K5 | K6 | K7 | K8 |
|----------------------------------------------------|-------|-----|----|----|----|----|----|----|
| S=1650 (swing-up / hydr. Swing-up)                 | ft-lb | 397 |    |    |    |    |    |    |
| S=2065 (swing-up / hydr. swing-up)                 | ft-lb | 375 |    |    |    |    |    |    |
| S=2735 (swing-up / hydr. swing-up)                 | ft-lb | 353 |    |    |    |    |    |    |

| Power consumption (oil capacity)  | Unit | K2   | K3   | K4   | K5   | K6 | K7   | K8   |
|-----------------------------------|------|------|------|------|------|----|------|------|
| Working pressure                  | PSI  | 5294 |      |      |      |    |      |      |
| Max. pump performance, fixed flow | gpm  | 21   |      |      |      |    |      |      |
|                                   | KW   | 49   |      |      |      |    |      |      |
| Max. pump performance, variable   | gpm  | 29   |      |      |      |    |      |      |
|                                   | KW   | 68   |      |      |      |    |      |      |
| Max. oil consumption              | gal  | 17.7 | 19.6 | 21.1 | 22.7 | 24 | 24.8 | 25.9 |

## 50 / 345 - Metric Specifications

| Performance                            | Unit | 50 / 345<br>K2 | 50 / 345<br>K3 | 50 / 345<br>K4 | 50 / 345<br>K5 | 50 / 345<br>K6 | 50 / 345<br>K7 | 50 / 345<br>K8 |
|----------------------------------------|------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Loading group<br>(EN12999)             |      | H1/B3          | H1/B3          | H1/B3          | H1/B3          | H1/B3          | H1/B3          | H1/B3          |
| Load moment                            | tm   | 47.7           | 46.2           | 45.9           | 44.7           | 43.6           | 43.4           | 42.4           |
| Hydraulic reach                        | m    | 8.25           | 10.25          | 12.5           | 14.5           | 16.75          | 19.1           | 21.45          |
| Hydraulic<br>telescopic<br>movement    | mm   | 3625           | 5625           | 7625           | 9775           | 12000          | 14275          | 16600          |
| Lifting capacity.<br>hydraulic         | kg-m | 10360-4.6      | 10050-4.6      | 9770-4.7       | 9510-4.7       | 9270-4.7       | 9040-4.8       | 8840-4.8       |
|                                        |      | 7460-6.3       | 7180-6.3       | 6920-6.4       | 6670-6.4       | 6460-6.4       | 6260-6.5       | 6090-6.5       |
|                                        |      | 5750-8.2       | 5480-8.2       | 5220-8.3       | 4980-8.3       | 4780-8.4       | 4600-8.4       | 4430-8.4       |
|                                        |      |                | 4390-10.2      | 4140-10.3      | 3900-10.3      | 3700-10.3      | 3530-10.4-     | 3360-10.4      |
|                                        |      |                |                | 3440-12.30     | 3200-12.3      | 3000-12.3      | 2830-12.4      | 2670-12.4      |
|                                        |      |                |                |                | 2710-14.4      | 2500-14.4      | 2330-14.5      | 2180-14.5      |
|                                        |      |                |                |                |                | 2150-16.7      | 1990-16.8      | 1830-16.8      |
| Lifting capacity.<br>manual extensions | kg-m |                |                | 2650-14.3      | 2100-16.7      | 1690-18.9      | 1400-21.3      | 1100-23.8      |
|                                        |      |                |                | 2160-16.7      | 1750-19.0      | 1400-21.3      | 1100-23.8      | 750-26.3       |
|                                        |      |                |                | 1750-19.0      | 1400-21.3      | 1100-23.8      | 750-26.3       |                |
|                                        |      |                |                |                |                |                |                |                |
|                                        |      |                |                |                |                |                |                |                |
| Slewing torque.<br>gross               | kNm  | 50             |                |                |                |                |                |                |
| Slewing angle                          | °    | -              |                |                |                |                |                |                |
| Max. heel at max.<br>load moment       | °    | 5              |                |                |                |                |                |                |
| Slewing speed                          | °/s  | 10             |                |                |                |                |                |                |

## 50 / 345 - Metric Specifications - Continued

| Dimensions                                    | Unit | K2   | K3 | K4 | K5 | K6 | K7   | K8 |
|-----------------------------------------------|------|------|----|----|----|----|------|----|
| Height above chassis                          | mm   | 2398 |    |    |    |    | 2438 |    |
| Width                                         | mm   | 2519 |    |    |    |    |      |    |
| Length, no extra valves                       | mm   | 1198 |    |    |    |    | 1298 |    |
| Length, with extra valves (hose guides)       | mm   | 1324 |    |    |    |    |      |    |
| Length, with 2 extra valve (hose reels)       | mm   |      |    |    |    |    | 1430 |    |
| Length, with extra valves (int. hose routing) | mm   | 1198 |    |    |    |    |      |    |
| Stabilizer spread min., 2xS=1625              | mm   | 5550 |    |    |    |    |      |    |
| Stabilizer spread max., 2xS=2735              | mm   | 7770 |    |    |    |    |      |    |

| Weights, basic loader                    | Unit | K2   | K3   | K4   | K5   | K6   | K7   | K8   |
|------------------------------------------|------|------|------|------|------|------|------|------|
| Standard loader 1), excl. stabilizers    | kg   | 3610 | 3900 | 4170 | 4420 | 4620 | 4800 | 4975 |
| Stabilizers beam, 1xS=1625               | kg   | 185  |      |      |      |      |      |      |
| Stabilizers beam, 1xS=2065               | kg   | 285  |      |      |      |      |      |      |
| Stabilizers beam, 1xS=2735               | kg   | 310  |      |      |      |      |      |      |
| Stabilizer cylinders, 1x swing-up        | kg   | 65   |      |      |      |      |      |      |
| Stabilizers cylinders, 1xhyd. swing-up   | kg   | 72   |      |      |      |      |      |      |
| Mounting kit - long, 8 bolts             | kg   | 100  |      |      |      |      |      |      |
| Mounting kit - standard 8 bolts          | kg   | 90   |      |      |      |      |      |      |
| Mounting kit - subframe                  | kg   | 50   |      |      |      |      |      |      |
| Manual extensions                        | kg   |      |      | 150  | 135  | 105  | 90   | 82   |
|                                          | kg   |      |      | 135  | 105  | 90   | 82   | 62   |
|                                          | kg   |      |      | 105  | 90   | 82   | 62   |      |
| Oil in loader (stowing position)         | kg   | 47   | 52   | 56   | 61   | 66   | 71   | 75   |
| Tank 250L, excl. oil (fitted on loader)* | kg   | 93   |      |      |      |      |      |      |
| Tank 160L, excl. oil (fitted on loader)* | kg   | 75   |      |      |      |      |      |      |

1) Weights  $\pm 5\%$  because of tolerances for plate thickness

## 50 / 345 - Metric Specifications - Continued

| Weights, equipment                         | Unit | K2  | K3 | K4  | K5  | K6  | K7  | K8  |
|--------------------------------------------|------|-----|----|-----|-----|-----|-----|-----|
| 1 extra valve, int hose routing            | kg   | 75  |    | 80  |     | 85  |     |     |
| 2 extra valves, hose guides                | kg   | 75  | 90 | 105 | 120 | 135 |     |     |
| 1 extra valve, hose reels                  | kg   |     |    |     |     |     | 185 |     |
| 1 extra valve, int. hose routing           | kg   | 130 |    | 140 | 145 | 150 |     |     |
| Winch (2.5 t), single snatch block         | kg   | 180 |    |     | 185 |     |     | 190 |
| Winch (2.5 t), double snatch block         | kg   | 200 |    |     | 205 |     |     | 210 |
| Winch (3.2 t), single snatch block         | kg   | 240 |    |     |     |     |     |     |
| Winch (3.2 t), double snatch block         | kg   | 275 |    |     | 280 |     |     | 285 |
| Extra proportional RC-function on the base | kg   | 12  |    |     |     |     |     |     |
| Oil cooler                                 | kg   | 30  |    |     |     |     |     |     |

| Max. Load on stabilizers (per stabilizer cylinder) | Unit | K2  | K3 | K4 | K5 | K6 | K7 | K8 |
|----------------------------------------------------|------|-----|----|----|----|----|----|----|
| S=1650 (swing-up / hydr. Swing-up)                 | kN   | 180 |    |    |    |    |    |    |
| S=2065 (swing-up / hydr. swing-up)                 | kN   | 170 |    |    |    |    |    |    |
| S=2735 (swing-up / hydr. swing-up)                 | kN   | 160 |    |    |    |    |    |    |

| Power consumption (oil capacity)  | Unit  | K2  | K3 | K4 | K5 | K6 | K7 | K8 |
|-----------------------------------|-------|-----|----|----|----|----|----|----|
| Working pressure                  | Bar   | 365 |    |    |    |    |    |    |
| Max. pump performance, fixed flow | L/min | 80  |    |    |    |    |    |    |
|                                   | KW    | 49  |    |    |    |    |    |    |
| Max. pump performance, variable   | L/min | 110 |    |    |    |    |    |    |
|                                   | KW    | 68  |    |    |    |    |    |    |
| Max. oil consumption              |       | 67  | 74 | 80 | 86 | 91 | 94 | 98 |



**Section - 2**

**Technical Specifications-Fly-Jibs**

## 50/345 - Specifications with Fly-Jib

| Performance                               | Unit  | K6<br>FJ1000<br>K3                                                 | K6<br>FJ1000<br>K4                                                      | K6<br>FJ1000<br>K5                                                                     | K7<br>FJ600<br>K3                                                  | K7<br>FJ600<br>K4                                                      |
|-------------------------------------------|-------|--------------------------------------------------------------------|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------------|
| Load moment                               | ft-lb | 200088                                                             | 191643                                                                  | 205935                                                                                 | 198861                                                             | 213442                                                                 |
| Hydraulic reach                           | ft    | 16' 4"                                                             | 22' 1"                                                                  | 28' 6"                                                                                 | 27' 5"                                                             | 29' 6"                                                                 |
| Outreach<br>with manual<br>extensions     | ft    | -                                                                  | 93' 6"                                                                  | -                                                                                      | 102' 7"                                                            | 103' 3"                                                                |
| Lifting capacity,<br>hydraulic            | lb-ft | 2590-64' 6"<br>2359-69' 9"<br>2161-75' 1"<br>1984-81' 0"<br>-<br>- | 2579-64' 3"<br>2337-69' 6"<br>2138-74' 8"<br>1962-80' 7"<br>1676-86' 9" | 2425-64' 6"<br>2183-69' 6"<br>1984-75' 1"<br>1808-81' 0"<br>1543-87' 3"<br>1268-93' 5" | 2260-72' 2"<br>2061-77' 8"<br>1720-83' 7"<br>1279-89' 9"<br>-<br>- | 2249-72' 2"<br>2050-77' 8"<br>1642-84' 0"<br>1202-90' 2"<br>948-96' 5" |
| Lifting capacity,<br>manual<br>extensions | lb-ft | -<br>-                                                             | 1246-94' 2"<br>1069-100' 4"                                             | -<br>-                                                                                 | 970-96' 5"<br>772-103' 0"                                          | 772-103' 0"<br>-                                                       |

| Dimensions                                 | Unit  | K6<br>FJ1000<br>K3 | K6<br>FJ1000<br>K4 | K6<br>FJ1000<br>K5 | K7<br>FJ600<br>K3 | K7<br>FJ600<br>K4 |
|--------------------------------------------|-------|--------------------|--------------------|--------------------|-------------------|-------------------|
| Height above chassis-with winch            | ft-in | 9' 2"              |                    |                    | 9' 1"             |                   |
| Height above chassis- excl. winch          | ft-in | 9' 2"              |                    |                    | 9' 1"             |                   |
| Width                                      | ft-in | 8' 2"              |                    |                    |                   |                   |
| Length, without extra valve kit on fly-jib | ft-in | 4' 3"              |                    |                    |                   |                   |
| Length, with extra valve kit on fly-jib    | ft-in | 4' 3"              |                    |                    | 4' 7"             |                   |

| Weights, basic loader       | Unit | K6<br>FJ1000<br>K3 | K6<br>FJ1000<br>K4 | K6<br>FJ1000<br>K5 | K7<br>FJ600<br>K3 | K7<br>FJ600<br>K4 |
|-----------------------------|------|--------------------|--------------------|--------------------|-------------------|-------------------|
| Fly-jib 1)                  | lb   | 1477               | 1653               | 1808               | 1036              | 1168              |
| Manual Extensions           | lb   | -<br>-             | 77<br>88           | -<br>-             | 66<br>66          | 44<br>-           |
| 1 extra valve (hose reels)  | lb   | 99                 |                    |                    |                   |                   |
| 2 extra valves (hose reels) | lb   | 198                |                    |                    |                   |                   |

1) Weights  $\pm$  5% because of tolerances for plate thickness



## 50/345 - Specifications with Fly-Jib (Metric)

| Performance                               | Unit | K6<br>FJ1000<br>K3                                       | K6<br>FJ1000<br>K4                                              | K6<br>FJ1000<br>K5                                                    | K7<br>FJ600<br>K3                                       | K7<br>FJ600<br>K4                                              |
|-------------------------------------------|------|----------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------|---------------------------------------------------------|----------------------------------------------------------------|
| Load moment                               | m    | 24.7                                                     | 26.55                                                           | 28.53                                                                 | 27.55                                                   | 29.57                                                          |
| Hydraulic reach                           | mm   | 5005                                                     | 6745                                                            | 8730                                                                  | 5450                                                    | 7400                                                           |
| Outreach<br>with manual<br>extensions     | m    | -                                                        | 28.53                                                           | -                                                                     | 31.3                                                    | 31.5                                                           |
| Lifting capacity,<br>hydraulic            | kg-m | 1175-19.7<br>1070-21.3<br>980-22.9<br>900-24.7<br>-<br>- | 1170-19.6<br>1060-21.2<br>970-22.8<br>890-24.6<br>760-26.5<br>- | 1100-19.7<br>990-21.3<br>900-22.9<br>820-24.7<br>700-26.6<br>575-28.5 | 1025-22.0<br>935-23.7<br>780-25.5<br>580-27.4<br>-<br>- | 1020-22.0<br>930-23.7<br>745-25.6<br>545-27.5<br>430-29.4<br>- |
| Lifting capacity,<br>manual<br>extensions | kg-m | -<br>-                                                   | 565-28.7<br>485-30.6                                            | -<br>-                                                                | 440-29.4<br>350-31.4"                                   | 350-31.4<br>-                                                  |

| Dimensions                                 | Unit | K6<br>FJ1000<br>K3 | K6<br>FJ1000<br>K4 | K6<br>FJ1000<br>K5 | K7<br>FJ600<br>K3 | K7<br>FJ600<br>K4 |
|--------------------------------------------|------|--------------------|--------------------|--------------------|-------------------|-------------------|
| Height above chassis-with winch            | mm   | 2790               |                    |                    | 2785              |                   |
| Height above chassis- excl. winch          | mm   | 2790               |                    |                    | 2770              |                   |
| Width                                      | mm   | 2500               |                    |                    |                   |                   |
| Length, without extra valve kit on fly-jib | mm   | 1324               |                    |                    | 1298              |                   |
| Length, with extra valve kit on fly-jib    | mm   | 1324               |                    |                    | 1430              |                   |

| Weights, basic loader       | Unit | K6<br>FJ1000<br>K3 | K6<br>FJ1000<br>K4 | K6<br>FJ1000<br>K5 | K7<br>FJ600<br>K3 | K7<br>FJ600<br>K4 |
|-----------------------------|------|--------------------|--------------------|--------------------|-------------------|-------------------|
| Fly-jib 1)                  | kg   | 670                | 750                | 820                | 470               | 530               |
| Manual Extensions           | kg   | -<br>-             | 35<br>30           | -<br>-             | 30<br>30          | 20<br>-           |
| 1 extra valve (hose reels)  | kg   | 45                 |                    |                    |                   |                   |
| 2 extra valves (hose reels) | kg   | 90                 |                    |                    |                   |                   |

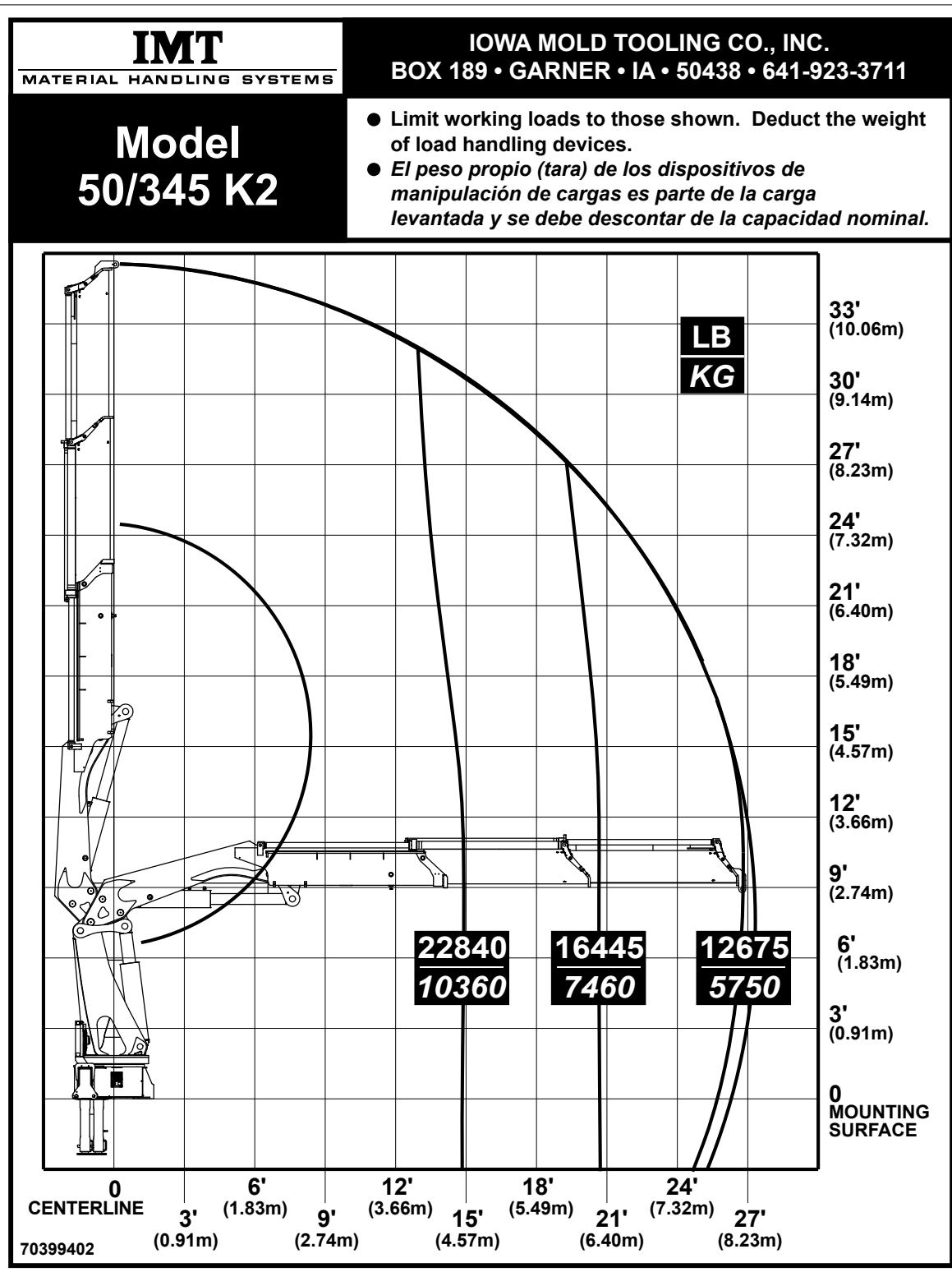
1) Weights  $\pm$  5% because of tolerances for plate thickness

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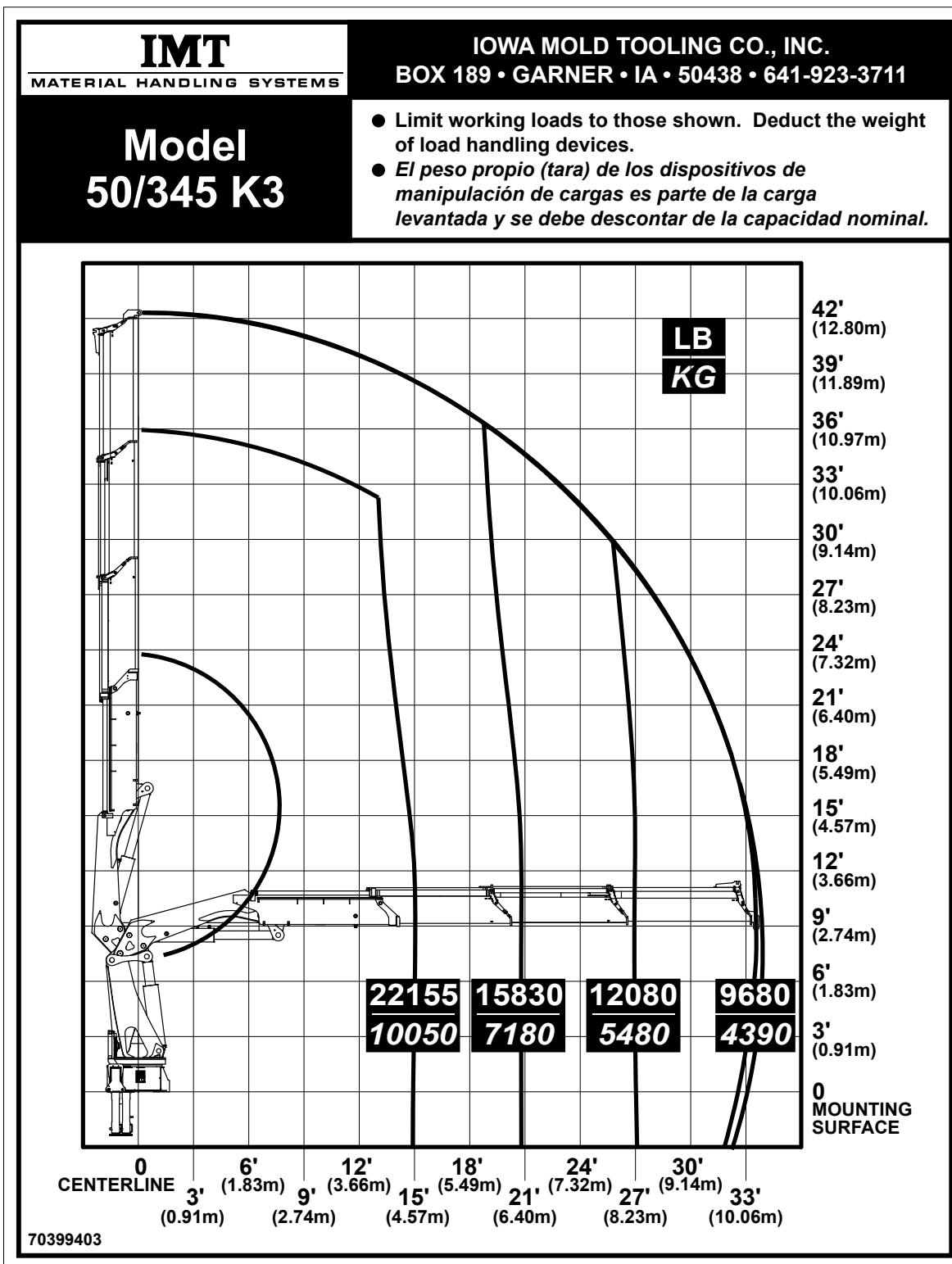
**Section - 3**

**Load Capacity Charts**

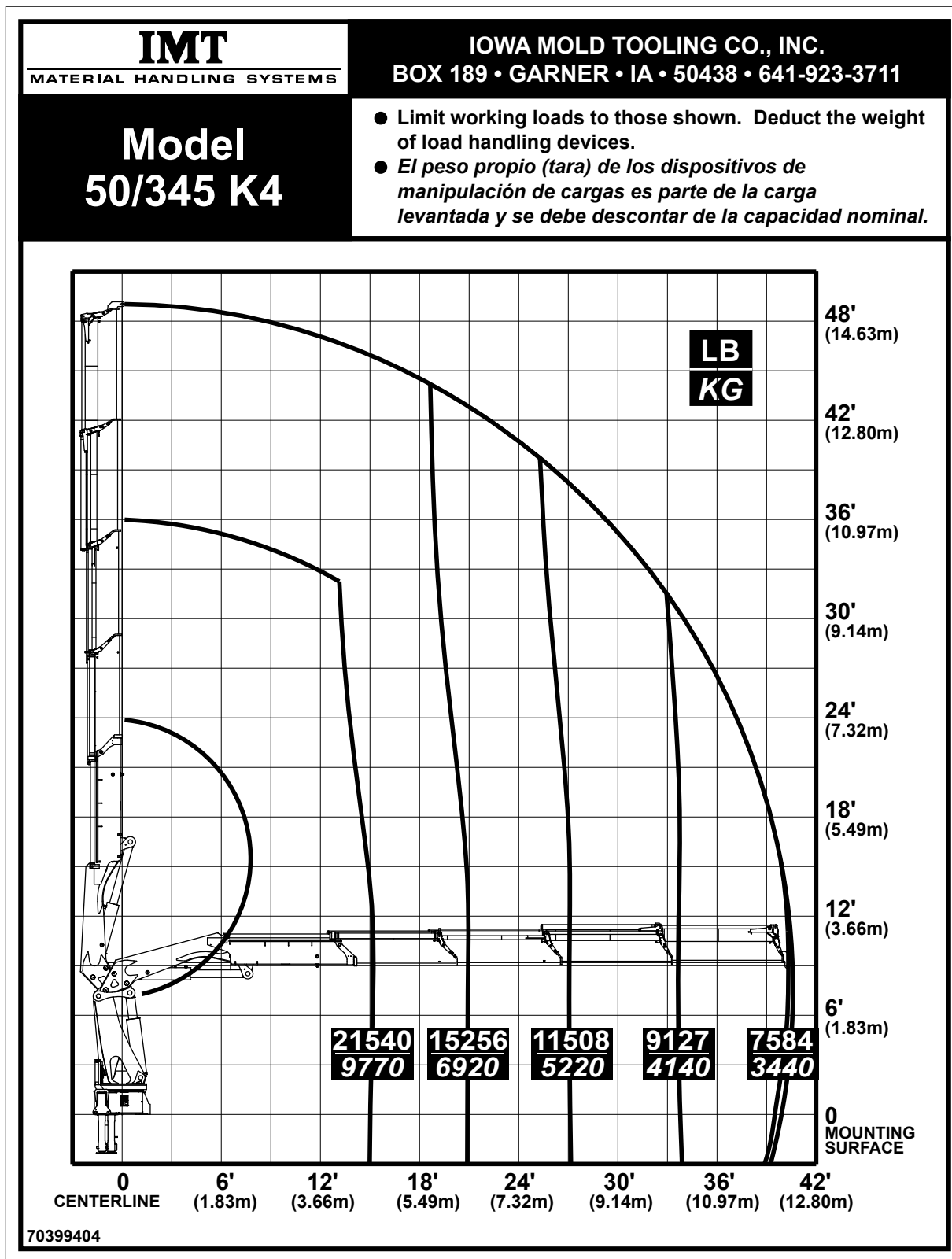
## 50/345 K2 - Capacity Chart



## 50/345 K3 - Capacity Chart



## 50/345 K4 - Capacity Chart



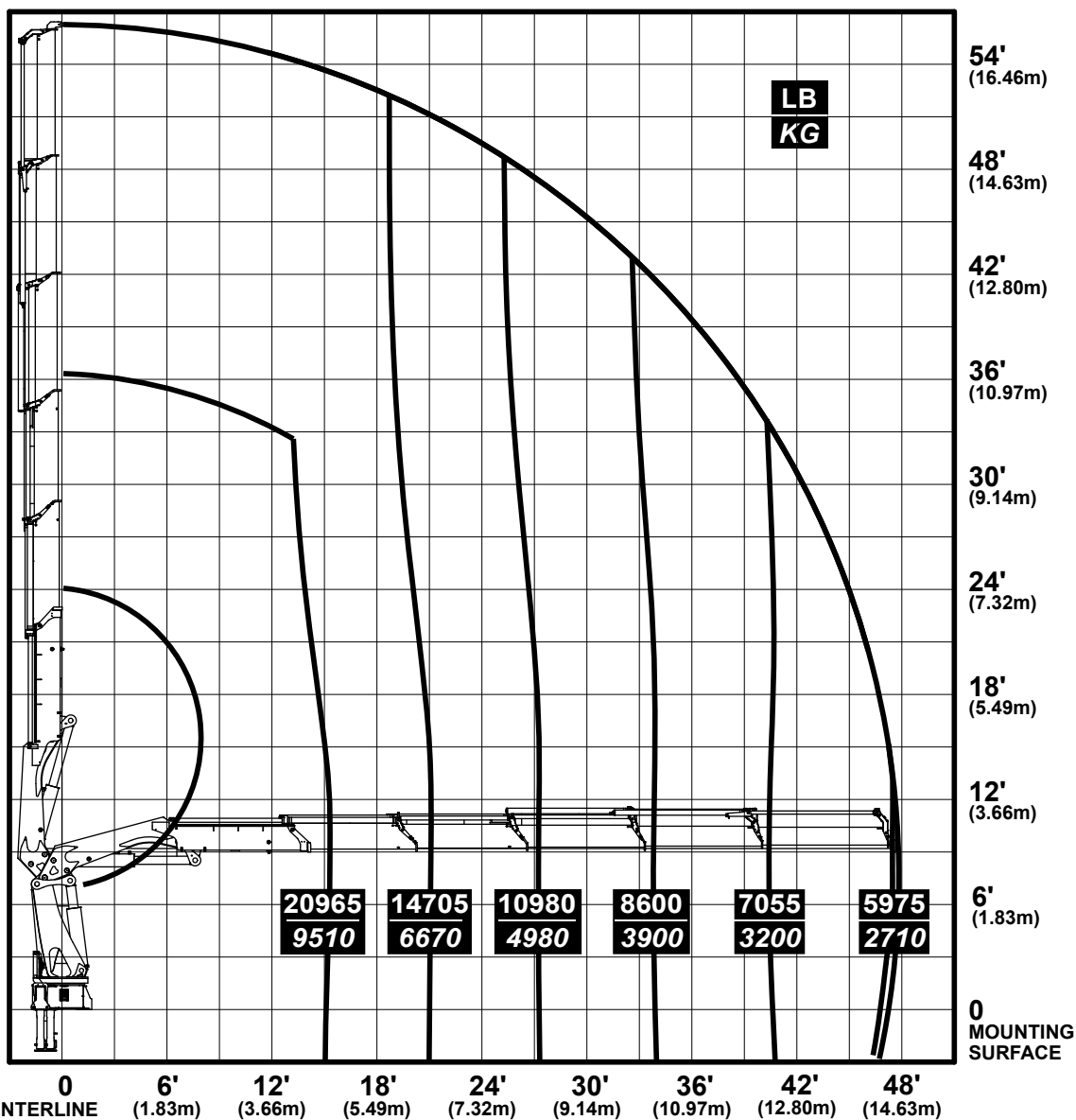
## 50/345 K5 - Capacity Chart

**IMT**  
MATERIAL HANDLING SYSTEMS

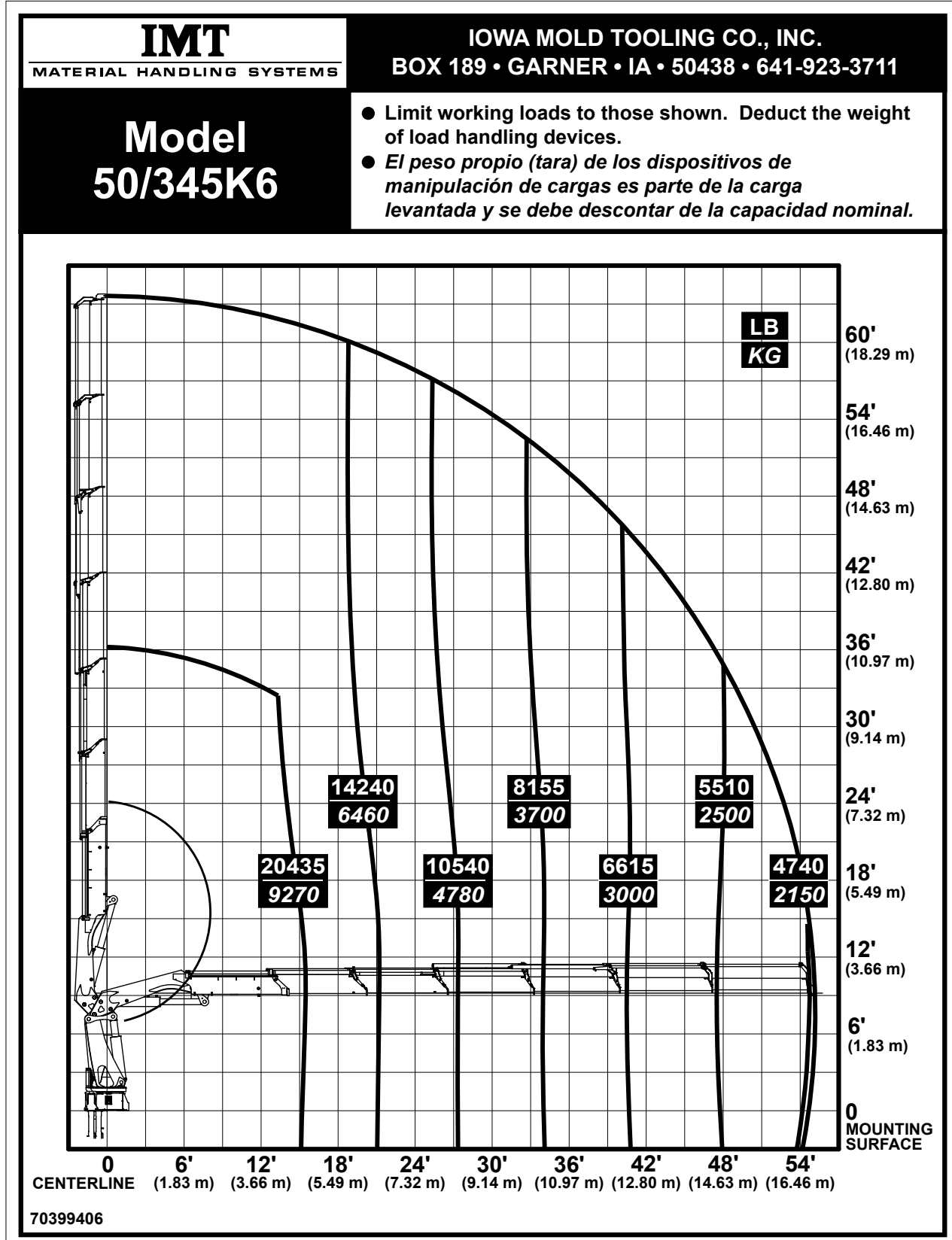
IOWA MOLD TOOLING CO., INC.  
BOX 189 • GARNER • IA • 50438 • 641-923-3711

### Model 50/345 K5

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



## 50/345 K6 - Capacity Chart





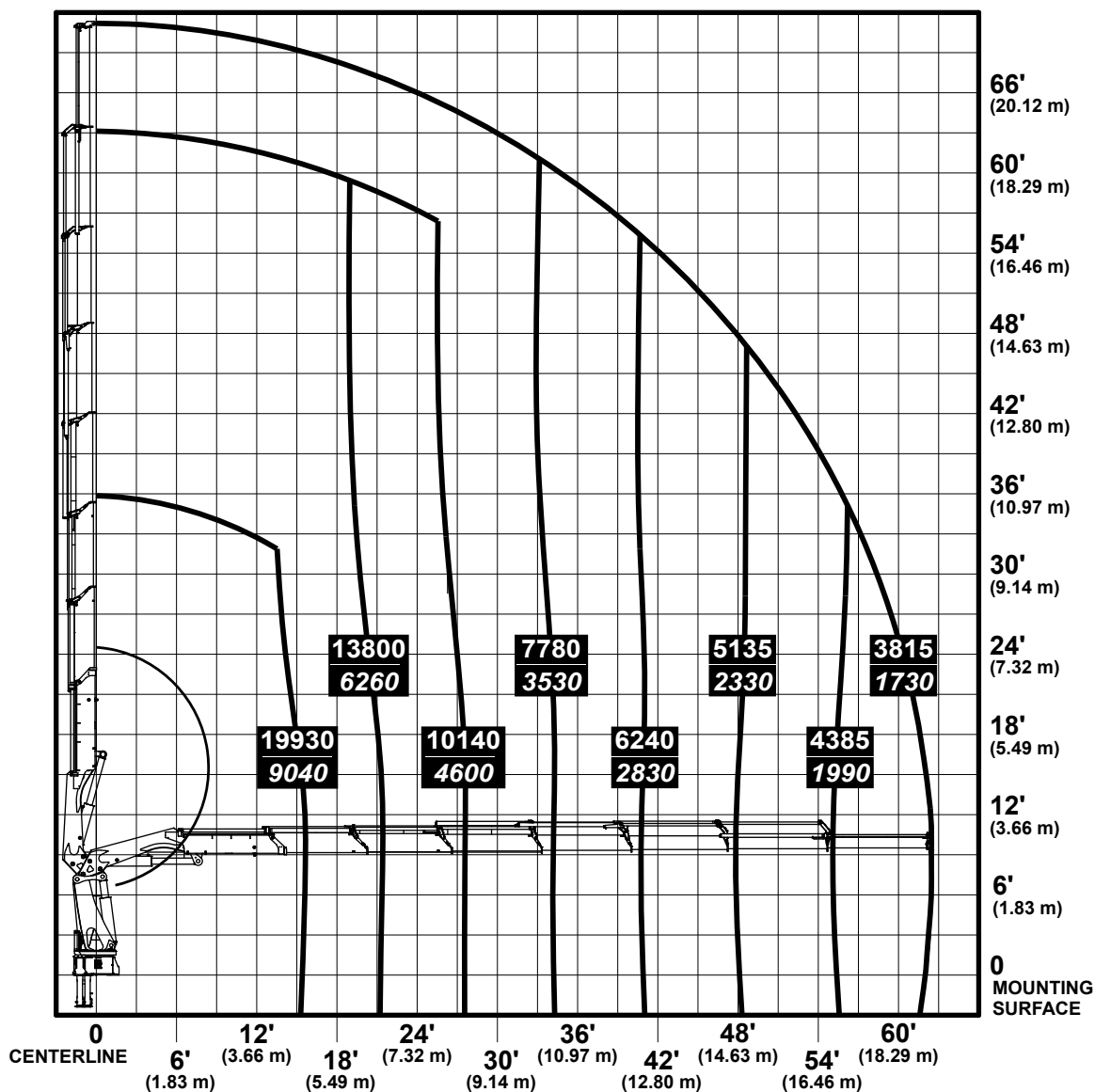
## 50/346 K7 - Capacity Chart

**IMT**  
MATERIAL HANDLING SYSTEMS

IOWA MOLD TOOLING CO., INC.  
BOX 189 • GARNER • IA • 50438 • 641-923-3711

### Model 50/345K7

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



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## 50/345 K8 - Capacity Chart

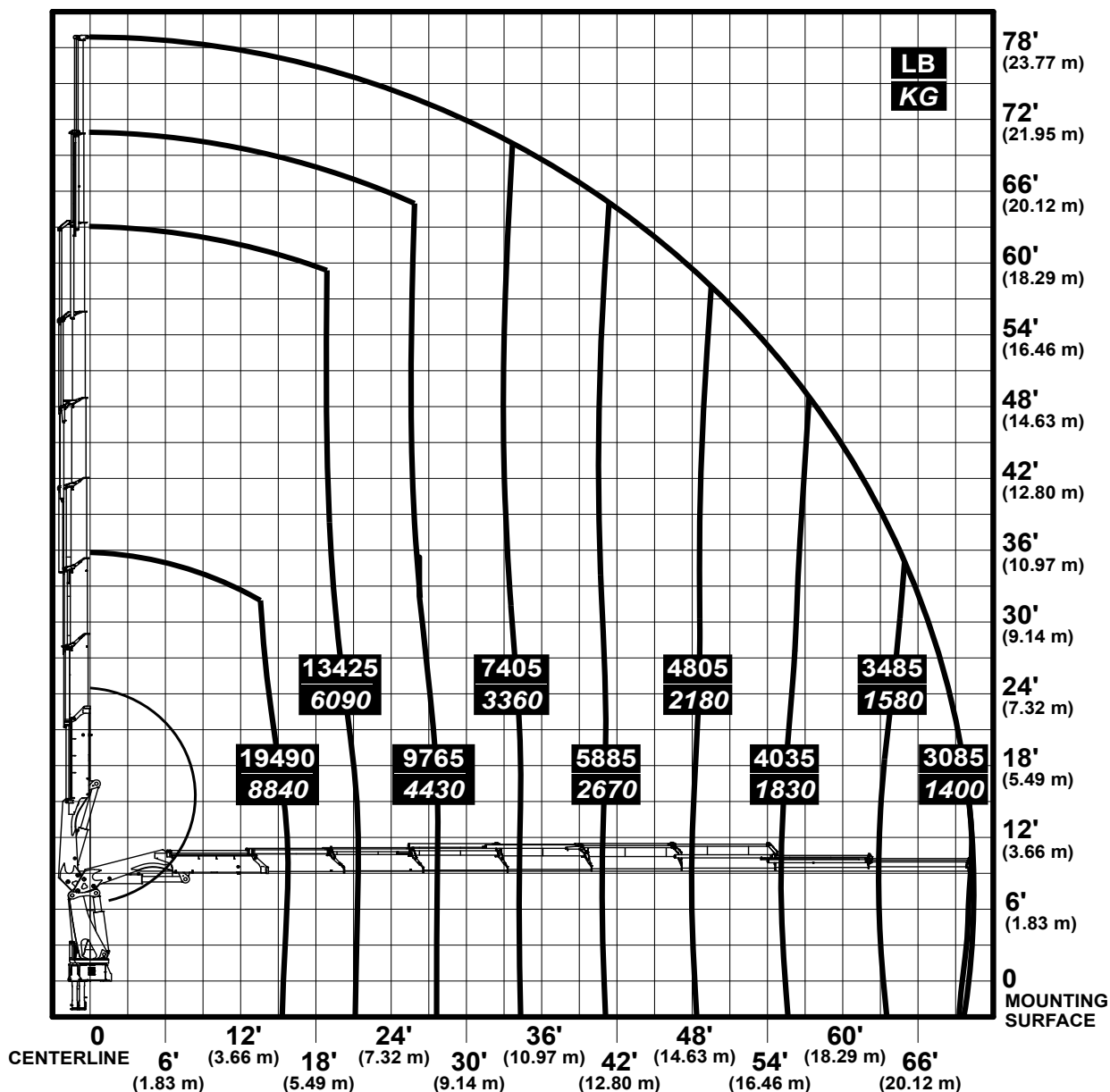
**IMT**

MATERIAL HANDLING SYSTEMS

 IOWA MOLD TOOLING CO., INC.  
 BOX 189 • GARNER • IA • 50438 • 641-923-3711

### Model 50/345K8

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



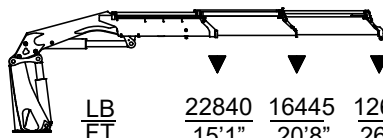
70399408

## 50/345 K2-K8 - Lifting Capacity Chart

▼ LIFTING CAPACITY WITHOUT MANUAL EXTENSIONS

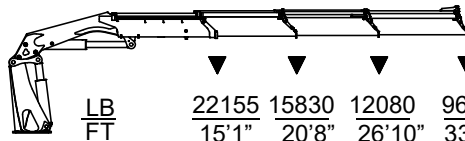
▽ MANUAL EXTENSIONS

K2



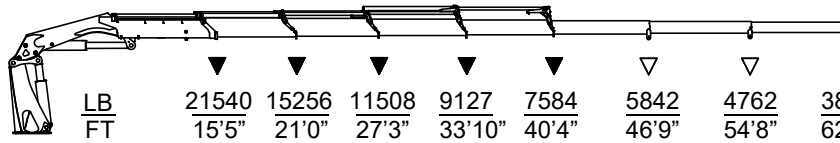
|    |       |       |        |
|----|-------|-------|--------|
|    | ▼     | ▼     | ▼      |
| LB | 22840 | 16445 | 12675  |
| FT | 15'1" | 20'8" | 26'10" |
| KG | 10360 | 7460  | 5750   |
| M  | 4,6   | 6,3   | 8,2    |

K3



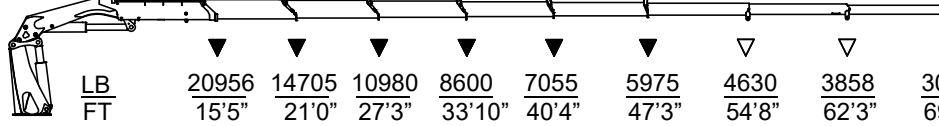
|    |       |       |        |       |
|----|-------|-------|--------|-------|
|    | ▼     | ▼     | ▼      | ▼     |
| LB | 22155 | 15830 | 12080  | 9680  |
| FT | 15'1" | 20'8" | 26'10" | 33'5" |
| KG | 10050 | 7180  | 5480   | 4390  |
| M  | 4,6   | 6,3   | 8,2    | 10,2  |

K4



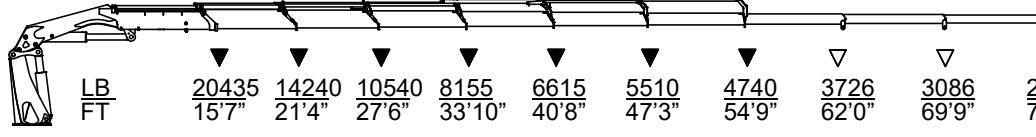
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|----|-------|-------|-------|--------|-------|-------|-------|-------|
|    | ▼     | ▼     | ▼     | ▼      | ▼     | ▽     | ▽     | ▽     |
| LB | 21540 | 15256 | 11508 | 9127   | 7584  | 5842  | 4762  | 3858  |
| FT | 15'5" | 21'0" | 27'3" | 33'10" | 40'4" | 46'9" | 54'8" | 62'3" |
| KG | 9770  | 6920  | 5220  | 4140   | 3440  | 2650  | 2160  | 1750  |
| M  | 4,7   | 6,4   | 8,3   | 10,3   | 12,3  | 14,3  | 16,7  | 19,0  |

K5



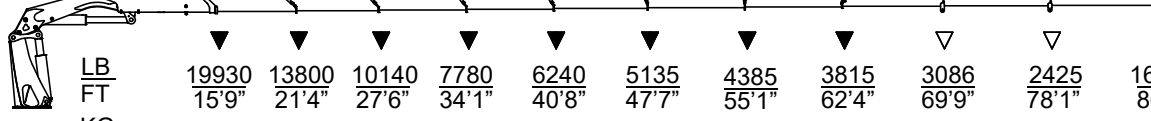
|    |       |       |       |        |       |       |       |       |       |
|----|-------|-------|-------|--------|-------|-------|-------|-------|-------|
|    | ▼     | ▼     | ▼     | ▼      | ▼     | ▼     | ▽     | ▽     | ▽     |
| LB | 20956 | 14705 | 10980 | 8600   | 7055  | 5975  | 4630  | 3858  | 3086  |
| FT | 15'5" | 21'0" | 27'3" | 33'10" | 40'4" | 47'3" | 54'8" | 62'3" | 69'9" |
| KG | 9510  | 6670  | 4980  | 3900   | 3200  | 2710  | 2100  | 1750  | 1400  |
| M  | 4,7   | 6,4   | 8,3   | 10,3   | 12,3  | 14,4  | 16,7  | 19,0  | 21,3  |

K6



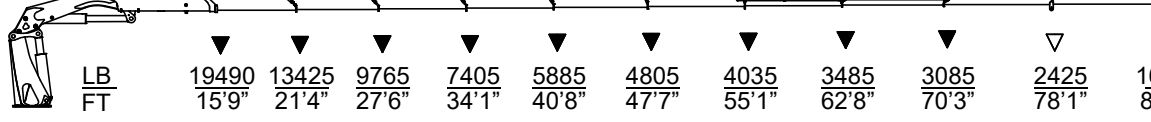
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|----|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
|    | ▼     | ▼     | ▼     | ▼      | ▼     | ▼     | ▼     | ▽     | ▽     | ▽     |
| LB | 20435 | 14240 | 10540 | 8155   | 6615  | 5510  | 4740  | 3726  | 3086  | 2425  |
| FT | 15'7" | 21'4" | 27'6" | 33'10" | 40'8" | 47'3" | 54'9" | 62'0" | 69'9" | 78'1" |
| KG | 9270  | 6460  | 4780  | 3700   | 3000  | 2500  | 2150  | 1690  | 1400  | 1100  |
| M  | 4,7   | 6,4   | 8,3   | 10,3   | 12,3  | 14,4  | 16,7  | 18,9  | 21,3  | 23,8  |

K7



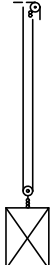
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|    | ▼     | ▼     | ▼     | ▼     | ▼     | ▼     | ▼     | ▼     | ▽     | ▽     | ▽     |
| LB | 19930 | 13800 | 10140 | 7780  | 6240  | 5135  | 4385  | 3815  | 3086  | 2425  | 1653  |
| FT | 15'9" | 21'4" | 27'6" | 34'1" | 40'8" | 47'7" | 55'1" | 62'4" | 69'9" | 78'1" | 86'3" |
| KG | 9040  | 6260  | 4600  | 3530  | 2830  | 2330  | 1990  | 1730  | 1350  | 1100  | 750   |
| M  | 4,8   | 6,5   | 8,4   | 10,4  | 12,4  | 14,5  | 16,8  | 19,0  | 21,3  | 23,8  | 26,3  |

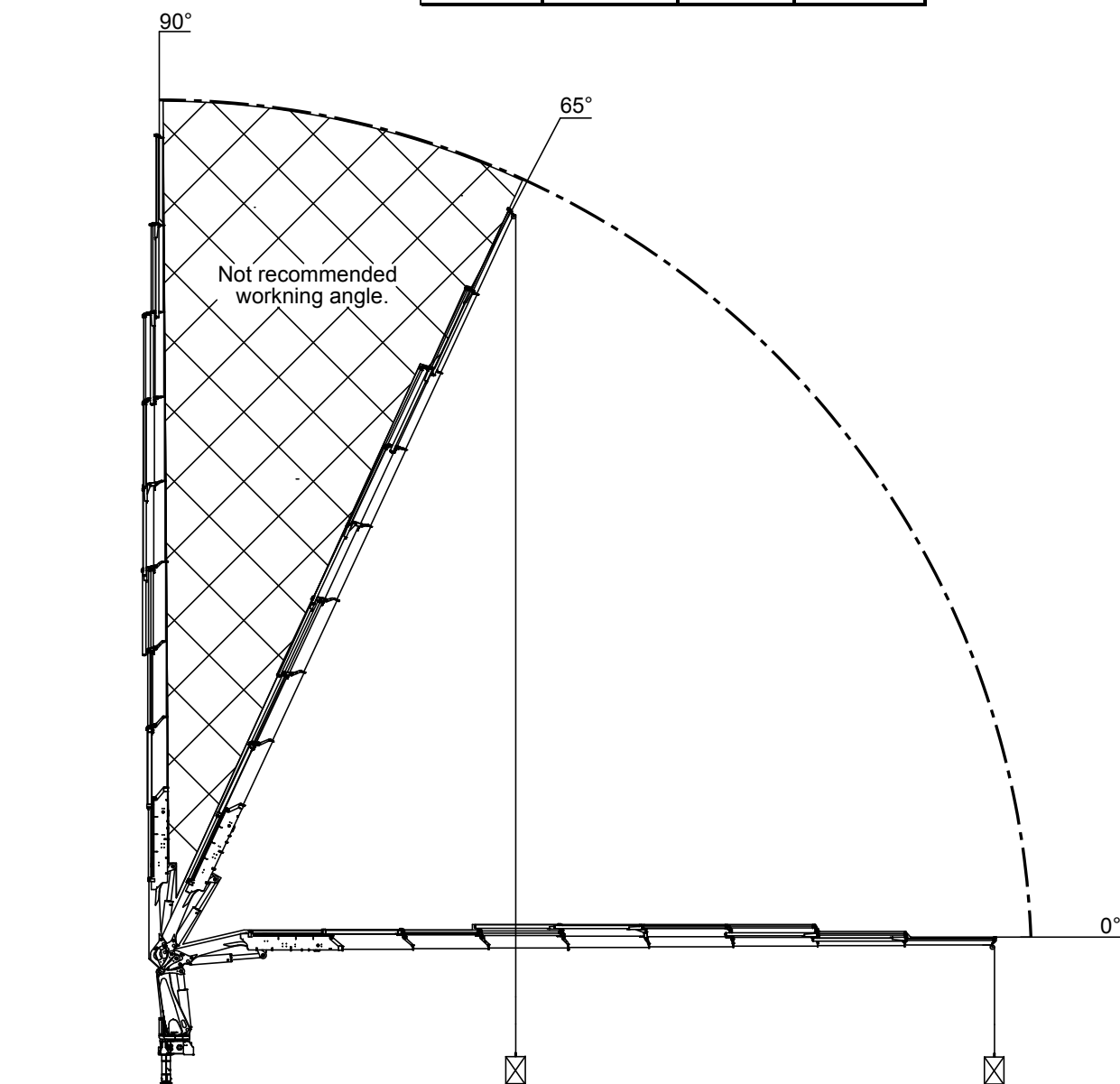
K8



|    |       |       |       |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|    | ▼     | ▼     | ▼     | ▼     | ▼     | ▼     | ▼     | ▼     | ▼     | ▽     | ▽     |
| LB | 19490 | 13425 | 9765  | 7405  | 5885  | 4805  | 4035  | 3485  | 3085  | 2425  | 1653  |
| FT | 15'9" | 21'4" | 27'6" | 34'1" | 40'8" | 47'7" | 55'1" | 62'8" | 70'3" | 78'1" | 86'3" |
| KG | 8840  | 6090  | 4430  | 3360  | 2670  | 2180  | 1830  | 1580  | 1400  | 1100  | 750   |
| M  | 4,8   | 6,5   | 8,4   | 10,4  | 12,4  | 14,5  | 16,8  | 19,1  | 21,4  | 23,8  | 26,3  |

## 50/345 - Lifting Capacity with Winch

| Hydraulic hoist type         | MAXW                                                                              | MAXWD                                                                             | MAXW                                                                                | MAXWD                                                                               |
|------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Dinamic P9E                  | 1500 kg                                                                           | 3000 kg                                                                           | 3307 lb                                                                             | 6614 lb                                                                             |
| Dinamic P15E                 | 2500 kg                                                                           | 5000 kg                                                                           | 5512 lb                                                                             | 11023 lb                                                                            |
| Dinamic S 25<br>Brevini 2500 | 3200 kg                                                                           | 6400 kg                                                                           | 7055 lb                                                                             | 14110 lb                                                                            |
|                              |  |  |  |  |

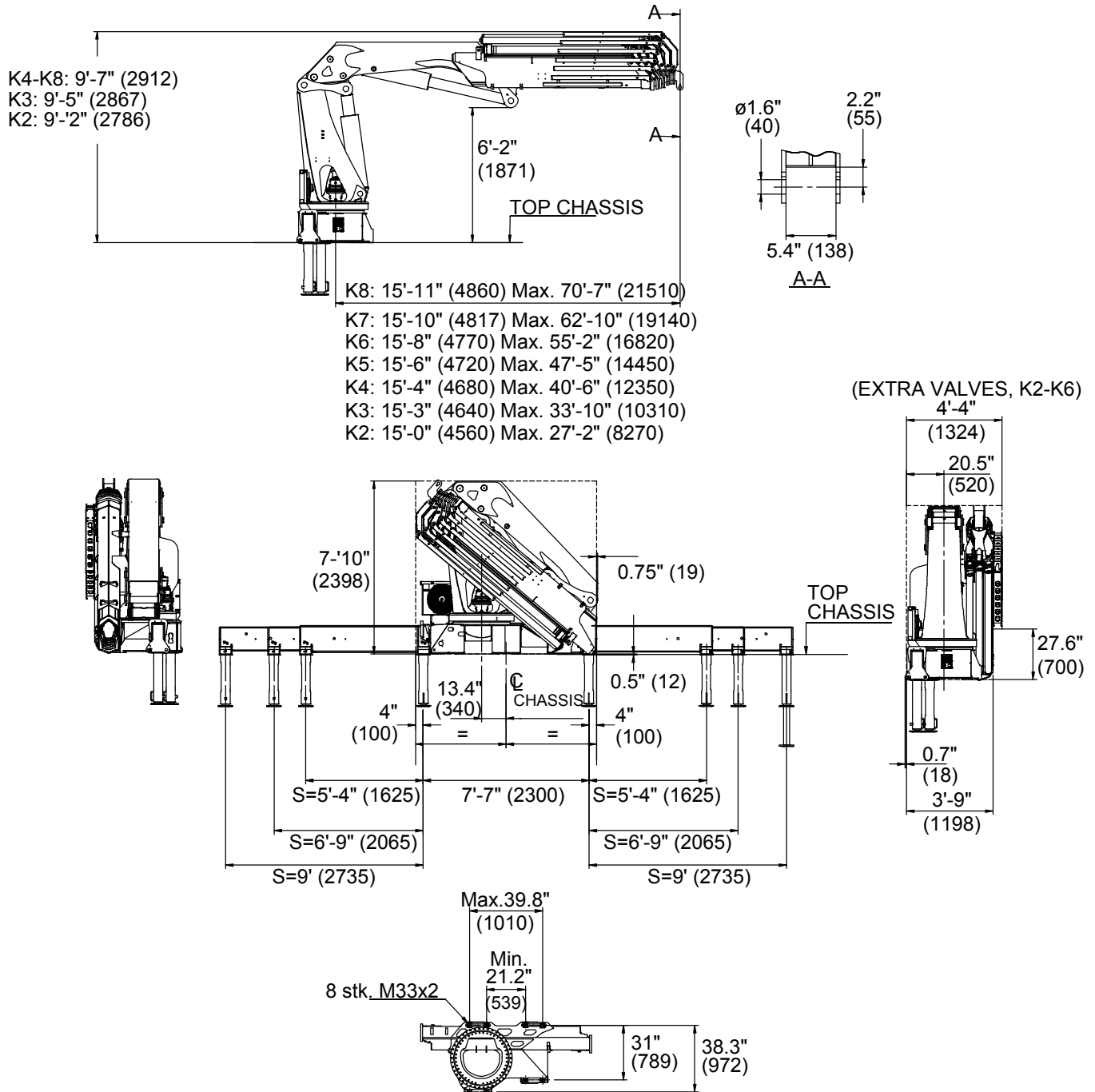


**Section - 4**

**Dimension Drawings**

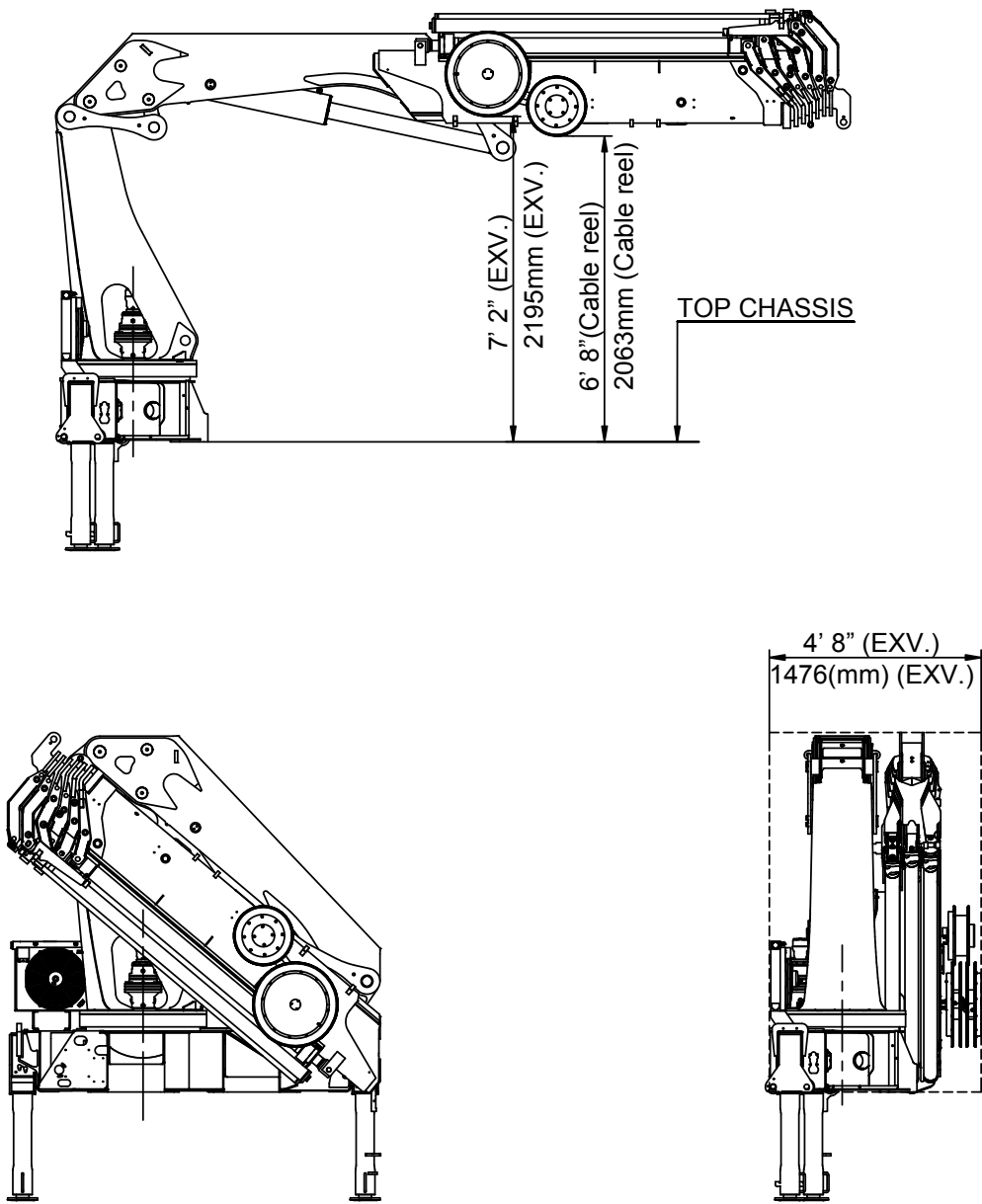
## 50/345 - Dimension Sketch, K2-K6

Dimensions in ft-inches (mm).

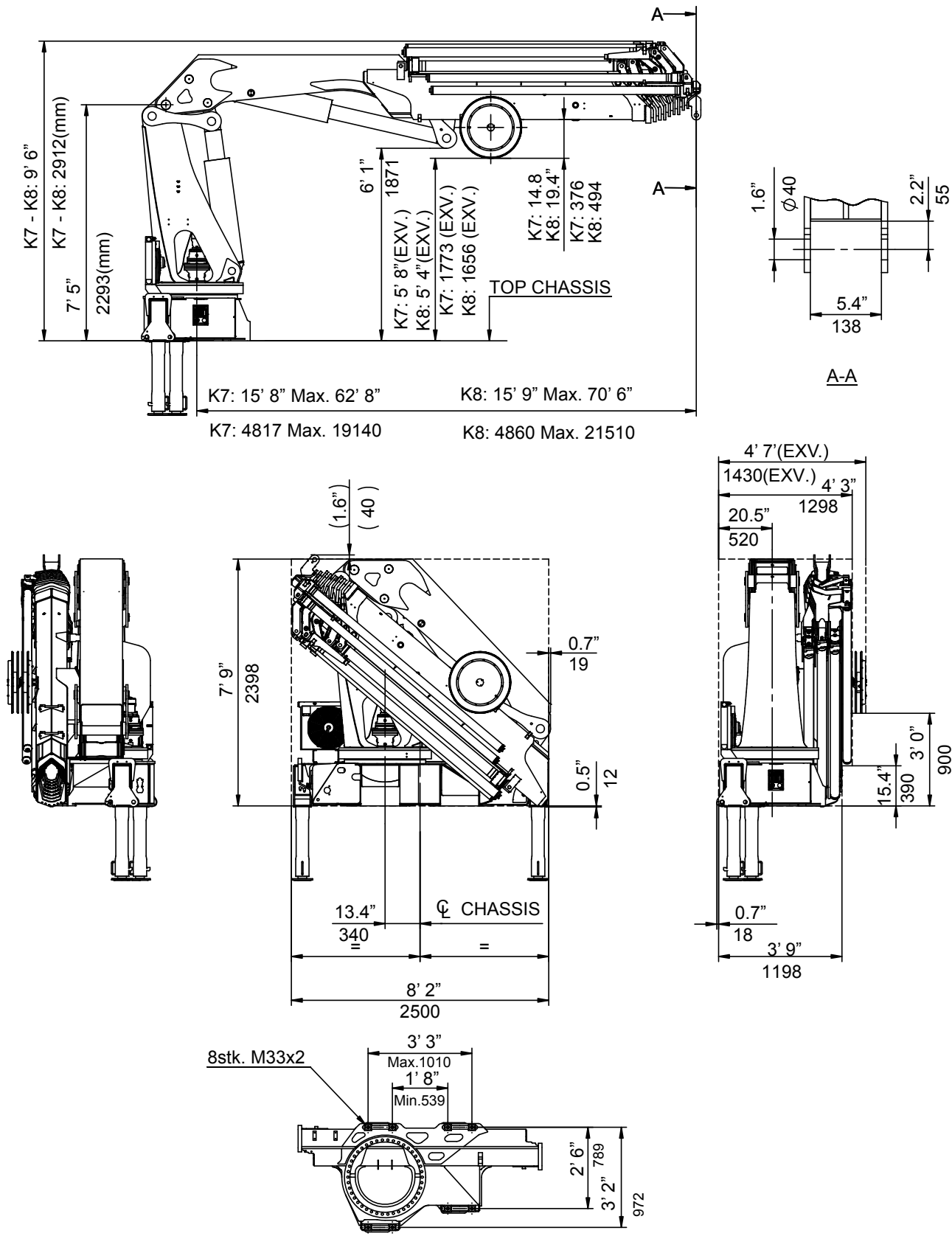


Dimensions - K4-K6, Continued

**K4 - K6**

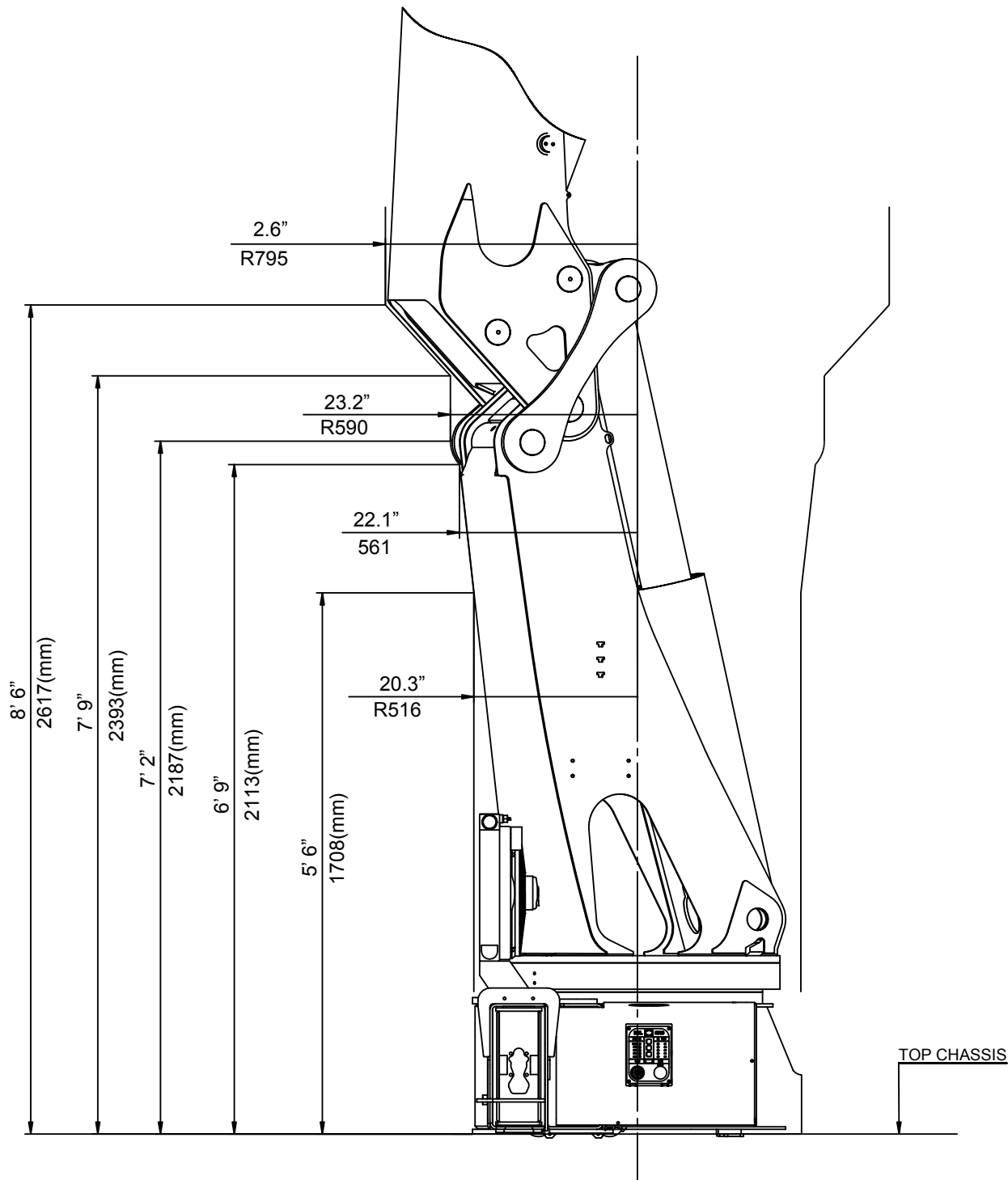


Dimension Sketch, Continued - K7-K8

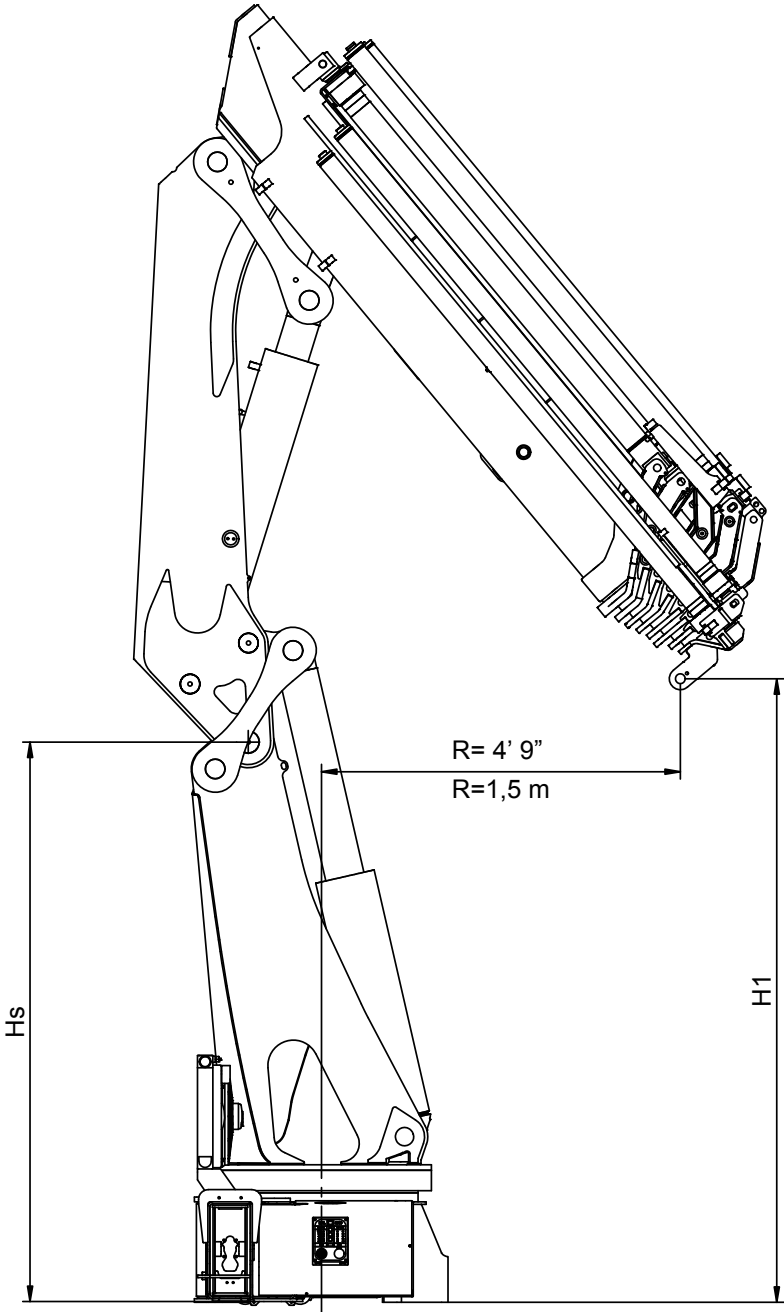




50/345 - Slewing Radius

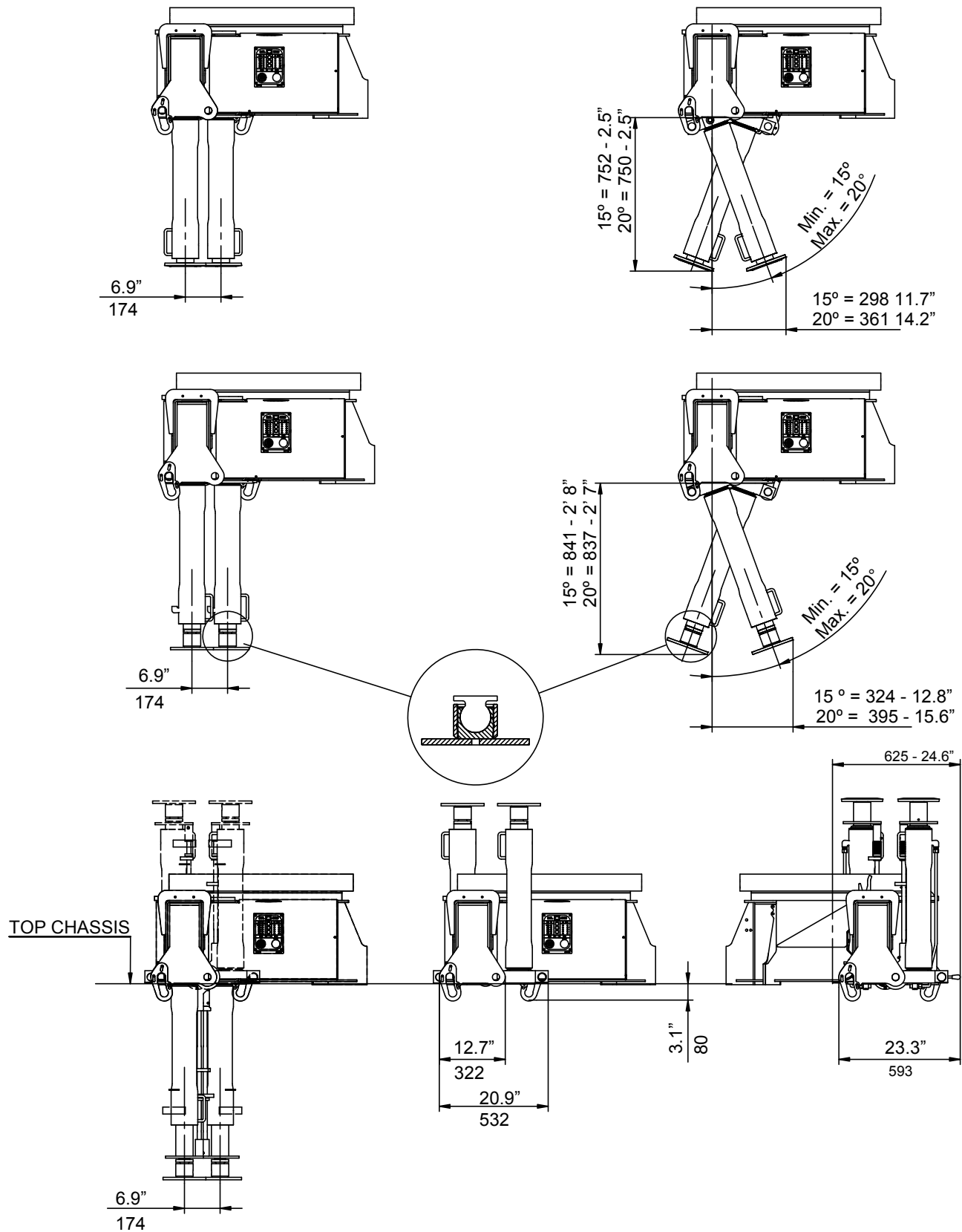


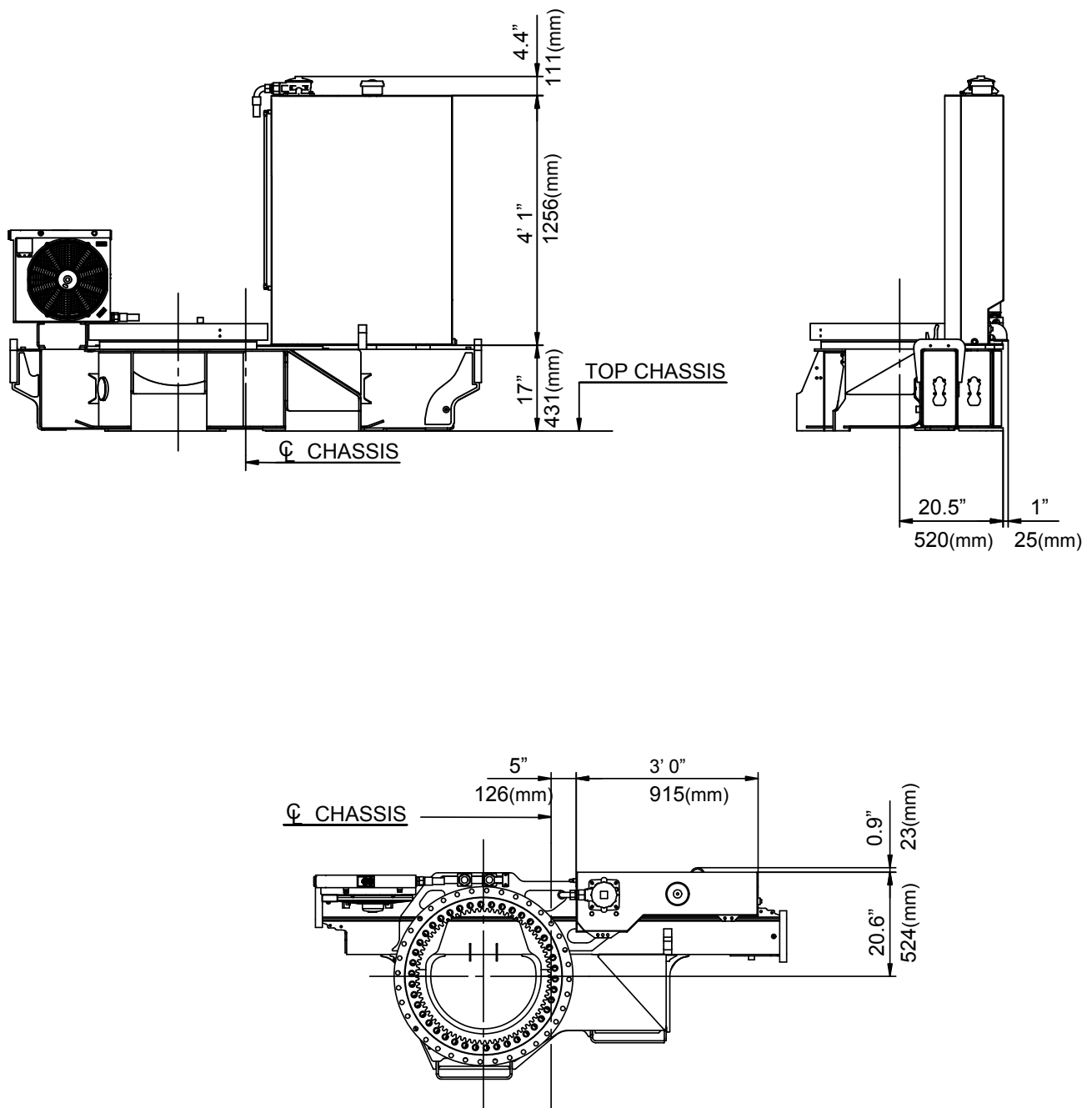
50/345 - Lifting Height at Column



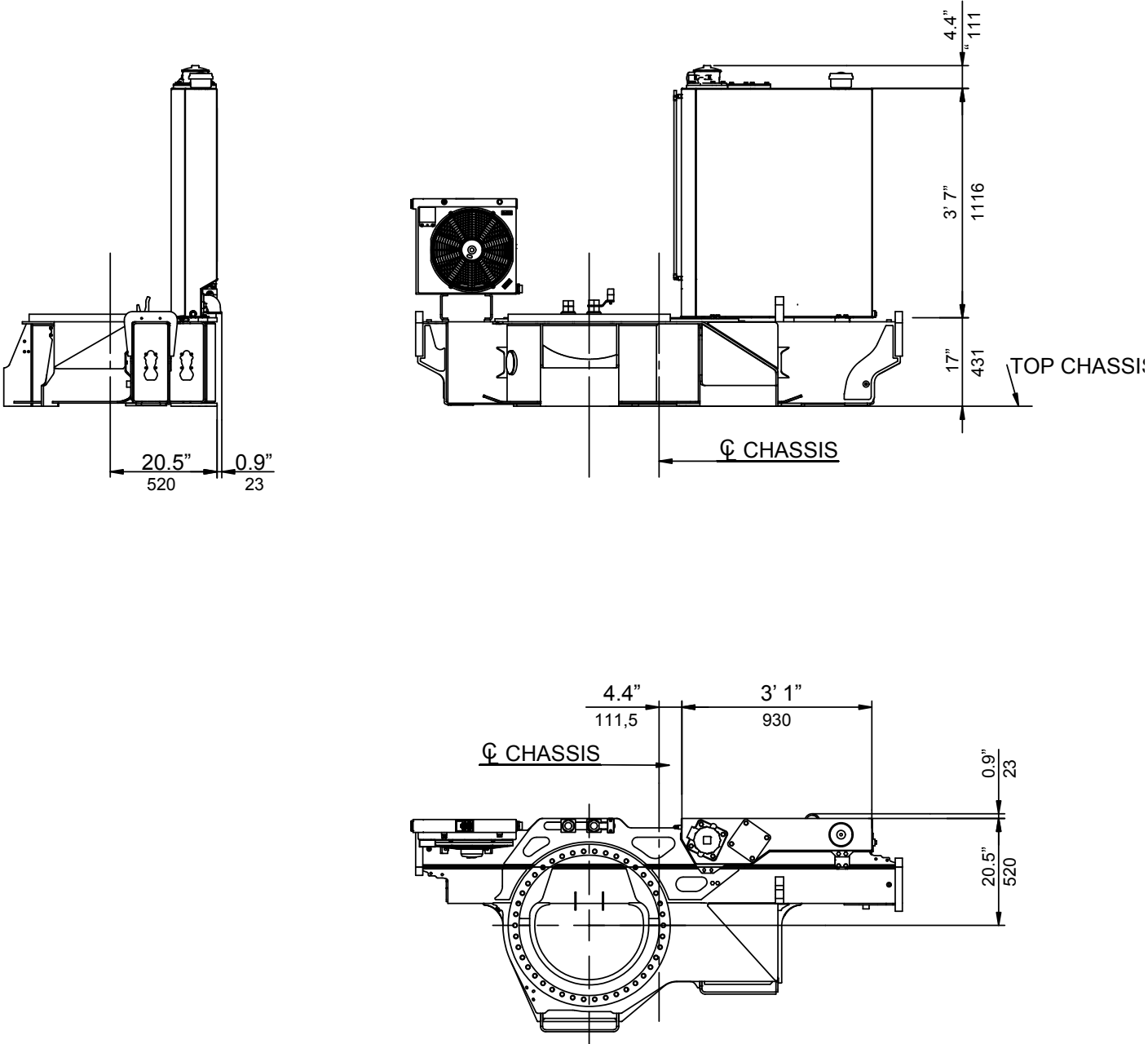
|    | Hs    | H1    |    | Hs    | H1    |
|----|-------|-------|----|-------|-------|
| K2 | 7' 5" | 9' 4" | K2 | 2,29m | 2,88m |
| K3 | 7' 5" | 9' 1" | K3 | 2,29m | 2,78m |
| K4 | 7' 5" | 9' 0" | K4 | 2,29m | 2,73m |
| K5 | 7' 5" | 8' 8" | K5 | 2,29m | 2,67m |
| K6 | 7' 5" | 8' 6" | K6 | 2,29m | 2,62m |
| K7 | 7' 5" | 8' 4" | K7 | 2,29m | 2,56m |
| K8 | 7' 5" | 8' 2" | K8 | 2,29m | 2,51m |



**50/345 - Dimension Sketch, Stabilizer Cylinder**

**50/345 - Dimension Sketch, Tank - 250L**

50/345 - Dimension Sketch - 160L



## 50/345 - Technical Data, Winch

| <b>Performance (at 2175 psi):</b> | <b>Unit</b> | <b>2,5T (P15)</b> | <b>3,2T (S24)</b> |
|-----------------------------------|-------------|-------------------|-------------------|
| Max. wire pull – 1st layer        | LB          | 5512              | 7055              |
| Max. wire pull – 2nd layer        | LB          | 5071              | 6437              |
| Max. wire pull – 3rd layer        | LB          | 4630              | 5952              |
| Max. wire pull – 4th layer        | LB          | 4299              | 5512              |

| <b>Wire speed (at 11 gpm):</b> | <b>Unit</b> | <b>2,5T (P15)</b> | <b>3,2T (S24)</b> |
|--------------------------------|-------------|-------------------|-------------------|
| Max. wire speed – 1st layer    | gpm         | 6.3               | 8.2               |
| Max. wire speed – 2nd layer    | gpm         | 6.9               | 9.2               |
| Max. wire speed – 3rd layer    | gpm         | 7.4               | 10                |
| Max. wire speed – 4th layer    | gpm         | 7.9               | 11.1              |

| <b>Weights:</b>                                   | <b>Unit</b> | <b>2,5T (P15)</b> | <b>3,2T (S24)</b> |
|---------------------------------------------------|-------------|-------------------|-------------------|
| Tare weight, winch (CE)                           | LB          | 198               | 243               |
| Fixed parts (valve section, brackets, hoses etc.) | LB          | 110               | 110               |
| Wire Ø10 x 197 feet                               | LB          | 66                | -                 |
| Wire Ø12 x 200 feet                               | LB          | -                 | 99                |
| Spare parts, single snatch block                  | LB          | 44                | 44                |
| Spare parts, double snatch block                  | LB          | 88                | 88                |

**Technical Data-Winch-Metric**

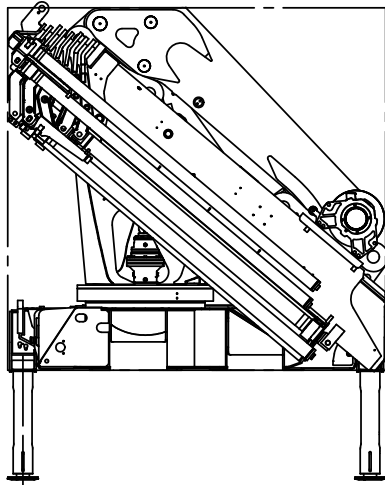
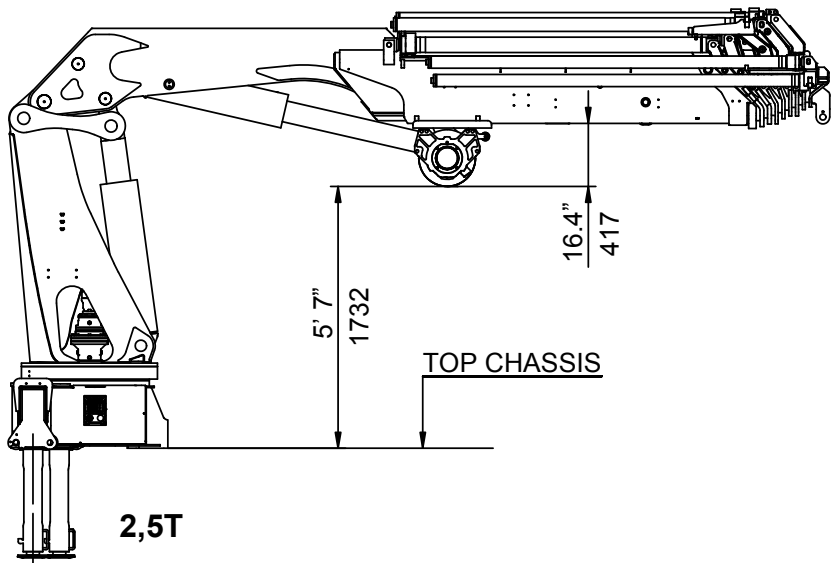
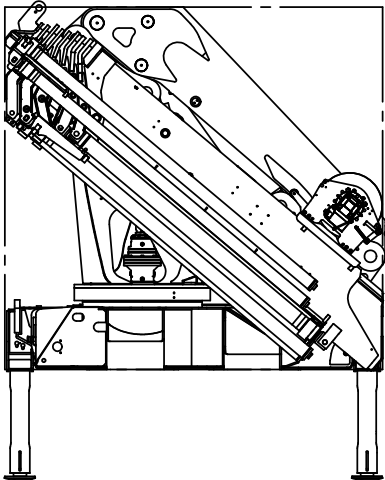
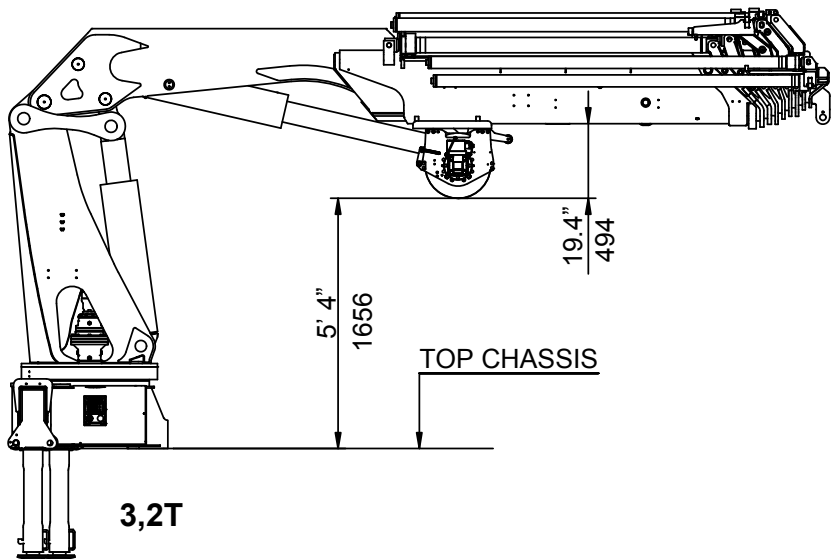
| <b>Performance (at 150 Bar):</b> | <b>Unit</b> | <b>2,5T (P15)</b> | <b>3,2T (S24)</b> |
|----------------------------------|-------------|-------------------|-------------------|
| Max. wire pull – 1st layer       | kg          | 2500              | 3200              |
| Max. wire pull – 2nd layer       | kg          | 2300              | 2920              |
| Max. wire pull – 3rd layer       | kg          | 2100              | 2700              |
| Max. wire pull – 4th layer       | kg          | 1950              | 2500              |

| <b>Wire speed (at 40 L/min.):</b> | <b>Unit</b> | <b>2,5T (P15)</b> | <b>3,2T (S24)</b> |
|-----------------------------------|-------------|-------------------|-------------------|
| Max. wire speed – 1st layer       | m/min       | 24                | 31                |
| Max. wire speed – 2nd layer       | m/min       | 26                | 35                |
| Max. wire speed – 3rd layer       | m/min       | 28                | 38                |
| Max. wire speed – 4th layer       | m/min       | 30                | 42                |

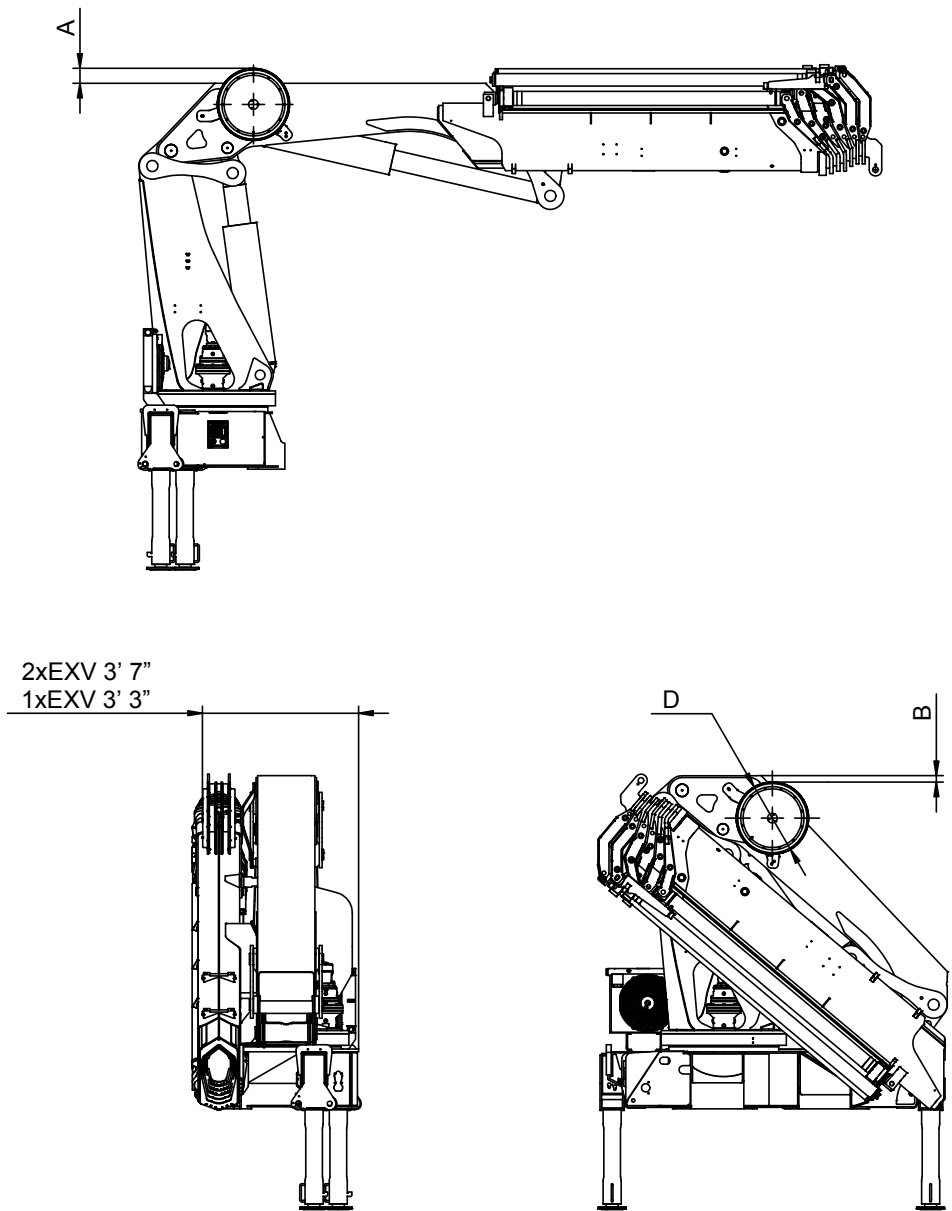
| <b>Weights:</b>                                   | <b>Unit</b> | <b>2,5T (P15)</b> | <b>3,2T (S24)</b> |
|---------------------------------------------------|-------------|-------------------|-------------------|
| Tare weight, winch (CE)                           | kg          | 90                | 110               |
| Fixed parts (valve section, brackets, hoses etc.) | kg          | 50                | 50                |
| Wire Ø10 x 60 m                                   | kg          | 30                | -                 |
| Wire Ø12 x 61 m                                   | kg          | -                 | 45                |
| Spare parts, single snatch block                  | kg          | 20                | 20                |
| Spare parts, double snatch block                  | kg          | 40                | 40                |



50/345 - Dimension Sketch, Winch

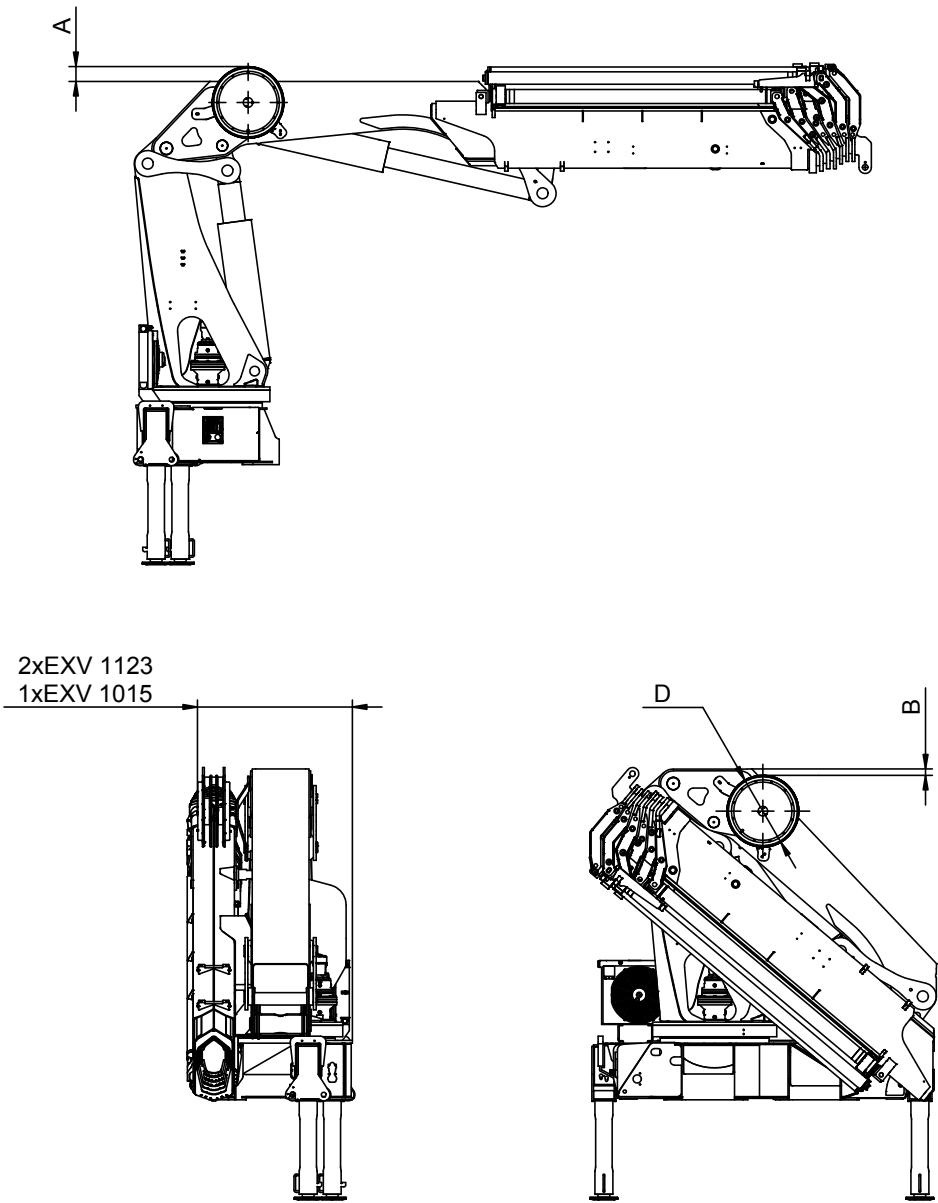


50/345 - Dimension Sketch, Internal Hose Routing



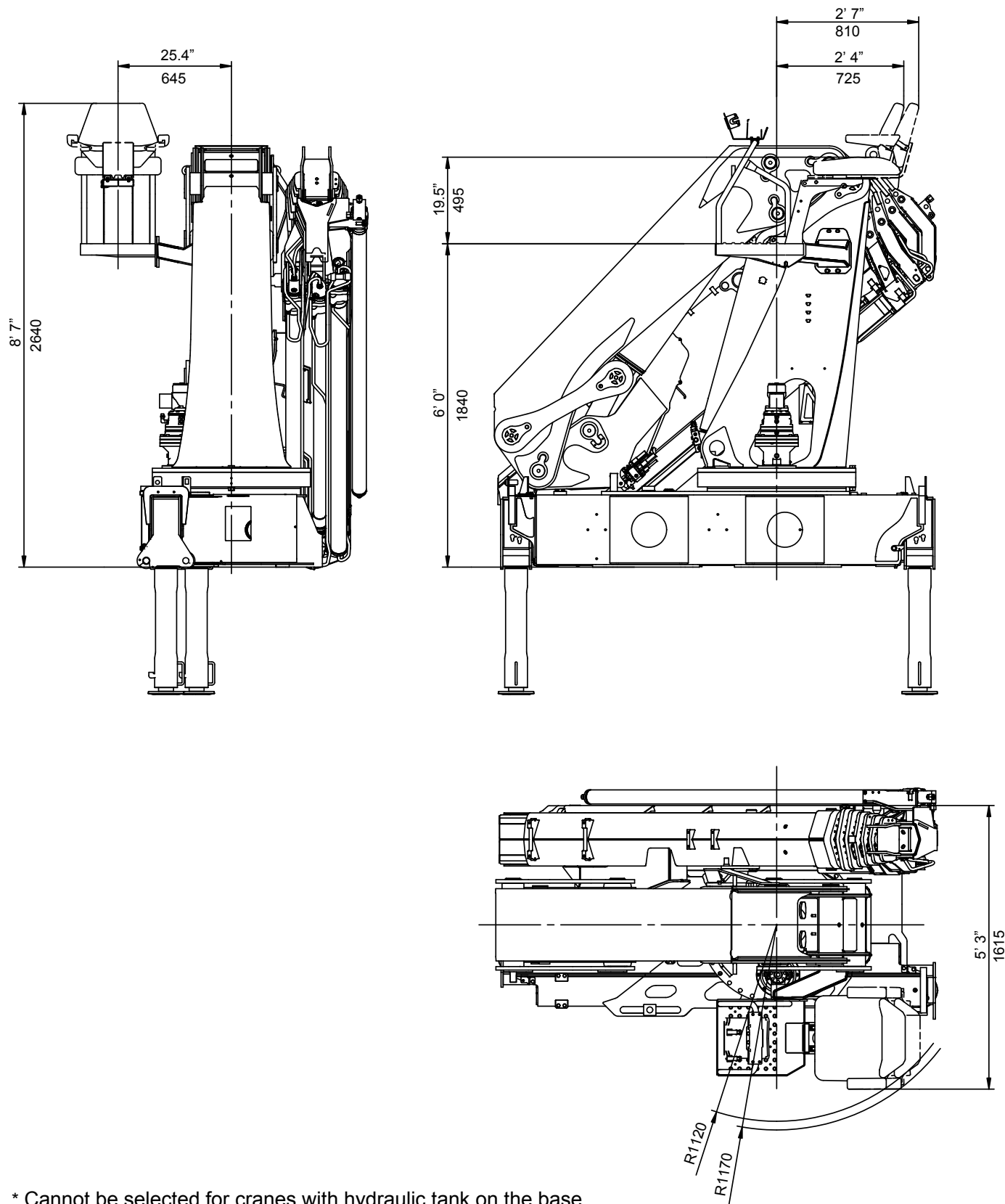
|         | D (1EXV) | D (2EXV) | A (1EXV) | A (2EXV) | B (1EXV) | B (2EXV) |
|---------|----------|----------|----------|----------|----------|----------|
| K2 - K3 | 20.7"    | 20.5"    | 4.3"     | 4.2"     | 1.7"     | 1.8"     |
| K4 - K5 | 24.2"    | 22.4"    | 6.1"     | 5.2"     | 0"       | 0.8"     |
| K6      | 24.2"    | 24.2"    | 6.1"     | 6.1"     | 0"       | 0"       |

50/345 - Dimension Sketch, Internal Hose Routing - Metric



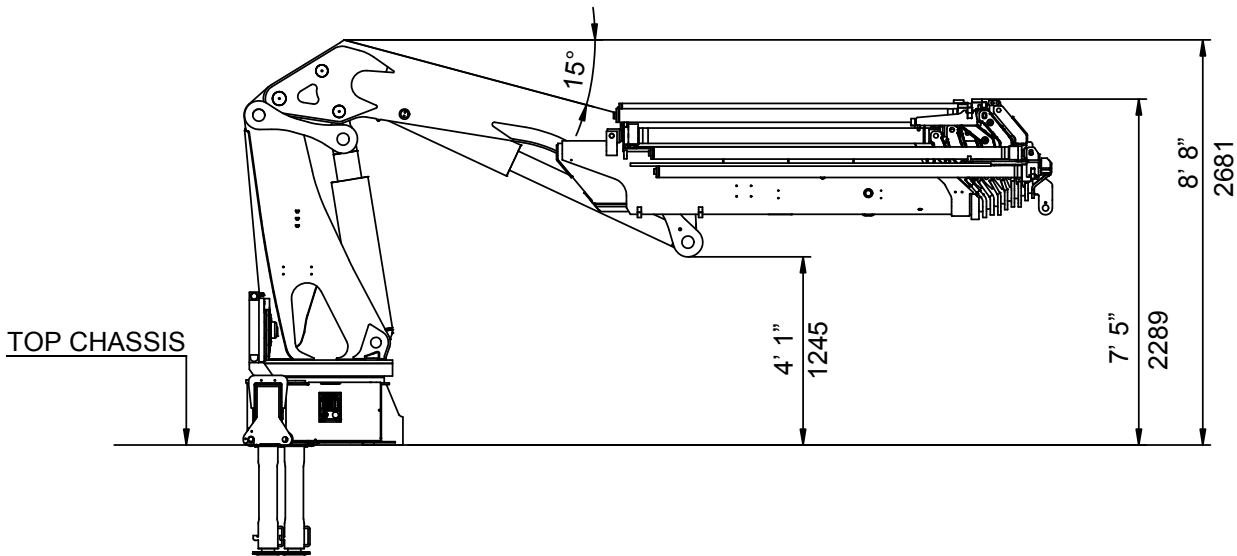
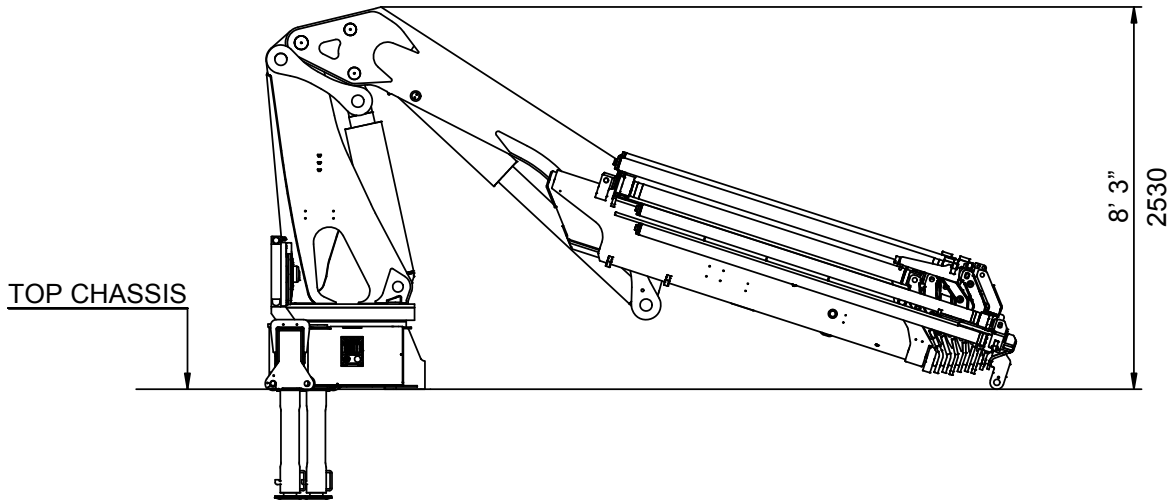
|         | D (1EXV) | D (2EXV) | A (1EXV) | A (2EXV) | B (1EXV) | B (2EXV) |
|---------|----------|----------|----------|----------|----------|----------|
| K2 - K3 | 525      | 520      | 110      | 107      | 43       | 45       |
| K4 - K5 | 615      | 570      | 155      | 132      | 0        | 20       |
| K6      | 615      | 615      | 155      | 155      | 0        | 0        |

50/345 - Dimension Sketch, TS-RC

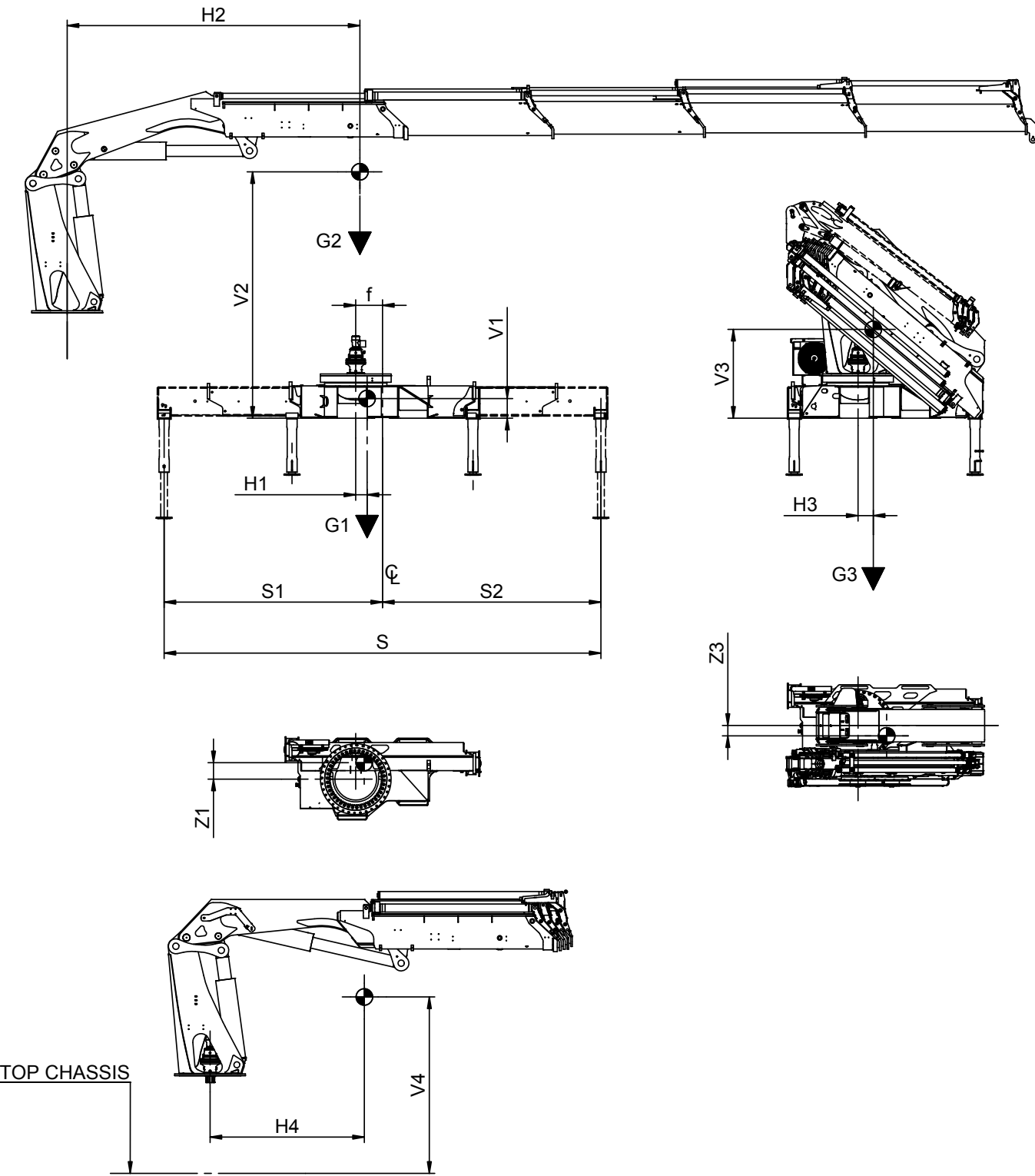


\* Cannot be selected for cranes with hydraulic tank on the base.

50/345 - Stowed in Truck Body



50/345 - Center of Gravity



## Center of Gravity, Continued

| 50/345 (Feet/Inches)              |        |        |        |    |     |      |       |       |        |       |        |       |       |      |        |       |       |
|-----------------------------------|--------|--------|--------|----|-----|------|-------|-------|--------|-------|--------|-------|-------|------|--------|-------|-------|
| KL.3: S = 9' 0" - KL.9: S = 6' 7" |        |        |        |    |     |      |       |       |        |       |        |       |       |      |        |       |       |
|                                   | S      | S1     | S2     | H1 | V1  | Z1   | G1    | f     | H2     | V2    | G2     | H3    | V3    | Z3   | G3     | H4    | V4    |
| K2                                | 23' 3" | 12' 7" | 10' 5" | 7" | 10" | 6.9" | 5' 5" | 13.4" | 6' 6"  | 8' 2" | 8' 7"  | 14.5" | 36.9" | 2.8" | 14' 2" | 5' 3" | 7' 0" |
| K3                                | 23' 3" | 12' 7" | 10' 5" | 7" | 10" | 6.9" | 5' 5" | 13.4" | 8' 5"  | 8' 4" | 9' 6"  | 14.5" | 37.3" | 3.7" | 15' 2" | 5' 8" | 7' 1" |
| K4                                | 23' 3" | 12' 7" | 10' 5" | 7" | 10" | 6.9" | 5' 5" | 13.4" | 10' 6" | 8' 5" | 10' 5" | 14.3" | 37.7" | 4.5" | 16' 1" | 6' 2" | 7' 2" |
| K5                                | 23' 3" | 12' 7" | 10' 5" | 7" | 10" | 6.9" | 5' 5" | 13.4" | 12' 7" | 8' 7" | 11' 3" | 14.1" | 38.0" | 5.2" | 16' 9" | 6' 5" | 7' 3" |
| K6                                | 23' 3" | 12' 7" | 10' 5" | 7" | 10" | 6.9" | 5' 5" | 13.4" | 16' 0" | 8' 8" | 12' 0" | 13.9" | 38.3" | 5.8" | 17' 5" | 6' 7" | 7' 3" |
| K7                                | 23' 3" | 12' 7" | 10' 5" | 7" | 10" | 6.9" | 5' 5" | 13.4" | 17' 6" | 8' 8" | 12' 6" | 13.7" | 38.8" | 6.3" | 18' 1" | 6' 9" | 7' 4" |
| K8                                | 23' 3" | 12' 7" | 10' 5" | 7" | 10" | 6.9" | 5' 5" | 13.4" | 19' 4" | 8' 9" | 13' 2" | 13.5" | 39.2" | 6.9" | 18' 7" | 7' 1" | 7' 4" |

| S1: KL.3 - S2: KL.9 |        |        |        |      |       |      |
|---------------------|--------|--------|--------|------|-------|------|
|                     | S      | S1     | S2     | H1   | V1    | Z1   |
| 50/345              | 25' 5" | 12' 7" | 12' 7" | 9.7" | 9' 7" | 6.5" |
|                     | 19' 7" | 10' 5" | 9' 1"  | 4.9" | 9' 7" | 6.5" |
|                     | 18' 2" | 9' 1"  | 9' 1"  | 9.5" | 9.8"  | 6.0" |

**Center of Gravity - Metric, Continued**

| <b>5020</b>                        |          |           |           |           |           |           |           |          |           |           |           |           |           |           |           |           |           |
|------------------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>KL.3: S=2735 - KL.9: S=2035</b> |          |           |           |           |           |           |           |          |           |           |           |           |           |           |           |           |           |
|                                    | <b>S</b> | <b>S1</b> | <b>S2</b> | <b>H1</b> | <b>V1</b> | <b>Z1</b> | <b>G1</b> | <b>f</b> | <b>H2</b> | <b>V2</b> | <b>G2</b> | <b>H3</b> | <b>V3</b> | <b>Z3</b> | <b>G3</b> | <b>H4</b> | <b>V4</b> |
| <b>K2</b>                          | 7100     | 3885      | 3215      | 177       | 255       | 175       | 1690      | 340      | 2025      | 2495      | 2645      | 368       | 937       | 70        | 4335      | 1612      | 2127      |
| <b>K3</b>                          | 7100     | 3885      | 3215      | 177       | 255       | 175       | 1690      | 340      | 2604      | 2551      | 2935      | 368       | 947       | 93        | 4625      | 1757      | 2160      |
| <b>K4</b>                          | 7100     | 3885      | 3215      | 177       | 255       | 175       | 1690      | 340      | 3241      | 2600      | 3205      | 362       | 958       | 114       | 4895      | 1881      | 2202      |
| <b>K5</b>                          | 7100     | 3885      | 3215      | 177       | 255       | 175       | 1690      | 340      | 3859      | 2637      | 3455      | 357       | 966       | 133       | 5145      | 1976      | 2214      |
| <b>K6</b>                          | 7100     | 3885      | 3215      | 177       | 255       | 175       | 1690      | 340      | 4890      | 2681      | 3655      | 353       | 974       | 148       | 5345      | 2050      | 2234      |
| <b>K7</b>                          | 7100     | 3885      | 3215      | 177       | 255       | 175       | 1690      | 340      | 5370      | 2696      | 3835      | 347       | 985       | 161       | 5525      | 2110      | 2243      |
| <b>K8</b>                          | 7100     | 3885      | 3215      | 177       | 255       | 175       | 1690      | 340      | 5898      | 2708      | 4010      | 344       | 995       | 174       | 5700      | 2159      | 2256      |

| <b>S1: KL.3 - S2: KL.9</b> |          |           |           |           |           |           |
|----------------------------|----------|-----------|-----------|-----------|-----------|-----------|
|                            | <b>S</b> | <b>S1</b> | <b>S2</b> | <b>H1</b> | <b>V1</b> | <b>Z1</b> |
| <b>5020K</b>               | 7770     | 3885      | 3885      | 247       | 246       | 166       |
|                            | 5990     | 3215      | 2775      | 124       | 247       | 164       |
|                            | 5550     | 2775      | 2775      | 241       | 248       | 153       |



**Section - 5**

**Hydraulic Information**

## 50/345 - Pressure Setting Diagram

| Working pressure on Main Relief Valve & Port Relief Valves. |           |      |                        | 50 / 345                   |
|-------------------------------------------------------------|-----------|------|------------------------|----------------------------|
| Main Relief Valve                                           |           |      |                        | 5656 PSI                   |
| Functions                                                   | Direction | Port | Port Relief Valves PSI | LS Pressure Adjustment PSI |
| Slewing System                                              | Right     | A    | P                      | 2175                       |
|                                                             | Left      | B    | P                      | 2175                       |
| Boom Cylinder                                               | Up        | A    | 5511                   | 5294                       |
|                                                             | Down      | B    | 1812                   | 1450                       |
| Jib Cylinder                                                | Up        | A    | 5511                   | 5294                       |
|                                                             | Down      | B    | 2900                   | 2538                       |
| Extension Cylinders                                         | Extend    | A    | P                      | 4351                       |
|                                                             | Retract   | B    | P                      | 4351                       |
| Grab/Fly-Jib Lift*                                          | Up        | A    | 4351**                 | 725-4351*                  |
|                                                             | Down      | B    | 4351**                 | 725-4351*                  |
| Rotator/Fly-Jib Ext Cyl*                                    | Extend    | A    | P                      | 725-4351*                  |
|                                                             | Retract   | B    | P                      | 725-4351*                  |
| Winch 3.2T                                                  | Lift      | A    | P                      | 3046                       |
|                                                             | Lower     | B    | P                      | 3046                       |
| Winch 2.5T                                                  | Lift      | A    | P                      | 2683                       |
|                                                             | Lower     | B    | P                      | 2683                       |
| Separate Stabilizer Valve                                   |           | All  | 2175                   |                            |

\*Individual adjustment of LS Pressure possible on loaders without Fly-Jib

\*\*On loaders with Fly-Jib, port relief valves.

\*\*On loaders without Fly-Jib, individual replacement of port relief valves is possible.

### Working Pressure on Load Holding Valves

| Function            | Direction | Opening Pressure PSI |
|---------------------|-----------|----------------------|
| Slewing System      | Right     | 2321                 |
|                     | Left      | 2321                 |
| Boom Cylinder       | Up        | 5511                 |
|                     | Down      | -                    |
| Jib Cylinder        | Up        | 5511                 |
|                     | Down      | 3045                 |
| Extension Cylinders | Retract   | 6236                 |
|                     | Extend    | 3046                 |

### Pressure Setting for Load Moment Limitation (LMB)

|                |       |      |
|----------------|-------|------|
| Slewing System | (PSI) | 5076 |
| HDL            | (PSI) | 4061 |

### Max. Pump Performance

| Choice of Pump         | Fixed | Variable |
|------------------------|-------|----------|
| Pump Performance (GPM) | 21    | 29       |

## 50/345 - Pressure Setting Diagram (Metric)

| Working pressure on Main Relief Valve & Port Relief Valves. |           |      |                        | 50 / 345                   |
|-------------------------------------------------------------|-----------|------|------------------------|----------------------------|
| Main Relief Valve                                           |           |      |                        | 5656 PSI                   |
| Functions                                                   | Direction | Port | Port Relief Valves PSI | LS Pressure Adjustment PSI |
| Slewing System                                              | Right     | A    | P                      | 150                        |
|                                                             | Left      | B    | P                      | 150                        |
| Boom Cylinder                                               | Up        | A    | 380                    | 365                        |
|                                                             | Down      | B    | 125                    | 100                        |
| Jib Cylinder                                                | Up        | A    | 380                    | 365                        |
|                                                             | Down      | B    | 200                    | 175                        |
| Extension Cylinders                                         | Extend    | A    | P                      | 300                        |
|                                                             | Retract   | B    | P                      | 300                        |
| Grab/Fly-Jib Lift*                                          | Up        | A    | 300**                  | 50-300*                    |
|                                                             | Down      | B    | 300**                  | 50-300*                    |
| Rotator/Fly-Jib Ext Cyl*                                    | Extend    | A    | P                      | 50-300*                    |
|                                                             | Retract   | B    | P                      | 50-300*                    |
| Winch 3.2T                                                  | Lift      | A    | P                      | 210                        |
|                                                             | Lower     | B    | P                      | 210                        |
| Winch 2.5T                                                  | Lift      | A    | P                      | 185                        |
|                                                             | Lower     | B    | P                      | 185                        |
| Separate Stabilizer Valve                                   |           | All  | 150                    |                            |

\*Individual adjustment of LS Pressure possible on loaders without Fly-Jib

\*\*On loaders with Fly-Jib, port relief valves.

\*\*On loaders without Fly-Jib, individual replacement of port relief valves is possible.

### Working Pressure on Load Holding Valves

| Function            | Direction | Opening Pressure PSI |
|---------------------|-----------|----------------------|
| Slewing System      | Right     | 160                  |
|                     | Left      | 160                  |
| Boom Cylinder       | Up        | 380                  |
|                     | Down      | -                    |
| Jib Cylinder        | Up        | 380                  |
|                     | Down      | 210                  |
| Extension Cylinders | Retract   | 430                  |
|                     | Extend    | 210                  |

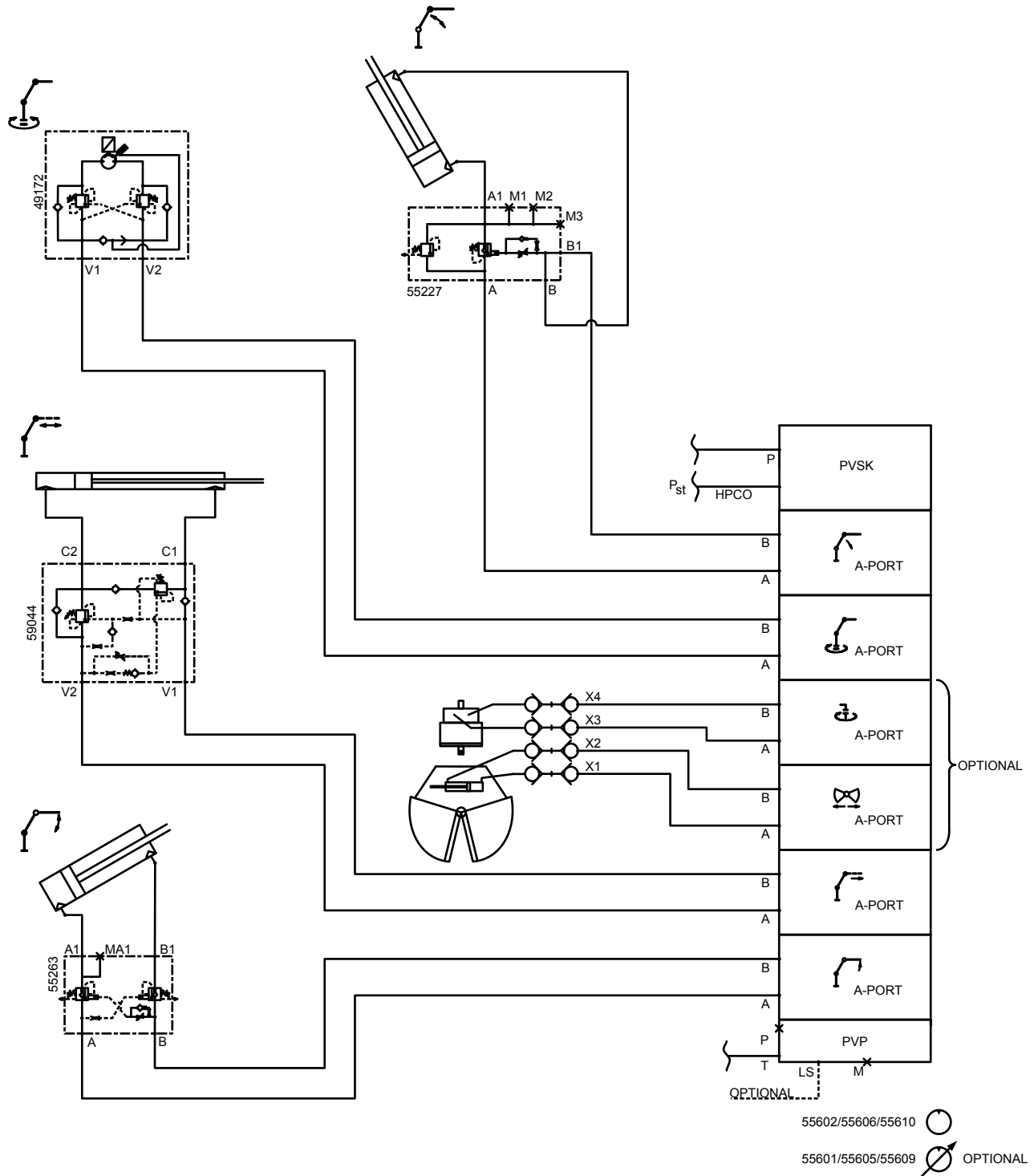
### Pressure Setting for Load Moment Limitation (LMB)

|                |       |     |
|----------------|-------|-----|
| Slewing System | (bar) | 350 |
| HDL            | (bar) | 280 |

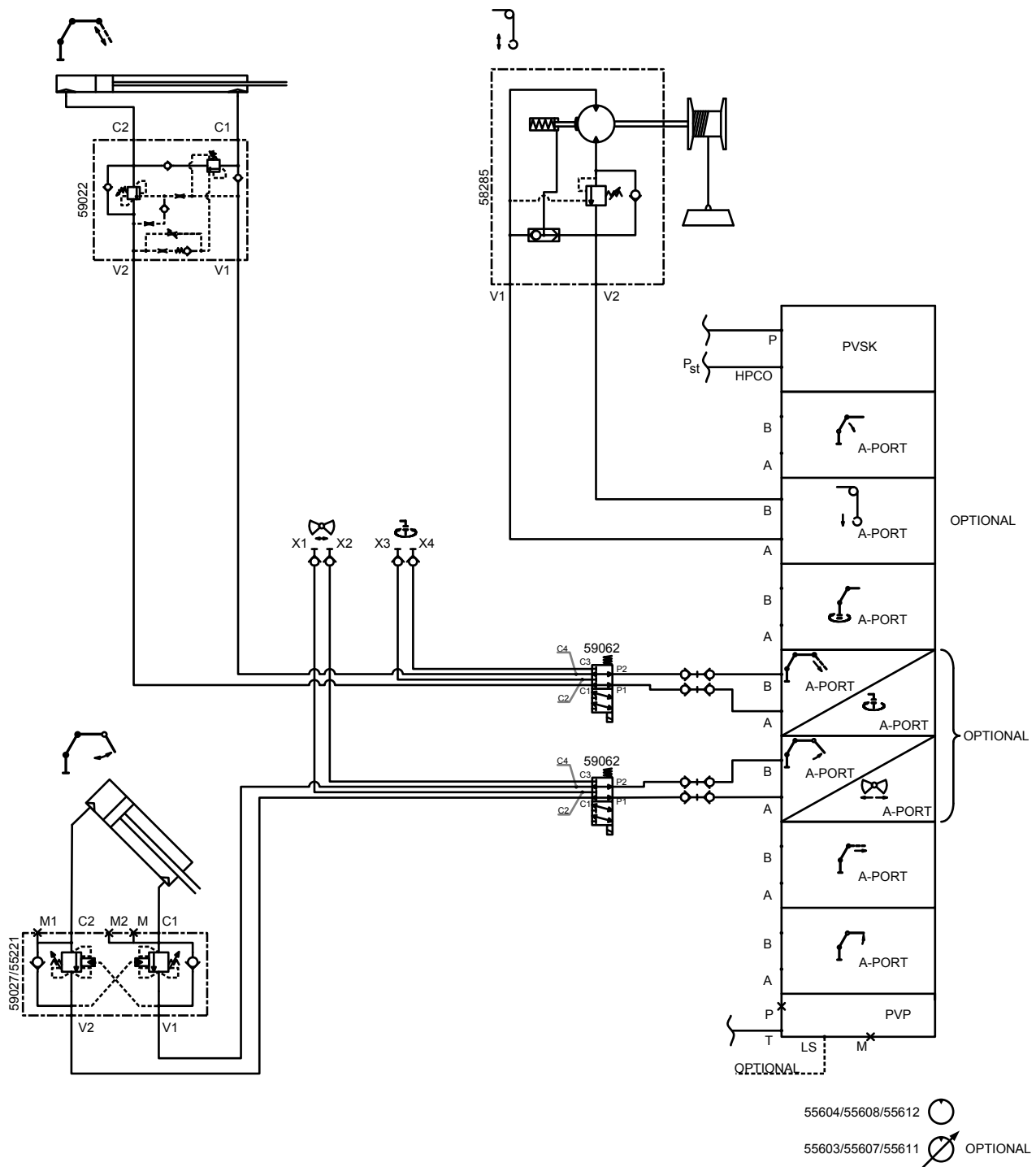
### Max. Pump Performance

| Choice of Pump           | Fixed | Variable |
|--------------------------|-------|----------|
| Pump Performance (L/min) | 80    | 110      |

## 50/345 - Hydraulic Diagram - Danfoss, Single-Circuit Crane Functions

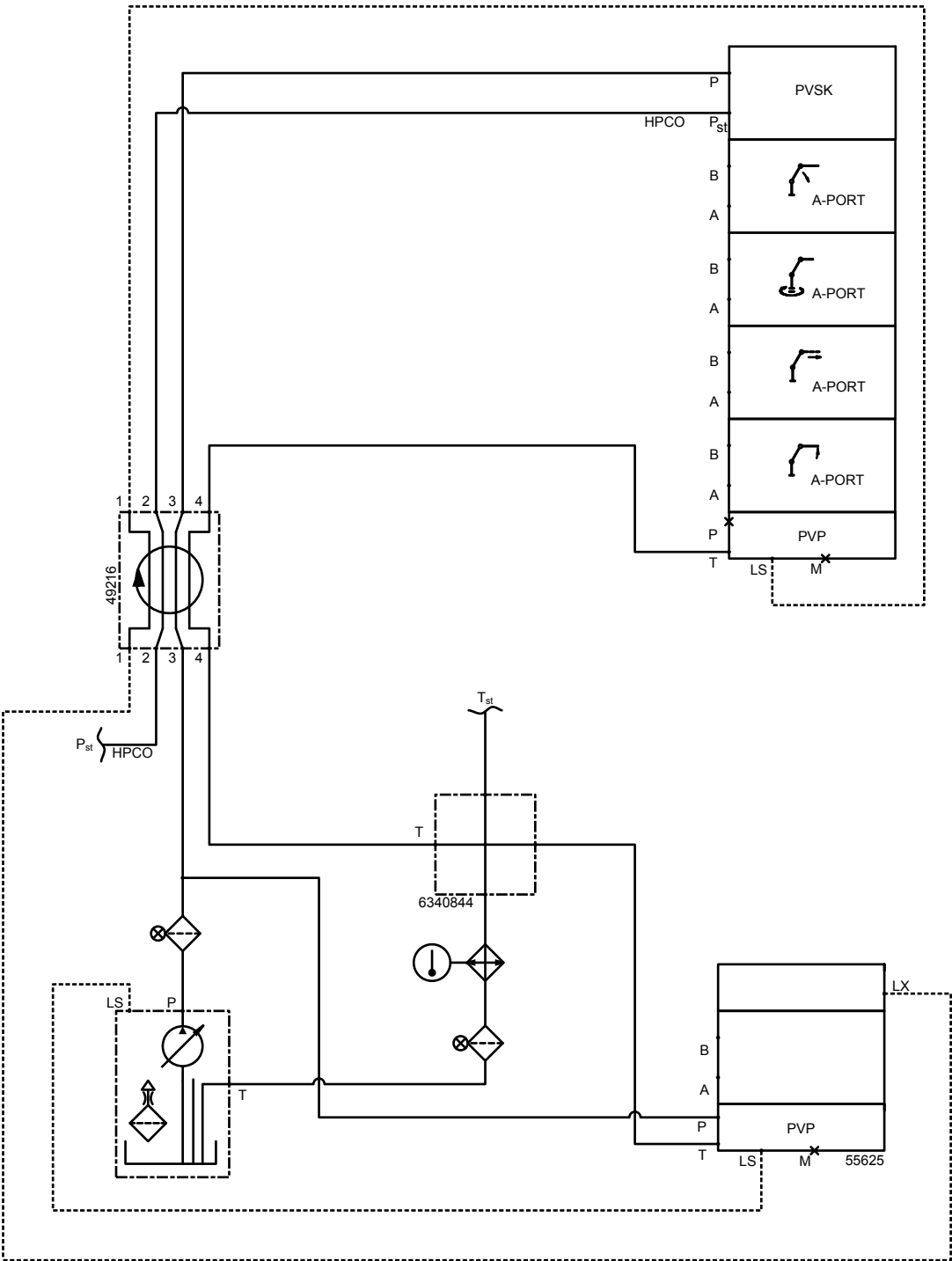


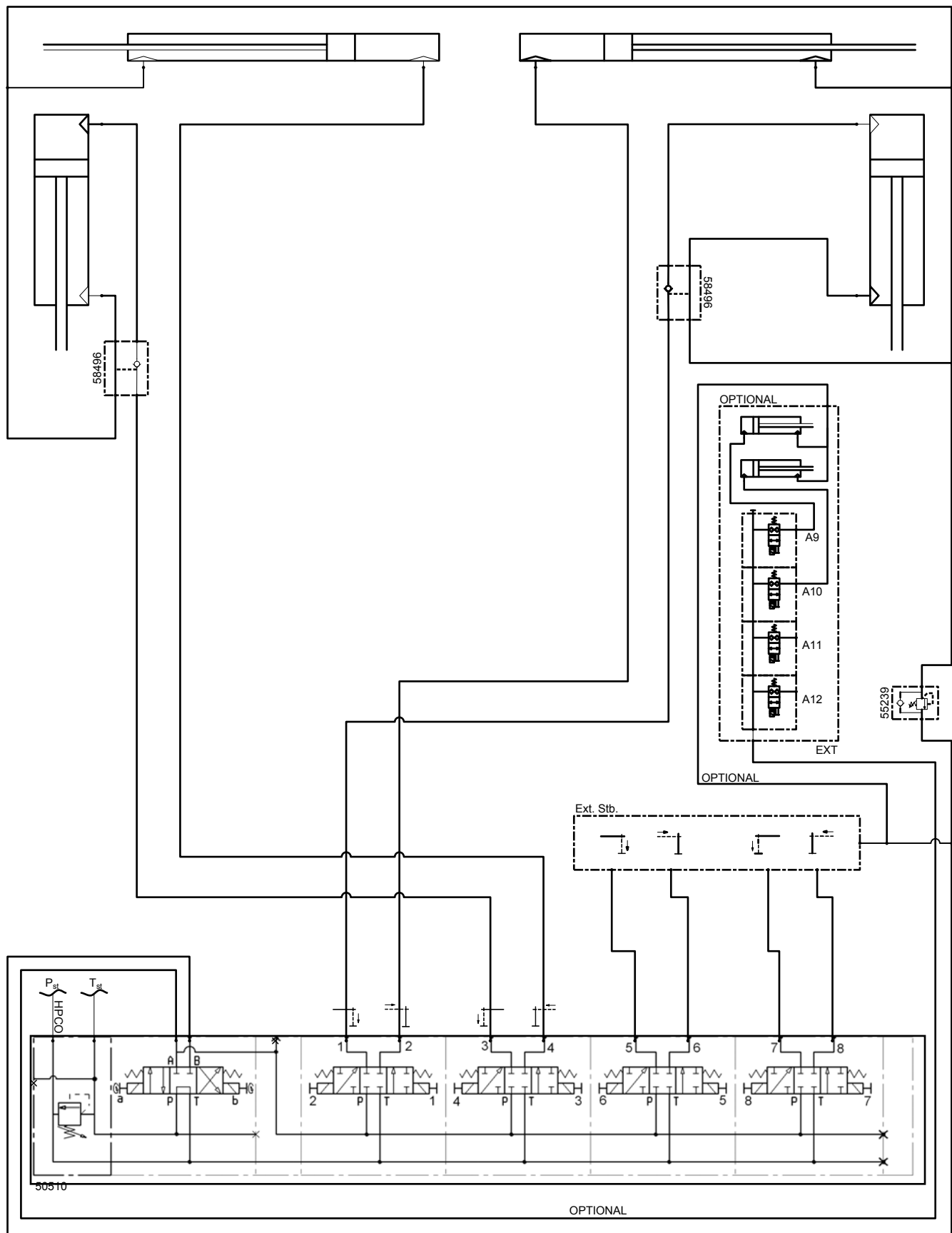
# 50/345 - Hydraulic Diagram - Danfoss, Single-Circuit FJ w/EXV + Winch





50/345 - Hydraulic Diagram - Danfoss Single-Circuit Variable + 1 Extra Danfoss FCTS.



**50/345 - Hydraulic Diagram - Stabilizer Circuit + 4 Available FCTS.**



**Section - 6**

**Capacity Charts - Fly-Jibs**

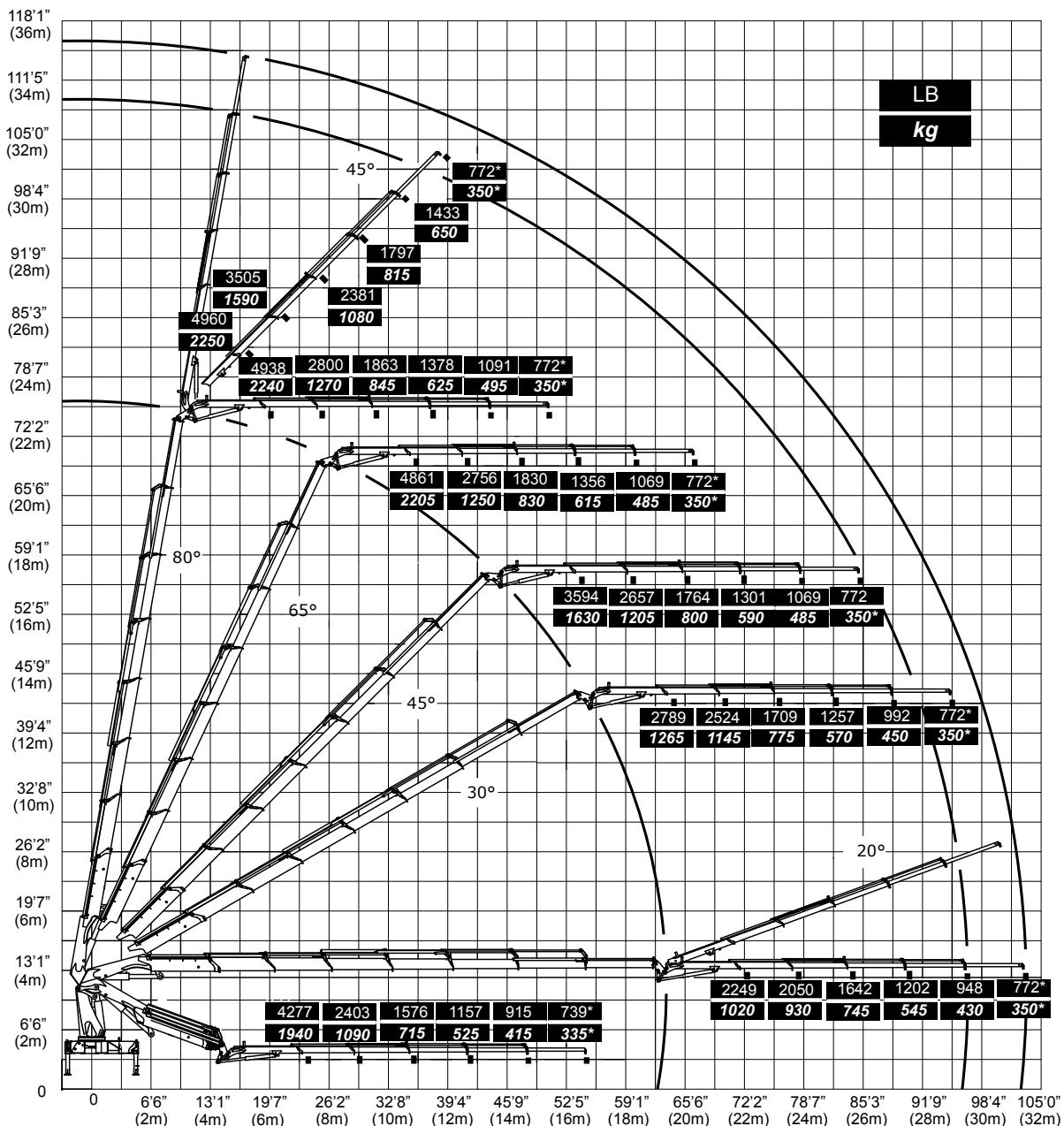
# 50/345 K7 with FJ600 K4

**IMT**
**MATERIAL HANDLING SYSTEMS**

## Model 50/345 K7 FJ600 K4

**IOWA MOLD TOOLING CO., INC.**  
**BOX 189 • GARNER • IA • 50438 • 641-923-3711**

- Working loads will be limited to those shown. Deduct the weight of load handling devices.
- Before lift is made, stability must be checked per SAE J765A.



\* WITH MANUAL EXTENSION

70490128

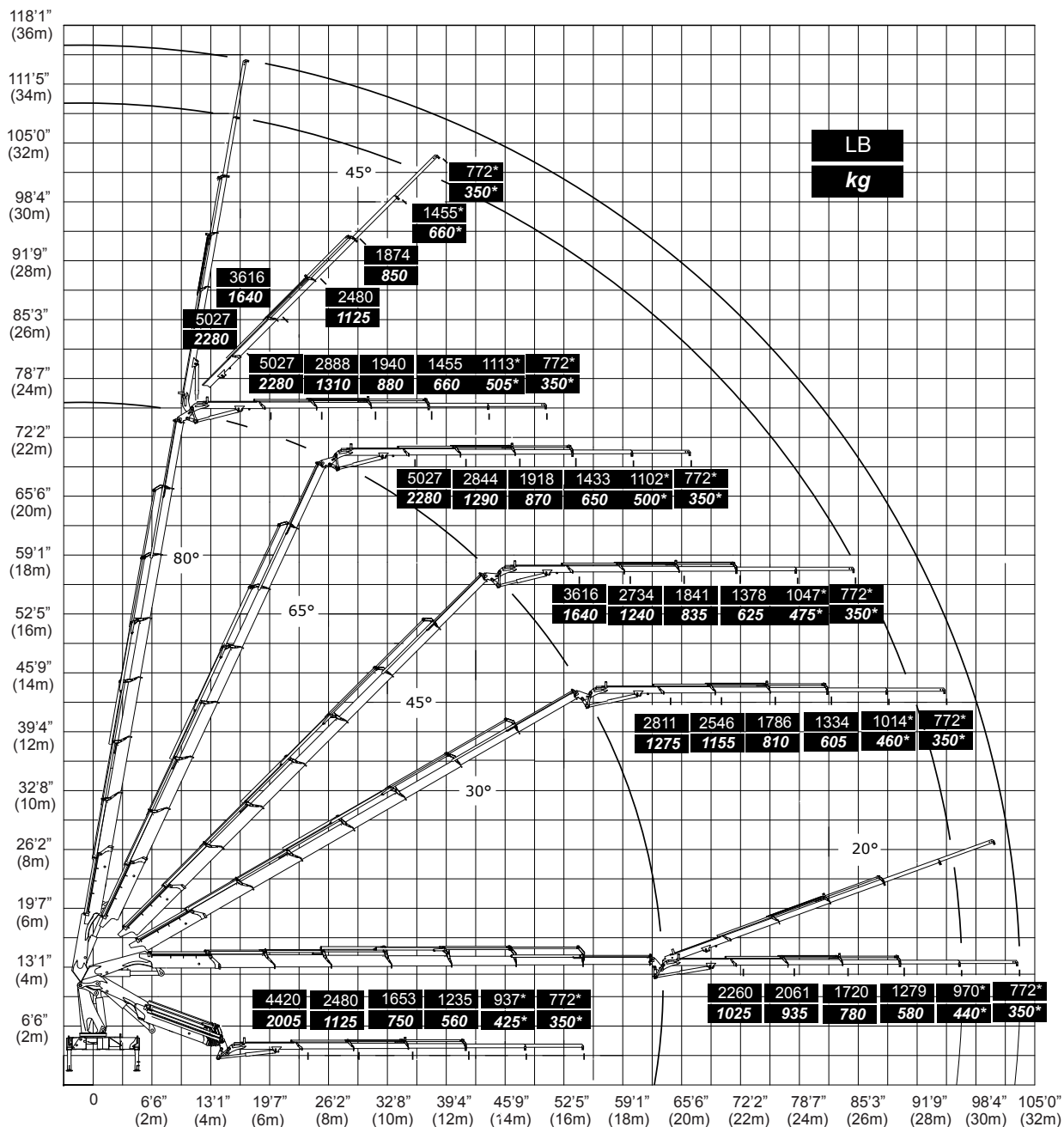
## 50/345 K7 with FJ600 K3

**IMT**
**MATERIAL HANDLING SYSTEMS**

### Model 50/345 K7 FJ600 K3

**IOWA MOLD TOOLING CO., INC.**  
**BOX 189 • GARNER • IA • 50438 • 641-923-3711**

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



\*WITH MANUAL EXTENSIONS

70490129

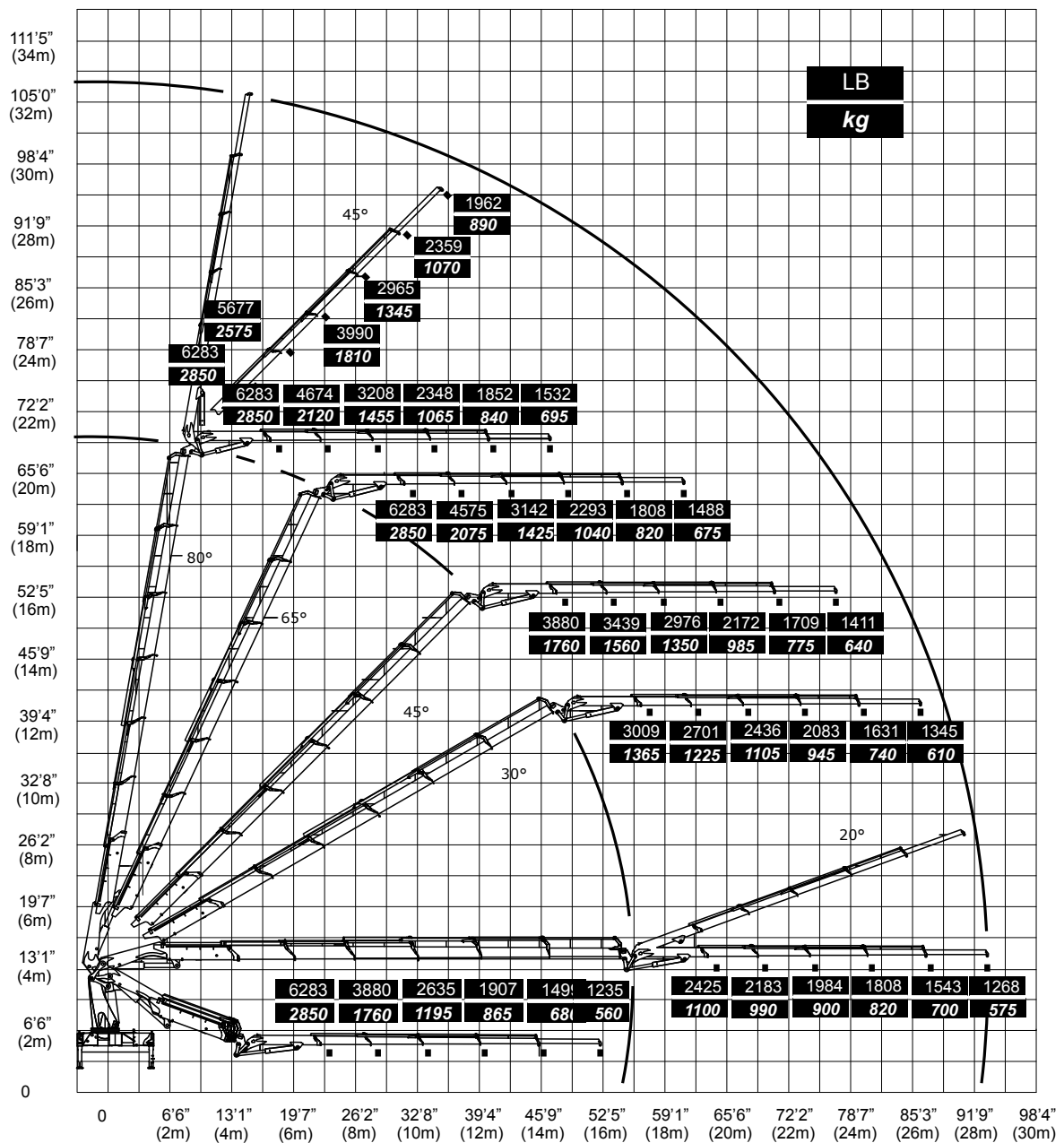
## 50/345 K6 with FJ1000 K5

**IMT**
**MATERIAL HANDLING SYSTEMS**

### Model 50/345 K6 FJ1000 K5

**IOWA MOLD TOOLING CO., INC.**  
**BOX 189 • GARNER • IA • 50438 • 641-923-3711**

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



# 50/345 K6 with FJ1000 K4

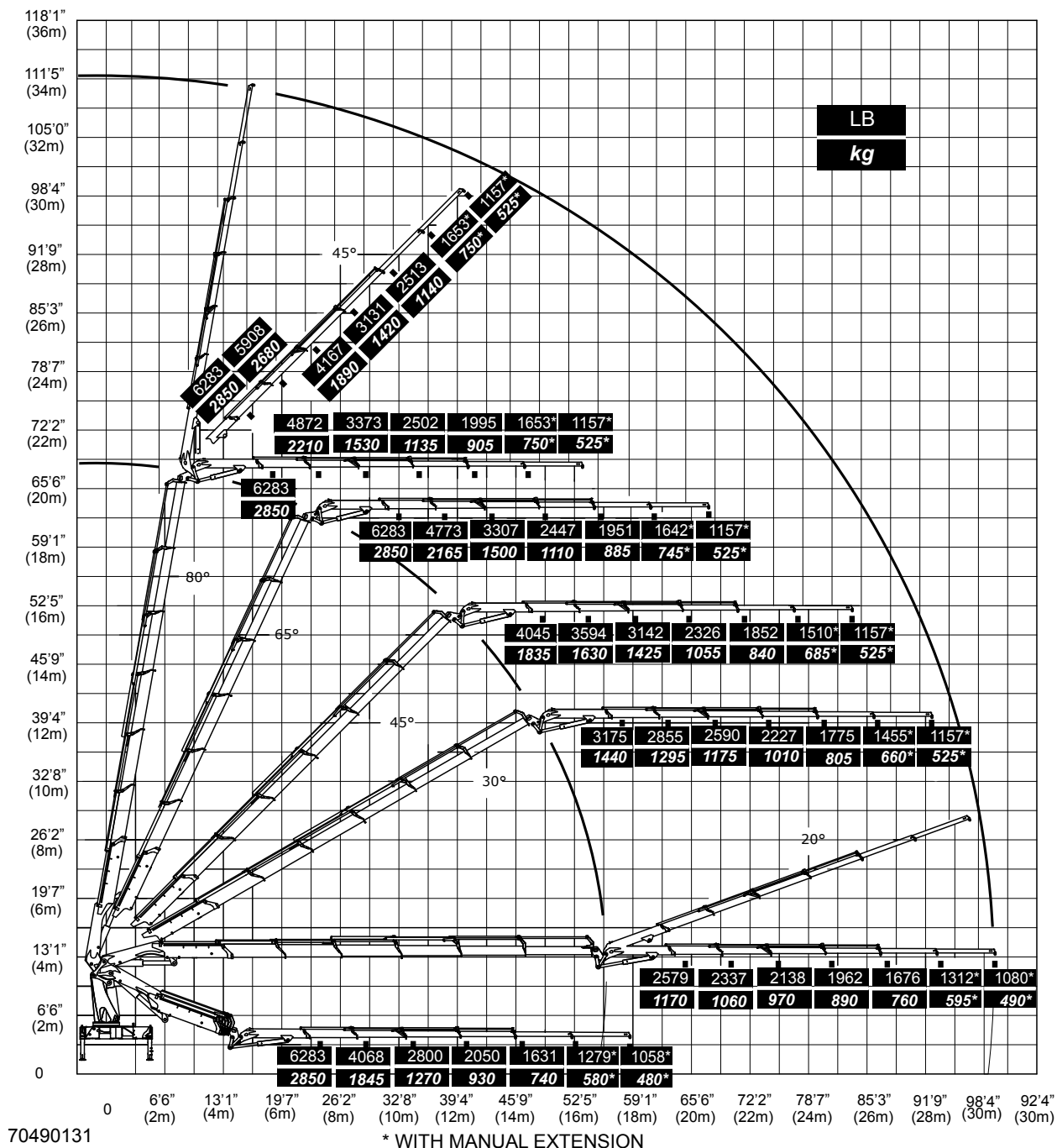
**IMT**

MATERIAL HANDLING SYSTEMS

## Model 50/345 K6 FJ1000 K4

 IOWA MOLD TOOLING CO., INC.  
 BOX 189 • GARNER • IA • 50438 • 641-923-3711

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*



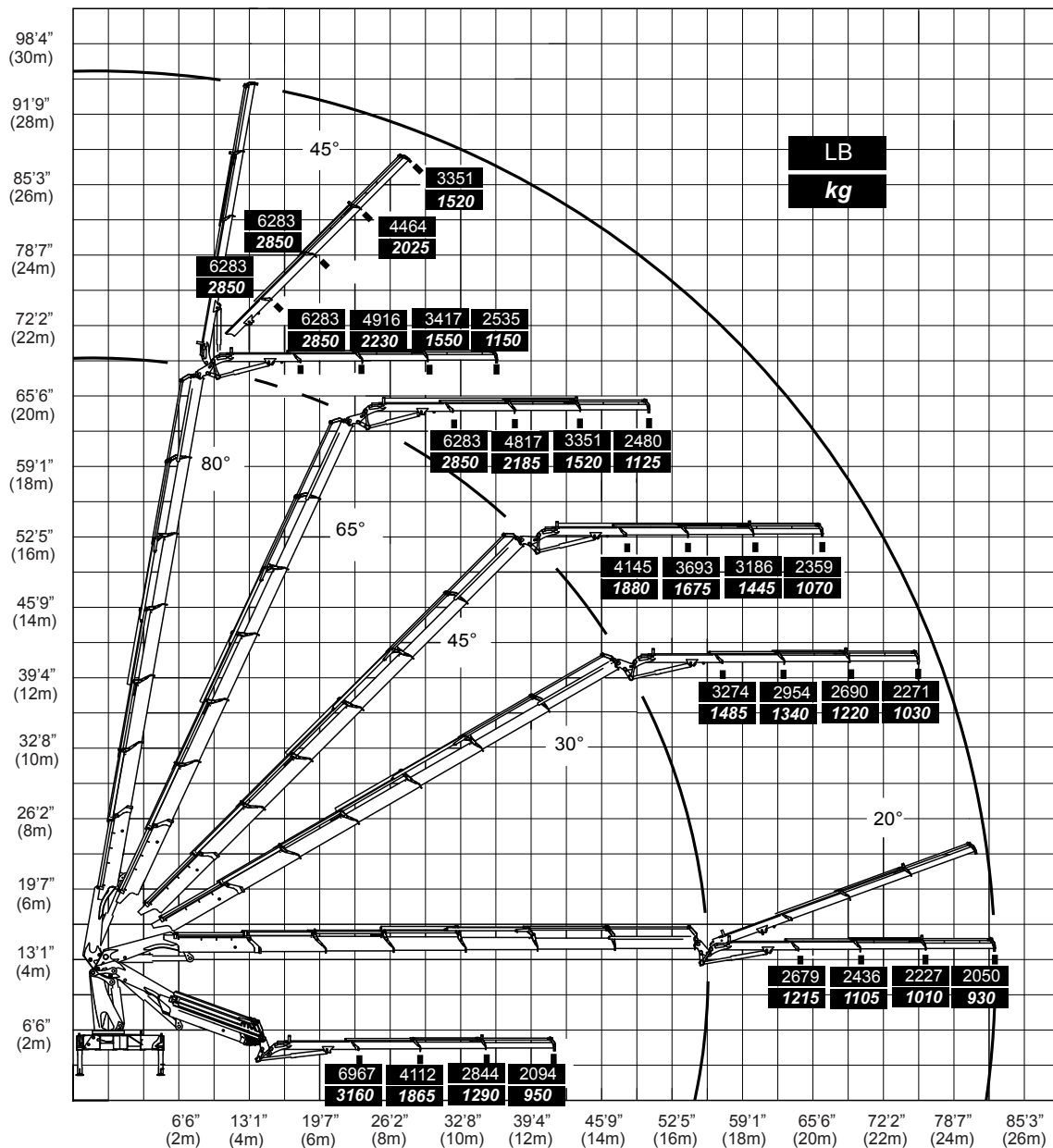
## 50/345 K6 with FJ1000 K3

**IMT**
**MATERIAL HANDLING SYSTEMS**

### Model 50/345 K6 FJ1000 K3

**IOWA MOLD TOOLING CO., INC.**  
**BOX 189 • GARNER • IA • 50438 • 641-923-3711**

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*

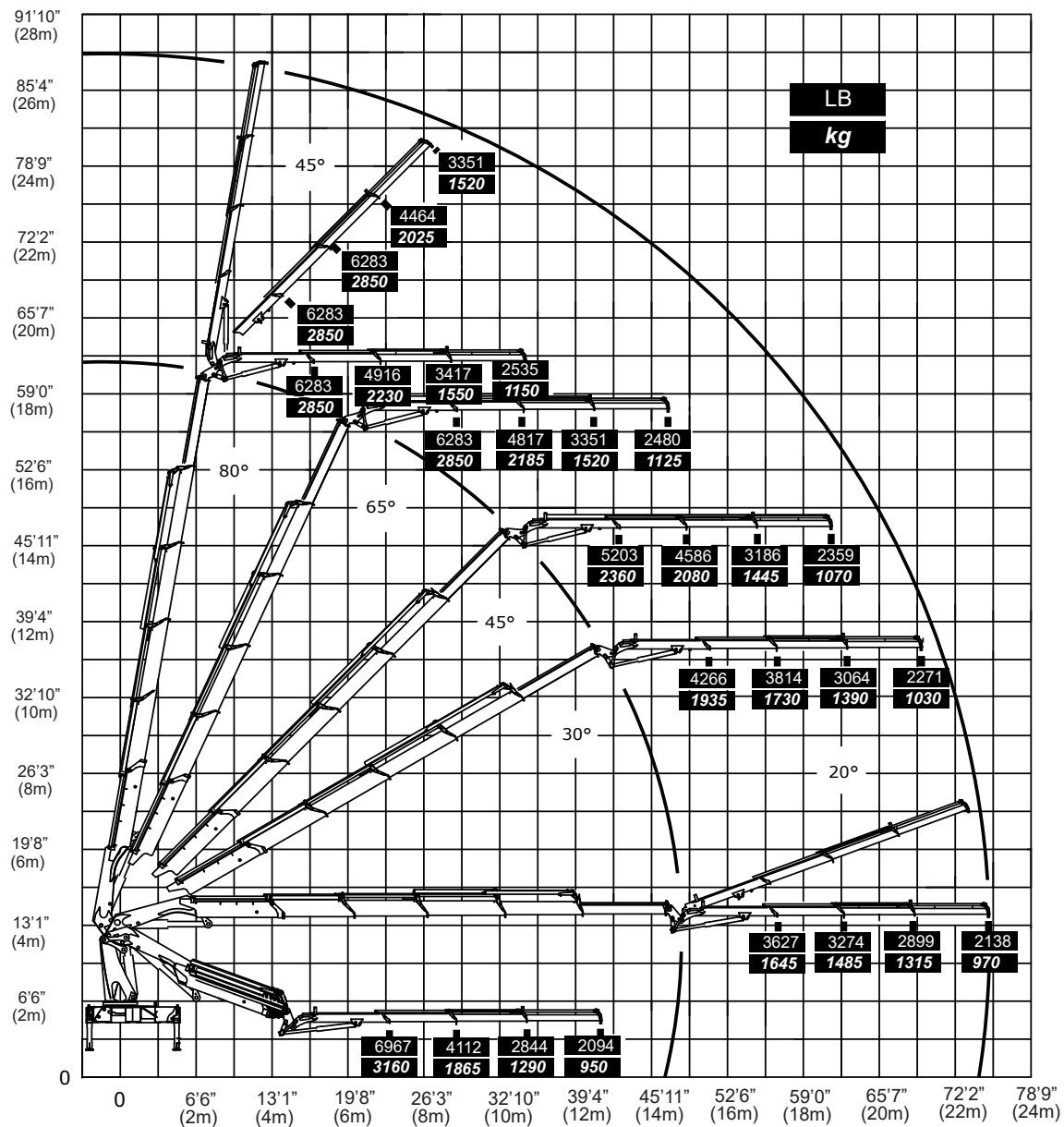

**70490133**

# 50/345 K5 with FJ1000 K3

**IMT**
**MATERIAL HANDLING SYSTEMS**
**IOWA MOLD TOOLING CO., INC.**  
**BOX 189 • GARNER • IA • 50438 • 641-923-3711**

## Model 50/345 K5 FJ1000 K3

- Limit working loads to those shown. Deduct the weight of load handling devices.
- *El peso propio (tara) de los dispositivos de manipulación de cargas es parte de la carga levantada y se debe descontar de la capacidad nominal.*

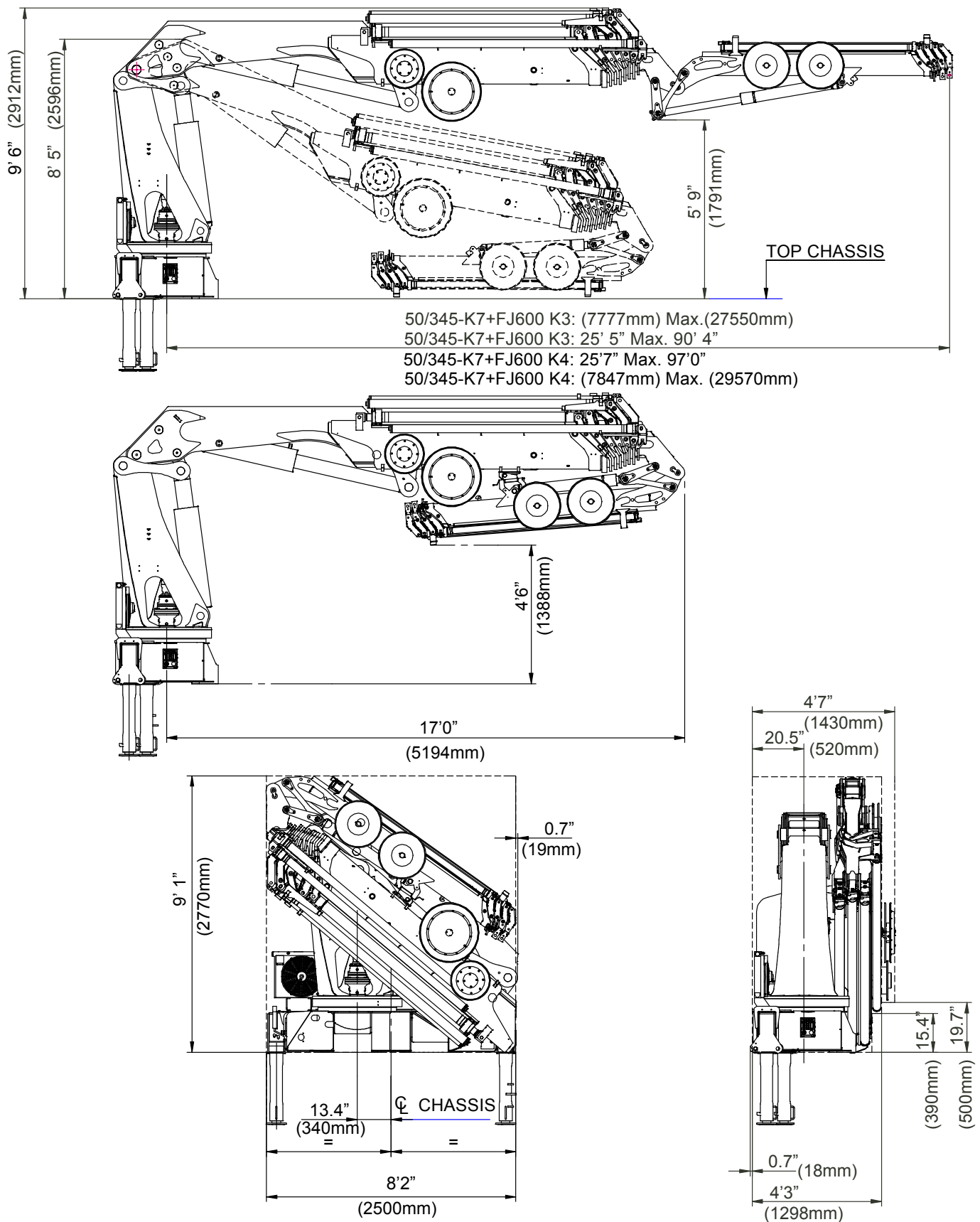

**70490409**

**Section - 7**

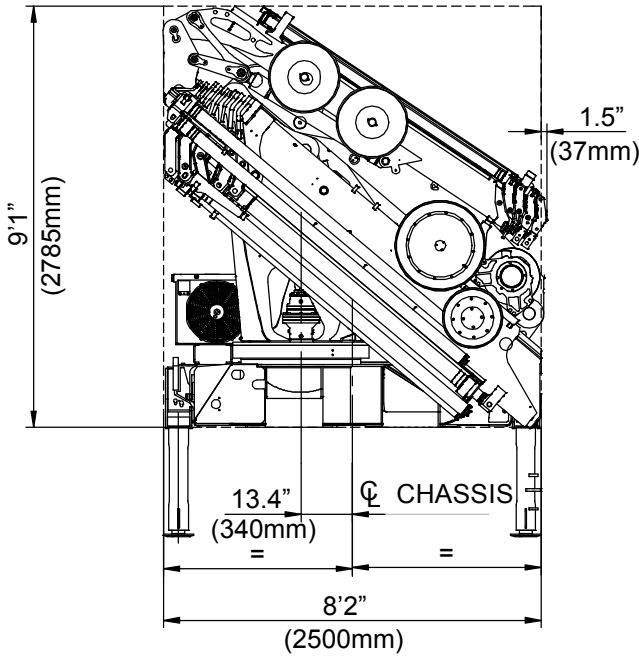
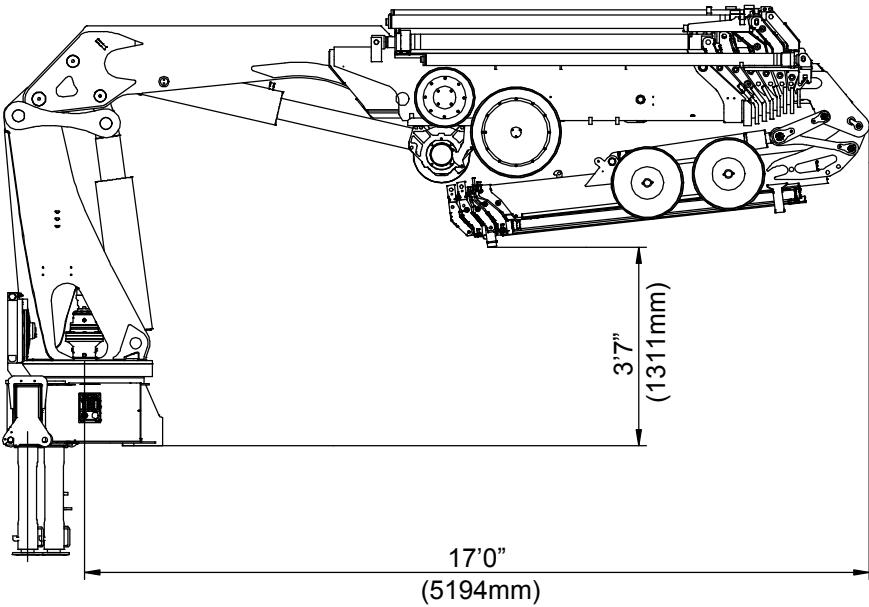
**Dimension Drawings - Fly-Jibs**



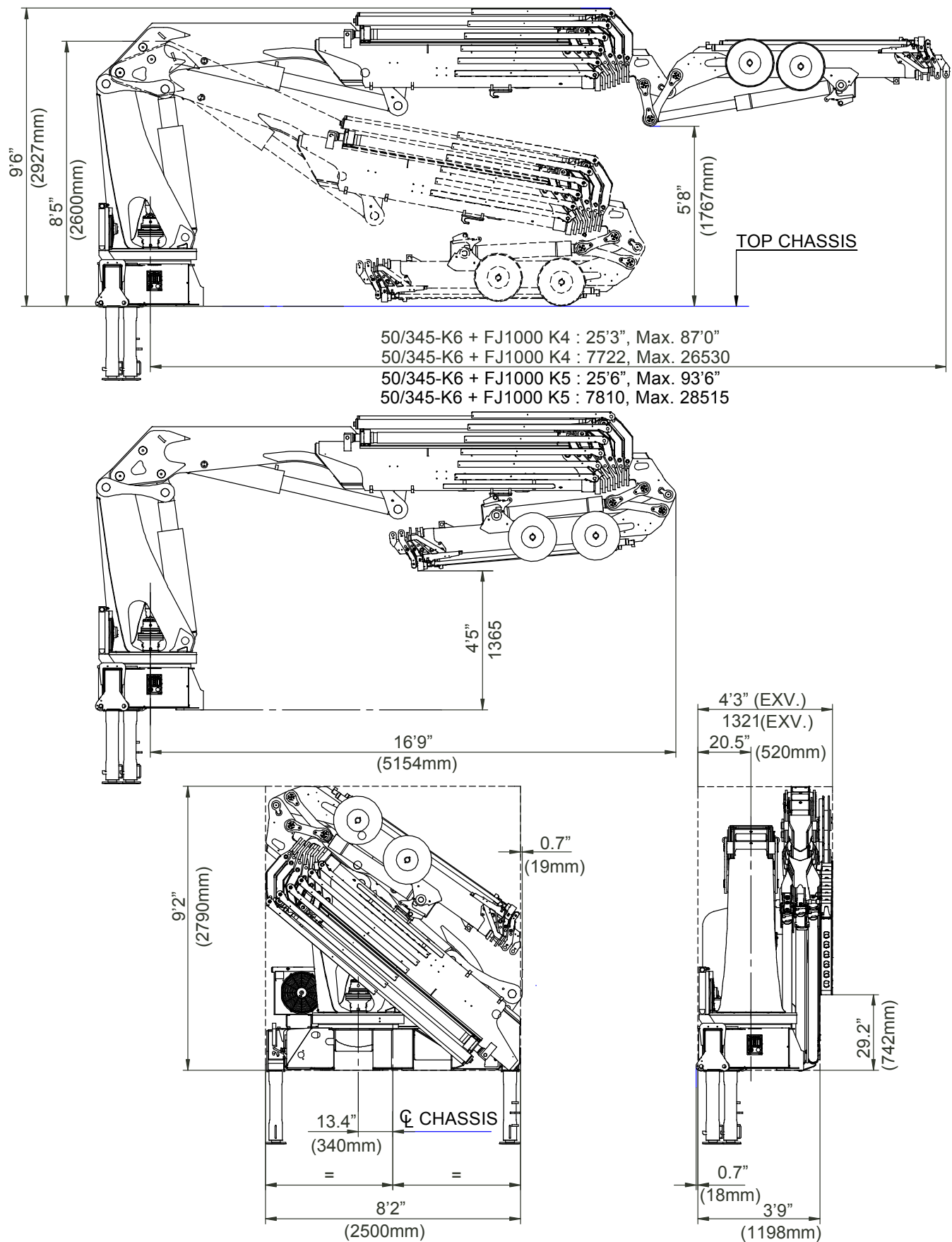
## 50/345 - Dimension Sketch, K7 with FJ600



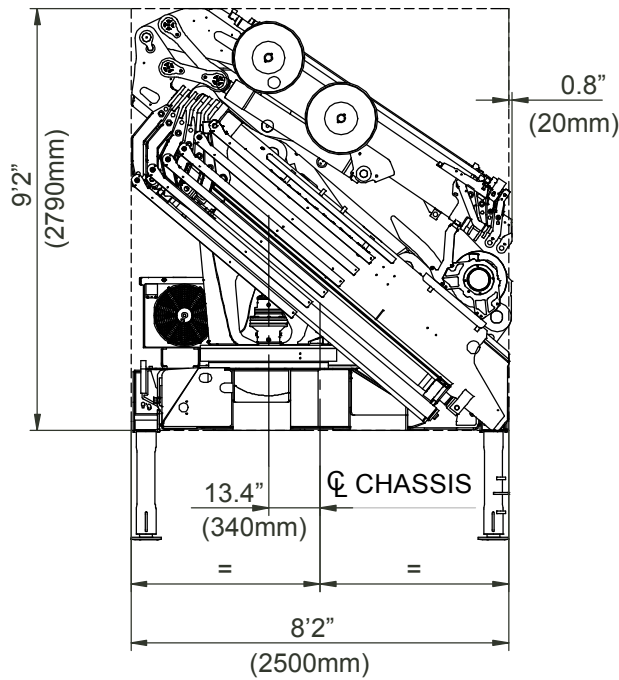
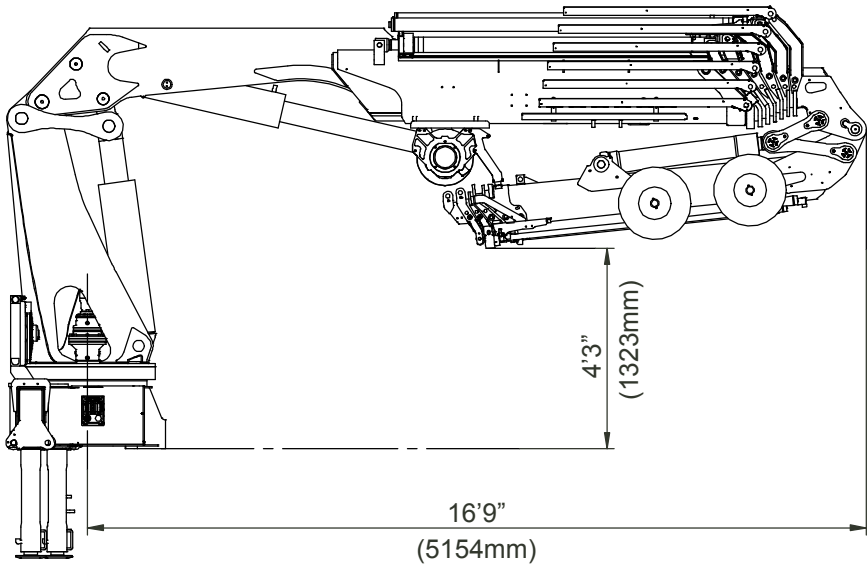
50/345 - Dimension Sketch with FJ600 with Winch



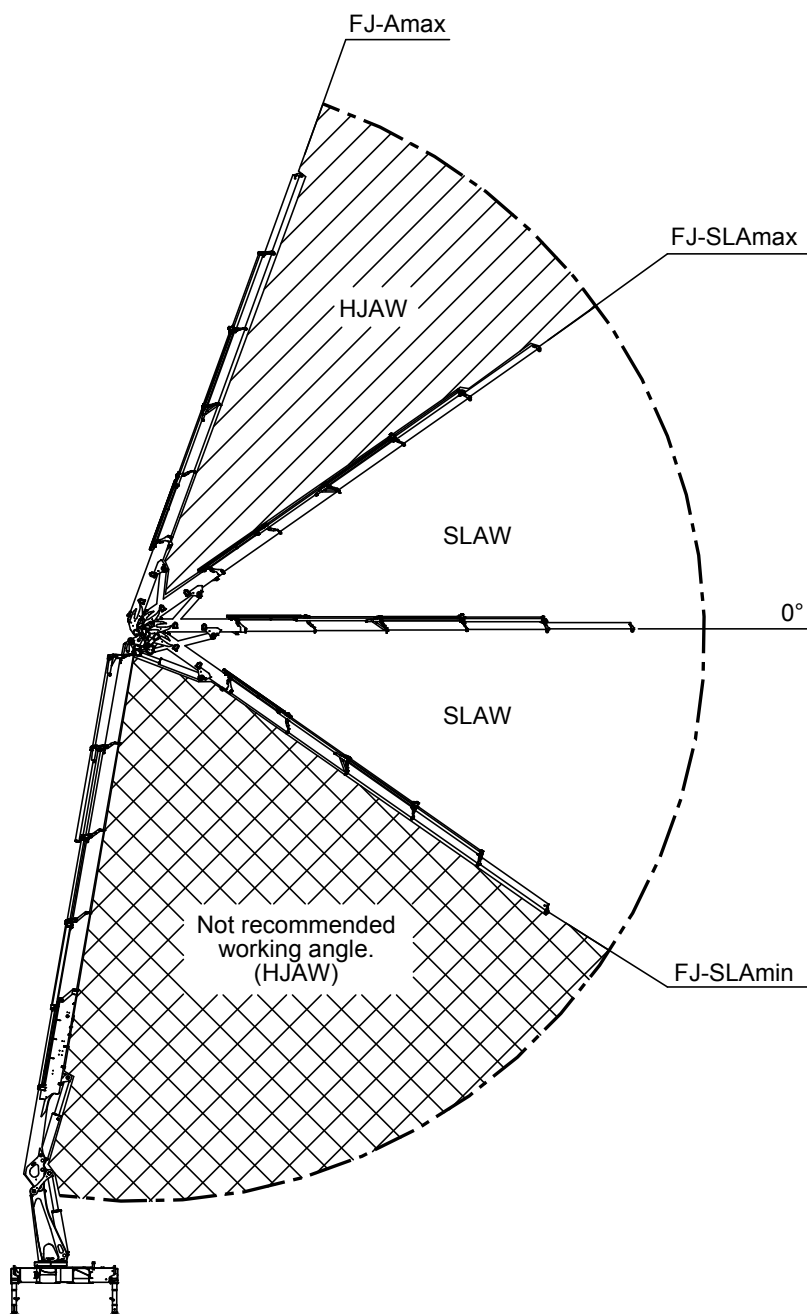
## 50/345 - Dimension Sketch K6 with FJ1000



50/345 - Dimension Sketch K6 with FJ1000 with Winch

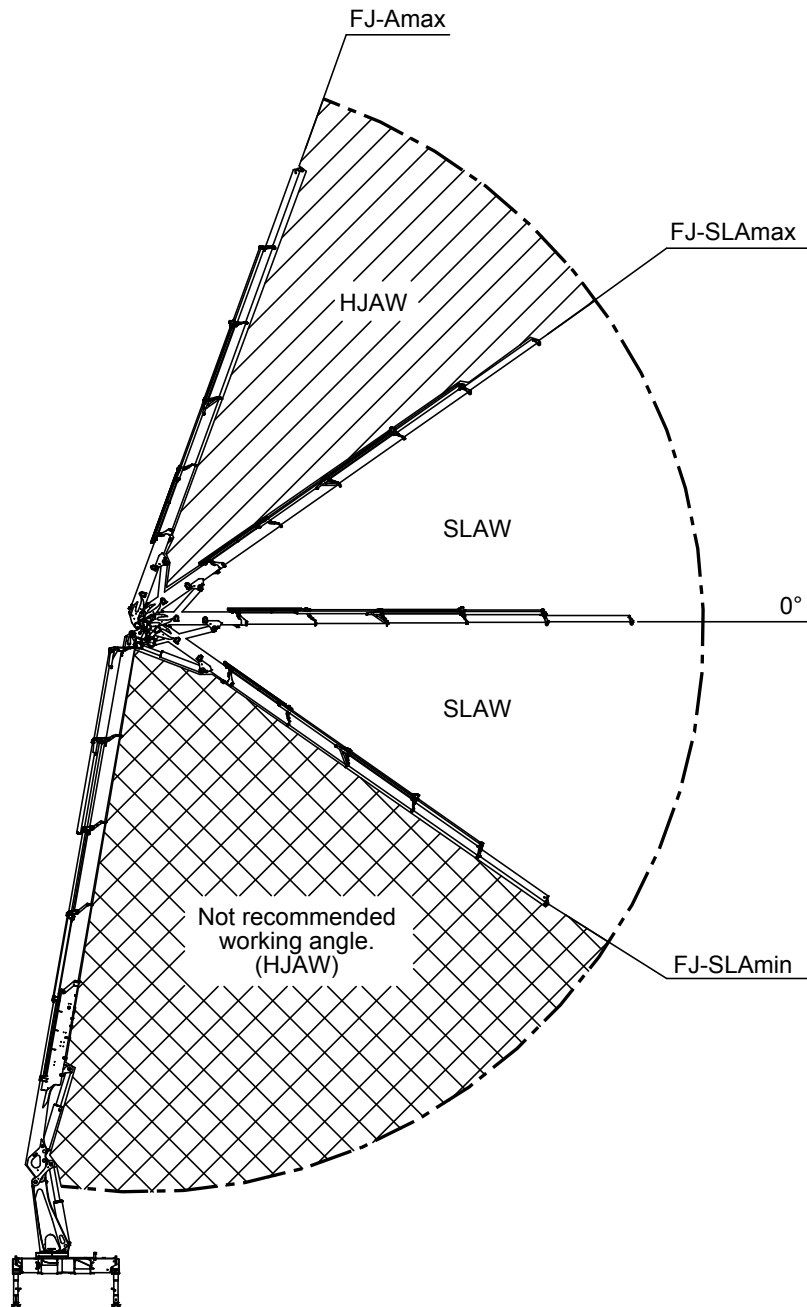


## 50/345 - Lifting Capacity, Fly-Jib with Winch



| Lifting capacity for hoist | Max. angle     | Recommended working area (SLAW) |                  | Hydraulic hoist type     |             |                           |             |                                         |             |
|----------------------------|----------------|---------------------------------|------------------|--------------------------|-------------|---------------------------|-------------|-----------------------------------------|-------------|
|                            |                |                                 |                  | 3307 lb<br>(Dinamic P9E) |             | 5512 lb<br>(Dinamic P15E) |             | 7055 lb<br>(Dinamic S25 / Brevini 2500) |             |
|                            | <i>FJ-Amax</i> | <i>FJ-SLamin</i>                | <i>FJ-SLamax</i> | <i>HJAW</i>              | <i>SLAW</i> | <i>HJAW</i>               | <i>SLAW</i> | <i>HJAW</i>                             | <i>SLAW</i> |
| <b>FJ350</b>               | 70°            | -30°                            | 30°              | 1323 lb                  | 2205 lb     |                           |             |                                         |             |
| <b>FJ600 (17-20 tm)</b>    | 70°            | -30°                            | 30°              | 1543 lb                  | 2205 lb     | 1543 lb                   | 2205 lb     |                                         |             |
| <b>FJ600 (32-50 tm)</b>    | 70°            | -30°                            | 30°              |                          |             | 1543 lb                   | 4079 lb     |                                         |             |
| <b>FJ1000</b>              | 70°            | -30°                            | 30°              |                          |             | 1543 lb                   | 4079lb      |                                         |             |
| <b>FJ1200</b>              | 70°            | -40°                            | 40°              |                          |             |                           |             | 2205 lb                                 | 2866 lb     |
| <b>FJ2000</b>              | 70°            | -40°                            | 40°              |                          |             |                           |             | 2866 lb                                 | 2866 lb     |

## 50/345 - Lifting Capacity, Fly-Jib with Winch (Metric)



| Lifting capacity for hoist | Max. angle | Recommended working area (SLAW) |     | Hydraulic hoist type     |         |                           |         |                                         |         |
|----------------------------|------------|---------------------------------|-----|--------------------------|---------|---------------------------|---------|-----------------------------------------|---------|
|                            |            |                                 |     | 1500 kg<br>(Dinamic P9E) |         | 2500 kg<br>(Dinamic P15E) |         | 3200 kg<br>(Dinamic S25 / Brevini 2500) |         |
|                            |            |                                 |     | HJAW                     | SLAW    | HJAW                      | SLAW    | HJAW                                    | SLAW    |
| <b>FJ350</b>               | 70°        | -30°                            | 30° | 600 kg                   | 1000 kg |                           |         |                                         |         |
| <b>FJ600 (17-20 tm)</b>    | 70°        | -30°                            | 30° | 700 kg                   | 1000 kg | 700 kg                    | 1000 kg |                                         |         |
| <b>FJ600 (32-50 tm)</b>    | 70°        | -30°                            | 30° |                          |         | 700 kg                    | 1850 kg |                                         |         |
| <b>FJ1000</b>              | 70°        | -30°                            | 30° |                          |         | 700 kg                    | 1850 kg |                                         |         |
| <b>FJ1200</b>              | 70°        | -40°                            | 40° |                          |         |                           |         | 1000 kg                                 | 3200 kg |
| <b>FJ2000</b>              | 70°        | -40°                            | 40° |                          |         |                           |         | 1300 kg                                 | 3200 kg |





**IOWA MOLD TOOLING CO., INC.**

P.O. Box 189 Garner, IA 50438

Tel: 641.923.3711

Fax: 641.923.2424

[www.imt.com](http://www.imt.com)

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