

# *SOUTHERN CRANES & ACCESS*

## Kato CR-250RV



Southern Cranes & Access Ltd  
Pollards Way, Southwater, Horsham, RH13 9AQ

Access hire: 01403 339105 . Crane hire: 01403 790874  
sales@southerncranes.co.uk . [www.southerncranes.co.uk](http://www.southerncranes.co.uk)

Cranes

Access

Transport

Contract Lifting

Training

# Kato CR-250RV

## Lifting capacities

Not exceed 75% of static tipping loads

### 6.7m - 29.0m Boom

|                     |  (6.0m) |             |             |            |            |            |  (5.2m) |             |             |            |            |            |  (4.4m) |             |             |            |            |            |  (3.4m) |             |             |            |            |            |  (2.085m) |             |             |            |            |            |
|---------------------|------------------------------------------------------------------------------------------|-------------|-------------|------------|------------|------------|------------------------------------------------------------------------------------------|-------------|-------------|------------|------------|------------|------------------------------------------------------------------------------------------|-------------|-------------|------------|------------|------------|--------------------------------------------------------------------------------------------|-------------|-------------|------------|------------|------------|----------------------------------------------------------------------------------------------|-------------|-------------|------------|------------|------------|
| Working radius (m)  | Outriggers fully extended (6.0m) 360° full range                                         |             |             |            |            |            | Outriggers intermediately extended over side (5.2m)                                      |             |             |            |            |            | Outriggers intermediately extended over side (4.4m)                                      |             |             |            |            |            | Outriggers intermediately extended over side (3.4m)                                        |             |             |            |            |            | Outriggers completely retracted (2.085m) - over side                                         |             |             |            |            |            |
|                     | 6.7m Boom                                                                                | 11.25m Boom | 15.74m Boom | 20.2m Boom | 24.6m Boom | 29.0m Boom | 6.7m Boom                                                                                | 11.25m Boom | 15.74m Boom | 20.2m Boom | 24.6m Boom | 29.0m Boom | 6.7m Boom                                                                                | 11.25m Boom | 15.74m Boom | 20.2m Boom | 24.6m Boom | 29.0m Boom | 6.7m Boom                                                                                  | 11.25m Boom | 15.74m Boom | 20.2m Boom | 24.6m Boom | 29.0m Boom | 6.7m Boom                                                                                    | 11.25m Boom | 15.74m Boom | 20.2m Boom | 24.6m Boom | 29.0m Boom |
| 2.8                 | 25.00*                                                                                   | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 25.00*                                                                                   | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 22.00                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 20.00                                                                                      | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 9.70                                                                                         | 9.70        | 8.85        | 8.30       | 7.85       | 6.25       |
| 3.0                 | 22.00                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 22.00                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 22.00                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 20.00                                                                                      | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 8.55                                                                                         | 8.55        | 8.00        | 7.60       | 7.25       | 5.80       |
| 3.5                 | 20.00                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 20.00                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 20.00                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 14.65                                                                                      | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 6.40                                                                                         | 6.40        | 6.35        | 6.15       | 6.00       | 4.90       |
| 4.0                 | 17.00                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 17.00                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 17.00                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 11.10                                                                                      | 11.10       | 11.00       | 9.00       | 8.00       | 7.00       | 5.00                                                                                         | 5.00        | 4.95        | 5.05       | 5.00       | 4.20       |
| 4.5                 | 15.00                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 15.00                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 14.30                                                                                    | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       | 8.75                                                                                       | 8.75        | 8.70        | 8.80       | 8.00       | 7.00       | 3.95                                                                                         | 3.95        | 3.95        | 4.20       | 4.25       | 3.60       |
| 5.0                 |                                                                                          | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       |                                                                                          | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       |                                                                                          | 11.40       | 11.35       | 9.00       | 8.00       | 7.00       |                                                                                            | 7.15        | 7.10        | 7.35       | 7.35       | 7.00       |                                                                                              | 3.20        | 3.20        | 3.50       | 3.60       | 3.15       |
| 5.5                 |                                                                                          | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       |                                                                                          | 13.00       | 12.00       | 9.00       | 8.00       | 7.00       |                                                                                          | 9.35        | 9.35        | 9.00       | 8.00       | 7.00       |                                                                                            | 5.90        | 5.90        | 6.15       | 6.40       | 6.30       |                                                                                              | 2.60        | 2.60        | 2.90       | 3.10       | 2.70       |
| 6.0                 |                                                                                          | 12.00       | 11.50       | 9.00       | 8.00       | 7.00       |                                                                                          | 10.90       | 10.80       | 9.00       | 8.00       | 7.00       |                                                                                          | 7.85        | 7.85        | 8.15       | 8.00       | 7.00       |                                                                                            | 5.00        | 4.95        | 5.25       | 5.55       | 5.55       |                                                                                              | 2.15        | 2.10        | 2.45       | 2.65       | 2.35       |
| 6.5                 |                                                                                          | 11.30       | 10.65       | 9.00       | 8.00       | 7.00       |                                                                                          | 9.20        | 9.15        | 9.00       | 8.00       | 7.00       |                                                                                          | 6.70        | 6.70        | 7.00       | 7.30       | 7.00       |                                                                                            | 4.25        | 4.20        | 4.50       | 4.80       | 4.95       |                                                                                              | 1.75        | 1.75        | 2.05       | 2.25       | 2.05       |
| 7.0                 |                                                                                          | 10.40       | 9.90        | 9.00       | 8.00       | 7.00       |                                                                                          | 7.95        | 7.85        | 8.20       | 8.00       | 7.00       |                                                                                          | 5.80        | 5.75        | 6.10       | 6.40       | 6.60       |                                                                                            | 3.65        | 3.60        | 3.90       | 4.20       | 4.40       |                                                                                              | 1.40        | 1.40        | 1.70       | 1.95       | 1.80       |
| 8.0                 |                                                                                          | 7.90        | 7.90        | 8.30       | 8.00       | 6.80       |                                                                                          | 6.05        | 6.00        | 6.35       | 6.65       | 6.80       |                                                                                          | 4.40        | 4.40        | 4.70       | 5.00       | 5.20       |                                                                                            | 2.70        | 2.70        | 3.00       | 3.25       | 3.45       |                                                                                              | 0.90        |             | 1.20       | 1.40       |            |
| 9.0                 |                                                                                          | 6.20        | 6.20        | 6.60       | 6.90       | 6.20       |                                                                                          | 4.75        | 4.75        | 5.05       | 5.35       | 5.55       |                                                                                          | 3.45        | 3.45        | 3.75       | 4.00       | 4.20       |                                                                                            | 2.05        | 2.05        | 2.35       | 2.55       | 2.75       |                                                                                              | 0.55        |             |            |            |            |
| 10.0                |                                                                                          |             | 5.00        | 5.35       | 5.65       | 5.70       |                                                                                          |             | 3.80        | 4.15       | 4.40       | 4.60       |                                                                                          |             | 2.70        | 3.05       | 3.25       | 3.45       |                                                                                            |             | 1.50        | 1.85       | 2.05       | 2.20       |                                                                                              |             |             |            |            |            |
| 11.0                |                                                                                          |             | 4.05        | 4.40       | 4.70       | 4.90       |                                                                                          |             | 3.05        | 3.40       | 3.65       | 3.85       |                                                                                          |             | 2.15        | 2.45       | 2.70       | 2.90       |                                                                                            |             | 1.10        | 1.45       | 1.65       | 1.80       |                                                                                              |             |             |            |            |            |
| 12.0                |                                                                                          |             | 3.35        | 3.70       | 3.95       | 4.15       |                                                                                          |             | 2.50        | 2.85       | 3.10       | 3.25       |                                                                                          |             | 1.70        | 2.00       | 2.25       | 2.40       |                                                                                            |             | 0.80        | 1.10       | 1.30       | 1.45       |                                                                                              |             |             |            |            |            |
| 13.0                |                                                                                          |             | 2.75        | 3.10       | 3.40       | 3.55       |                                                                                          |             | 2.05        | 2.40       | 2.60       | 2.80       |                                                                                          |             | 1.35        | 1.65       | 1.90       | 2.05       |                                                                                            |             | 0.50        | 0.85       | 1.05       | 1.20       |                                                                                              |             |             |            |            |            |
| 14.0                |                                                                                          |             |             | 2.65       | 2.90       | 3.05       |                                                                                          |             |             | 2.00       | 2.25       | 2.40       |                                                                                          |             |             | 1.35       | 1.55       | 1.75       |                                                                                            |             |             | 0.60       | 0.80       | 0.95       |                                                                                              |             |             |            |            |            |
| 15.0                |                                                                                          |             |             | 2.25       | 2.50       | 2.65       |                                                                                          |             |             | 1.70       | 1.90       | 2.05       |                                                                                          |             |             | 1.10       | 1.30       | 1.45       |                                                                                            |             |             |            | 0.65       | 0.75       |                                                                                              |             |             |            |            |            |
| 16.0                |                                                                                          |             |             | 1.95       | 2.15       | 2.35       |                                                                                          |             |             | 1.40       | 1.65       | 1.80       |                                                                                          |             |             | 0.90       | 1.10       | 1.25       |                                                                                            |             |             |            |            |            |                                                                                              |             |             |            |            |            |
| 17.0                |                                                                                          |             |             | 1.65       | 1.90       | 2.05       |                                                                                          |             |             | 1.20       | 1.40       | 1.55       |                                                                                          |             |             | 0.70       | 0.90       | 1.05       |                                                                                            |             |             |            |            |            |                                                                                              |             |             |            |            |            |
| 18.0                |                                                                                          |             |             | 1.40       | 1.65       | 1.80       |                                                                                          |             |             | 1.00       | 1.20       | 1.35       |                                                                                          |             |             | 0.50       | 0.75       | 0.85       |                                                                                            |             |             |            |            |            |                                                                                              |             |             |            |            |            |
| 19.0                |                                                                                          |             |             |            | 1.40       | 1.55       |                                                                                          |             |             |            | 1.00       | 1.15       |                                                                                          |             |             |            | 0.60       | 0.70       |                                                                                            |             |             |            |            |            |                                                                                              |             |             |            |            |            |
| 20.0                |                                                                                          |             |             |            | 1.25       | 1.40       |                                                                                          |             |             |            | 0.85       | 1.00       |                                                                                          |             |             |            | 0.45       | 0.60       |                                                                                            |             |             |            |            |            |                                                                                              |             |             |            |            |            |
| 21.0                |                                                                                          |             |             |            | 1.05       | 1.20       |                                                                                          |             |             |            | 0.70       | 0.85       |                                                                                          |             |             |            |            | 0.45       |                                                                                            |             |             |            |            |            |                                                                                              |             |             |            |            |            |
| 22.0                |                                                                                          |             |             |            | 0.90       | 1.05       |                                                                                          |             |             |            | 0.60       | 0.75       |                                                                                          |             |             |            |            |            |                                                                                            |             |             |            |            |            |                                                                                              |             |             |            |            |            |
| 23.0                |                                                                                          |             |             |            |            | 0.90       |                                                                                          |             |             |            |            | 0.60       |                                                                                          |             |             |            |            |            |                                                                                            |             |             |            |            |            |                                                                                              |             |             |            |            |            |
| 24.0                |                                                                                          |             |             |            |            | 0.80       |                                                                                          |             |             |            |            | 0.50       |                                                                                          |             |             |            |            |            |                                                                                            |             |             |            |            |            |                                                                                              |             |             |            |            |            |
| 25.0                |                                                                                          |             |             |            |            | 0.65       |                                                                                          |             |             |            |            |            |                                                                                          |             |             |            |            |            |                                                                                            |             |             |            |            |            |                                                                                              |             |             |            |            |            |
| 26.0                |                                                                                          |             |             |            |            | 0.55       |                                                                                          |             |             |            |            |            |                                                                                          |             |             |            |            |            |                                                                                            |             |             |            |            |            |                                                                                              |             |             |            |            |            |
| 27.0                |                                                                                          |             |             |            |            | 0.45       |                                                                                          |             |             |            |            |            |                                                                                          |             |             |            |            |            |                                                                                            |             |             |            |            |            |                                                                                              |             |             |            |            |            |
| Critical boom angle | -                                                                                        | -           | -           | -          | -          | -          | -                                                                                        | -           | -           | -          | -          | 28         | -                                                                                        | -           | -           | -          | 28         | 40         | -                                                                                          | -           | -           | 39         | 48         | 56         | -                                                                                            | -           | 57          | 62         | 68         | 72         |
| Standard hook       | For 25t                                                                                  |             |             |            |            |            | For 25t                                                                                  |             |             |            |            |            | For 25t                                                                                  |             |             |            |            |            | For 25t                                                                                    |             |             |            |            |            | For 25t                                                                                      |             |             |            |            |            |
| Hook mass           | 220                                                                                      |             |             |            |            |            | 221                                                                                      |             |             |            |            |            | 222                                                                                      |             |             |            |            |            | 223                                                                                        |             |             |            |            |            | 220                                                                                          |             |             |            |            |            |
| Parts of line       | 7*, 6                                                                                    | 6           | 4           | 4          | 4          | 4          | 7*, 6                                                                                    | 6           | 4           | 4          | 4          | 4          | 6                                                                                        | 6           | 4           | 4          | 4          | 4          | 6                                                                                          | 6           | 4           | 4          | 4          | 4          | 6                                                                                            | 4           | 4           | 4          | 4          | 4          |

# Kato CR-250RV

## Lifting capacities cont.

Not exceed 75% of static tipping loads

### 29.0m Boom + 8.2m Jib

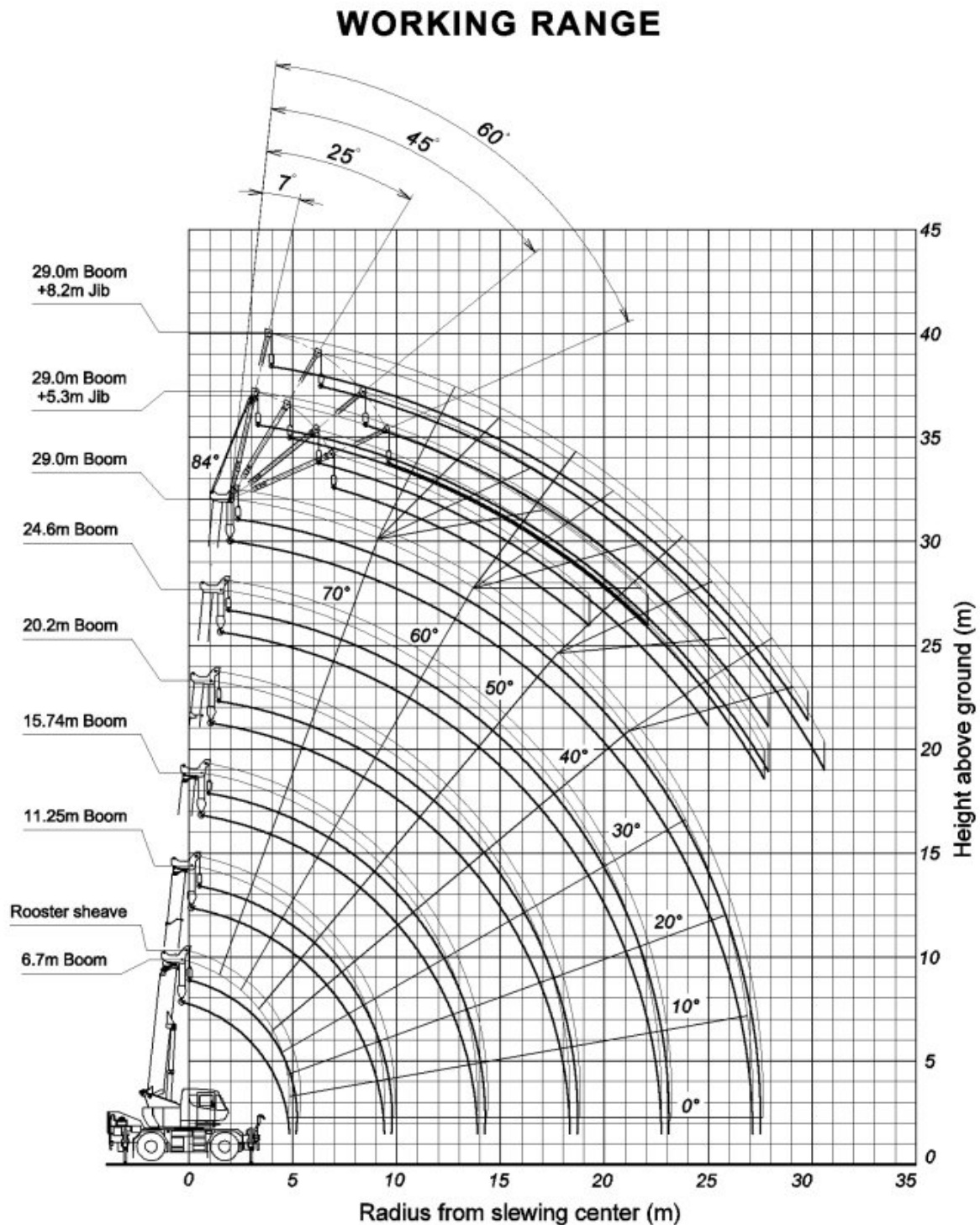
|                        |                                                                                          |               |                       |               |                       |               |                       |               |
|------------------------|------------------------------------------------------------------------------------------|---------------|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|
|                        |  (6.0m) |               |                       |               |                       |               |                       |               |
| Boom angle<br>(° )     | Outriggers fully extended (6.0m) 360° full range                                         |               |                       |               |                       |               |                       |               |
|                        | Offset 7°                                                                                |               | Offset 25°            |               | Offset 45°            |               | Offset 60°            |               |
|                        | Working<br>radius (m)                                                                    | Load<br>(ton) | Working<br>radius (m) | Load<br>(ton) | Working<br>radius (m) | Load<br>(ton) | Working<br>radius (m) | Load<br>(ton) |
| 84                     | 5.1                                                                                      | 2.30          | 7.5                   | 1.45          | 9.5                   | 0.90          | 10.5                  | 0.70          |
| 82                     | 6.5                                                                                      | 2.25          | 8.8                   | 1.40          | 10.7                  | 0.90          | 11.6                  | 0.70          |
| 79                     | 8.6                                                                                      | 2.15          | 10.7                  | 1.30          | 12.5                  | 0.90          | 13.3                  | 0.69          |
| 76                     | 10.7                                                                                     | 2.00          | 12.6                  | 1.25          | 14.2                  | 0.86          | 14.9                  | 0.68          |
| 73                     | 12.6                                                                                     | 1.85          | 14.4                  | 1.15          | 15.9                  | 0.84          | 16.5                  | 0.67          |
| 70                     | 14.5                                                                                     | 1.70          | 16.2                  | 1.10          | 17.6                  | 0.82          | 18.0                  | 0.66          |
| 67                     | 16.3                                                                                     | 1.55          | 17.9                  | 1.05          | 19.1                  | 0.81          | 19.4                  | 0.66          |
| 64                     | 18.0                                                                                     | 1.40          | 19.5                  | 0.97          | 20.6                  | 0.80          | 20.8                  | 0.66          |
| 61                     | 19.6                                                                                     | 1.25          | 21.1                  | 0.93          | 22.1                  | 0.80          | 22.1                  | 0.64          |
| 58                     | 21.2                                                                                     | 1.15          | 22.6                  | 0.91          | 23.4                  | 0.79          |                       |               |
| 55                     | 22.6                                                                                     | 1.00          | 24.1                  | 0.88          | 24.7                  | 0.79          |                       |               |
| 53                     | 23.5                                                                                     | 0.90          | 25.0                  | 0.83          | 25.5                  | 0.79          |                       |               |
| 50                     | 24.9                                                                                     | 0.74          | 26.2                  | 0.69          | 26.6                  | 0.69          |                       |               |
| 46                     | 26.6                                                                                     | 0.54          | 27.7                  | 0.51          | 27.9                  | 0.51          |                       |               |
| 45                     | 26.9                                                                                     | 0.49          | 28.0                  | 0.47          |                       |               |                       |               |
| 40                     | 28.8                                                                                     | 0.30          | 29.7                  | 0.30          |                       |               |                       |               |
| 37                     | 29.8                                                                                     | 0.21          | 30.6                  | 0.21          |                       |               |                       |               |
| 35                     |                                                                                          |               |                       |               |                       |               |                       |               |
| Critical<br>boom angle | 36                                                                                       |               | 36                    |               | 45                    |               | 60                    |               |
| Standard<br>hook       | For 4t                                                                                   |               |                       |               |                       |               |                       |               |
| Hook mass              | 60                                                                                       |               |                       |               |                       |               |                       |               |
| Parts of line          | 1                                                                                        |               |                       |               |                       |               |                       |               |

Not exceed 75% of static tipping loads

### 29.0m Boom + 5.3m Jib

|                        |                                                                                            |               |                       |               |                       |               |                       |               |
|------------------------|--------------------------------------------------------------------------------------------|---------------|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|
|                        |  (6.0m) |               |                       |               |                       |               |                       |               |
| Boom angle<br>(° )     | Outriggers fully extended (6.0m) 360° full range                                           |               |                       |               |                       |               |                       |               |
|                        | Offset 7°                                                                                  |               | Offset 25°            |               | Offset 45°            |               | Offset 60°            |               |
|                        | Working<br>radius (m)                                                                      | Load<br>(ton) | Working<br>radius (m) | Load<br>(ton) | Working<br>radius (m) | Load<br>(ton) | Working<br>radius (m) | Load<br>(ton) |
| 84                     | 4.2                                                                                        | 3.00          | 6.1                   | 3.00          | 7.3                   | 1.90          | 7.7                   | 1.25          |
| 82                     | 5.5                                                                                        | 3.00          | 7.4                   | 2.95          | 8.4                   | 1.90          | 8.8                   | 1.25          |
| 79                     | 7.5                                                                                        | 3.00          | 9.2                   | 2.65          | 10.1                  | 1.80          | 10.5                  | 1.25          |
| 76                     | 9.5                                                                                        | 3.00          | 11.0                  | 2.40          | 11.8                  | 1.70          | 12.1                  | 1.20          |
| 73                     | 11.3                                                                                       | 2.90          | 12.6                  | 2.15          | 13.4                  | 1.65          | 13.6                  | 1.20          |
| 70                     | 13.0                                                                                       | 2.55          | 14.2                  | 1.95          | 15                    | 1.60          | 15.1                  | 1.20          |
| 67                     | 14.7                                                                                       | 2.25          | 15.8                  | 1.80          | 16.5                  | 1.55          | 16.6                  | 1.20          |
| 64                     | 16.3                                                                                       | 2.05          | 17.3                  | 1.70          | 18                    | 1.50          | 17.9                  | 1.15          |
| 61                     | 17.8                                                                                       | 1.75          | 18.8                  | 1.55          | 19.3                  | 1.40          | 19.3                  | 1.15          |
| 58                     | 19.2                                                                                       | 1.45          | 20.1                  | 1.35          | 20.6                  | 1.30          |                       |               |
| 55                     | 20.5                                                                                       | 1.20          | 21.4                  | 1.10          | 21.8                  | 1.10          |                       |               |
| 53                     | 21.3                                                                                       | 1.05          | 22.2                  | 0.99          | 22.6                  | 0.99          |                       |               |
| 50                     | 22.6                                                                                       | 0.87          | 23.4                  | 0.82          | 23.7                  | 0.82          |                       |               |
| 46                     | 24.1                                                                                       | 0.64          | 24.9                  | 0.62          | 25                    | 0.62          |                       |               |
| 45                     | 24.5                                                                                       | 0.59          | 25.2                  | 0.58          |                       |               |                       |               |
| 40                     | 26.3                                                                                       | 0.37          | 26.8                  | 0.37          |                       |               |                       |               |
| 37                     | 27.30                                                                                      | 0.26          | 27.7                  | 0.26          |                       |               |                       |               |
| 35                     | 27.90                                                                                      | 0.20          |                       |               |                       |               |                       |               |
| Critical<br>boom angle | 34                                                                                         |               | 36                    |               | 45                    |               | 60                    |               |
| Standard<br>hook       | For 4t                                                                                     |               |                       |               |                       |               |                       |               |
| Hook mass              | 60                                                                                         |               |                       |               |                       |               |                       |               |
| Parts of line          | 1                                                                                          |               |                       |               |                       |               |                       |               |

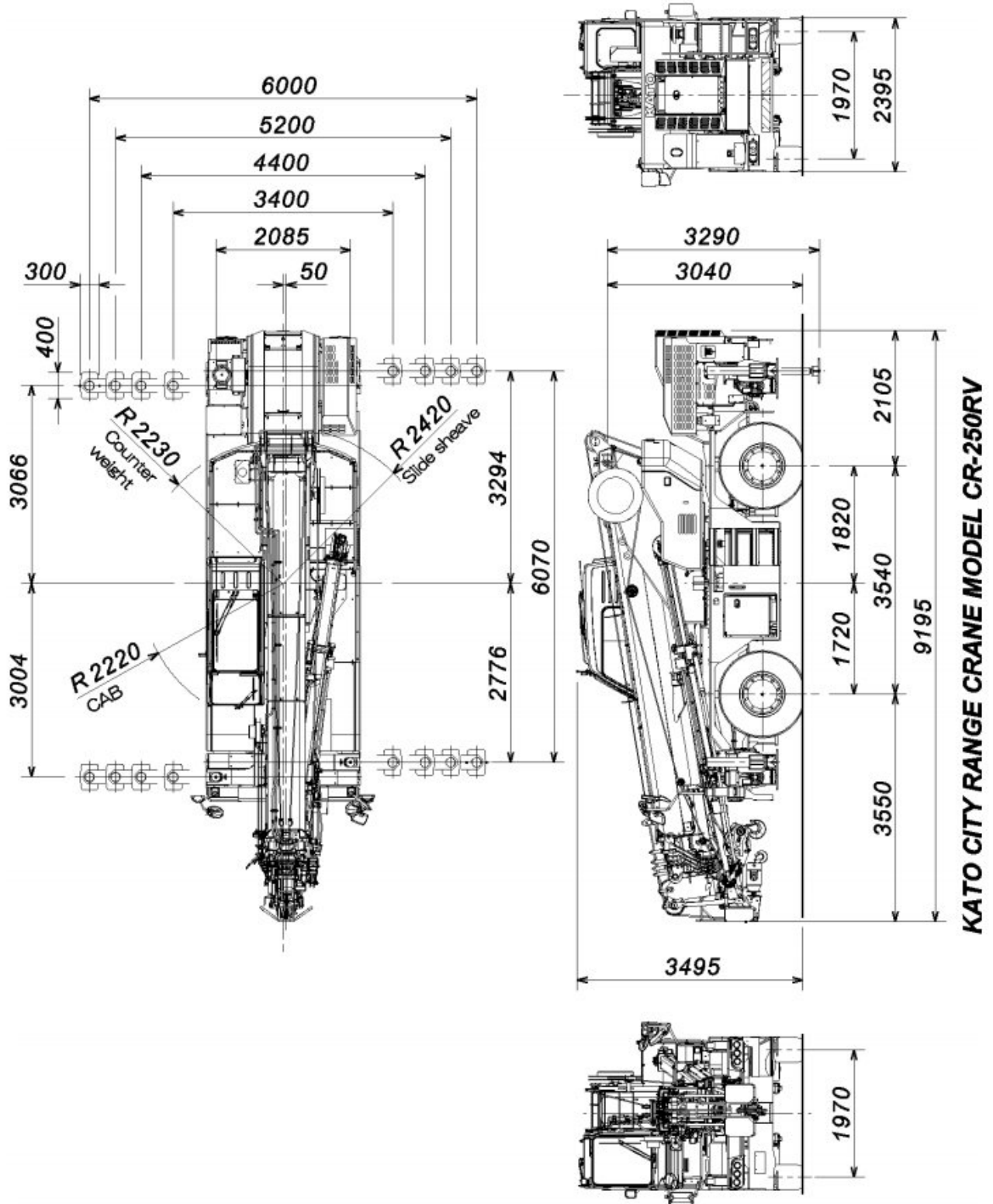
# Kato CR-250RV



Note: 1. This diagram does not include deflection of Boom and Jib.  
2. The outriggers are fully extended.



# Kato CR-250RV



*SOUTHERN CRANES & ACCESS*