

# MICHELIN®

## X-CRANE +

*LIFTING YOUR PRODUCTIVITY  
TO NEW HEIGHTS*



385/95 R 25 X-CRANE + TL 170E \*

385/95 R 25 X-CRANE + TL 170F \*

445/95 R 25 X-CRANE + TL 174F \*

525/80 R 25 X-CRANE + TL 176F \*



CRANES



**MICHELIN**

## LIFTING YOUR PRODUCTIVITY TO NEW HEIGHTS



CRANES



### ■ LOWER OPERATING COSTS

Wear life increased by up to 20% <sup>(2)</sup> thanks to a new, more resistant rubber compound in the tread



### ■ GREATER OPERATOR COMFORT AND RELIABILITY

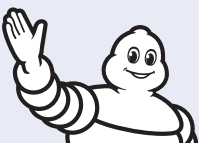
Improvement in irregular wear patterns so that the crane generates fewer vibrations thanks to a more rigid rubber compound in the tread <sup>(2)</sup>

Increased reliability due to better resistance of the cables, the C<sup>2</sup> Technology and a longer-lasting bead area <sup>(2)</sup>



### ■ LESS WASTE

More environmentally friendly because tires can be regrooved



<sup>(2)</sup> Comparison of the Michelin® X-CRANE® 445/95 R25 X Crane and the Michelin® X-CRANE + 445/95 R25 X Crane + field study in real life conditions made by Michelin April 2009 to Oct 2013 in Italy, France, Serbia, Dubai same size and usage.





## MICHELIN TECHNICAL DATA

| COMMERCIAL DESCRIPTION   | CAI MSPN      | Max. dist. / hour<br>km / mile | TKPH (1)<br>TMPH | e<br>mm / inch     | D<br>mm / inch      | R'<br>mm / inch    | RC<br>mm / inch    | Tread depth<br>mm 32rd | Dual Spacing<br>mm / inch | Cap<br>liter / gallon | Measuring Recommended Rim (1) | Other Approved Rims (1) |
|--|---------------|--------------------------------|------------------|--------------------|---------------------|--------------------|--------------------|------------------------|---------------------------|-----------------------|-------------------------------|-------------------------|
| <b>X-CRANE + 170E ●</b><br>385/95 R 25 X-CRANE + TL 170E Tubeless (16) | <b>060565</b> | <b>70</b><br>43.5              |                  | <b>391</b><br>15.4 | <b>1365</b><br>53.7 | <b>633</b><br>24.9 | <b>4165</b><br>164 | <b>23</b><br>29        |                           | <b>280</b><br>74      | 10.00/1.5                     |                         |
| <b>Bar</b>   | <b>6</b>      |                                | <b>6.5</b>       |                    | <b>7</b>            |                    | <b>7.5</b>         |                        | <b>8</b>                  |                       | <b>8.5</b>                    | <b>9</b>                |
| <b>Psi</b>   | 87            |                                | 94               |                    | 102                 |                    | 109                |                        | 116                       |                       | 123                           | 131                     |

| Machine - Use<br>(kg - lbs) | CRANES AND SIMILAR SPECIALIZED MACHINES |  |              |  |              |  |              |  |              |  |              |              |
|-----------------------------|---|--|--------------|--|--------------|--|--------------|--|--------------|--|--------------|--------------|
| <b>0 KM/H</b>               | <b>14350</b>                            |  | <b>15030</b> |  | <b>15700</b> |  | <b>16350</b> |  | <b>16970</b> |  | <b>17590</b> | <b>18180</b> |
| 0 MPH                       | 31642                                   |  | 33141        |  | 34619        |  | 36052        |  | 37419        |  | 38786        | 40087        |
| <b>2 KM/H CREEP</b>         | <b>11650</b>                            |  | <b>12200</b> |  | <b>12740</b> |  | <b>13270</b> |  | <b>13780</b> |  | <b>14280</b> | <b>14760</b> |
| 1.2 MPH CREEP               | 25688                                   |  | 26901        |  | 28092        |  | 29260        |  | 30385        |  | 31487        | 32546        |
| <b>5 KM/H</b>               | <b>10320</b>                            |  | <b>10810</b> |  | <b>11290</b> |  | <b>11760</b> |  | <b>12210</b> |  | <b>12650</b> | <b>13080</b> |
| 3 MPH                       | 22756                                   |  | 23836        |  | 24894        |  | 25931        |  | 26923        |  | 27893        | 28841        |
| <b>10 KM/H</b>              | <b>8950</b>                             |  | <b>9370</b>  |  | <b>9790</b>  |  | <b>10200</b> |  | <b>10580</b> |  | <b>10970</b> | <b>11340</b> |
| 6 MPH                       | 19735                                   |  | 20661        |  | 21587        |  | 22491        |  | 23329        |  | 24189        | 25005        |
| <b>30 KM/H</b>              | <b>6160</b>                             |  | <b>6450</b>  |  | <b>6730</b>  |  | <b>7010</b>  |  | <b>7280</b>  |  | <b>7550</b>  | <b>7800</b>  |
| 19 MPH                      | 13583                                   |  | 14222        |  | 14840        |  | 15457        |  | 16052        |  | 16648        | 17199        |
| <b>40 KM/H</b>              | <b>5870</b>                             |  | <b>6150</b>  |  | <b>6420</b>  |  | <b>6690</b>  |  | <b>6940</b>  |  | <b>7200</b>  | <b>7440</b>  |
| 25 MPH                      | 12943                                   |  | 13561        |  | 14156        |  | 14751        |  | 15303        |  | 15876        | 16405        |
| <b>45 KM/H</b>              | <b>5730</b>                             |  | <b>6000</b>  |  | <b>6270</b>  |  | <b>6530</b>  |  | <b>6780</b>  |  | <b>7020</b>  | <b>7260</b>  |
| 28 MPH                      | 12635                                   |  | 13230        |  | 13825        |  | 14399        |  | 14950        |  | 15479        | 16008        |
| <b>50 KM/H</b>              | <b>5590</b>                             |  | <b>5850</b>  |  | <b>6110</b>  |  | <b>6370</b>  |  | <b>6610</b>  |  | <b>6850</b>  | <b>7080</b>  |
| 31 MPH                      | 12326                                   |  | 12899        |  | 13473        |  | 14046        |  | 14575        |  | 15104        | 15611        |
| <b>60 KM/H</b>              | <b>5300</b>                             |  | <b>5560</b>  |  | <b>5800</b>  |  | <b>6040</b>  |  | <b>6270</b>  |  | <b>6500</b>  | <b>6720</b>  |
| 37 MPH                      | 11687                                   |  | 12260        |  | 12789        |  | 13318        |  | 13825        |  | 14333        | 14818        |
| <b>70 KM/H</b>              | <b>4735</b>                             |  | <b>4960</b>  |  | <b>5180</b>  |  | <b>5395</b>  |  | <b>5600</b>  |  | <b>5805</b>  | <b>6000</b>  |
| 43 MPH                      | 10441                                   |  | 10937        |  | 11422        |  | 11896        |  | 12348        |  | 12800        | 13230        |
| <b>80 KM/H</b>              | <b>3885</b>                             |  | <b>4065</b>  |  | <b>4250</b>  |  | <b>4425</b>  |  | <b>4590</b>  |  | <b>4760</b>  | <b>4920</b>  |
| 50 MPH                      | 8566                                    |  | 8963         |  | 9371         |  | 9757         |  | 10121        |  | 10496        | 10849        |
| <b>90 KM/H</b>              | <b>3315</b>                             |  | <b>3470</b>  |  | <b>3625</b>  |  | <b>3775</b>  |  | <b>3920</b>  |  | <b>4065</b>  | <b>4200</b>  |
| 56 MPH                      | 7310                                    |  | 7651         |  | 7993         |  | 8324         |  | 8644         |  | 8963         | 9261         |
| <b>100 KM/H</b>             | <b>2840</b>                             |  | <b>2975</b>  |  | <b>3110</b>  |  | <b>3235</b>  |  | <b>3360</b>  |  | <b>3485</b>  | <b>3600</b>  |
| 62 MPH                      | 6262                                    |  | 6560         |  | 6858         |  | 7133         |  | 7409         |  | 7684         | 7938         |

|   |                        |                   |          |                  |                     |                    |                    |                 |          |                  |             |                        |          |
|---|------------------------|-------------------|----------|------------------|---------------------|--------------------|--------------------|-----------------|----------|------------------|-------------|------------------------|----------|
| <b>X-CRANE + 170F ●</b><br>385/95 R 25 Tubeless | <b>682834</b><br>32768 | <b>80</b><br>49.7 |          | <b>380</b><br>15 | <b>1365</b><br>53.7 | <b>633</b><br>24.9 | <b>4165</b><br>164 | <b>23</b><br>29 |          | <b>280</b><br>74 | 9.50/1.7 CR | 10.00/1.5<br>11.25/1.3 |          |
| <b>Bar</b>                                      | <b>5</b>               | <b>6</b>          | <b>7</b> | <b>8</b>         | <b>9</b>            |                    |                    |                 | <b>5</b> | <b>6</b>         | <b>7</b>    | <b>8</b>               | <b>9</b> |
| <b>Psi</b>                                      | 73                     | 87                | 102      | 116              | 131                 |                    |                    |                 | 73       | 87               | 102         | 116                    | 131      |

| Machine - Use<br>(kg - lbs) | CRANES AND SIMILAR SPECIALIZED MACHINES |             |             |             |             |
|-----------------------------|---|-------------|-------------|-------------|-------------|
| <b>30 KM/H</b>              | <b>4750</b>                             | <b>5440</b> | <b>6125</b> | <b>6815</b> | <b>7500</b> |
| 19 MPH                      | 10474                                   | 11995       | 13506       | 15027       | 16538       |
| <b>40 KM/H</b>              | <b>4370</b>                             | <b>5005</b> | <b>5635</b> | <b>6270</b> | <b>6900</b> |
| 25 MPH                      | 9636                                    | 11036       | 12425       | 13825       | 15215       |
| <b>50 KM/H</b>              | <b>4255</b>                             | <b>4870</b> | <b>5490</b> | <b>6105</b> | <b>6720</b> |
| 31 MPH                      | 9382                                    | 10738       | 12105       | 13462       | 14818       |
| <b>60 KM/H</b>              | <b>4180</b>                             | <b>4785</b> | <b>5390</b> | <b>5995</b> | <b>6600</b> |
| 37 MPH                      | 9217                                    | 10551       | 11885       | 13219       | 14553       |
| <b>65 KM/H</b>              | <b>4085</b>                             | <b>4575</b> | <b>5270</b> | <b>5860</b> | <b>6450</b> |
| 40 MPH                      | 9007                                    | 10088       | 11620       | 12921       | 14222       |

| Machine - Use<br>(kg - lbs) | CRANES AND SIMILAR SPECIALIZED MACHINES |             |             |             |             |
|-----------------------------|---|-------------|-------------|-------------|-------------|
| <b>70 KM/H</b>              | <b>3990</b>                             | <b>4570</b> | <b>5145</b> | <b>5725</b> | <b>6300</b> |
| 43 MPH                      | 8798                                    | 10077       | 11345       | 12624       | 13892       |
| <b>80 KM/H</b>              | <b>3800</b>                             | <b>4350</b> | <b>4900</b> | <b>5450</b> | <b>6000</b> |
| 50 MPH                      | 8379                                    | 9592        | 10805       | 12017       | 13230       |
| <b>90 KM/H</b>              | <b>3570</b>                             | <b>4090</b> | <b>4605</b> | <b>5120</b> | <b>5640</b> |
| 56 MPH                      | 7872                                    | 9018        | 10154       | 11290       | 12436       |
| <b>100 KM/H</b>             | <b>3230</b>                             | <b>3700</b> | <b>4165</b> | <b>4630</b> | <b>5100</b> |
| 62 MPH                      | 7122                                    | 8159        | 9184        | 10209       | 11246       |

## MICHELIN TECHNICAL DATA

| COMMERCIAL DESCRIPTION                   | CAI MSPN        | Max. dist. / hour<br>km mile | TKPH (1)<br>TMPH | e<br>mm inch | D<br>mm inch | R'<br>mm inch | RC<br>mm inch | Tread depth<br>mm 32rd | Dual Spacing<br>mm inch | Cap<br>liter gallon | Measuring Recommended Rim (1) | Other Approved Rims (1)  |
|--|-----------------|------------------------------|------------------|--------------|--------------|---------------|---------------|------------------------|-------------------------|---------------------|-------------------------------|--------------------------|
| X-CRANE + 174F ●<br>445/95 R 25 Tubeless | 738428<br>30097 | 80<br>49.7                   |                  | 442<br>17.4  | 1485<br>58.5 | 693<br>27.3   | 4542<br>178.8 | 25<br>31.5             |                         | 380<br>100.4        | 11.00/1.7 CR                  | 11.25/2<br>DC 635x280 CR |

|     |    |    |     |     |     |  |  |  |  |    |    |     |     |     |
|-----|----|----|-----|-----|-----|--|--|--|--|----|----|-----|-----|-----|
| Bar | 5  | 6  | 7   | 8   | 9   |  |  |  |  | 5  | 6  | 7   | 8   | 9   |
| Psi | 73 | 87 | 102 | 116 | 131 |  |  |  |  | 73 | 87 | 102 | 116 | 131 |

| Machine - Use<br>(kg - lbs) | CRANES AND SIMILAR SPECIALIZED MACHINES |       |       |       |       |
|-----------------------------|---|-------|-------|-------|-------|
| 30 KM/H                     | 5340                                    | 6095  | 6850  | 7615  | 8375  |
| 19 MPH                      | 11775                                   | 13439 | 15104 | 16791 | 18467 |
| 40 KM/H                     | 4910                                    | 5605  | 6300" | 7005  | 7705  |
| 25 MPH                      | 10827                                   | 12359 | 13892 | 15446 | 16990 |
| 50 KM/H                     | 4780                                    | 5460  | 6140  | 6820  | 7505  |
| 31 MPH                      | 10540                                   | 12039 | 13539 | 15038 | 16549 |
| 65 KM/H                     | 4590                                    | 5240  | 5890  | 6545  | 7205  |
| 40 MPH                      | 10121                                   | 11554 | 12987 | 14432 | 15887 |

| Machine - Use<br>(kg - lbs) | CRANES AND SIMILAR SPECIALIZED MACHINES |       |        |       |       |
|-----------------------------|---|-------|--------|-------|-------|
| 70 KM/H                     | 4485                                    | 5120  | 57550" | 6395  | 7035  |
| 43 MPH                      | 9889                                    | 11290 | 12690  | 14101 | 15512 |
| 80 KM/H                     | 4270                                    | 4875  | 5480   | 6090  | 6700  |
| 50 MPH                      | 9415                                    | 10749 | 12083  | 13428 | 14774 |
| 90 KM/H                     | 4015                                    | 4580  | 5150   | 5725  | 6300  |
| 56 MPH                      | 8853                                    | 10099 | 11356  | 12624 | 13892 |
| 100 KM/H                    | 3775                                    | 4305  | 4840   | 5380  | 5920  |
| 62 MPH                      | 8324                                    | 9493  | 10672  | 11863 | 13054 |

|  |                 |            |  |             |              |             |               |            |  |              |              |           |
|--|-----------------|------------|--|-------------|--------------|-------------|---------------|------------|--|--------------|--------------|-----------|
| X-CRANE + 176F ●<br>525/80 R 25 Tubeless | 086926<br>33880 | 80<br>49.7 |  | 528<br>20.8 | 1482<br>58.3 | 682<br>26.9 | 4508<br>177.5 | 28<br>35.3 |  | 500<br>132.1 | 17.00/1.7 CR | 17.00/2.0 |
|--|-----------------|------------|--|-------------|--------------|-------------|---------------|------------|--|--------------|--------------|-----------|

|     |    |    |     |  |  |  |  |  |  |    |    |     |
|-----|----|----|-----|--|--|--|--|--|--|----|----|-----|
| Bar | 5  | 6  | 7   |  |  |  |  |  |  | 5  | 6  | 7   |
| Psi | 73 | 87 | 102 |  |  |  |  |  |  | 73 | 87 | 102 |

| Machine - Use<br>(kg - lbs) | CRANES AND SIMILAR SPECIALIZED MACHINES |       |       |
|-----------------------------|---|-------|-------|
| 30 KM/H                     | 6700"                                   | 7700  | 8900  |
| 19 MPH                      | 14774                                   | 16979 | 19625 |
| 40 KM/H                     | 6150                                    | 7100  | 8200  |
| 25 MPH                      | 13561                                   | 15656 | 18081 |
| 50 KM/H                     | 6000                                    | 6900  | 8000  |
| 31 MPH                      | 13230                                   | 15215 | 17640 |
| 60 KM/H                     | 5900                                    | 6800  | 7850  |
| 37 MPH                      | 13010                                   | 14994 | 17309 |
| 65 KM/H                     | 5750                                    | 6650  | 7650  |
| 40 MPH                      | 12679                                   | 14663 | 16868 |

| Machine - Use<br>(kg - lbs) | CRANES AND SIMILAR SPECIALIZED MACHINES |       |       |
|-----------------------------|---|-------|-------|
| 70 KM/H                     | 5650                                    | 6500  | 7500  |
| 43 MPH                      | 12458                                   | 14333 | 16538 |
| 80 KM/H                     | 5350                                    | 6150  | 7100  |
| 50 MPH                      | 11797                                   | 13561 | 15656 |
| 90 KM/H                     | 5050                                    | 5800  | 6700  |
| 56 MPH                      | 11135                                   | 12789 | 14774 |
| 100 KM/H                    | 4550                                    | 5250  | 6050  |
| 62 MPH                      | 10033                                   | 11576 | 13340 |

(1) More informations in the Michelin Databook 2019.

● Tyres are made from different types of materials that have the properties which are essential for the tyre to perform properly. These properties may change over time. These changes depend on numerous factors such as the storage conditions, usage and, in particular, the load, speed, tyre pressure, maintenance, weather conditions etc. to which the tyre is subjected throughout its useful life. These factors impact a tyre's service life. The design of Michelin tyres is intended to deliver long lasting performance and ensure that the machine remains operational for the longest possible periods. If we take a look at the conditions of use of mobile cranes, we see a reduction in the average distance travelled every year. As a result, the tyres stay fitted to the cranes for a longer period of time. Accordingly, Michelin recommends that the service life of mobile crane tyres be limited to a maximum of 10 years.



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