

# Vibratory Roller XS125/XS125PD XS165/XS165PD



EU STAGE V/TIER 4F



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# Technical Specification

| Item                   | Content                               | XS125<br>(Smooth drum)                          | XS125PD<br>(Welded padfoot drum)                | XS125PD<br>(Assembled padfoot drum)             |
|------------------------|---------------------------------------|---|---|---|
| Weights                | Maximum operating mass                | 27337 lb  | 29216 lb  | 30358 lb  |
|                        | Operating mass                        | 26455 lb  | 28329 lb  | 29476 lb  |
|                        | Front axle weight                     | 16094 lb  | 17968 lb  | 19312 lb  |
|                        | Rear axle weight                      | 10362 lb  | 10362 lb  | 10362 lb  |
|                        | Static linear load                    | 336N/cm   | /   | /   |
| Maneuverability        | Operating speed                       | 0-6.84mile/h                                    | 0-7.36mile/h                                    | 0-7.36mile/h                                    |
|                        | Theoretical climbing ability          | 60%   | 45%   | 45%   |
|                        | Minimum turning radius (inner)        | 148in   | 148in   | 148in   |
|                        | Minimum ground clearance              | 16in  | 20in  | 20in  |
|                        | Wheel base                            | 120in   | 120in   | 120in   |
|                        | Steering angle                        | 35°   | 35°   | 35°   |
|                        | Oscillation angle                     | 10°   | 10°   | 10°   |
| Compaction Performance | Braking distance                      | 153.5in   | 153.5in   | 153.5in   |
|                        | Vibration frequency                   | 30/35Hz   | 30/35Hz   | 30/35Hz   |
|                        | Nominal amplitude                     | 0.08/0.04in                                     | 0.06/0.03in                                     | 0.06/0.03in                                     |
|                        | Excitation force (High/low frequency) | 57/41kip  | 57/41kip  | 57/41kip  |
|                        | Drum diameter                         | 60in  | 68in  | 68in  |
| Engine                 | Drum width                            | 84in  | 84in  | 84in  |
|                        | Model                                 | F3.8  | F3.8  | F3.8  |
|                        | Type                                  | Turbocharged water cooling and electric control | Turbocharged water cooling and electric control | Turbocharged water cooling and electric control |
|                        | Rated power                           | 154HP   | 154HP   | 154HP   |
| Tire                   | Rated speed                           | 2200r/min                                       | 2200r/min                                       | 2200r/min                                       |
|                        | Specification                         | 23.1-26-12G23TL                                 | 23.1-26-12R1TL                                  | 23.1-26-12R1TL                                  |
|                        | Tier                                  | 12PR  | 12PR  | 12PR  |
| Air pressure           |                                       | 2bar  | 1.7bar  | 1.7bar  |

| Item                   | Content                               | XS165<br>(Smooth drum)     | XS165PD<br>(Welded padfoot drum) | XS165PD<br>(Assembled padfoot drum) |
|------------------------|---------------------------------------|----------------------------|----------------------------------|-------------------------------------|
| Weights                | Maximum operating mass                | 35273.96 lb                | 37147.89 lb                      | 37147.89 lb                         |
|                        | Operating mass                        | 35273.96 lb                | 37147.89 lb                      | 37147.89 lb                         |
|                        | Front axle weight                     | 23809.92 lb                | 26124.78 lb                      | 26124.78 lb                         |
|                        | Rear axle weight                      | 11464.04 lb                | 11464.04 lb                      | 11464.04 lb                         |
|                        | Static linear load                    | 50.7N/cm                   | /                                | /                                   |
| Maneuverability        | Operating speed                       | 0-6.84mile/h               | 0-7.36mile/h                     | 0-7.36mile/h                        |
|                        | Theoretical climbing ability          | 60%                        | 45%                              | 45%                                 |
|                        | Minimum turning radius (inner)        | 166.14in                   | 166.14in                         | 166.14in                            |
|                        | Minimum ground clearance              | 18.39in                    | 22.32in                          | 22.32in                             |
|                        | Wheel base                            | 120in                      | 120in                            | 120in                               |
|                        | Steering angle                        | 35°                        | 35°                              | 35°                                 |
|                        | Oscillation angle                     | 10°                        | 10°                              | 10°                                 |
| Compaction Performance | Braking distance                      | 153.5in                    | 153.5in                          | 153.5in                             |
|                        | Vibration frequency                   | 28/33Hz                    | 28/33Hz                          | 28/33Hz                             |
|                        | Nominal amplitude                     | 0.078/0.04in               | 0.063/0.031in                    | 0.063/0.031in                       |
|                        | Excitation force (High/low frequency) | 76.435/53.055kip           | 76.435/53.055kip                 | 76.435/53.055kip                    |
|                        | Drum diameter                         | 59.96in                    | 68in                             | 68in                                |
| Engine                 | Drum width                            | 83.86in                    | 84in                             | 84in                                |
|                        | Model                                 | Cummins B4.5               | Cummins B4.5                     | Cummins B4.5                        |
|                        | Type                                  | Turbocharged water cooling | Turbocharged water cooling       | Turbocharged water cooling          |
|                        | Rated power                           | 173HP                      | 173HP                            | 173HP                               |
| Tire                   | Rated speed                           | 2200r/min                  | 2200r/min                        | 2200r/min                           |
|                        | Specification                         | 23.1-26-12G23TL            | 23.1-26-12R1TL                   | 23.1-26-12R1TL                      |
|                        | Tier                                  | 12PR                       | 12PR                             | 12PR                                |
| Air pressure           |                                       | 2bar                       | 1.7bar                           | 1.7bar                              |

# Overall dimension



| Dimensions (in) | L   | L1       | W  | W1 | H   | H1 | H2 | S   | D  |
|-----------------|-----|----------|----|----|-----|----|----|-----|----|
| XS125           | 236 | 120      | 91 | 84 | 118 | 93 | 16 | 1   | 60 |
| XS125PD         | 236 | 120      | 91 | 84 | 124 | 97 | 21 | 1   | 68 |
| XS165           | 237 | 120/3060 | 91 | 84 | 120 | 95 | 16 | 1.2 | 60 |
| XS165PD         | 237 | 120/3060 | 91 | 84 | 124 | 99 | 21 | 1.2 | 68 |