

Technical data

# HD+ 90i PH VO-S



## Tandem rollers Series HD+

Tandem roller with vibration and oscillation drum

H276

### HIGHLIGHTS

- > Hydraulic hybrid drive
- > Compaction with oscillation
- > Electronic machine management Hammtronic
- > Excellent view of machine and construction site
- > Operating concept Easy Drive

**TECHNICAL DATA HD+ 90i PH VO-S (H276)**

**Weights**

|                                    |                 |                          |
|------------------------------------|-----------------|--------------------------|
| Operating weight with cab          | kg<br>lbs       | 9460<br>20,859           |
| Operating weight with ROPS         | kg<br>lbs       | 9290<br>20,484           |
| Max. operating weight              | kg<br>lbs       | 12000<br>26,460          |
| Static linear load, front/rear     | kg/cm<br>lbs/in | 29,3/27,1<br>164.1/151.8 |
| French classification, value/class |                 | 22,9/VT1                 |

**Machine dimensions**

|                            |          |                      |
|----------------------------|----------|----------------------|
| Total length               | mm<br>in | 4800<br>189.0        |
| Total height with cab      | mm<br>in | 2980<br>117.3        |
| Height loading, min.       | mm<br>in | 2150<br>84.6         |
| Center distance            | mm<br>in | 3600<br>141.7        |
| Total width with cab       | mm<br>in | 1800<br>70.9         |
| Maximum working width      | mm<br>in | 1850<br>72.8         |
| Curb clearance, left/right | mm<br>in | 800/800<br>31.5/31.5 |
| Turning radius, inside     | mm<br>in | 5900<br>232.3        |

**Drum dimensions**

|                            |          |                        |
|----------------------------|----------|------------------------|
| Drum width, front/rear     | mm<br>in | 1680/1680<br>66.1/66.1 |
| Drum diameter, front/rear  | mm<br>in | 1200/1200<br>47.2/47.2 |
| Drum thickness, front/rear | mm<br>in | 17/20<br>0.7/0.8       |
| Drum type, front           |          | Smooth/split           |
| Drum type, rear            |          | Smooth/non-split       |
| Track offset, left/right   | mm<br>in | 170<br>6.7             |

**Diesel engine**

|                             |  |                         |
|-----------------------------|--|-------------------------|
| Manufacturer                |  | DEUTZ                   |
| Model                       |  | TCD 2.9 L4              |
| Cylinders, quantity         |  | 4                       |
| Power ISO 14396, kW/PS/rpm  |  | 55,4/75,3/2300          |
| Power SAE J1349, kW/HP/rpm  |  | 55,4/74,2/2300          |
| Exhaust emission standard   |  | EU Stage V / EPA Tier 4 |
| Exhaust gas after-treatment |  | DOC-DPF                 |

**Travel drive**

|                                 |             |                   |
|---------------------------------|-------------|-------------------|
| Speed, working gear             | km/h<br>mph | 0-6,0<br>0.0-3.7  |
| Speed, transport gear           | km/h<br>mph | 0-12,0<br>0.0-7.5 |
| Regulation, infinitely variable |             | HAMMTRONIC        |

**Travel drive**

|                                      |   |  |
|--------------------------------------|---|--|
| Gradeability, with/without vibration | % |  |
|--------------------------------------|---|--|

**Vibration**

|  |           |                        |
|--|-----------|------------------------|
| Vibration frequency, front, level I/II | Hz<br>vpm | 42/50<br>2,520/3,000   |
| Amplitude, front, level I/II           | mm<br>in  | 0,61/0,40<br>.024/.016 |
| Centrifugal force, front, level I/II   | kN<br>lbs | 84/78<br>18,900/17,550 |

**Oscillation**

|                             |           |               |
|-----------------------------|-----------|---------------|
| Oscillation force, rear     | kN<br>lbs | 128<br>28,800 |
| Oscillation frequency, rear | Hz<br>vpm | 39<br>2,340   |
| Tangential amplitude, rear  | mm<br>in  | 1,25<br>.049  |

**Steering**

|                    |   |                      |
|--------------------|---|----------------------|
| Pendulum angle +/- | ° | 10                   |
| Steering, type     |   | Articulated steering |

**Water-sprinkling system**

|                        |  |          |
|------------------------|--|----------|
| Water sprinkling, type |  | Pressure |
|------------------------|--|----------|

**Tank capacity/filling capacity**

|                      |          |              |
|----------------------|----------|--------------|
| Fuel tank, capacity  | L<br>Gal | 173<br>45.7  |
| Water tank, capacity | L<br>Gal | 760<br>200.8 |

**Sound level**

|   |       |     |
|---|-------|-----|
| Sound power level L(WA), guaranteed                 | db(A) | 106 |
| Sound power level L(WA), representative measurement | db(A) | 102 |

**EQUIPMENT**

12 V power socket | Two large exterior rear-view mirrors | Scrapers foldable | Dashboard with displays, indicator lights and function keys | Easy Drive operating concept | Electric-powered cooling fan | Pressure water sprinkling system | ECO mode | Driver's platform with access from both sides | Speed-controlled water sprinkling | Speed preselect | Automatic traction control and anti-slip control | Vibration-isolated driver's platform | Track offset, hydraulic | Water-sprinkling system with spray bars front and rear | Water filter system (3-fold) | Water tank front and rear, can be filled from both sides | Central water outlet | Additional hydraulic performance support up to 20 kW

**OPTIONAL EQUIPMENT**

Heating and air-conditioning system | Tachograph | Process data interface for third-party provider systems, asphalt construction | Dashboard cover, lockable | Edge pressing and cutting equipment | HAMM Compaction Meter (HCM) | Automatic engine stop | HAMM Temperature Meter (HTM) | Track offset display | Back-up alarm | Telematics system | Working spotlights