

TORION 1914 / 1812.

With agricultural kinematics, implement carrier with quick-attachment system and earthmoving bucket¹.

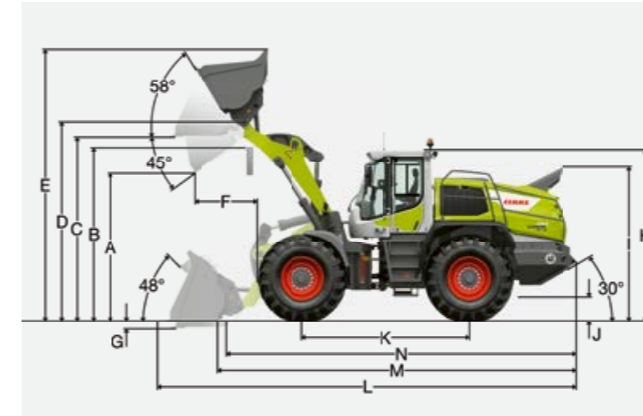
| | TORION 1914 | | TORION 1812 | |
|--|----------------|----------------|-------------|----------------|
| | STD | HL | STD | HL |
| Cutting tool | USM | USM | USM | USM |
| Mast length | mm | 2600 | 3000 | 2600 |
| Bucket capacity according to ISO 7546 ² | m ³ | 3.30 | 3.00 | 3.00 |
| Bucket width | mm | 2700 | 2700 | 2700 |
| Dumping height at max. lift height and 45° dumping angle (A) | mm | 2850 | 3460 | 2880 |
| Bucket clearance height (B) | mm | 3500 | 4100 | 3500 |
| Max. height to bucket base (C) | mm | 3795 | 4360 | 3795 |
| Max. height to bucket pivot (D) | mm | 4075 | 4640 | 4075 |
| Max. height to bucket top (E) | mm | 5620 | 6160 | 5580 |
| Reach at max. lift height and 45° dumping angle (F) | mm | 1174 | 1015 | 1135 |
| Digging depth (G) | mm | 80 | 80 | 80 |
| Height above cab (H) | mm | 3370 | 3370 | 3370 |
| Height above exhaust (I) | mm | 3020 | 3020 | 3020 |
| Ground clearance (J) | mm | 490 | 490 | 490 |
| Wheelbase (K) | mm | 3395 | 3395 | 3395 |
| Overall length (L) | mm | 8605 | 9080 | 8550 |
| Overall length to outer edge of implement carrier (M) | mm | 7330 | 7850 | 7330 |
| Overall length to bucket pivot point (N) | mm | 7149 | 7670 | 7149 |
| Turning radius over bucket outside edge | mm | 6650 | 6885 | 6630 |
| Breakaway power (SAE) | kN | 130 | 125 | 125 |
| Straight tipping load ³ | kg | 14400 | 11800 | 12800 |
| Articulated tipping load ³ | kg | 12400 | 10100 | 11100 |
| Operating weight ³ | kg | 19500 | 19750 | 18700 |
| Tyre size | | 23.5 R 25 (L3) | | 23.5 R 25 (L3) |

¹ Earthmoving bucket with short straight base for quick attachment.

² The bucket capacity can be approx. 10% greater in practice than as calculated according to ISO 7546. Bucket filling level depends on the material.

³ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).

STD = standard mast length, HL = high-lift mast, USM = grader blade



TORION 1914 / 1812.

With Z-kinematics, implement carrier with quick change and earthmoving bucket¹.

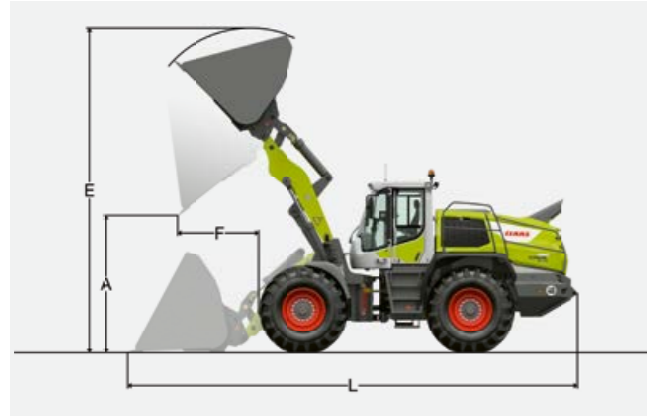
| | TORION 1914 | | TORION 1812 | |
|--|----------------|----------------|-------------|----------------|
| | Cutting tool | | USM | |
| Mast length | mm | 2600 | | 2600 |
| Bucket capacity according to ISO 7546 ² | m ³ | 4.00 | | 3.60 |
| Bucket width | mm | 2700 | | 2700 |
| Dumping height at max. lift height and 45° dumping angle (A) | mm | 2740 | | 2810 |
| Bucket clearance height (B) | mm | 3500 | | 3500 |
| Max. height to bucket base (C) | mm | 3645 | | 3645 |
| Max. height to bucket pivot (D) | mm | 3915 | | 3915 |
| Max. height to bucket top (E) | mm | 5775 | | 5695 |
| Reach at max. lift height and 45° dumping angle (F) | mm | 1250 | | 1170 |
| Digging depth (G) | mm | 85 | | 85 |
| Height above cab (H) | mm | 3370 | | 3370 |
| Height above exhaust (I) | mm | 3020 | | 3020 |
| Ground clearance (J) | mm | 490 | | 490 |
| Wheelbase (K) | mm | 3395 | | 3395 |
| Overall length (L) | mm | 8580 | | 8480 |
| Overall length to outer edge of implement carrier (M) | mm | 7300 | | 7300 |
| Overall length to bucket pivot point (N) | mm | 7158 | | 7158 |
| Turning radius over bucket outside edge | mm | 6635 | | 6610 |
| Breakaway power (SAE) | kN | 140 | | 130 |
| Straight tipping load ³ | kg | 15550 | | 13800 |
| Articulated tipping load ³ | kg | 13500 | | 12000 |
| Operating weight ³ | kg | 18500 | | 17800 |
| Tyre size | | 23.5 R 25 (L3) | | 23.5 R 25 (L3) |

¹ Earthmoving bucket with short straight base for quick attachment.

² The bucket capacity can be approx. 10% greater in practice than as calculated according to ISO 7546. Bucket filling level depends on the material.

³ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).

USM = grader blade

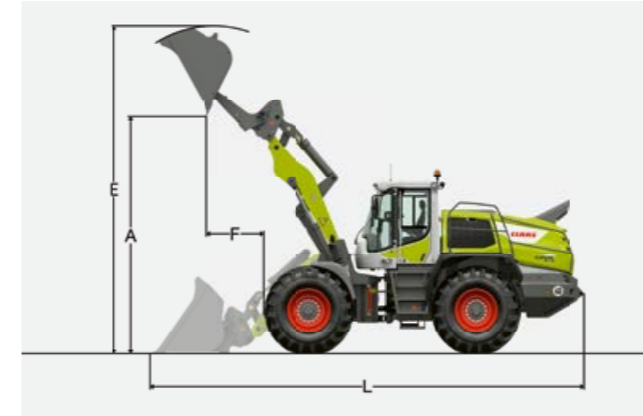


TORION 1914 / 1812.

With agricultural kinematics, implement carrier with quick-attachment system and light material bucket.

| High bulk material density (1 t/m ³) | TORION 1914 | | TORION 1812 | |
|--|---------------------|-------|----------------|-------|
| | STD | HL | STD | HL |
| Cutting tool | USM | USM | USM | USM |
| Bucket capacity | m ³ 5.50 | 5.00 | 5.00 | 4.50 |
| Bucket width | mm 2950 | 2950 | 2950 | 2950 |
| Dumping height at max. lift height (A) | mm 2450 | 3130 | 2550 | 3220 |
| Max. height to over bucket top (E) | mm 6060 | 6480 | 5900 | 6320 |
| Reach at max. lift height (F) | mm 1550 | 1330 | 1450 | 1250 |
| Overall length (L) | mm 8900 | 9280 | 8770 | 9170 |
| Straight tipping load ¹ | kg 13200 | 11100 | 11900 | 9800 |
| Fully articulated tipping load ¹ | kg 11300 | 9400 | 10200 | 8300 |
| Operating weight ¹ | kg 20100 | 20300 | 19200 | 19400 |
| Tyre size | 23.5 R 25 (L3) | | 23.5 R 25 (L3) | |

¹ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).
STD = standard mast length, HL = high-lift mast, USM = grader blade

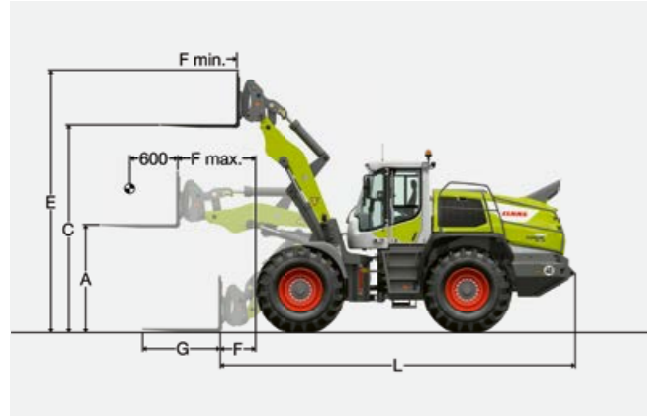


TORION 1914 / 1812.

With agricultural kinematics, implement carrier with quick-attachment system and high-tip bucket.

| High bulk material density (1 t/m ³) | TORION 1914 | | TORION 1812 | |
|--|---------------------|-------|----------------|-------|
| | STD | HL | STD | HL |
| Cutting tool | USM | USM | USM | USM |
| Bucket capacity | m ³ 5.00 | 4.50 | 4.50 | 4.00 |
| Bucket width | mm 2700 | 2700 | 2700 | 2700 |
| Dumping height at max. lift height (A) | mm 4590 | 5160 | 4550 | 5040 |
| Max. height to over bucket top (E) | mm 6850 | 7300 | 6680 | 7120 |
| Reach at max. lift height (F) | mm 1820 | 1650 | 1790 | 1560 |
| Overall length (L) | mm 9120 | 9550 | 9000 | 9410 |
| Straight tipping load ¹ | kg 12900 | 10500 | 11400 | 9200 |
| Fully articulated tipping load ¹ | kg 10900 | 8900 | 9700 | 7700 |
| Operating weight ¹ | kg 20600 | 20800 | 19700 | 19900 |
| Tyre size | 23.5 R 25 (L3) | | 23.5 R 25 (L3) | |

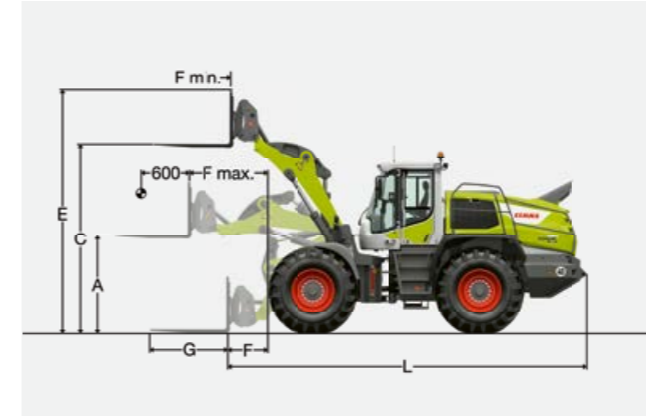
¹ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).
STD = standard mast length, HL = high-lift mast, USM = grader blade



TORION 1914 / 1812.

With agricultural kinematics, implement carrier with quick-attachment system and pallet fork.

| FEM IV pallet fork | | TORION 1914 | TORION 1812 |
|--|----|----------------|----------------|
| Lift height at max. reach (A) | mm | 1840 | 1840 |
| Max. lift height (C) | mm | 3835 | 3835 |
| Max. height to over pallet fork (E) | mm | 4825 | 4825 |
| Reach in loading position (F) | mm | 985 | 985 |
| Maximum possible reach (F max.) | mm | 1680 | 1680 |
| Reach at max. lift height (F min.) | mm | 750 | 750 |
| Fork tine length (G) | mm | 1500 | 1500 |
| Basic machine overall length (L) | mm | 7380 | 7380 |
| Straight tipping load ¹ | kg | 10700 | 9500 |
| Fully articulated tipping load ¹ | kg | 9200 | 8300 |
| Permissible load capacity on even ground = 60% of articulated static tipping load ² | kg | 5520 | 4980 |
| Permissible load capacity on even ground = 80% of articulated static tipping load ² | kg | 7360 | 6640 |
| Operating weight ¹ | kg | 18500 | 17800 |
| Tyre size | | 23.5 R 25 (L3) | 23.5 R 25 (L3) |



TORION 1914 / 1812.

With Z-kinematics, implement carrier with quick-attachment system and pallet fork.

| FEM IV pallet fork | | TORION 1914 | TORION 1812 |
|--|----|-------------------|-------------------|
| Lift height at max. reach (A) | mm | 1780 | 1780 |
| Max. lift height (C) | mm | 3680 | 3680 |
| Max. height to over pallet fork (E) | mm | 4680 | 4680 |
| Reach in loading position (F) | mm | 1020 | 1020 |
| Maximum possible reach (F max.) | mm | 1655 | 1655 |
| Reach at max. lift height (F min.) | mm | 835 | 835 |
| Fork tine length (G) | mm | 1500 | 1500 |
| Basic machine overall length (L) | mm | 8300 | 8300 |
| Straight tipping load ¹ | kg | 10700 | 9500 |
| Fully articulated tipping load ¹ | kg | 9200 | 8300 |
| Permissible load capacity on even ground = 60% of articulated static tipping load ² | kg | 5490 | 4830 |
| Permissible load capacity on even ground = 80% of articulated static tipping load ² | kg | 6500 ³ | 5800 ³ |
| Operating weight ¹ | kg | 18050 | 17400 |
| Tyre size | | 23.5 R 25 (L3) | 23.5 R 25 (L3) |

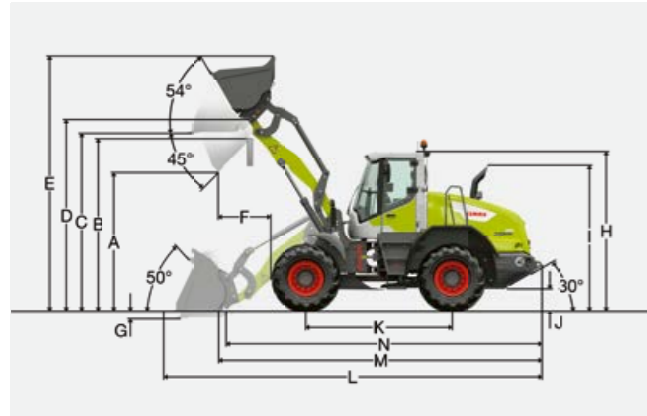
¹ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).

² According to EN 474-3.

¹ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).

² According to EN 474-3.

³ Load capacity limited by tilt rams of Z-kinematics.



TORION 1511-1177.

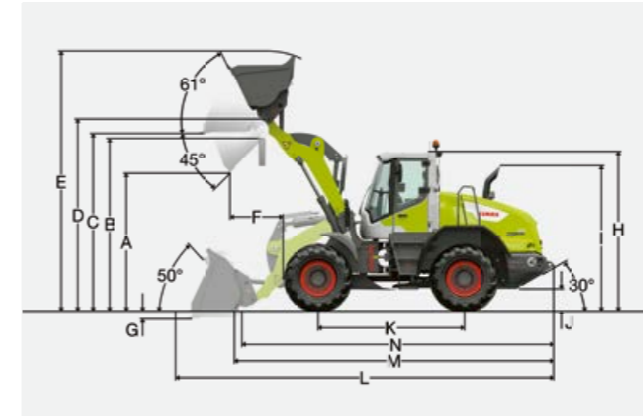
With P-kinematics, implement carrier with quick-change system and earthmoving bucket.

| | TORION 1511 | | TORION 1410 | | TORION 1177 | | |
|--|----------------|----------------|-------------|----------------|-------------|----------------|-------|
| | STD | HL | STD | HL | STD | HL | |
| Cutting tool | USM | USM | USM | USM | USM | USM | |
| Mast length | mm | 2570 | 3000 | 2570 | 3000 | 2570 | 3000 |
| Bucket capacity according to ISO 7546 ¹ | m ³ | 2.50 | 2.50 | 2.30 | 2.30 | 2.10 | 2.10 |
| Bucket width | mm | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Dumping height at max. lift height and 45° dumping angle (A) | mm | 2740 | 3305 | 2790 | 3350 | 2775 | 3335 |
| Bucket clearance height (B) | mm | 3480 | 4040 | 3480 | 4040 | 3380 | 3980 |
| Max. height to bucket base (C) | mm | 3680 | 4260 | 3680 | 4260 | 3610 | 4190 |
| Max. height to bucket pivot (D) | mm | 3930 | 4510 | 3930 | 4510 | 3860 | 4435 |
| Max. height to bucket top (E) | mm | 5350 | 5910 | 5290 | 5860 | 5130 | 5700 |
| Reach at max. lift height and 45° dumping angle (F) | mm | 1160 | 1080 | 1110 | 1030 | 1170 | 1100 |
| Digging depth (G) | mm | 55 | 25 | 55 | 25 | 120 | 95 |
| Height above cab (H) | mm | 3250 | 3250 | 3250 | 3250 | 3200 | 3200 |
| Height above exhaust (I) | mm | 2950 | 2950 | 2950 | 2950 | 2900 | 2900 |
| Ground clearance (J) | mm | 490 | 490 | 490 | 490 | 460 | 460 |
| Wheelbase (K) | mm | 2975 | 2975 | 2975 | 2975 | 2925 | 2925 |
| Overall length (L) | mm | 7790 | 8330 | 7720 | 8260 | 7690 | 8220 |
| Overall length to outer edge of implement carrier (M) | mm | 6528 | 7074 | 6528 | 7074 | 6581 | 7120 |
| Overall length to bucket pivot point (N) | mm | 6372 | 6915 | 6372 | 6915 | 6424 | 6963 |
| Turning radius over bucket outside edge | mm | 6110 | 6390 | 6090 | 6370 | 5950 | 6220 |
| Breakaway power (SAE) | kN | 112 | 112 | 108 | 108 | 100 | 100 |
| Tip load, straight ² | kg | 10920 | 9000 | 10300 | 8410 | 9000 | 7400 |
| Fully articulated tipping load ² | kg | 9750 | 7800 | 9100 | 7350 | 7750 | 6500 |
| Operating weight ² | kg | 14300 | 14560 | 13900 | 14160 | 12620 | 12880 |
| Tyre size | | 20.5 R 25 (L3) | | 20.5 R 25 (L3) | | 17.5 R 25 (L3) | |

¹ The bucket capacity can be approx. 10% in practice than as calculated according to ISO 7546. Bucket filling level depends on the material.

² The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).

STD = standard mast length, HL = high-lift mast, USM = grader blade



TORION 1511-1177.

With Z-kinematics, implement carrier with quick change and earthmoving bucket¹.

| | TORION 1511 | | TORION 1410 | | TORION 1177 | |
|--|----------------|----------------|-------------|----------------|-------------|-----|
| | STD | HL | STD | HL | STD | HL |
| Cutting tool | | USM | USM | USM | USM | USM |
| Mast length | mm | 2500 | 2500 | 2400 | | |
| Bucket capacity according to ISO 7546 ² | m ³ | 2.50 | 2.30 | 1.80 | | |
| Bucket width | mm | 2500 | 2500 | 2500 | | |
| Dumping height at max. lift height and 45° dumping angle (A) | mm | 2710 | 2760 | 2720 | | |
| Bucket clearance height (B) | mm | 3480 | 3480 | 3320 | | |
| Max. height to bucket base (C) | mm | 3680 | 3680 | 3510 | | |
| Max. height to bucket pivot (D) | mm | 3930 | 3930 | 3760 | | |
| Max. height to bucket top (E) | mm | 5330 | 5270 | 4980 | | |
| Reach at max. lift height and 45° dumping angle (F) | mm | 1110 | 1060 | 975 | | |
| Digging depth (G) | mm | 40 | 40 | 80 | | |
| Height above cab (H) | mm | 3250 | 3250 | 3200 | | |
| Height above exhaust (I) | mm | 2950 | 2950 | 2900 | | |
| Ground clearance (J) | mm | 490 | 490 | 460 | | |
| Wheelbase (K) | mm | 2975 | 2975 | 2925 | | |
| Overall length (L) | mm | 7680 | 7610 | 7380 | | |
| Overall length to outer edge of implement carrier (M) | mm | 6432 | 6432 | 6360 | | |
| Overall length to bucket pivot point (N) | mm | 6273 | 6273 | 6203 | | |
| Turning radius over bucket outside edge | mm | 6080 | 6050 | 5890 | | |
| Breakaway power (SAE) | kN | 105 | 100 | 86 | | |
| Straight tipping load ³ | kg | 11200 | 10200 | 8300 | | |
| Articulated tipping load ³ | kg | 9800 | 9000 | 7200 | | |
| Operating weight ³ | kg | 14400 | 13700 | 11400 | | |
| Tyre size | | 20.5 R 25 (L3) | | 17.5 R 25 (L3) | | |

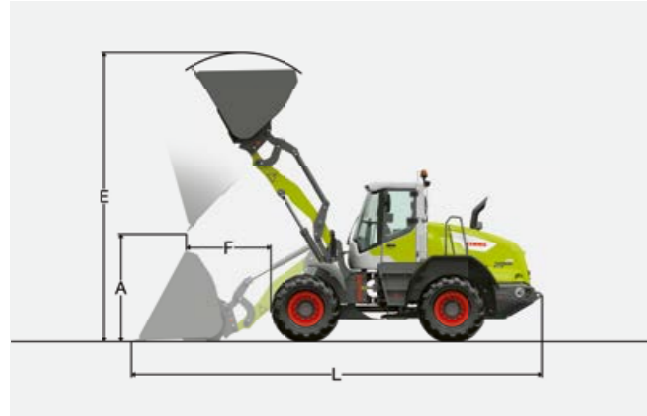
¹ Earthmoving bucket with short straight base for quick attachment.

² The bucket capacity can be approx. 10% in practice than as calculated according to ISO 7546. Bucket filling level depends on the material.

³ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).

USM = grader blade

Note: For stockpile removal operations, teeth, hydraulic quick-attachment systems and installation kits are not permitted.

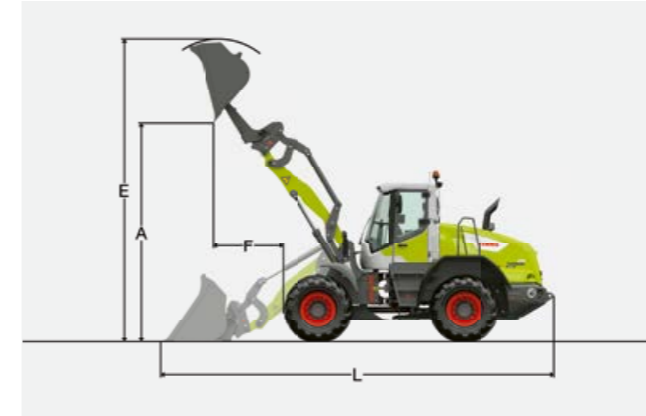


TORION 1511-1177.

With P-kinematics, implement carrier with quick-attachment system and light material bucket.

| | | TORION 1511 | | TORION 1410 | | TORION 1177 | |
|---|----------------|----------------|-------|----------------|-------|----------------|-------|
| | | STD | HL | STD | HL | STD | HL |
| Cutting tool | | USM | USM | USM | USM | USM | USM |
| Bucket capacity | m ³ | 4.50 | 4.00 | 4.00 | 3.50 | 3.50 | 3.00 |
| Bucket width | mm | 2700 | 2700 | 2700 | 2700 | 2700 | 2700 |
| Dumping height at max. lift height (A) | mm | 2380 | 3110 | 2490 | 3140 | 2480 | 3215 |
| Max. height to over bucket top (E) | mm | 5705 | 6170 | 5585 | 6020 | 5390 | 5900 |
| Reach at max. lift height (F) | mm | 1470 | 1260 | 1360 | 1230 | 1460 | 1220 |
| Overall length (L) | mm | 8110 | 8500 | 7955 | 8450 | 7940 | 8290 |
| Straight tipping load ¹ | kg | 10200 | 8700 | 9900 | 8000 | 8450 | 7150 |
| Fully articulated tipping load ¹ | kg | 9010 | 7600 | 8730 | 7040 | 7400 | 6280 |
| Operating weight ¹ | kg | 14710 | 14740 | 14100 | 14450 | 12950 | 13050 |
| Tyre size | | 20.5 R 25 (L3) | | 20.5 R 25 (L3) | | 17.5 R 25 (L3) | |

¹ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).
STD = standard mast length, HL = high-lift mast, USM = grader blade

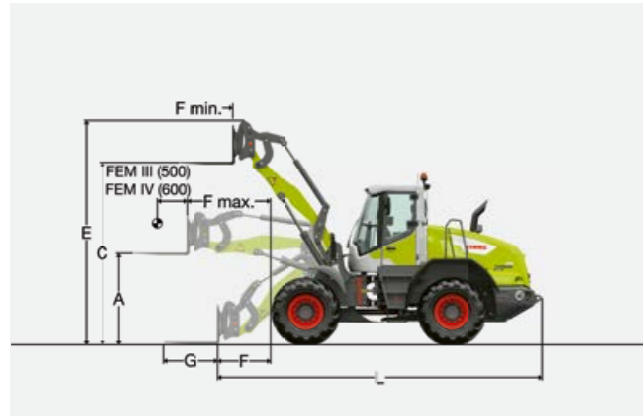


TORION 1511-1177.

With P-kinematics, implement carrier with quick-attachment system and high-tip bucket.

| | | TORION 1511 | | TORION 1410 | | TORION 1177 | |
|---|----------------|----------------|-------|----------------|-------|----------------|-------|
| | | STD | HL | STD | HL | STD | HL |
| Cutting tool | | USM | USM | USM | USM | USM | USM |
| Bucket capacity | m ³ | 4.00 | 3.50 | 3.50 | 3.00 | 3.00 | 2.50 |
| Bucket width | mm | 2700 | 2700 | 2700 | 2700 | 2700 | 2500 |
| Dumping height at max. lift height (A) | mm | 4470 | 5300 | 4560 | 5320 | 4530 | 5090 |
| Max. height to over bucket top (E) | mm | 6410 | 7095 | 6420 | 6985 | 6260 | 6680 |
| Reach at max. lift height (F) | mm | 1550 | 1270 | 1460 | 1250 | 1550 | 1370 |
| Overall length (L) | mm | 8210 | 8620 | 8080 | 8590 | 8080 | 8530 |
| Straight tipping load ¹ | kg | 9280 | 7680 | 8800 | 7100 | 7420 | 6380 |
| Fully articulated tipping load ¹ | kg | 8200 | 6760 | 7720 | 6280 | 6510 | 5590 |
| Operating weight ¹ | kg | 15360 | 15560 | 14930 | 15090 | 13590 | 13450 |
| Tyre size | | 20.5 R 25 (L3) | | 20.5 R 25 (L3) | | 17.5 R 25 (L3) | |

¹ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).
STD = standard mast length, HL = high-lift mast, USM = grader blade



TORION 1511-1177.

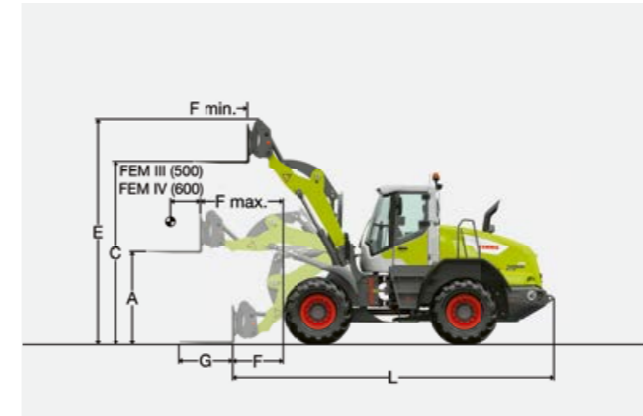
With Z-kinematics, implement carrier with quick-attachment system and pallet fork.

| Pallet fork | | TORION 1511 | | TORION 1410 | | TORION 1177 |
|--|----|----------------|-------------------|----------------|-------------------|----------------|
| Pallet fork type | | FEM IV | FEM III | FEM IV | FEM III | FEM III |
| Mast length | mm | 2570 | 2570 | 2570 | 2570 | 2570 |
| Lift height at max. reach (A) | mm | 1700 | 1740 | 1700 | 1740 | 1670 |
| Max. lift height (C) | mm | 3705 | 3740 | 3705 | 3740 | 3675 |
| Max. height to over pallet fork (E) | mm | 4700 | 4664 | 4700 | 4664 | 4600 |
| Reach in loading position (F) | mm | 1080 | 1060 | 1080 | 1060 | 1240 |
| Maximum possible reach (F max.) | mm | 1680 | 1700 | 1680 | 1700 | 1800 |
| Reach at max. lift height (F min.) | mm | 715 | 735 | 715 | 735 | 840 |
| Fork tine length (G) | mm | 1200 | 1200 | 1200 | 1200 | 1200 |
| Basic machine overall length (L) | mm | 6620 | 6590 | 6620 | 6590 | 6650 |
| Straight tipping load ¹ | kg | 8650 | 8750 | 8080 | 8150 | 7110 |
| Fully articulated tipping load ¹ | kg | 7650 | 7710 | 7120 | 7200 | 6240 |
| Permissible load capacity on even ground = 60% of articulated static tipping load ² | kg | 4550 | 4620 | 4270 | 4320 | 3700 |
| Permissible load capacity on even ground = 80% of articulated static tipping load ² | kg | 6000 | 5000 ³ | 5700 | 5000 ³ | 4900 |
| Operating weight ¹ | kg | 14040 | 13810 | 13670 | 13430 | 12200 |
| Tyre size | | 20.5 R 25 (L3) | | 20.5 R 25 (L3) | | 17.5 R 25 (L3) |

¹ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).

² According to EN 474-3.

³ Load capacity limited by FEM III fork carriage and tines to 5,000 kg.



TORION 1511-1177.

With Z-kinematics, implement carrier with quick-attachment system and pallet fork.

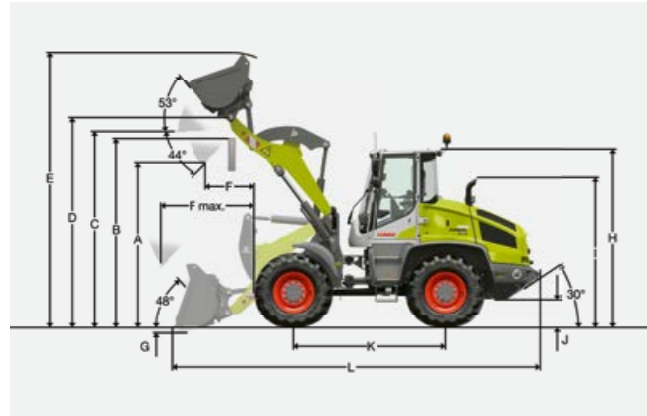
| Pallet fork | | TORION 1511 | | TORION 1410 | | TORION 1177 |
|--|----|-------------------|-------------------|-------------------|-------------------|-------------------|
| Loading fork type | | FEM IV | FEM III | FEM IV | FEM III | FEM III |
| Mast length | mm | 2500 | 2500 | 2500 | 2500 | 2400 |
| Lift height at max. reach (A) | mm | 1740 | 1780 | 1740 | 1780 | 1680 |
| Max. lift height (C) | mm | 3700 | 3740 | 3700 | 3740 | 3570 |
| Max. height to over fork carriage (E) | mm | 4695 | 4664 | 4695 | 4664 | 4500 |
| Reach in loading position (F) | mm | 995 | 965 | 995 | 965 | 1010 |
| Maximum possible reach (F max.) | mm | 1640 | 1660 | 1640 | 1660 | 1650 |
| Reach at max. lift height (F min.) | mm | 690 | 710 | 690 | 710 | 730 |
| Fork tine length (G) | mm | 1200 | 1200 | 1200 | 1200 | 1200 |
| Basic machine overall length (L) | mm | 6530 | 6510 | 6530 | 6510 | 6435 |
| Straight tipping load ¹ | kg | 8500 | 8580 | 7620 | 7700 | 6200 |
| Fully articulated tipping load ¹ | kg | 7500 | 7560 | 6700 | 6800 | 5500 |
| Permissible load capacity on even ground = 60% of articulated static tipping load ² | kg | 4480 | 4520 | 4000 | 4050 | 3290 |
| Permissible load capacity on even ground = 80% of articulated static tipping load ² | kg | 5200 ³ | 5000 ⁴ | 5200 ³ | 5000 ⁴ | 4200 ³ |
| Operating weight ¹ | kg | 14060 | 13820 | 13450 | 13200 | 11060 |
| Tyre size | | 20.5 R 25 (L3) | | 20.5 R 25 (L3) | | 17.5 R 25 (L3) |

¹ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).

² According to EN 474-3.

³ Load capacity limited by tilt rams of Z-kinematics.

⁴ Load capacity limited by FEM III fork carriage and tines to 5,000 kg.



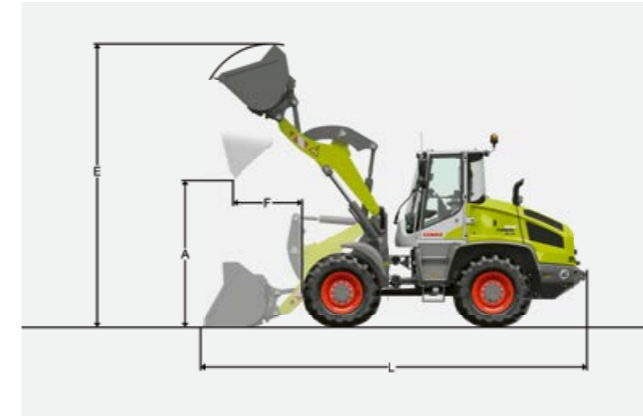
TORION 956 SINUS.

With Z-kinematics, implement carrier with quick-attachment system and earthmoving bucket.

| | TORION 956 SINUS | |
|--|-----------------------|------|
| | STD | HL |
| Cutting tool | USM | USM |
| Mast length | mm 2400 | 2645 |
| Bucket capacity according to ISO 7546 ¹ | m ³ 1.40 | 1.30 |
| Bucket width | mm 2400 | 2400 |
| Material density | t/m ³ 1.80 | 1.60 |
| Dumping height at max. lift height and 44° dumping angle (A) | mm 2915 | 3170 |
| Bucket clearance height (B) | mm 3370 | 3645 |
| Max. height to bucket base (C) | mm 3500 | 3785 |
| Max. height to bucket pivot (D) | mm 3720 | 4010 |
| Max. height to bucket top (E) | mm 4795 | 5020 |
| Reach at max. lift height and 44° dumping angle (F) | mm 785 | 860 |
| Max. reach at 44° dumping angle (F max.) | mm 1630 | 1915 |
| Digging depth (G) | mm 70 | 125 |
| Height above cab (H) | mm 3025 | 3025 |
| Height above exhaust (I) | mm 2525 | 2525 |
| Ground clearance (J) | mm 430 | 430 |
| Wheelbase (K) | mm 2600 | 2600 |
| Overall length (L) | mm 6360 | 6750 |
| Overall length to outer edge of implement carrier (M) | mm 5600 | 5960 |
| Overall length to bucket pivot point (N) | mm 5445 | 5781 |
| Turning radius over bucket outside edge | mm 4450 | 4675 |
| Breakaway power | kN 68 | 70 |
| Tip load, straight ² | kg 6095 | 5275 |
| Tip load, articulated at 30° ² | kg 5575 | 4825 |
| Operating weight ² | kg 9070 | 9120 |
| Tyre size | 17.5 MI XTLA L2 | |

¹ The bucket capacity can be approx. 10% in practice than as calculated according to ISO 7546. Bucket filling level depends on the material.

² The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).
STD = standard mast length, HL = high-lift mast, USM = grader blade

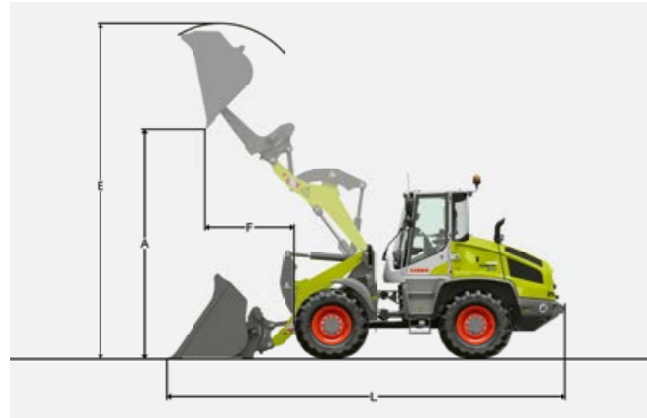


TORION 956 SINUS.

With Z-kinematics, implement carrier with quick-attachment system and light material bucket.

| | TORION 956 SINUS | |
|---|------------------|------|
| | STD | HL |
| Cutting tool | USM | USM |
| Bucket capacity | m ³ 2 | 2 |
| Bucket width | mm 2500 | 2500 |
| Dumping height at max. lift height (A) | mm 2745 | 3020 |
| Max. height to over bucket top (E) | mm 4970 | 5265 |
| Reach at max. lift height (F) | mm 1010 | 1020 |
| Overall length (L) | mm 6540 | 6865 |
| Straight tipping load ¹ | kg 5680 | 4955 |
| Tip load, fully articulated at 30° ¹ | kg 5200 | 4535 |
| Operating weight ¹ | kg 9250 | 9610 |
| Tyre size | 17.5 MI XTLA L2 | |

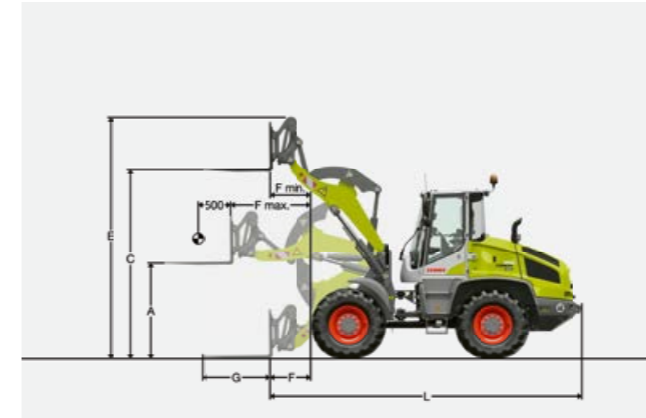
¹ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).
STD = standard mast length, HL = high-lift mast, USM = grader blade



TORION 956 SINUS.

With Z-kinematics, implement carrier with quick-attachment system and high-tip bucket.

| High dumping weight | TORION 956 SINUS | |
|---|---------------------|------|
| | STD | HL |
| Cutting tool | USM | USM |
| Bucket capacity | m ³ 2.20 | 1.80 |
| Bucket width | mm 2500 | 2200 |
| Dumping height at max. lift height (A) | mm 4200 | 4580 |
| Max. height to over bucket top (E) | mm 5760 | 6060 |
| Reach at max. lift height (F) | mm 1400 | 1470 |
| Overall length (L) | mm 6965 | 7300 |
| Straight tipping load ¹ | kg 4655 | 4150 |
| Tip load, fully articulated at 30° ¹ | kg 4260 | 3800 |
| Operating weight ¹ | kg 9985 | 9870 |
| Tyre size | 17.5 MI XTLA L2 | |



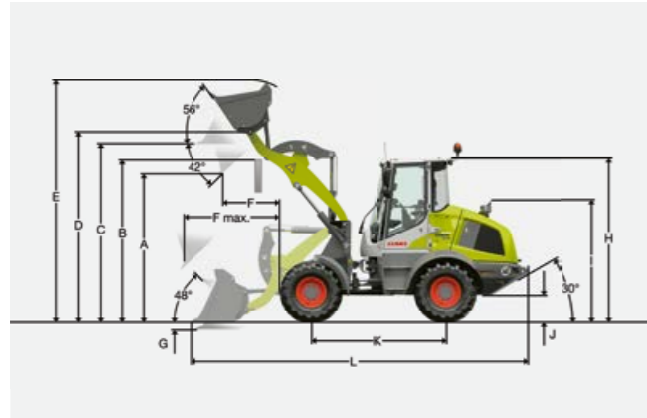
TORION 956 SINUS.

With Z-kinematics, implement carrier with quick-attachment system and pallet fork.

| | TORION 956 SINUS | |
|--|------------------|---------|
| | STD | HL |
| Loading fork type | FEM III | FEM III |
| Mast length | mm 2400 | 2645 |
| Lift height at max. reach (A) | mm 1745 | 1724 |
| Max. lift height (C) | mm 3575 | 3865 |
| Max. height to over fork carriage (E) | mm 4495 | 4785 |
| Reach in loading position (F) | mm 765 | 1095 |
| Max. reach (F max.) | mm 1460 | 1705 |
| Reach at max. lift height (F min.) | mm 615 | 645 |
| Fork tine length (G) | mm 1200 | 1200 |
| Basic machine overall length (L) | mm 5640 | 5970 |
| Straight tipping load ¹ | kg 4500 | 3980 |
| Tip load, fully articulated at 30° ¹ | kg 4120 | 3640 |
| Permissible load capacity on even ground = 60% of articulated static tipping load ² | kg 2475 | 2185 |
| Permissible load capacity on even ground = 80% of articulated static tipping load ² | kg 3300 | 2900 |
| Operating weight ¹ | kg 8930 | 9030 |
| Tyre size | 405/70R18 L2 | |

¹ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).
STD = standard mast length, HL = high-lift mast, USM = grader blade

¹ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).
² According to EN 474-3.



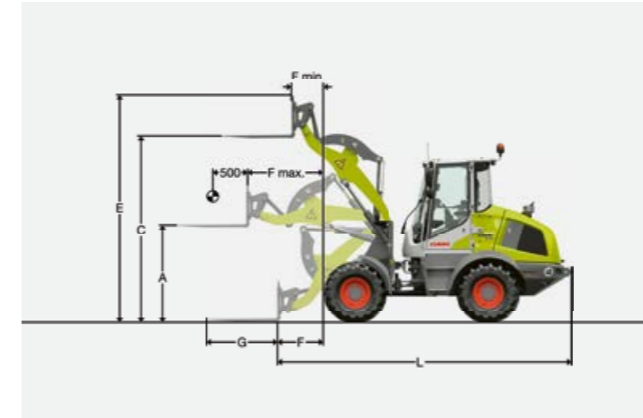
TORION 644 / 537 SINUS.

With Z-kinematics, implement carrier with quick-attachment system and earthmoving bucket.

| | | TORION 644 SINUS | HL | TORION 537 SINUS |
|--|------------------|------------------|------|------------------|
| | | STD | HL | STD |
| Cutting tool | | USM | USM | USM |
| Mast length | mm | 2250 | 2560 | 2150 |
| Bucket capacity according to ISO 7546 ¹ | m ³ | 1.20 | 1.00 | 0.90 |
| Bucket width | mm | 2330 | 2100 | 2050 |
| Material density | t/m ³ | 1.80 | 1.80 | 1.80 |
| Dumping height at max. lift height and 42° dumping angle (A) | mm | 2645 | 3145 | 2550 |
| Bucket clearance height (B) | mm | 2870 | 3000 | 3450 |
| Max. height to bucket base (C) | mm | 3145 | 3585 | 3015 |
| Max. height to bucket pivot (D) | mm | 3345 | 3785 | 3215 |
| Max. height to bucket top (E) | mm | 4260 | 4680 | 4040 |
| Reach at max. lift height and 42° dumping angle (F) | mm | 910 | 875 | 815 |
| Max. reach at 42° dumping angle (F max.) | mm | 1645 | 1935 | 1500 |
| Digging depth (G) | mm | 95 | 110 | 80 |
| Height above cab (H) | mm | 2780 | 2780 | 2750 |
| Height above exhaust (I) | mm | 2010 | 2010 | 1980 |
| Ground clearance (J) | mm | 295 | 295 | 285 |
| Wheelbase (K) | mm | 2300 | 2300 | 2150 |
| Overall length (L) | mm | 5815 | 6170 | 5495 |
| Overall length to outer edge of implement carrier (M) | mm | 4900 | 5285 | 4660 |
| Overall length to bucket pivot point (N) | mm | 4830 | 5200 | 4590 |
| Turning radius over bucket outside edge | mm | 4225 | 4325 | 3885 |
| Breakaway power | kN | 55 | 59 | 48 |
| Tip load, straight ² | kg | 4850 | 4100 | 4070 |
| Tip load, fully articulated at 30° ² | kg | 4430 | 3750 | 3750 |
| Operating weight ² | kg | 6390 | 6630 | 5550 |
| Tyre size | | 405/70R18 L2 | | 365/70R18 L2 |

¹ The bucket capacity can be approx. 10% in practice than as calculated according to ISO 7546. Bucket filling level depends on the material.

² The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).
STD = standard mast length, HL = high-lift mast, USM = grader blade



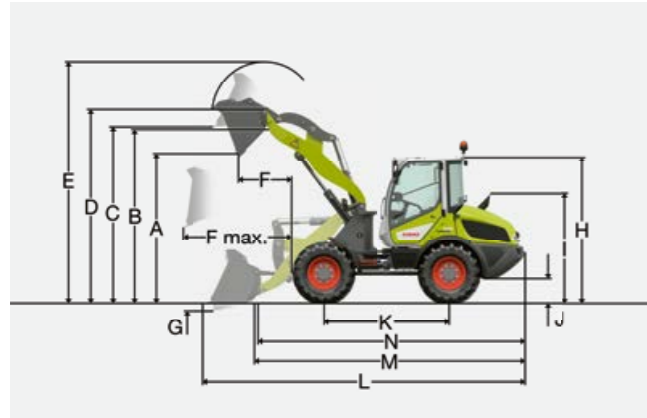
TORION 644 / 537 SINUS.

With Z-kinematics, implement carrier with quick-attachment system and pallet fork.

| | | TORION 644 SINUS | HL | TORION 537 SINUS |
|--|----|------------------|--------|------------------|
| | | STD | HL | STD |
| Loading fork type | | FEM II | FEM II | FEM II |
| Lift height at max. reach (A) | mm | 1500 | 1490 | 1450 |
| Max. lift height (C) | mm | 3175 | 3615 | 3045 |
| Max. height to over fork carriage (E) | mm | 3840 | 4280 | 3715 |
| Reach in loading position (F) | mm | 810 | 1200 | 740 |
| Max. reach (F max.) | mm | 1330 | 1640 | 1235 |
| Reach at max. lift height (F min.) | mm | 570 | 500 | 525 |
| Fork tine length (G) | mm | 1200 | 1200 | 1200 |
| Basic machine overall length (L) | mm | 5040 | 5425 | 4825 |
| Straight tipping load ¹ | kg | 3840 | 3400 | 3215 |
| Tip load, fully articulated at 30° ¹ | kg | 3500 | 3090 | 2930 |
| Permissible load capacity on even ground = 60% of articulated static tipping load ² | kg | 2100 | 1850 | 1820 |
| Permissible load capacity on even ground = 80% of articulated static tipping load ² | kg | 2500 | 2470 | 2300 |
| Operating weight ¹ | kg | 5445 | 6175 | 6490 |
| Tyre size | | 405/70R18 L2 | | 365/70R18 L2 |

¹ The values shown apply for the tyres specified, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change the operating weight and tipping load (fully articulated tipping load according to ISO 14397-1).

² According to EN 474-3.



TORION 639 / 535.

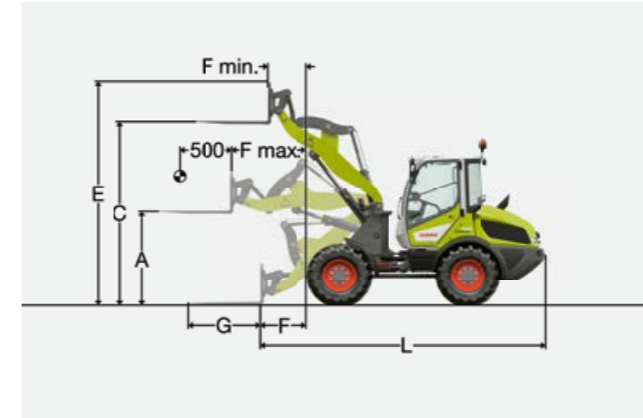
With Z-kinematics, implement carrier with quick-attachment system and earthmoving bucket.

| | | TORION 639 | TORION 535 |
|--|------------------|-------------|-------------|
| Cutting tool | | USM | USM |
| Mast length | mm | 2300 | 2200 |
| Bucket capacity according to ISO 7546 ¹ | m ³ | 1.00 | 0.80 |
| Bucket width | mm | 2100 | 1900 |
| Material density | t/m ³ | 1.80 | 1.80 |
| Dumping height at max. lift height and 42° dumping angle (A) | mm | 2640 | 2525 |
| Bucket clearance height (B) | mm | 3000 | 2800 |
| Max. height to bucket base (C) | mm | 3180 | 2990 |
| Max. height to bucket pivot (D) | mm | 3370 | 3190 |
| Max. height to bucket top (E) | mm | 4260 | 4030 |
| Reach at max. lift height and 42° dumping angle (F) | mm | 810 | 750 |
| Max. reach at 42° dumping angle (F max.) | | 1600 | 1490 |
| Digging depth (G) | mm | 57 | 70 |
| Height above cab (H) | mm | 2460 | 2460 |
| Height above exhaust (I) | mm | 1810 | 1810 |
| Ground clearance (J) | mm | 325 | 325 |
| Wheelbase (K) | mm | 2150 | 2150 |
| Overall length (L) | mm | 5515 | 5415 |
| Overall length to outer edge of implement carrier (M) | mm | 4640 | 4595 |
| Overall length to bucket pivot point (N) | mm | 4570 | 4525 |
| Turning radius over bucket outside edge | mm | 4465 | 4230 |
| Breakaway power (SAE) | kN | 56 | 46 |
| Tip load, straight ² | kg | 4400 | 3900 |
| 40° articulated tipping load ² | kg | 3850 | 3450 |
| Operating weight ² | kg | 5600 | 5180 |
| Tyre size | | 340/80 R 18 | 340/80 R 18 |

¹ The bucket capacity can be approx. 10% in practice than as calculated according to ISO 7546. Bucket filling level depends on the material.

² The above values apply for the specified tyres, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change operational weight and tipping load (40° articulated tipping load according to ISO 14397-1).

USM = grader blade



TORION 639 / 535.

With Z-kinematics, implement carrier with quick-attachment system and pallet fork.

| | | TORION 639 | TORION 535 |
|--|----|-------------------|-------------------|
| Loading fork type | | FEM II | FEM II |
| Lift height at max. reach (A) | mm | 1470 | 1370 |
| Max. lift height (C) | mm | 3200 | 3000 |
| Max. height to over fork carriage (E) | mm | 3865 | 3680 |
| Reach in loading position (F) | mm | 830 | 780 |
| Max. reach (F max.) | mm | 1330 | 1220 |
| Reach at max. lift height (F min.) | mm | 515 | 450 |
| Fork tine length (G) | mm | 1200 | 1200 |
| Basic machine overall length (L) | mm | 4744 | 4700 |
| Straight tipping load ¹ | kg | 3500 | 3200 |
| 40° articulated tipping load ¹ | kg | 3100 | 2800 |
| Permissible load capacity on even ground = 60% of articulated static tipping load ² | kg | 1850 | 1650 |
| Permissible load capacity on even ground = 80% of articulated static tipping load ² | kg | 2400 ³ | 2000 ³ |
| Operating weight ¹ | kg | 5470 | 5050 |
| Tyre size | | 340/80 R 18 | 340/80 R 18 |

¹ The above values apply for the specified tyres, including all lubricants, full fuel tanks, ROPS / FOPS cab and driver. Tyre size and additional equipment change operational weight and tipping load (40° articulated tipping load according to ISO 14397-1).

² According to EN 474-3.

³ Load capacity limited by tilt rams.

| TORION | | 1914 | 1812 | 1511 | 1410 | 1177 |
|---|----|---|---|---------------------|---------------------|---------------------|
| Loading system | | | | | | |
| Operating weight ¹ | kg | 19500 | 18700 | 14300 | 13900 | 12620 |
| Mast variants available | | Agricultural / Agricultural High-Lift / Z | Agricultural / Agricultural High-Lift / Z | P / P High-Lift / Z | P / P High-Lift / Z | P / P High-Lift / Z |
| Tip load, fully articulated (max.) ² | kg | 12400 | 11100 | 9750 | 9100 | 7750 |
| Tip load, straight ² | | 14400 | 12800 | 10920 | 10300 | 9000 |

Engine – Stage IV (Tier 4)³

| | | | | | | |
|--|-------|----------------------------|----------------------------|-----------------------|-----------------------|-----------------------|
| Manufacturer | | Liebherr | Liebherr | DPS | DPS | DPS |
| Model | | D944 A7 | D934 A7 | 404HFL09 | 404HFL09 | 404HFL09 |
| Layout / number of cylinders | | R 4 | R 4 | R 4 | R 4 | R 4 |
| Cubic capacity | l | 7.96 | 7.01 | 4.50 | 4.50 | 4.50 |
| Max. gross power according to ISO 3046 and SAE J1995 | kW/hp | 168/228 (at 1100–1800 rpm) | 143/195 (at 1100–1800 rpm) | 123/167 (at 2000 rpm) | 114/155 (at 2000 rpm) | 103/140 (at 2000 rpm) |
| Max. net power according to ISO 9249 and SAE J1349 | kW/hp | 165/224 (at 1100–1800 rpm) | 140/191 (at 1100–1800 rpm) | 121/165 (at 2000 rpm) | 112/152 (at 2000 rpm) | 101/137 (at 2000 rpm) |
| Max. torque according to ISO 9249 and SAE J1349 | Nm | 1433 (at 1100 rpm) | 1215 (at 1100 rpm) | 682 (at 1500 rpm) | 628 (at 1500 rpm) | 548 (at 1500 rpm) |
| Exhaust aftertreatment | | DOC + SCR ⁴ | DOC + SCR ⁴ | DPF + DOC + SCR | DPF + DOC + SCR | DPF + DOC + SCR |

Working hydraulics

| | | | | | | |
|--|-------|--------------------------------------|---------|--------------------------------------|---------|---------|
| Gear pump, priority valve | l/bar | – | – | – | – | – |
| LS pump, LS valves (Z-kinematics) | l/bar | 234/360 | 234/330 | 170/350 | 170/350 | 136/330 |
| LS pump, LS valves (P-kinematics) | l/bar | – | – | 170/350 | 170/350 | 136/330 |
| LS pump, LS valves (agricultural kinematics) | l/bar | 234/380 | 234/350 | – | – | – |
| Filtration | | Return-line filter in hydraulic tank | | Return-line filter in hydraulic tank | | |

Working cycle time at rated load

| | | | | | | | | | | | |
|--------------------|---|--------------|------|--------------|------|------|------|------|------|------|------|
| Kinematics variant | | Agricultural | Z | Agricultural | Z | P | Z | P | Z | P | Z |
| Lifting | s | 5.50 | 5.50 | 5.50 | 5.50 | 6.00 | 6.40 | 6.00 | 6.40 | 5.40 | 5.20 |
| Dumping | s | 3.50 | 2.30 | 3.50 | 2.30 | 4.70 | 3.40 | 4.70 | 3.40 | 3.00 | 2.00 |
| Lowering (empty) | s | 2.70 | 2.70 | 2.70 | 2.70 | 5.60 | 3.90 | 5.60 | 3.90 | 5.00 | 2.90 |

Ground drive

| | | | | | | | | | | |
|------------------------------|------|------------------|----------------------|-------------------------------|-------------------------------|-------------------------------|--|--|--|--|
| Transmission type | | | CMATIC (split-power) | | | VARIPOWER (hydrostatic) | | | | |
| Driving ranges | km/h | 0–40 (limitable) | 0–40 (limitable) | 0–6 / 0–16 / 0–40 (limitable) | 0–6 / 0–16 / 0–40 (limitable) | 0–6 / 0–16 / 0–40 (limitable) | | | | |
| Top speed, max. ⁵ | km/h | 40 | 40 | 40 | 40 | 40 | | | | |

| TORION | | 1914 | 1812 | 1511 | 1410 | 1177 |
|--------------------------------|---|-------|-------|-------|-------|-------|
| Tank capacity overview | | | | | | |
| Fuel tank – diesel | l | 280 | 280 | 205 | 205 | 205 |
| Urea tank | l | 67.50 | 67.50 | 20.00 | 20.00 | 20.00 |
| Hydraulic oil – total quantity | l | 175 | 175 | 180 | 180 | 170 |

Axles

| | | | | | | |
|-----------------------------------|---------|----|---|----|---|----|
| Front axle | | | Rigid | | Rigid | |
| Rear axle ⁶ | | | Full floating with 13° oscillation angle on each side | | Full floating with 10° oscillation angle on each side | |
| Front differential lock | | | Self-locking differential, 45% in both axles | | Self-locking differential, 45% in both axes | |
| Articulation angle (on each side) | degrees | 40 | 40 | 40 | 40 | 40 |

Service brake

| | | | | | |
|----------|--|--|---|--|---|
| Type | | | Hydraulic pump accumulator brake system (wet disc brake, two separate brake circuits) | | Hydraulic pump accumulator brake system (wet disc brake, two separate brake circuits) |
| Location | | | Front and rear axle final drive | | Front and rear axle differential housing |

Parking brake

| | | | | | |
|----------|--|--|---|--|---|
| Type | | | Electrohydraulically operated spring disc brake | | Electrohydraulically operated spring disc brake |
| Location | | | Transmission | | Front axle |

| TORION | | 1914 | 1812 | 1511 | 1410 | 1177 |
|--|--|------|------|------|------|------|
| SMART LOADING / electronics expertise | | | | | | |
| Programmable bucket return position | | ● | ● | ○ | ○ | ○ |
| Set lifting and lowering heights | | ● | ● | ○ | ○ | ○ |
| Weighing system | | ○ | ○ | ○ | ○ | ○ |
| TELEMATICS | | ○ | ○ | ○ | ○ | ○ |

| TORION | | 1914 | 1812 | | |
|---|---|------|----------------------------------|------|--|
| Tyres¹ | | | Vehicle width² | | |
| 23.5 R 25 Michelin XHA2 (L3), industrial | m | 2.65 | | 2.65 | |
| 23.5 R 25 Bridgestone EM VJT (L3), industrial | m | 2.67 | | 2.67 | |
| 23.5 R 25 Goodyear RT-3B (L3), industrial | m | 2.67 | | 2.67 | |
| 23.5 R 25 Goodyear TL-3A+ (L3), industrial | m | 2.67 | | 2.67 | |
| 23.5 R 25 Michelin XTLA (L2), industrial | m | 2.65 | | 2.65 | |
| 650 / 75 R 32 Michelin Mega X Bib, AS | m | 2.71 | | 2.71 | |
| 650 / 75 R 32 Trelleborg TM 2000, AS | m | 2.67 | | 2.67 | |
| 750 / 65 R 26 Michelin Cerexbib, AS | m | 2.89 | | 2.89 | |

| TORION | | 1511 | 1410 | 1177 | |
|---|---|------|----------------------------------|------|--|
| Tyres¹ | | | Vehicle width² | | |
| 17.5 R 25 Bridgestone EM VJT (L3), industrial | m | – | – | 2.44 | |
| 17.5 R 25 Michelin XHA2 (L3), industrial | m | – | – | 2.46 | |
| 17.5 R 25 Michelin XTLA (L2), industrial | m | – | – | 2.46 | |
| 17.5 R 25 Goodyear RT-3B (L3), industrial | m | – | – | 2.46 | |
| 17.5 R 25 Goodyear TL-3A+ (L3), industrial | m | – | – | 2.46 | |
| 20.5 R 25 Bridgestone EM VJT (L3), industrial | m | 2.48 | 2.48 | 2.48 | |
| 20.5 R 25 Michelin XHA2 (L3), industrial | m | 2.48 | 2.48 | 2.48 | |
| 20.5 R 25 Michelin XTLA (L2), industrial | m | 2.51 | 2.51 | 2.51 | |
| 20.5 R 25 Goodyear RT-3B (L3), industrial | m | 2.49 | 2.49 | 2.49 | |
| 20.5 R 25 Goodyear TL-3A+ (L3), industrial | m | 2.50 | 2.50 | 2.50 | |
| 620 / 75 R 26 Michelin Mega X Bib, AS | m | 2.60 | 2.60 | 2.60 | |
| 620 / 75 R 26 Trelleborg TM 2000, AS | m | 2.64 | 2.64 | 2.64 | |
| 620 / 70 R 26 Michelin Cerexbib, AS | m | 2.69 | 2.69 | 2.69 | |
| 750 / 65 R 26 Michelin Mega X Bib, AS | m | 2.85 | 2.85 | 2.85 | |

| TORION | | 1511 | 1410 | 1177 | |
|---|---|------|----------------------------------|------|--|
| Tyres¹ | | | Vehicle width² | | |
| 17.5 R 25 Bridgestone EM VJT (L3), industrial | m | – | – | 2.44 | |
| 17.5 R 25 Michelin XHA2 (L3), industrial | m | – | – | 2.46 | |
| 17.5 R 25 Michelin XTLA (L2), industrial | m | – | – | 2.46 | |
| 17.5 R 25 Goodyear RT-3B (L3), industrial | m | – | – | 2.46 | |
| 17.5 R 25 Goodyear TL-3A+ (L3), industrial | m | – | – | 2.46 | |
| 20.5 R 25 Bridgestone EM VJT (L3), industrial | m | 2.48 | 2.48 | 2.48 | |
| 20.5 R 25 Michelin XHA2 (L3), industrial | m | 2.48 | 2.48 | 2.48 | |
| 20.5 R 25 Michelin XTLA (L2), industrial | m | 2.51 | 2.51 | 2.51 | |
| 20.5 R 25 Goodyear RT-3B (L3), industrial | m | 2.49 | 2.49 | 2.49 | |
| 20.5 R 25 Goodyear TL-3A+ (L3), industrial | m | 2.50 | 2.50 | 2.50 | |
| 620 / 75 R 26 Michelin Mega X Bib, AS | m | 2.60 | 2.60 | 2.60 | |
| 620 / 75 R 26 Trelleborg TM 2000, AS | m | 2.64 | 2.64 | 2.64 | |
| 620 / 70 R 26 Michelin Cerexbib, AS | m | 2.69 | 2.69 | 2.69 | |
| 750 / 65 R 26 Michelin Mega X Bib, AS | m | 2.85 | 2.85 | 2.85 | |

| TORION | | 1914 | 1812 | 1511 | 1410 | 1177 |
|--|--|------|------|------|------|------|
| SMART LOADING / electronics expertise | | | | | | |
| Programmable bucket return position | | ● | ● | ○ | ○ | ○ |
| Set lifting and lowering heights | | ● | ● | ○ | ○ | ○ |
| Weighing system | | ○ | ○ | ○ | ○ | ○ |
| TELEMATICS | | ○ | ○ | ○ | ○ | ○ |

| TORION | | 1914 | 1812 | 1511 | 1410 | 1177 |
|--|--|------|------|------|------|------|
| SMART LOADING / electronics expertise | | | | | | |
| Programmable bucket return position | | ● | ● | ○ | ○ | ○ |
| Set lifting and lowering heights | | ● | ● | ○ | ○ | ○ |
| Weighing system | | ○ | ○ | ○ | ○ | ○ |
| TELEMATICS | | ○ | ○ | ○ | ○ | ○ |

| TORION | | 1914 | 1812 | 1511 | 1410 | 1177 |
|--|--|------|------|------|------|------|
| SMART LOADING / electronics expertise | | | | | | |
| Programmable bucket return position | | ● | ● | ○ | ○ | ○ |
| Set lifting and lowering heights | | ● | ● | ○ | ○ | ○ |
| Weighing system | | ○ | ○ | ○ | ○ | ○ |
| TELEMATICS | | ○ | ○ | ○ | ○ | ○ |

| TORION | | 1914 | 1812 | 1511 | 1410 | 1177 |
|--|--|------|------|------|------|------|
| SMART LOADING / electronics expertise | | | | | | |
| Programmable bucket return position | | ● | ● | ○ | ○ | ○ |
| Set lifting and lowering heights | | ● | ● | ○ | ○ | ○ |
| Weighing system | | ○ | ○ | ○ | ○ | ○ |
| TELEMATICS | | ○ | ○ | ○ | ○ | ○ |

| TORION | | 1914 | 1812 | 1511 | 1410 | 1177 |
|--|--|------|------|------|------|------|
| SMART LOADING / electronics expertise | | | | | | |
| Programmable bucket return position | | ● | ● | ○ | ○ | ○ |
| Set lifting and lowering heights | | ● | ● | ○ | ○ | ○ |
| Weighing system | | ○ | ○ | ○ | ○ | ○ |
| TELEMATICS | | ○ | ○ | ○ | ○ | ○ |

● Standard
○ Optional
□ Available
– Not available

● Standard
○ Optional
□ Available
– Not available

● Standard
○ Optional
□ Available
– Not available

^[1] The values shown vary according to tyres, earthmoving bucket (bucket capacity in accordance with ISO 7546, may be up to 10% more in practice, bucket filling level depends on type of material), kinematics variant, includes all lubricants, full fuel tank, ROPS/FOPS cab and driver. Tyre dimensions and supplementary equipment will affect the operating weight and tipping load.

^[2] According to ISO 14397-1.

^[3] TORION 639 and 535 models according to Stage IIIB (Tier 4i).

^[4] Diesel particulate filter available as optional equipment.

^[5] The TORION 1914-1177 models are available for registration as self-propelled work machines with maximum top speed limitation to 20 km/h or 25 km/h.

^[6] Oscillation angle is limited according to tyre variant.

| TORION | | 956 SINUS | 644 SINUS | 537 SINUS | 639 | 535 |
|--------|--|-----------|-----------|-----------|-----|-----|
|--------|--|-----------|-----------|-----------|-----|-----|

Loading system

| | | | | | | |
|---|----|------|------|------|------|------|
| Operating weight ¹ | kg | 9070 | 6390 | 5550 | 5600 | 5180 |
| Mast variants available | | Z | Z | Z | Z | Z |
| Tip load, fully articulated (max.) ² | kg | 5575 | 4430 | 3750 | 3850 | 3450 |
| Tip load, straight ² | | 6095 | 4850 | 4070 | 4400 | 3900 |

Engine – Stage IV (Tier 4)³

| | | | | | | |
|--|-------|-----------------|-----------|-----------|---------------------|---------------------|
| Manufacturer | | DPS | Yanmar | Yanmar | Yanmar | Yanmar |
| Model | | 4045HLC07 | 4TNV98CT | 4TNV98CT | 4TNV98C | 4TNV98C |
| Layout / number of cylinders | | R 4 | R 4 | R 4 | R 4 | R 4 |
| Cubic capacity | l | 4.50 | 3.32 | 3.32 | 3.32 | 3.32 |
| Max. gross power according to ISO 3046 and SAE J1995 | kW/hp | 78/106 | 54/73 | 54/73 | 50/68 (at 2400 rpm) | 46/63 (at 2200 rpm) |
| Max. net power according to ISO 9249 and SAE J1349 | kW/hp | 76/103 | 52/71 | 52/71 | – | – |
| Max. torque according to ISO 9249 and SAE J1349 | Nm | 405 | 280 | 280 | 239 (at 1560 rpm) | 239 (at 1400 rpm) |
| Exhaust aftertreatment | | DPF + DOC + SCR | DPF + DOC | DPF + DOC | DPF + DOC | DPF + DOC |

Working hydraulics

| | | | | | | |
|---------------------------|-------|--------------------------------------|--------------------|--------------------|--|--------|
| Gear pump, priority valve | l/bar | 115/240 | 93/210 | 70/230 | 77/230 | 70/230 |
| Additional gear pump | l/bar | +35/240 (optional) | +35/240 (optional) | +35/240 (optional) | – | – |
| Filtration | | Return-line filter in hydraulic tank | | | Suction return-line filter in hydraulic tank | |

Working cycle time at rated load

| | | | | | | |
|--------------------|---|------|------|------|------|------|
| Kinematics variant | | Z | Z | Z | Z | Z |
| Lifting | s | 6.90 | 5.60 | 4.90 | 6.50 | 5.30 |
| Dumping | s | 3.00 | 2.00 | 1.70 | 1.50 | 1.30 |
| Lowering (empty) | s | 4.90 | 4.10 | 3.50 | 4.00 | 2.90 |

Ground drive

| | | | | | | |
|-----------------------------|------|-----------------------|-------------|-------------|-------------|------------|
| Transmission type | | Hydrostatic (2-speed) | | | Hydrostatic | |
| Driving ranges | km/h | 0–18 / 0–40 | 0–18 / 0–40 | 0–18 / 0–40 | 0–6 / 0–20 | 0–6 / 0–20 |
| Top speed max. ⁴ | km/h | 40 | 40 | 40 | 20 | 20 |

Tank capacity overview

| | | | | | | |
|--------------------------------|---|-----|-----|-----|----|----|
| Fuel tank – diesel | l | 155 | 90 | 90 | 50 | 50 |
| Urea tank | l | 18 | – | – | – | – |
| Hydraulic oil – total quantity | l | 115 | 102 | 102 | 90 | 90 |

Axles

| | | | | | | |
|-----------------------------------|---------|--|---|----|---|----|
| Front axle | | Rigid | | | Rigid | |
| Rear axle ⁵ | | Articulated joint with 8° oscillation angle on each side and 25° stub axle steering on each side | | | Articulated joint with 10° oscillation angle on each side | |
| Front differential lock | | Self-locking differential, 45% in both axles | 100% lock in front axle, manual switching | | Self-locking differential, 45% in both axles | |
| Articulation angle (on each side) | degrees | 30 | 30 | 30 | 40 | 40 |

Service brake

| | | | | | | |
|----------|--|--|--|--|-----------------------------------|--|
| Type | | Dual circuit brake system (drum brake and wet multiple disc brake) | | | Hydraulically operated drum brake | |
| Location | | Drum brake at front axle input and wet multiple disc brake in front axle | | | Axle input on front axle | |

Parking brake

| | | | | | | |
|----------|--|---|--|--|----------------------------------|--|
| Type | | Negative brake system for wet multiple disc brake in front axle | | | Mechanically operated drum brake | |
| Location | | Front axle | | | Axle input on front axle | |

● Standard ○ Optional □ Available – Not available

| TORION | | 956 SINUS | 644 SINUS | 537 SINUS | 639 | 535 |
|--------|--|-----------|-----------|-----------|-----|-----|
|--------|--|-----------|-----------|-----------|-----|-----|

SMART LOADING / electronics competence

| | | | | | | |
|----------------------------------|--|---|---|---|---|---|
| Automatic bucket return position | | ● | ○ | ○ | – | – |
| TELEMATICS | | – | – | – | ○ | ○ |

| TORION | | 956 SINUS | 644 SINUS | 537 SINUS |
|--------|--|-----------|-----------|-----------|
|--------|--|-----------|-----------|-----------|

Tyres⁶

| | | Vehicle width ⁷ | | |
|--|---|----------------------------|------|------|
| 550 / 65 R 25 Michelin XLD65 L3, industrial | m | 2.47 | – | – |
| 550 / 65 R 25 Bridgestone EM VTS L3, industrial | m | 2.47 | – | – |
| 17.5 R 25 Goodyear TL-3A+ L3, industrial | m | 2.38 | – | – |
| 17.5 R 25 Goodyear RT-3B L3, industrial | m | 2.38 | – | – |
| 17.5 R 25 Michelin XHA2 L3, industrial | m | 2.38 | – | – |
| 17.5 R 25 Michelin XTLA L2, industrial | m | 2.38 | – | – |
| 17.5 R 25 Bridgestone VUT L2, industrial | m | 2.36 | – | – |
| 17.5 R 25 Bridgestone EM VJT L3, industrial | m | 2.36 | – | – |
| 540 / 70 R 24 Michelin XMCL, AS | m | 2.45 | – | – |
| 405 / 70 R 20 Bridgestone VUT L2, industrial | m | – | 2.09 | 1.96 |
| 405 / 70 R 20 Mitas EM-01 155A2 / 143B L2, industrial | m | – | 2.09 | 1.96 |
| 405 / 70 R 20 Dunlop SPT9 155A2 / 143B L2, industrial | m | – | 2.08 | 1.95 |
| 400 / 70 R 20 Michelin XMCL 149A8 / 149B, AS | m | – | 2.09 | 1.96 |
| 405 / 70 R 18 Mitas EM-01 168A2 / 156B L2, industrial | m | – | 2.09 | 1.96 |
| 405 / 70 R 18 Dunlop SPT9 153A2 / 141B L2, industrial | m | – | 2.08 | 1.95 |
| 365 / 80 R 20 Firestone Duraforce UT 153A2 / 141B L2, industrial | m | – | 2.05 | 1.92 |
| 365 / 80 R 20 Dunlop SPT9 153A2 / 141B L2, industrial | m | – | – | 1.91 |
| 15.5 / 55 R18 Dunlop SPPG7 146A2 / 135B L2, industrial | m | – | 2.05 | 1.92 |
| 340 / 80 R 18 Firestone Duraforce UT 143A8, industrial | m | – | – | 1.90 |

| TORION | | 639 | 535 |
|--------|--|-----|-----|
|--------|--|-----|-----|

Tyres⁶

| | | Vehicle width ⁷ | |
|---|---|----------------------------|------|
| 15.5 / 55 R 18 Dunlop SPPG7 (L2), industrial | m | 1.76 | 1.76 |
| 365 / 70 R 18 Mitas EM-01 (L2), industrial | m | – | 1.76 |
| 365 / 70 R 18 Dunlop SPT9 (L2), industrial | m | – | 1.75 |
| 365 / 80 R 20 Dunlop SPT9 (L2), industrial | m | 1.75 | 1.75 |
| 365 / 80 R 20 Firestone Duraforce UT (L2), industrial | m | 1.76 | 1.76 |
| 365 / 80 R 20 Mitas EM-01 (L2), industrial | m | 1.76 | 1.76 |
| 365 / 80 R 20 Bridgestone VUT (L2), industrial | m | 1.75 | 1.75 |
| 400 / 70 R 20 Michelin XMCL, AS | m | 1.79 | 1.79 |
| 400 / 70 R 20 Michelin Bibload (L2), industrial | m | 1.78 | 1.78 |
| 400 / 70 R 20 Firestone Duraforce UT (L2), industrial | m | 1.78 | 1.78 |
| 400 / 70 R 20 Firestone R8000 UT, AS | m | 1.78 | 1.78 |
| 400 / 70 R 20 Trelleborg TH400 (L2), AS | m | 1.78 | 1.78 |
| 405 / 70 R 18 Dunlop SPT9 (L2), industrial | m | 1.78 | 1.78 |
| 405 / 70 R 18 Firestone Duraforce UT (L2), industrial | m | 1.79 | 1.79 |
| 405 / 70 R 18 Mitas EM-01 (L2), industrial | m | 1.79 | 1.79 |
| 405 / 70 R 20 Mitas EM-01 (L2), industrial | m | 1.79 | 1.79 |
| 405 / 70 R 20 Dunlop SPT9 (L2), industrial | m | 1.78 | 1.78 |
| 405 / 70 R 20 Bridgestone VUT (L2), industrial | m | 1.79 | 1.79 |

¹ The values shown vary according to tyres, earthmoving bucket (bucket capacity in accordance with ISO 7546, may be up to 10% more in practice, bucket filling level depends on type of material), kinematics variant, includes all lubricants, full fuel tank, ROPS/FOPS cab and driver. Tyre dimensions and supplementary equipment will affect the operating weight and tipping load.

² According to ISO 14397-1.

³ TORION 639 and 535 models according to Stage IIIB (Tier 4).

⁴ Depending on the tyre variant, the TORION 1914-1177 models are available for registration as self-propelled work machines with maximum top speed limitation to 20 km/h or 25 km/h.

⁵ Oscillation angle is limited according to tyre variant.

⁶ The values shown are indicative and may differ in practice.

⁷ Over tyres.

● Standard ○ Optional □ Available – Not available