



MRO



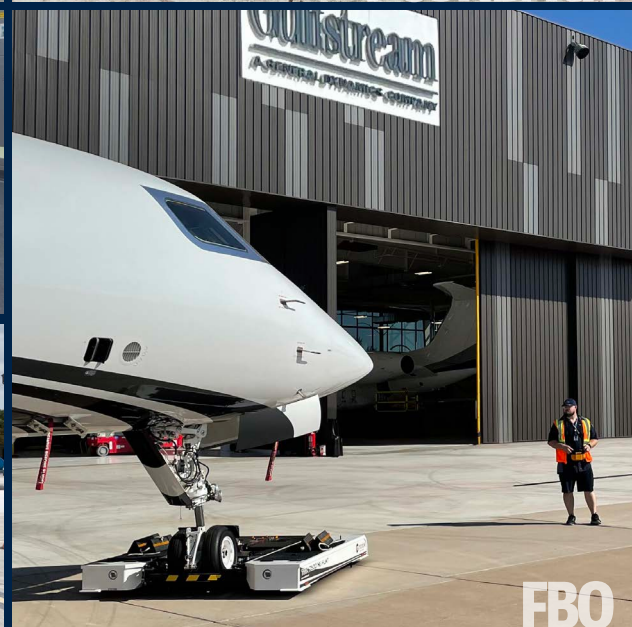
PUSHBACK



HELICOPTER



MILITARY



FBO

## Model Overview

# Improve Your Efficiency Significantly.

The Safest and Most Effective Way of Moving Aircraft Towbarless.

Electrify Your Ground Handling.



FULLY  
ELECTRIC DRIVE



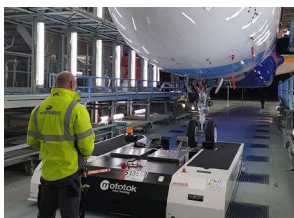
REMOTELY  
CONTROLLED



HANDS FREE LOADING  
WITH A TAP  
ON THE RC



HYDRAULIC AND SENSOR  
CONTROLLED PLATFORM



### SPACER 200



### SPACER 8600 MA



### SPACER 8600 NG



### TWIN 7500 NG Flat



### TWIN 7500 NG



|                                       |                                                        |                                                        |                                                       |                                                      |                                                      |
|---------------------------------------|--------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Field of Application                  | MRO/FBO                                                | MRO/FBO                                                | Pushback                                              | MRO/FBO, Helicopter                                  | MRO/FBO, Helicopter                                  |
| Towing Capacity                       | 200 t<br>440.900 lbs                                   | 80 t<br>176.400 lbs                                    | 105 t<br>231.486 lbs                                  | 75 t<br>165.300 lbs                                  | 75 t<br>165.300 lbs                                  |
| Nosewheel weight capacity             | 22 t<br>48.500 lbs                                     | 8 t<br>17.600 lbs                                      | 10 t<br>22.046 lbs                                    | 7,5 t<br>16.500 lbs                                  | 7,5 t<br>16.500 lbs                                  |
| Dimensions<br>width x length x height | 3.988 x 3.999 x 879 mm<br>157,01 x 157,44 x 34,61 inch | 2.610 x 3.305 x 553 mm<br>102,76 x 130,12 x 21,77 inch | 2.800 x 3.555 x 701 mm<br>110,24 x 139,96 x 27,6 inch | 2.136 x 2.596 x 324 mm<br>84,09 x 102,2 x 12,76 inch | 2.136 x 2.596 x 350 mm<br>84,09 x 102,2 x 13,78 inch |
| Ground clearance                      | 73 mm<br>2,87 inch                                     | 81 mm<br>3,19 inch                                     | 73 mm<br>2,87 inch                                    | 85 mm<br>3,35 inch                                   | 110 mm<br>4,33 inch                                  |
| Max Width of the Nosewheel            | 1.400 mm<br>55,12 inch                                 | 851 mm<br>33,5 inch                                    | 851 mm<br>33,5 inch                                   | 665 mm<br>26,18 inch                                 | 665 mm<br>26,18 inch                                 |
| Nosewheel Diameter                    | 650 – 1.200 mm<br>25,59 – 47,24 inch                   | 450 – 850 mm<br>17,72 – 33,46 inch                     | 640 – 850 mm<br>25,2 – 33,46 inch                     | 180 – 670 mm<br>7,09 – 26,38 inch                    | 180 – 670 mm<br>7,09 – 26,38 inch                    |
| Unladen weight                        | 13.000 kg<br>28.660 lbs                                | 5.400 kg<br>11.900 lbs                                 | 5.100 kg<br>11.244 lbs                                | 2.100 kg<br>4.600 lbs                                | 2.100 kg<br>4.600 lbs                                |
| Motor performance                     | 12 kw                                                  | 6,9 kw                                                 | –                                                     | 5 kw                                                 | 5 kw                                                 |
| Drive Wheel Width                     | –                                                      | –                                                      | 305 mm<br>12,01 inch                                  | 100 mm<br>3,94 inch                                  | 100 mm<br>3,94 inch                                  |
| Drive Wheel Diameter                  | –                                                      | –                                                      | 563 mm<br>22,17 inch                                  | 300 mm<br>11,81 inch                                 | 300 mm<br>11,81 inch                                 |
| Speed                                 | 1,11 m/s<br>4 km/h<br>2,49 mph                         | 1,5 m/s<br>5,4 km/h<br>3,36 mph                        | –                                                     | 1,05 m/s<br>3,78 km/h<br>2,35 mph                    | 1,05 m/s<br>3,78 km/h<br>2,35 mph                    |
| Batteries                             | 4 x 330 Ah                                             | 4 x 300 Ah                                             | 4 x 330 Ah                                            | 4 x 210 Ah                                           | 4 x 210 Ah                                           |
| Voltage                               | 96 V                                                   | 80 V                                                   | 96 V                                                  | 48 V                                                 | 48 V                                                 |
| Tyres                                 | puncture proof tyres                                   | puncture proof tyres                                   | puncture-proof super elastomer tyres                  | puncture proof tyres with quartz sand particles      | puncture proof tyres with quartz sand particles      |





### TWIN 6600 NG



### TWIN 6500 NG Flat



### TWIN 3900 NG



### T 7000



### M 528



|                                       |                                                      |                                                      |                                                      |                                                      |                                                      |
|---------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Field of Application                  | MRO/FBO, Helicopter                                  | MRO/FBO, Helicopter                                  | MRO/FBO, Helicopter                                  | Pushback                                             | MRO/FBO, Helicopter                                  |
| Towing Capacity                       | 55 t<br>121.200 lbs                                  | 50 t<br>110.200 lbs                                  | 39 t<br>86.000 lbs                                   | 75 t<br>165.300 lbs                                  | 28 t<br>61.700 lbs                                   |
| Nosewheel weight capacity             | 6 t<br>13.200 lbs                                    | 6 t<br>13.200 lbs                                    | 4,5 t<br>9.900 lbs                                   | 7,5 t<br>16.500 lbs                                  | 2 t<br>4.400 lbs                                     |
| Dimensions<br>width x length x height | 2.136 x 2.596 x 363 mm<br>84,09 x 102,2 x 14,29 inch | 2.136 x 2.596 x 324 mm<br>84,09 x 102,2 x 12,76 inch | 2.136 x 2.596 x 350 mm<br>84,09 x 102,2 x 13,78 inch | 2.136 x 2.596 x 350 mm<br>84,09 x 102,2 x 12,76 inch | 1.810 x 1.810 x 330 mm<br>71,26 x 71,26 x 12,99 inch |
| Ground clearance                      | 110 mm<br>4,33 inch                                  | 85 mm<br>3,35 inch                                   | 110 mm<br>4,33 inch                                  | 110 mm<br>4,33 inch                                  | 80 mm<br>3,15 inch                                   |
| Max Width of the Nosewheel            | 665 mm<br>26,18 inch                                 | 665 mm<br>26,18 inch                                 | 665 mm<br>26,18 inch                                 | 665 mm<br>26,18 inch                                 | 500 mm<br>19,69 inch                                 |
| Nosewheel Diameter                    | 180 – 670 mm<br>7,09 – 26,38 inch                    | 180 – 670 mm<br>7,09 – 26,38 inch                    | 180 – 670 mm<br>7,09 – 26,38 inch                    | 180 – 670 mm<br>7,09 – 26,38 inch                    | 150 – 500 mm<br>5,91 – 19,69 inch                    |
| Unladen weight                        | 1.700 kg<br>3.750 lbs                                | 1.700 kg<br>3.750 lbs                                | 1.700 kg<br>3.750 lbs                                | 2.100 kg<br>4.600 lbs                                | 1.000 kg<br>2.200 lbs                                |
| Motor performance                     | 3,2 kw                                               | 2,5 kw                                               | 2,5 kw                                               | 5 kw                                                 | 1,3 kw                                               |
| Drive Wheel Width                     | 130 mm<br>5,12 inch                                  | 100 mm<br>3,94 inch                                  | 100 mm<br>3,94 inch                                  | 100 mm<br>3,94 inch                                  | –                                                    |
| Drive Wheel Diameter                  | 350 mm<br>13,78 inch                                 | 300 mm<br>11,81 inch                                 | 300 mm<br>11,81 inch                                 | 300 mm<br>11,81 inch                                 | –                                                    |
| Speed                                 | 1,9 m/s<br>6,84 km/h<br>4,25 mph                     | 1,5 m/s<br>5,4 km/h<br>3,36 mph                      | 1,5 m/s<br>5,4 km/h<br>3,36 mph                      | 1,5 m/s<br>5,4 km/h<br>3,36 mph                      | 1,45 m/s<br>5,22 km/h<br>3,25 mph                    |
| Batteries                             | 4 x 210 Ah                                           | 4 x 210 Ah                                           | 4 x 210 Ah                                           | 4 x 210 Ah                                           | 4 x 115 Ah                                           |
| Voltage                               | 48 V                                                 | 48 V                                                 | 48 V                                                 | 48 V                                                 | 48 V                                                 |
| Tyres                                 | puncture proof tyres                                 | puncture proof tyres                                 | puncture proof tyres                                 | puncture proof tyres with<br>quartz sand particles   | puncture proof tyres                                 |





### M 515

### LB 7500 NG Flat

### LB 7500 NG

### LB 6600 NG

### LB 6500 NG Flat



|                                       |                                                      |                                                      |                                                      |                                                      |                                                      |
|---------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Field of Application                  | MRO/FBO, Helicopter                                  | Military, Helicopter                                 | Military, Helicopter                                 | Military, Helicopter                                 | Military, Helicopter                                 |
| Towing Capacity                       | 15 t<br>33.000 lbs                                   | 75 t<br>165.300 lbs                                  | 75 t<br>165.300 lbs                                  | 55 t<br>121.200 lbs                                  | 50 t<br>110.200 lbs                                  |
| Nosewheel weight capacity             | 1,5 t<br>3.300 lbs                                   | 6,5 t<br>14.330 lbs                                  | 6,5 t<br>14.330 lbs                                  | 6 t<br>13.200 lbs                                    | 6 t<br>13.200 lbs                                    |
| Dimensions<br>width x length x height | 1.810 x 1.810 x 330 mm<br>71,26 x 71,26 x 12,99 inch | 2,136 x 2,596 x 324 mm<br>84,09 x 102,2 x 12,76 inch | 2,136 x 2,596 x 350 mm<br>84,09 x 102,2 x 13,78 inch | 2,136 x 2,596 x 363 mm<br>84,09 x 102,2 x 14,29 inch | 2,136 x 2,596 x 324 mm<br>84,09 x 102,2 x 12,76 inch |
| Ground clearance                      | 80 mm<br>3,15 inch                                   | 85 mm<br>3,35 inch                                   | 110 mm<br>4,33 inch                                  | 110 mm<br>4,33 inch                                  | 85 mm<br>3,35 inch                                   |
| Max Width of the Nosewheel            | 500 mm<br>19,69 inch                                 | 665 mm<br>26,18 inch                                 | 665 mm<br>26,18 inch                                 | 665 mm<br>26,18 inch                                 | 665 mm<br>26,18 inch                                 |
| Nosewheel Diameter                    | 150 – 500 mm<br>5,91 – 19,69 inch                    | 180 – 670 mm<br>7,09 – 26,38 inch                    | 180 – 670 mm<br>7,09 – 26,38 inch                    | 180 – 670 mm<br>7,09 – 26,38 inch                    | 180 – 670 mm<br>7,09 – 26,38 inch                    |
| Unladen weight                        | 900 kg<br>1.980 lbs                                  | 2.100 kg<br>4.600 lbs                                | 2.100 kg<br>4.600 lbs                                | 1.700 kg<br>3.750 lbs                                | 1.700 kg<br>3.750 lbs                                |
| Motor performance                     | 1,3 kw                                               | 5 kw                                                 | 5 kw                                                 | 3,2 kw                                               | 2,5 kw                                               |
| Drive Wheel Width                     | –                                                    | 100 mm<br>3,94 inch                                  | 100 mm<br>3,94 inch                                  | 130 mm<br>5,12 inch                                  | 100 mm<br>3,94 inch                                  |
| Drive Wheel Diameter                  | –                                                    | 300 mm<br>11,81 inch                                 | 300 mm<br>11,81 inch                                 | 350 mm<br>13,78 inch                                 | 300 mm<br>11,81 inch                                 |
| Speed                                 | 1,45 m/s<br>5,22 km/h<br>3,25 mph                    | 1,05 m/s<br>3,78 km/h<br>2,35 mph                    | 1,05 m/s<br>3,78 km/h<br>2,35 mph                    | 1,9 m/s<br>6,84 km/h<br>4,25 mph                     | 1,5 m/s<br>5,4 km/h<br>3,36 mph                      |
| Batteries                             | 4 x 115 Ah                                           | 4 x 210 Ah                                           | 4 x 210 Ah                                           | 4 x 210 Ah                                           | 4 x 210 Ah                                           |
| Voltage                               | 48 V                                                 | 48 V                                                 | 48 V                                                 | 48 V                                                 | 48 V                                                 |
| Tyres                                 | puncture proof tyres                                 | puncture proof tyres with<br>quartz sand particles   | puncture proof tyres with<br>quartz sand particles   | puncture proof tyres                                 | puncture proof tyres                                 |





### LB 3900 NG



### LB 528



### LB 9500



### WIDE 14



### Alligator 4000



|                                       |                                                      |                                                    |                                                       |                                                       |                                                      |
|---------------------------------------|------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|------------------------------------------------------|
| Field of Application                  | Military, Helicopter                                 | Military, Helicopter                               | Military                                              | Military                                              | Helicopter                                           |
| Towing Capacity                       | 39 t<br>86.000 lbs                                   | 28 t<br>61.700 lbs                                 | 86 t<br>190.000 lbs                                   | 75 t<br>165.300 lbs                                   | 50 t<br>110.231 lbs                                  |
| Nosewheel weight capacity             | 4,5 t<br>9.900 lbs                                   | 2 t<br>4.400 lbs                                   | 11,8 t<br>26.000 lbs                                  | 7 t<br>15.430 lbs                                     | 3,5 t<br>7.720 lbs                                   |
| Dimensions<br>width x length x height | 2,136 x 2,596 x 350 mm<br>84,09 x 102,2 x 13,78 inch | 1,81 x 1,81 x 330 mm<br>71,26 x 71,26 x 12,99 inch | 2,577 x 2,029 x 639 mm<br>101,46 x 78,88 x 25,16 inch | 2,956 x 2,596 x 316 mm<br>116,38 x 102,2 x 12,44 inch | 2.812 x 2.505 x 320 mm<br>110,71 x 98,62 x 12,6 inch |
| Ground clearance                      | 110 mm<br>4,33 inch                                  | 80 mm<br>3,15 inch                                 | 78 mm<br>3,07 inch                                    | 95 mm<br>3,74 inch                                    | –                                                    |
| Max Width of the Nosewheel            | 665 mm<br>26,18 inch                                 | 500 mm<br>19,69 inch                               | 1.100 mm<br>43,31 inch                                | 1.425 mm<br>56,1 inch                                 | 800 mm<br>31,5 inch                                  |
| Nosewheel Diameter                    | 180 – 670 mm<br>7,09 – 26,38 inch                    | 150 – 500 mm<br>5,91 – 19,69 inch                  | 600 – 1.000 mm<br>23,62 – 39,37 inch                  | 180 – 670 mm<br>7,09 – 26,38 inch                     | 330 – 480 mm<br>12,99 – 18,9 inch                    |
| Unladen weight                        | 1.700 kg<br>3.750 lbs                                | 1.000 kg<br>2.200 lbs                              | –                                                     | 1.700 kg<br>3.750 lbs                                 | 2.300 kg<br>5.071 lbs                                |
| Motor performance                     | 2,5 kw                                               | 1,3 kw                                             | –                                                     | 5 kw                                                  | –                                                    |
| Drive Wheel Width                     | 100 mm<br>3,94 inch                                  | –                                                  | –                                                     | 100 mm<br>3,94 inch                                   | 100 mm<br>3,94 inch                                  |
| Drive Wheel Diameter                  | 300 mm<br>11,81 inch                                 | –                                                  | –                                                     | 300 mm<br>11,81 inch                                  | 300 mm<br>11,81 inch                                 |
| Speed                                 | 1,5 m/s<br>5,4 km/h<br>3,36 mph                      | 1,45 m/s<br>5,22 km/h<br>3,25 mph                  | –                                                     | 1,05 m/s<br>3,78 km/h<br>2,35 mph                     | 1,05 m/s<br>3,78 km/h<br>2,35 mph                    |
| Batteries                             | 4 x 210 Ah                                           | 4 x 115 Ah                                         | –                                                     | 4 x 210 Ah                                            | 4 x 210 Ah                                           |
| Voltage                               | 48 V                                                 | 48 V                                               | –                                                     | 48 V                                                  | 48 V                                                 |
| Tyres                                 | puncture proof tyres                                 | puncture proof tyres                               | puncture proof tyres                                  | puncture proof tyres with<br>quartz sand particles    | puncture proof tyres                                 |



Mototok was founded in 2003 by Kersten Eckert, avid aviator and creator of the Mototok, and his friend and partner Thilo Wiers-Keiser.

## FUELLED BY PASSION

The invention of our aircraft tugs is a deeply personal story that began with Kersten Eckert's first solo flight at 18. His growing aggravation about a process efficient-minded Eckert considered far from ideal: Maneuvering the aircraft while on the ground. You know the rigmarole: Waiting for the machine being laboriously transported out of the hangar, depending on having two or even three people available to watch his wings and fuselage, needing a pilot to sit inside the aircraft ready to brake if needed ...Eckert became determined on finding not only a better, but the perfect way in terms of space, speed, and effort.

## CREATING THE PERFECT PRODUCT

Mototok has achieved market leadership in the segment of compact, towbarless, remote-controlled and battery-powered tugs through excellent quality, ease of use and high safety standards.

In the meantime, more than 1,500 units of all sizes are in use worldwide. Since 2017, Mototoks have already completed over 1,000,000 pushbacks with 28 Units at Heathrow Airport, Terminal 5A alone – a huge advantage for the local operator British Airways, which says it has been able to significantly reduce delays by up to 70%.

Due to this high level of experience, more and more aircraft manufacturers are turning to Mototok tugs.

Hydraulic control and monitoring via a multitude of sensors, combined with connectivity to the Mototok Cloud and associated remote maintenance, make Mototok Tugs truly unique in the market.

Learn more about Mototok at [www.mototok.com](http://www.mototok.com).

These aircraft manufacturers, among others, trust Mototok in their subsidiaries all over the world:

**AIRBUS**

Hamburg / Toulouse

**BOMBARDIER**

the evolution of mobility

Montreal, Singapore, Berlin

 **DASSAULT**  
AVIATION

Merignac, France /  
Little Rock, Arkansas, US

**LOCKHEED MARTIN** 

for F35, CH-53K, Blackhawk UH-60  
and Seahawk SH-60

 **EMBRAER**

Brasil

**Gulfstream**

at 5 sites in the US

 **PILATUS** 

Switzerland

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 **mototok**  
easy moving