

# ELECTRIC COUNTERBALANCE FORKLIFT

ML-MK SERIES

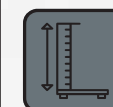


MACHLION

PRODUCT CATALOGUE



Load Capacity  
1,500–4,000 kg



Max. Lifting Height  
7,000 mm



Mast  
Duplex or Triplex



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# FOUR-WHEEL ELECTRIC COUNTERBALANCE FORKLIFT

## ML-MK SERIES

The second generation of the MACHLION ML-MK series counterbalanced forklift is available in high, medium and standard versions. It is designed to improve overall performance, including driving speed, lifting speed, climbing ability, passability, energy saving, noise reduction, etc. 1.5 tons to 4.0 tons electric counterbalanced forklifts all feature full AC motor technology, high power motors, and larger batteries, which can meet the needs of different usage scenarios. The perfect ergonomic design will bring users a new driving experience.

## PERFORMANCE

The drive motor adopts an advanced horizontal parallel arrangement, with the battery sinking to the bottom of the vehicle. It has a low center of gravity, good stability, and excellent turning smoothness and driving control comfort.

Adopting a new concept and novel streamlined appearance design, the visual effect is improved. The vehicle is compact and simple in appearance, strong and reliable.

LED headlights, turn signals, and warning lights are low in energy consumption, safe and reliable, and provide good lighting and warning for night operations.

## COMFORT

Scientific ergonomically designed steering wheel and the seat is adjustable front and rear, providing the operator with the best driving position to choose.

The wide field of vision mast design, which is not easy to block the line of sight and provides the operator with a broad field of vision.

The new large-screen LED instrument has power display, timing and fault diagnosis functions. The human-computer interactive interface is simple and easy to understand, has excellent visibility, beautiful, elegant, and intuitive.



## SAFETY

The automatic ascending&descending speed limit and descending buffer functions effectively ensure the safety of the operation, while ensuring that the goods and pallets do not impact the ground, effectively protecting the goods and the ground.

Equipped with an active driver presence safety monitoring OPS system, the operation safety is effectively improved.

The functions such as reverse braking and anti-slipping on slopes, making it safe and reliable.



## INNOVATION

The internationally advanced MOSFET AC controller system enables the forklift's walking, steering, lifting, tilting and other actions to be controlled by computer programs.

The high-frequency MOSFET integrated controller ensures smooth and accurate driving, lifting control and excellent speed regulation performance.

Excellent motor-electronic control matching performance, with regenerative braking and regenerative energy (when the forklift is decelerating and going downhill, the drive motor is converted into a generator, and the battery is reverse-charged through the controller, which is energy-saving and efficient).



## EFFICIENCY

The ultra-low roof guard design can meet the requirements of operating in ordinary containers and in highly limited space conditions.

The hydraulic system is equipped with side shifter to adjustment operations, which effectively improves operational convenience and thus improves working efficiency.

## MAINTENANCE

The AC motor is maintenance-free, with no maintenance costs such as replacing carbon brushes. The AC power system has high efficiency, complete protection functions, built-in speed sensor, temperature sensor, high reliability and long life.

The battery is designed with side access, making it easy to replace and maintain the battery.



SPECIFICATION

|                                                     |           |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
|-----------------------------------------------------|-----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Model                                               |           | ML-MK15                          | ML-MK15                          | ML-MK20                          | ML-MK25                          | ML-MK20                          | ML-MK25                          | ML-MK30                          |
| Technical code                                      |           | ML-2MK15M                        | ML-2MK15S                        | ML-2MK20M                        | ML-2MK25M                        | ML-2MK20S                        | ML-2MK25S                        | ML-2MK30M                        |
| Power type                                          |           | Battery                          | Battery                          | Battery                          | Battery                          | Battery                          | Battery                          | Battery                          |
| Operation                                           |           | Seated                           | Seated                           | Seated                           | Seated                           | Seated                           | Seated                           | Seated                           |
| Load capacity                                       | Q(kg)     | 1500                             | 1500                             | 2000                             | 2500                             | 2000                             | 2500                             | 3000                             |
| Load center distance                                | C(mm)     | 500                              | 500                              | 500                              | 500                              | 500                              | 500                              | 500                              |
| Front overhang                                      | x(mm)     | 402                              | 402                              | 450                              | 450                              | 450                              | 450                              | 462                              |
| Wheelbase                                           | y(mm)     | 1500                             | 1500                             | 1650                             | 1650                             | 1650                             | 1650                             | 1750                             |
| Tyre type                                           |           | Pneumatic                        | Pneumatic                        | Pneumatic                        | Pneumatic                        | Pneumatic                        | Pneumatic                        | Pneumatic                        |
| Tyre size, front                                    |           | 6.50-10-10PR                     | 6.50-10-10PR                     | 7.00-12-14PR                     | 7.00-12-14PR                     | 7.00-12-14PR                     | 7.00-12-14PR                     | 28×9-15-14PR                     |
| Tyre size, rear                                     |           | 16×6-8-10PR                      | 16×6-8-10PR                      | 18×7-8-14PR                      | 18×7-8-14PR                      | 18×7-8-14PR                      | 18×7-8-14PR                      | 18×7-8-14PR                      |
| Wheels,number front/rear (X=driven)                 |           | 2X/2                             | 2X/2                             | 2X/2                             | 2X/2                             | 2X/2                             | 2X/2                             | 2X/2                             |
| Track width, front                                  | b10(mm)   | 950                              | 950                              | 970                              | 970                              | 970                              | 970                              | 1040                             |
| Track width, rear                                   | b11(mm)   | 900                              | 900                              | 960                              | 960                              | 960                              | 960                              | 990                              |
| Mast tilt angle front/rear                          | α/β(°)    | 6/10                             | 6/10                             | 6/10                             | 6/10                             | 6/10                             | 6/10                             | 6/10                             |
| Mast Closed height                                  | h1(mm)    | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  |
| Free Lift height                                    | h2(mm)    | 145                              | 145                              | 150                              | 150                              | 150                              | 150                              | 155                              |
| lifting height                                      | h3(mm)    | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             |
| Mast extended height                                | h4(mm)    | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  |
| Overhead guard height                               | h6(mm)    | 2125                             | 2125                             | 2150                             | 2150                             | 2150                             | 2150                             | 2180                             |
| Seat index point height                             | h7(mm)    | 1100                             | 1100                             | 1130                             | 1130                             | 1130                             | 1130                             | 1135                             |
| Towing pin height                                   | h10(mm)   | 260                              | 260                              | 250                              | 250                              | 250                              | 250                              | 330                              |
| Overall length                                      | L1(mm)    | 3297                             | 3297                             | 3500                             | 3500                             | 3500                             | 3500                             | 3617                             |
| Body to fork surface length                         | L2(mm)    | 2227                             | 2227                             | 2430                             | 2430                             | 2430                             | 2430                             | 2547                             |
| Overall width                                       | b1/b2(mm) | 1120                             | 1120                             | 1160/1140                        | 1160/1140                        | 1160/1140                        | 1160/1140                        | 1260/1240                        |
| Fork dimensions                                     | l/e/s(mm) | 1070/100/35                      | 1070/100/35                      | 1070/122/40                      | 1070/122/40                      | 1070/122/40                      | 1070/122/40                      | 1070/125/45                      |
| Installation level (ISO2328)                        |           | 2A                               | 2A                               | 2A                               | 2A                               | 2A                               | 2A                               | 3A                               |
| Fork carriage width                                 | b3(mm)    | 1040                             | 1040                             | 1040                             | 1040                             | 1040                             | 1040                             | 1100                             |
| Fork outside spread                                 | b5(mm)    | 1040~200                         | 1040~200                         | 1000~244                         | 1000~244                         | 1000~244                         | 1000~244                         | 1050~250                         |
| Ground clearance below mast, laden                  | m1(mm)    | 100                              | 100                              | 120                              | 120                              | 120                              | 120                              | 130                              |
| Ground clearance,body                               | m2(mm)    | 110                              | 110                              | 125                              | 125                              | 125                              | 125                              | 135                              |
| Aisle width with pallet 1000*1200mm, C=500mm        | mm        | 3595                             | 3595                             | 3754                             | 3754                             | 3754                             | 3754                             | 3884                             |
| Aisle width with pallet 800*1200mm, C=600mm         | mm        | 3790                             | 3790                             | 3950                             | 3950                             | 3950                             | 3950                             | 4082                             |
| More aisle width                                    | mm        | Refer to the aisle specification | Refer to the aisle specification | Refer to the aisle specification | Refer to the aisle specification | Refer to the aisle specification | Refer to the aisle specification | Refer to the aisle specification |
| Turning radius                                      | Wa(mm)    | 1940                             | 1940                             | 2100                             | 2100                             | 2100                             | 2100                             | 2220                             |
| Travelling speed, laden/unladen                     | km/h      | 14.5/15                          | 14.5/15                          | 14.5/15                          | 14.5/15                          | 14.5/15                          | 14.5/15                          | 15/15                            |
| Lift speed, laden/unladen                           | mm/s      | 365/440                          | 365/440                          | 290/440                          | 290/440                          | 290/440                          | 290/440                          | 290/440                          |
| Lowering speed, laden/unladen                       | mm/s      | 400/400                          | 400/400                          | 400/400                          | 400/400                          | 400/400                          | 400/400                          | 400/400                          |
| Maximum traction force, laden/unladen               | N         | 11000                            | 11000                            | 14000                            | 14000                            | 14000                            | 14000                            | 17000                            |
| Gradeability, laden/unladen (S2-2min)               | %         | 15/25                            | 15/25                            | 17/26                            | 15/25                            | 17/26                            | 15/25                            | 17/26                            |
| Service brake                                       |           | Hydraulic                        | Hydraulic                        | Hydraulic                        | Hydraulic                        | Hydraulic                        | Hydraulic                        | Hydraulic                        |
| Parking brake                                       |           | Mechanical                       | Mechanical                       | Mechanical                       | Mechanical                       | Mechanical                       | Mechanical                       | Mechanical                       |
| Drive motor, rating S2=60                           | kw        | AC8                              | AC8                              | AC11                             | AC11                             | AC11                             | AC11                             | AC15                             |
| Lift motor, rating S3=15%                           | kw        | AC10.6                           | AC10.6                           | AC12                             | AC12                             | AC12                             | AC12                             | AC16                             |
| Lead-acid battery voltage/nominal capacity,standard | V/Ah      | 48/480                           | 48/400                           | 48/600                           | 48/600                           | 48/500                           | 48/500                           | 80/500                           |
| Battery capacity, optional                          | V/Ah      | 48/400                           | 48/480                           | 48/500                           | 48/500                           | 48/600                           | 48/600                           | 80/400                           |
| Maximum battery capacity of the side pull model     | V/Ah      | 48/480                           | 48/480                           | 48/600                           | 48/600                           | 48/600                           | 48/600                           | 80/400                           |
| Lead acid battery weight                            | kg        | 760                              | 700                              | 920                              | 920                              | 820                              | 820                              | 1320                             |
| Lithium battery voltage/ nominal capacity, standard | V/Ah      | 51.2/230                         | 51.2/230                         | 48/300                           | 48/300                           | 48/300                           | 48/300                           | 80/300                           |
| Lithium battery voltage/ nominal capacity, optional | V/Ah      | 48/300、410、460                   | 48/300、410、460                   | 48/410、460                       | 48/410、460                       | 48/410、460                       | 48/410、460                       | 80/410、600                       |
| Lithium battery weight,standard                     | kg        | 110                              | 110                              | 127                              | 127                              | 127                              | 127                              | 173                              |
| Hydraulic system pressure                           | Mpa       | 21.5                             | 21.5                             | 21.5                             | 21.5                             | 21.5                             | 21.5                             | 21.5                             |
| Controller brand                                    |           | Inmotion                         | Santroll                         | Inmotion                         | Inmotion                         | Santroll                         | Santroll                         | Curtis                           |

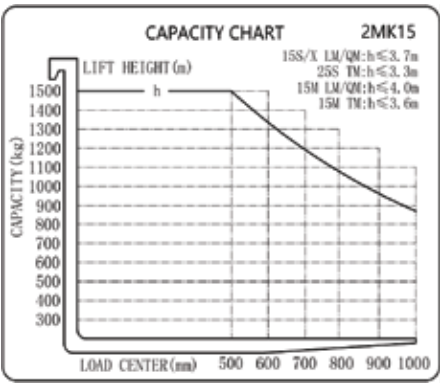
SPECIFICATION

|                                                  |           |                                  |                                  |                                  |                                  |                                  |                                  |                                  |
|--------------------------------------------------|-----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Model                                            |           | ML-MK35                          | ML-MK30                          | ML-MK35                          | ML-MK38                          | ML-MK38                          | ML-MK40                          | ML-MK40                          |
| Technical code                                   |           | ML-2MK35M                        | ML-2MK30S                        | ML-2MK35S                        | ML-2MK38M                        | ML-2MK38S                        | ML-2MK40M                        | ML-2MK40S                        |
| Power type                                       |           | Battery                          | Battery                          | Battery                          | Battery                          | Battery                          | Battery                          | Battery                          |
| Operation                                        |           | Seated                           | Seated                           | Seated                           | Seated                           | Seated                           | Seated                           | Seated                           |
| Load capacity                                    | Q(kg)     | 3500                             | 3000                             | 3500                             | 4000                             | 4000                             | 4000                             | 4000                             |
| Load center distance                             | C(mm)     | 500                              | 500                              | 500                              | 500                              | 500                              | 500                              | 500                              |
| Front overhang                                   | x(mm)     | 467                              | 462                              | 467                              | 467                              | 467                              | 467                              | 467                              |
| Wheelbase                                        | y(mm)     | 1750                             | 1750                             | 1750                             | 1750                             | 1750                             | 1750                             | 1750                             |
| Tyre type                                        |           | Pneumatic                        | Pneumatic                        | Pneumatic                        | Solid rubber                     | Solid rubber                     | Solid rubber                     | Solid rubber                     |
| Tyre size, front                                 |           | 28×9-15-14PR                     | 28×9-15-14PR                     | 28×9-15-14PR                     | 28×9-15                          | 28×9-15                          | 28×9-15                          | 28×9-15                          |
| Tyre size, rear                                  |           | 18×7-8-14PR                      | 18×7-8-14PR                      | 18×7-8-14PR                      | 18×7-8                           | 18×7-8                           | 18×7-8                           | 18×7-8                           |
| Wheels,number front/rear (X=driven)              |           | 2X/2                             | 2X/2                             | 2X/2                             | 2X/2                             | 2X/2                             | 2X/2                             | 2X/2                             |
| Track width, front                               | b10(mm)   | 1040                             | 1040                             | 1040                             | 1040                             | 1040                             | 1040                             | 1040                             |
| Track width, rear                                | b11(mm)   | 990                              | 990                              | 990                              | 990                              | 990                              | 990                              | 990                              |
| Mast tilt angle front/rear                       | α/β(°)    | 6/10                             | 6/10                             | 6/10                             | 6/10                             | 6/10                             | 6/10                             | 6/10                             |
| Mast Closed height                               | h1(mm)    | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  |
| Free Lift height                                 | h2(mm)    | 160                              | 155                              | 160                              | 160                              | 160                              | 160                              | 160                              |
| lifting height                                   | h3(mm)    | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             | 3000                             |
| Mast extended height                             | h4(mm)    | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  | Refer to the mast specification  |
| Overhead guard height                            | h6(mm)    | 2180                             | 2180                             | 2180                             | 2180                             | 2180                             | 2180                             | 2180                             |
| Seat index point height                          | h7(mm)    | 1135                             | 1135                             | 1135                             | 1135                             | 1135                             | 1135                             | 1135                             |
| Towing pin height                                | h10(mm)   | 330                              | 330                              | 330                              | 330                              | 330                              | 330                              | 330                              |
| Overall length                                   | L1(mm)    | 3622                             | 3617                             | 3622                             | 3622                             | 3622                             | 3622                             | 3622                             |
| Body to fork surface length                      | L2(mm)    | 2552                             | 2547                             | 2552                             | 2552                             | 2552                             | 2552                             | 2552                             |
| Overall width                                    | b1/b2(mm) | 1260/1240                        | 1260/1240                        | 1260/1240                        | 1260/1240                        | 1260/1240                        | 1260/1240                        | 1260/1240                        |
| Fork dimensions                                  | l/e/s(mm) | 1070/125/50                      | 1070/125/45                      | 1070/125/50                      | 1070/150/50                      | 1070/150/50                      | 1070/150/50                      | 1070/150/50                      |
| Installation level (ISO2328)                     |           | 3A                               | 3A                               | 3A                               | 3A                               | 3A                               | 3A                               | 3A                               |
| Fork carriage width                              | b3(mm)    | 1100                             | 1100                             | 1100                             | 1100                             | 1100                             | 1100                             | 1100                             |
| Fork outside spread                              | b5(mm)    | 1050~250                         | 1050~250                         | 1050~250                         | 1075~355                         | 1075~355                         | 1075~355                         | 1075~355                         |
| Ground clearance below mast, laden               | m1(mm)    | 130                              | 130                              | 130                              | 130                              | 130                              | 130                              | 130                              |
| Ground clearance,body                            | m2(mm)    | 135                              | 135                              | 135                              | 135                              | 135                              | 135                              | 135                              |
| Aisle width with pallet 1000*1200mm, C=500mm     | mm        | 3889                             | 3884                             | 3889                             | 3889                             | 3889                             | 3889                             | 3889                             |
| Aisle width with pallet 800*1200mm, C=600mm      | mm        | 4087                             | 4082                             | 4087                             | 4087                             | 4087                             | 4087                             | 4087                             |
| More aisle width                                 | mm        | Refer to the aisle specification | Refer to the aisle specification | Refer to the aisle specification | Refer to the aisle specification | Refer to the aisle specification | Refer to the aisle specification | Refer to the aisle specification |
| Turning radius                                   | Wa(mm)    | 2220                             | 2220                             | 2220                             | 2220                             | 2220                             | 2220                             | 2220                             |
| Travelling speed, laden/unladen                  | km/h      | 14/15                            | 15/15                            | 14/15                            | 13/15                            | 12/13                            | 12/13                            | 12/13                            |
| Lift speed, laden/unladen                        | mm/s      | 280/440                          | 290/440                          | 280/440                          | 270/440                          | 250/400                          | 250/400                          | 250/400                          |
| Lowering speed, laden/unladen                    | mm/s      | 400/400                          | 400/400                          | 400/400                          | 400/400                          | 400/400                          | 400/400                          | 400/400                          |
| Maximum traction force, laden/unladen            | N         | 17000                            | 17000                            | 17000                            | 17000                            | 16000                            | 16000                            | 16000                            |
| Gradeability, laden/unladen (S2-2min)            | %         | 15/23                            | 12/13                            | 12/13                            | 15/20                            | 10/13                            | 10/13                            | 10/13                            |
| Service brake                                    |           | Hydraulic                        | Hydraulic                        | Hydraulic                        | Hydraulic                        | Hydraulic                        | Hydraulic                        | Hydraulic                        |
| Parking brake                                    |           | Mechanical                       | Mechanical                       | Mechanical                       | Mechanical                       | Mechanical                       | Mechanical                       | Mechanical                       |
| Drive motor, rating S2=60                        | kw        | AC15                             | AC15                             | AC15                             | AC15                             | AC15                             | AC15                             | AC15                             |
| Lift motor, rating S3=15%                        | kw        | AC16                             | AC16                             | AC16                             | AC16                             | AC16                             | AC16                             | AC16                             |
| Lead-acid battery voltage/nominal capacity,stan  | V/Ah      | 80/500                           | 80/400                           | 80/400                           | 80/500                           | 80/400                           | 80/400                           | 80/400                           |
| Battery capacity, optional                       | V/Ah      | 80/400                           | 80/500                           | 80/500                           | 80/400                           | 80/500                           | 80/500                           | 80/500                           |
| Maximum battery capacity of the side pull model  | V/Ah      | 80/400                           | 80/400                           | 80/400                           | 80/400                           | 80/400                           | 80/400                           | 80/400                           |
| Lead acid battery weight                         | kg        | 1320                             | 1120                             | 1120                             | 1320                             | 1120                             | 1120                             | 1120                             |
| Lithium battery voltage/ nominal capacity, stan  | V/Ah      | 80/300                           | 80/300                           | 80/300                           | 80/300                           | 80/300                           | 80/300                           | 80/300                           |
| Lithium battery voltage/ nominal capacity, optio | V/Ah      | 80/410、600                       | 80/410、600                       | 80/410、600                       | 80/410、600                       | 80/410、600                       | 80/410、600                       | 80/410、600                       |
| Lithium battery weight,standard                  | kg        | 173                              | 173                              | 173                              | 173                              | 173                              | 173                              | 173                              |
| Hydraulic system pressure                        | Mpa       | 21.5                             | 21.5                             | 21.5                             | 21.5                             | 21.5                             | 21.5                             | 21.5                             |
| Controller brand                                 |           | Curtis                           | Santroll                         | Santroll                         | Curtis                           | Santroll                         | Curtis                           | Santroll                         |

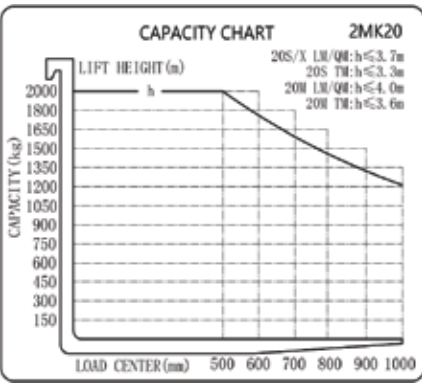
MAST SPECIFICATION

|                        |        | Model: ML-MK15 |                    |                      |                                                   |        | Model: ML-MK20-25 |                    |                      |                                                   |       | Model: ML-MK30-40 |                    |                      |                                                   |      |      |      |      |
|------------------------|--------|----------------|--------------------|----------------------|---------------------------------------------------|--------|-------------------|--------------------|----------------------|---------------------------------------------------|-------|-------------------|--------------------|----------------------|---------------------------------------------------|------|------|------|------|
| Type                   | Model  | Lifting height | Mast closed height | Mast extended height | Free lifting height (with standard load backrest) | Model  | Lifting height    | Mast closed height | Mast extended height | Free lifting height (with standard load backrest) | Model | Lifting height    | Mast closed height | Mast extended height | Free lifting height (with standard load backrest) |      |      |      |      |
|                        |        | mm             |                    |                      |                                                   |        | mm                |                    |                      |                                                   |       | mm                |                    |                      |                                                   |      |      |      |      |
|                        | Model> |                |                    |                      | 15                                                | Model> |                   |                    |                      | 20                                                | 25    | Model>            |                    |                      |                                                   | 30   | 35   | 38   | 40   |
| Duplex mast            | 60L    | 6000           | 3610               | 7060                 | 145                                               | 60L    | 6000              | 3630               | 7060                 | 150                                               | 150   | 60L               | 6000               | 3745                 | 7190                                              | 155  | 160  |      |      |
|                        | 55L    | 5500           | 3360               | 6560                 | 145                                               | 55L    | 5500              | 3380               | 6560                 | 150                                               | 150   | 55L               | 5500               | 3495                 | 6690                                              | 155  | 160  |      |      |
|                        | 50L    | 5000           | 3060               | 6060                 | 145                                               | 50L    | 5000              | 3080               | 6060                 | 150                                               | 150   | 50L               | 5000               | 3195                 | 6190                                              | 155  | 160  |      |      |
|                        | 45L    | 4500           | 2810               | 5560                 | 145                                               | 45L    | 4500              | 2830               | 5560                 | 150                                               | 150   | 45L               | 4500               | 2945                 | 5940                                              | 155  | 160  |      |      |
|                        | 40L    | 4000           | 2560               | 5060                 | 145                                               | 40L    | 4000              | 2580               | 5060                 | 150                                               | 150   | 40L               | 4000               | 2695                 | 5190                                              | 155  | 160  | 160  | 160  |
|                        | 37L    | 3700           | 2360               | 4760                 | 145                                               | 37L    | 3700              | 2380               | 4760                 | 150                                               | 150   | 37L               | 3700               | 2495                 | 4890                                              | 155  | 160  | 160  | 160  |
|                        | 35L    | 3500           | 2260               | 4560                 | 145                                               | 35L    | 3500              | 2280               | 4560                 | 150                                               | 150   | 35L               | 3500               | 2395                 | 4690                                              | 155  | 160  | 160  | 160  |
|                        | 33L    | 3300           | 2160               | 4360                 | 145                                               | 33L    | 3300              | 2180               | 4360                 | 150                                               | 150   | 33L               | 3300               | 2295                 | 4490                                              | 155  | 160  | 160  | 160  |
|                        | 30L    | 3000           | 2010               | 4060                 | 145                                               | 30L    | 3000              | 2030               | 4060                 | 150                                               | 150   | 30L               | 3000               | 2145                 | 4190                                              | 155  | 160  | 160  | 160  |
|                        | 27L    | 2700           | 1860               | 3760                 | 145                                               | 27L    | 2700              | 1880               | 3760                 | 150                                               | 150   | 27L               | 2700               | 1995                 | 3890                                              | 155  | 160  | 160  | 160  |
|                        | 25L    | 2500           | 1760               | 3560                 | 145                                               | 25L    | 2500              | 1780               | 3560                 | 150                                               | 150   | 25L               | 2500               | 1895                 | 3690                                              | 155  | 160  | 160  | 160  |
| Duplex full free mast  | 20L    | 2000           | 1510               | 3060                 | 145                                               | 20L    | 2000              | 1530               | 3060                 | 150                                               | 150   | 20L               | 2000               | 1645                 | 3190                                              | 155  | 160  | 160  | 160  |
|                        | 60Q    | 6000           | 3610               | 7060                 | 2545                                              | 60Q    | 6000              | 3630               | 7199                 | 2560                                              | 2560  | 60Q               | 6000               | 3745                 | 7199                                              | 2540 | 2545 |      |      |
|                        | 55Q    | 5500           | 3360               | 6560                 | 2295                                              | 55Q    | 5500              | 3380               | 6699                 | 2310                                              | 2310  | 55Q               | 5500               | 3495                 | 6699                                              | 2290 | 2295 |      |      |
|                        | 50Q    | 5000           | 3060               | 6060                 | 1995                                              | 50Q    | 5000              | 3080               | 6199                 | 2010                                              | 2010  | 50Q               | 5000               | 3195                 | 6199                                              | 1990 | 1995 |      |      |
|                        | 45Q    | 4500           | 2810               | 5560                 | 1745                                              | 45Q    | 4500              | 2830               | 5699                 | 1760                                              | 1760  | 45Q               | 4500               | 2945                 | 5699                                              | 1740 | 1745 |      |      |
|                        | 40Q    | 4000           | 2560               | 5060                 | 1495                                              | 40Q    | 4000              | 2580               | 5199                 | 1510                                              | 1510  | 40Q               | 4000               | 2695                 | 5199                                              | 1490 | 1495 | 1495 | 1495 |
|                        | 37Q    | 3700           | 2360               | 4760                 | 1295                                              | 37Q    | 3700              | 2380               | 4899                 | 1310                                              | 1310  | 37Q               | 3700               | 2495                 | 4899                                              | 1290 | 1295 | 1295 | 1295 |
|                        | 35Q    | 3500           | 2260               | 4560                 | 1195                                              | 35Q    | 3500              | 2280               | 4699                 | 1210                                              | 1210  | 35Q               | 3500               | 2395                 | 4699                                              | 1190 | 1195 | 1195 | 1195 |
|                        | 33Q    | 3300           | 2160               | 4360                 | 1095                                              | 33Q    | 3300              | 2180               | 4499                 | 1110                                              | 1110  | 33Q               | 3300               | 2295                 | 4499                                              | 1090 | 1095 | 1095 | 1095 |
|                        | 30Q    | 3000           | 2010               | 4060                 | 945                                               | 30Q    | 3000              | 2030               | 4199                 | 960                                               | 960   | 30Q               | 3000               | 2145                 | 4199                                              | 940  | 945  | 945  | 945  |
|                        | 27Q    | 2700           | 1860               | 3760                 | 795                                               | 27Q    | 2700              | 1880               | 3899                 | 810                                               | 810   | 27Q               | 2700               | 1995                 | 3899                                              | 790  | 795  | 795  | 795  |
| Triplex full free mast | 25Q    | 2500           | 1760               | 3560                 | 695                                               | 25Q    | 2500              | 1780               | 3699                 | 710                                               | 710   | 25Q               | 2500               | 1895                 | 3699                                              | 690  | 695  | 695  | 695  |
|                        | 20Q    | 2000           | 1510               | 3060                 | 445                                               | 20Q    | 2000              | 1530               | 3069                 | 460                                               | 460   | 20Q               | 2000               | 1645                 | 3199                                              | 440  | 445  | 445  | 445  |
|                        | 70T    | 7000           | 2943               | 8060                 | 1878                                              | 70T    | 7000              | 2963               | 8060                 | 1893                                              | 1893  | 70T               | 7000               | 3008                 | 8190                                              | 1803 | 1808 |      |      |
|                        | 68T    | 6800           | 2877               | 7860                 | 1812                                              | 68T    | 6800              | 2897               | 7860                 | 1827                                              | 1827  | 68T               | 6800               | 2942                 | 7990                                              | 1737 | 1742 |      |      |
|                        | 65T    | 6500           | 2777               | 7560                 | 1712                                              | 65T    | 6500              | 2797               | 7560                 | 1727                                              | 1727  | 65T               | 6500               | 2842                 | 7690                                              | 1637 | 1642 |      |      |
|                        | 63T    | 6300           | 2710               | 7360                 | 1645                                              | 63T    | 6300              | 2730               | 7360                 | 1660                                              | 1660  | 63T               | 6300               | 2775                 | 7490                                              | 1570 | 1575 |      |      |
|                        | 60T    | 6000           | 2610               | 7060                 | 1545                                              | 60T    | 6000              | 2630               | 7060                 | 1560                                              | 1560  | 60T               | 6000               | 2675                 | 7190                                              | 1470 | 1475 | 1475 | 1475 |
|                        | 55T    | 5500           | 2443               | 6560                 | 1378                                              | 55T    | 5500              | 2463               | 6560                 | 1393                                              | 1393  | 55T               | 5500               | 2508                 | 6690                                              | 1303 | 1308 | 1308 | 1308 |
|                        | 50T    | 5000           | 2277               | 6060                 | 1212                                              | 50T    | 5000              | 2297               | 6060                 | 1227                                              | 1227  | 50T               | 5000               | 2342                 | 6190                                              | 1137 | 1142 | 1142 | 1142 |
|                        | 48T    | 4800           | 2210               | 5860                 | 1145                                              | 48T    | 4800              | 2230               | 5860                 | 1160                                              | 1160  | 48T               | 4800               | 2275                 | 5990                                              | 1070 | 1075 | 1075 | 1075 |
|                        | 47T    | 4700           | 2177               | 5760                 | 1112                                              | 47T    | 4700              | 2197               | 5760                 | 1127                                              | 1127  | 47T               | 4700               | 2242                 | 5890                                              | 1037 | 1042 | 1042 | 1042 |

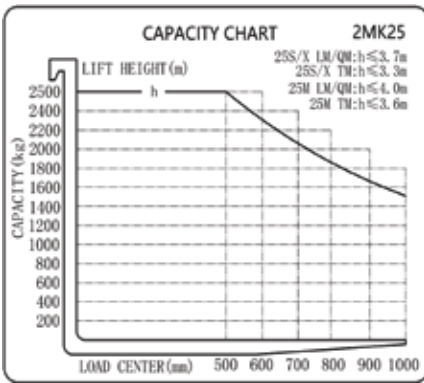
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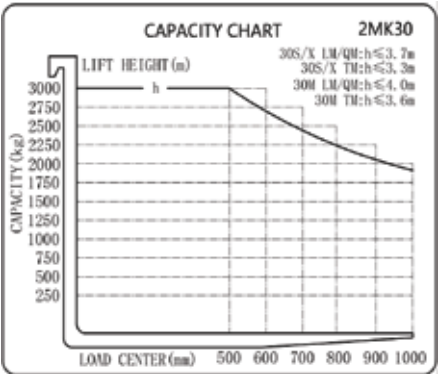
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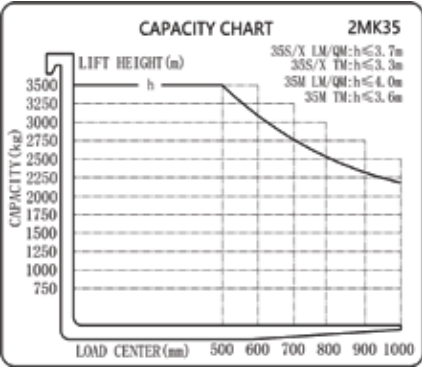
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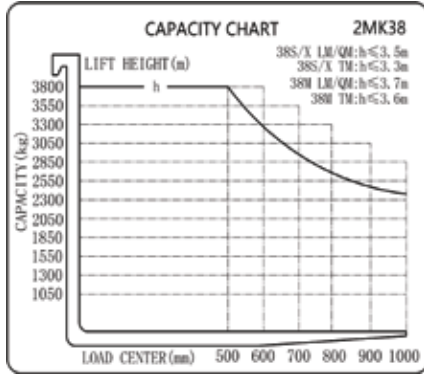
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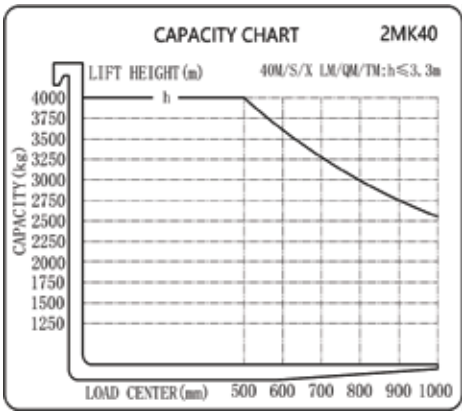
ML-MK30



ML-MK35



ML-MK38



ML-MK40

2D VIEW

