



# EP's Smart Intralogistics Solution Automated X-Movers

The 4th Generation of Material Handling

Green Handling Lift the Future



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V2503.02

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EP'S Smart  
Intralogistics Solution  
Automated X-Movers

The 4th Generation of  
Material Handling





X-Mover AMR Series



Jacking AMR

Stacking AMR

Thin back stacked AMR

Counter balance stacked AMR

Indoor forward-moving AMR

Outdoor forward-moving AMR

| Model |                          | ► XCD101                                         | ► XC1051 | ► XSG121 | ► XS1151 | ► XS1152 | ► XSC151 | ► XS206CA | ► XQE121 | ► XQE122 | ► XQE123 | ► XQS151 |
|-------|--------------------------|--------------------------------------------------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|----------|
| Scene | Workstation stacking     | Roller                                           |          | ●        | ●        | ●        | ●        | ●         | ●        | ●        | ●        |          |
|       |                          | Workstation up and down                          |          | ●        | ●        | ●        | ●        | ●         | ●        | ●        | ●        |          |
|       | Small item stacking      | Small material rack                              | ●        | ●        |          |          |          |           |          |          |          |          |
|       | Self assembling stacking | Palletising & stacking of goods                  |          |          | ●        | ●        | ●        |           | ●        | ●        | ●        | ●        |
|       |                          | wooden boxes stacking                            |          |          | ●        | ●        | ●        |           | ●        | ●        | ●        | ●        |
|       |                          | Specialised carrier packaging                    |          |          | ●        | ●        | ●        |           | ●        | ●        | ●        | ●        |
|       | Material cage stacking   | Storage cage stacking (wire frame)               |          |          |          |          | ●        |           | ●        | ●        | ●        |          |
|       |                          | Specialised cage stacking (RV7/8)                |          |          |          |          | ●        |           | ●        | ●        | ●        |          |
|       | Material rack stacking   | Removable shelf stacking (stacking pallets)      |          |          |          |          | ●        |           | ●        | ●        | ●        |          |
|       | Shelves stacking         | Conventional low-level shelving (<3m)            |          |          | ●        | ●        | ●        |           | ●        | ●        | ●        |          |
|       |                          | Conventional mid to high-level shelves (3m~8.5m) |          |          |          |          |          |           | ●        | ●        | ●        |          |
|       |                          | Conventional high-level shelves (3m~8.5m)        |          |          |          |          |          |           | ●        | ●        | ●        | ●        |
|       |                          | Narrow aisle shelving (low) 3m                   |          |          |          |          |          |           |          |          |          |          |
|       |                          | Narrow aisle racking (height) 13m                |          |          |          |          |          |           |          |          |          |          |

● Product application scenarios

01 Semi-automatic Series

The 4th Generation of  
Material Handling

XP15

Semi-automatic AMR

Product features

Navigated by vision with Auto&manual model

Connect by Bluetooth

Set by APP.



|                      |      |                                                             |          |      |                                            |
|----------------------|------|-------------------------------------------------------------|----------|------|--------------------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                                         |
|                      | 1.2  | Model designation                                           |          |      | XP15                                       |
|                      | 1.3  | Drive                                                       |          |      | Electric                                   |
|                      | 1.4  | Operator type                                               |          |      | Pedestrian                                 |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 1500                                       |
|                      | 1.6  | Service weight                                              |          | kg   | 325                                        |
|                      | 1.7  | Navigation                                                  |          |      | 2D Visual navigation                       |
|                      | 1.8  | Communication                                               |          |      | Bluetooth                                  |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±20                                        |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Indoor                                     |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 24/60                                      |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                             |
|                      | 2.3  | Battery weight                                              |          | kg   | 14                                         |
|                      | 2.4  | Usage time                                                  |          | h    | 4-5                                        |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 1703/820/1470 (L*W*H)                      |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 600                                        |
|                      | 3.3  | Load length                                                 | x        | mm   | 980                                        |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 1210                                       |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | 573                                        |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | 55/170/1150                                |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | 540/600/685                                |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | 90                                         |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 95                                         |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                          |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1/1.5                                      |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 5/10                                       |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤20                                        |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1570                                       |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | 1400                                       |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | 2300                                       |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | 2500                                       |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                                  |
|                      | 6.2  | Voice and light                                             |          |      | Voice                                      |
|                      | 6.3  | Front protection                                            |          |      | Top 180° Lidar + bottom 180° Lidar         |
|                      | 6.4  | Back protection                                             |          |      | Fork-tip photoelectricity                  |
|                      | 6.5  | Physical bumper                                             |          |      | Front + two sides                          |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | Frok root bottom                           |
| Option list          | 7.1  | Battery                                                     |          |      | ●24V/60Ah                                  |
|                      | 7.2  | Charger                                                     |          |      | ●24V-20A Manual                            |
|                      | 7.3  | Warning light                                               |          |      | ○Arc lamp ●Turn light ○Warning light       |
|                      | 7.4  | Front protection                                            |          |      | ●Top 180° Lidar + bottom 180° Lidar        |
|                      | 7.5  | Rear protection                                             |          |      | ●Fork-tip photoelectricity ○Fork-tip lidar |
|                      | 7.6  | Interaction method                                          |          |      | ●Screen ○Buttons                           |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box           |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | -                                          |
|                      | 8.2  | Communication                                               |          |      | -                                          |
|                      | 8.3  | Size                                                        |          | mm   | -                                          |
|                      | 8.4  | Charging power                                              |          |      | -                                          |

02 Semi-automatic Series

The 4th Generation of  
Material Handling

RPG201

Semi-automatic AMR

Product features

Navigated by vision with Auto&manual model

Connect by Bluetooth & High speed, heavy load

Set by APP



|                      |      |                                                             |          |      |                                            |
|----------------------|------|-------------------------------------------------------------|----------|------|--------------------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                                         |
|                      | 1.2  | Model designation                                           |          |      | RPG 201                                    |
|                      | 1.3  | Drive                                                       |          |      | Electric                                   |
|                      | 1.4  | Operator type                                               |          |      | Standing                                   |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 2000                                       |
|                      | 1.6  | Service weight                                              |          | kg   | 680                                        |
|                      | 1.7  | Navigation                                                  |          |      | 2D Visual navigation                       |
|                      | 1.8  | Communication                                               |          |      | Internal communication                     |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±20                                        |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Indoor                                     |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 24/150                                     |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                             |
|                      | 2.3  | Battery weight                                              |          | kg   | 50                                         |
|                      | 2.4  | Usage time                                                  |          | h    | 6-8                                        |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 1910/830/1690                              |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 600                                        |
|                      | 3.3  | Load length                                                 | x        | mm   | 980                                        |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 1428                                       |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | 777                                        |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | 55/170/1150                                |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | 540/600/685                                |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | 90                                         |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 110                                        |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                          |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1.5/2                                      |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 8/16                                       |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤20                                        |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1785                                       |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | 1400                                       |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | 2606                                       |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | 2906                                       |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                                  |
|                      | 6.2  | Voice and light                                             |          |      | Voice + Light warning                      |
|                      | 6.3  | Front protection                                            |          |      | Top 180° Lidar + Bottom 180° Lidar         |
|                      | 6.4  | Back protection                                             |          |      | Fork-tip photoelectricity                  |
|                      | 6.5  | Physical bumper                                             |          |      | Front + two sides                          |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | In-Place switch                            |
| Option list          | 7.1  | Battery                                                     |          |      | ●24V/150Ah ○24V/205Ah                      |
|                      | 7.2  | Charger                                                     |          |      | ●24V-50A Manual ○24V/100A Manual           |
|                      | 7.3  | Warning light                                               |          |      | ○Arc light ●Turn light ○Warning light      |
|                      | 7.4  | Front protection                                            |          |      | ●Top 180° Lidar + Bottom 180° Lidar        |
|                      | 7.5  | Rear protection                                             |          |      | ●Fork-tip photoelectricity ○Fork-tip lidar |
|                      | 7.6  | Interaction method                                          |          |      | ○Cell phone ●Keyboard.                     |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box           |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | -                                          |
|                      | 8.2  | Communication                                               |          |      | -                                          |
|                      | 8.3  | Size                                                        |          | mm   | -                                          |
|                      | 8.4  | Charging power                                              |          |      | -                                          |

03 Semi-automatic Series

The 4th Generation of  
Material Handling

EXP15

Minimalist semi-automatic AMR

Product features

Set up by keyboard(6 keys)

No network required



|                      |      |                                                             |          |      |                            |
|----------------------|------|-------------------------------------------------------------|----------|------|----------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                         |
|                      | 1.2  | Model designation                                           |          |      | EXP15                      |
|                      | 1.3  | Drive                                                       |          |      | Electric                   |
|                      | 1.4  | Operator type                                               |          |      | Pedestrian                 |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 1500                       |
|                      | 1.6  | Service weight                                              |          | kg   | 180                        |
|                      | 1.7  | Navigation                                                  |          |      | 2D Visual navigation       |
|                      | 1.8  | Communication                                               |          |      | Bluetooth                  |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±20                        |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Indoor                     |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 24/60                      |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery             |
|                      | 2.3  | Battery weight                                              |          | kg   | 14                         |
|                      | 2.4  | Usage time                                                  |          | h    | 3-4                        |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 1620/636(650)/1420         |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 600                        |
|                      | 3.3  | Load length                                                 | x        | mm   | 950                        |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 1120                       |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | 450                        |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | 55/150/1150                |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | 540/685                    |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | 82                         |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 90                         |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                          |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1.1/1.25                   |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 5/10                       |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤20                        |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1400                       |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | 1200                       |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | 1860                       |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | 1970                       |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                  |
|                      | 6.2  | Voice and light                                             |          |      | Voice warning              |
|                      | 6.3  | Front protection                                            |          |      | Top lidar + bottom lidar   |
|                      | 6.4  | Back protection                                             |          |      | Fork-tip photoelectricity  |
|                      | 6.5  | Physical bumper                                             |          |      | -                          |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | -                          |
| Option list          | 7.1  | Battery                                                     |          |      | ●24V/60Ah                  |
|                      | 7.2  | Charger                                                     |          |      | ●24V-20A Manual            |
|                      | 7.3  | Warning light                                               |          |      | ●Turn light ●Warning light |
|                      | 7.4  | Front protection                                            |          |      | Top lidar + bottom lidar   |
|                      | 7.5  | Rear protection                                             |          |      | Fork-tip photoelectricity  |
|                      | 7.6  | Interaction method                                          |          |      | Six-button interface       |
|                      | 7.7  | Docking with other devices                                  |          |      |                            |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | -                          |
|                      | 8.2  | Communication                                               |          |      | -                          |
|                      | 8.3  | Size                                                        |          | mm   | -                          |
|                      | 8.4  | Charging power                                              |          |      | -                          |

04 Semi-automatic Series

The 4th Generation of  
Material Handling

XP15 Mono Mast

Point-to-point semi-automatic AMR

Product features

Auto&manual mode

Set and learn by APP

Easy to use



|                      |      |                                                             |          |      |                                  |
|----------------------|------|-------------------------------------------------------------|----------|------|----------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                               |
|                      | 1.2  | Model designation                                           |          |      | XP15 Monomast                    |
|                      | 1.3  | Drive                                                       |          |      | Electric                         |
|                      | 1.4  | Operator type                                               |          |      | Pedestrian                       |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 1200                             |
|                      | 1.6  | Service weight                                              |          | kg   | 516                              |
|                      | 1.7  | Navigation                                                  |          |      | 2D Visual navigation             |
|                      | 1.8  | Communication                                               |          |      | Bluetooth                        |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±20                              |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Indoor                           |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 24/60                            |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                   |
|                      | 2.3  | Battery weight                                              |          | kg   | 14                               |
|                      | 2.4  | Usage time                                                  |          | h    | -                                |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 1943/842/1930                    |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 600                              |
|                      | 3.3  | Load length                                                 | x        | mm   | 980                              |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 1322                             |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | 723                              |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | 55/170/1070                      |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | 540/600                          |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | 90                               |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 1000                             |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1/1.5                            |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 4/8                              |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | -                                |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1666                             |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | 2410                             |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | -                                |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | -                                |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                        |
|                      | 6.2  | Voice and light                                             |          |      | Horn                             |
|                      | 6.3  | Front protection                                            |          |      | Lidar                            |
|                      | 6.4  | Back protection                                             |          |      | -                                |
|                      | 6.5  | Physical bumper                                             |          |      | Bumper                           |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | -                                |
| Option list          | 7.1  | Battery                                                     |          |      | ●24V/60Ah                        |
|                      | 7.2  | Charger                                                     |          |      | ●24V-20A Manual                  |
|                      | 7.3  | Warning light                                               |          |      | ●Turn light                      |
|                      | 7.4  | Front protection                                            |          |      | -                                |
|                      | 7.5  | Rear protection                                             |          |      | -                                |
|                      | 7.6  | Interaction method                                          |          |      | -                                |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | -                                |
|                      | 8.2  | Communication                                               |          |      | -                                |
|                      | 8.3  | Size                                                        |          | mm   | -                                |
|                      | 8.4  | Charging power                                              |          |      | -                                |



05 Jacking Series

XCD101  
Jacking AMR

Product features

Narrow channel point-to-point handling

Suitable for different types of equipment docking



XC1051

The 4th Generation of  
Material Handling

|                      |      |                                                             |          |      |                                    |
|----------------------|------|-------------------------------------------------------------|----------|------|------------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                                 |
|                      | 1.2  | Model designation                                           |          |      | XCD101                             |
|                      | 1.3  | Drive                                                       |          |      | Electric                           |
|                      | 1.4  | Operator type                                               |          |      | Pedestrian                         |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 1000                               |
|                      | 1.6  | Service weight                                              |          | kg   | 235                                |
|                      | 1.7  | Navigation                                                  |          |      | QR Code / Slam                     |
|                      | 1.8  | Communication                                               |          |      | Wi-Fi                              |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±10                                |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Indoor                             |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 48/40                              |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                     |
|                      | 2.3  | Battery weight                                              |          | kg   | 20                                 |
|                      | 2.4  | Usage time                                                  |          | h    | 8                                  |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 1185/815/250                       |
|                      | 3.2  | Load centre distance                                        | c        | mm   | -                                  |
|                      | 3.3  | Load length                                                 | x        | mm   | -                                  |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | -                                  |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | -                                  |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | -                                  |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | -                                  |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | -                                  |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 60                                 |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                  |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1.8/2                              |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 5/10                               |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤35                                |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 595                                |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | 1015                               |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | 1390                               |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | -                                  |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Front + back                       |
|                      | 6.2  | Voice and light                                             |          |      | Voice + light                      |
|                      | 6.3  | Front protection                                            |          |      | bottom 240° Lidar                  |
|                      | 6.4  | Back protection                                             |          |      | Sonication                         |
|                      | 6.5  | Physical bumper                                             |          |      | Front + back                       |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | -                                  |
| Option list          | 7.1  | Battery                                                     |          |      | ●48V/40Ah                          |
|                      | 7.2  | Charger                                                     |          |      | -                                  |
|                      | 7.3  | Warning light                                               |          |      | -                                  |
|                      | 7.4  | Front protection                                            |          |      | 2D Lidar(different brand optional) |
|                      | 7.5  | Rear protection                                             |          |      | 2D Lidar(different brand optional) |
|                      | 7.6  | Interaction method                                          |          |      | -                                  |
| Auto-charge          | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box   |
|                      | 8.1  | Rated input power (50Hz)                                    |          |      | Single-phase 220V                  |
|                      | 8.2  | Communication                                               |          |      | CAN (Support customization)        |
|                      | 8.3  | Size                                                        |          | mm   | 546×561×223                        |
|                      | 8.4  | Charging power                                              |          |      | ●48V/20A                           |

06 Intelligent Handling Series



XP1151



XP1152

Point-to-point intelligent AMR

Product features

Automatic charging

Cross-floor and long-distance handling



XP1153

The 4th Generation of  
Material Handling

|                      |      |                                                             |          |      |                                                             |
|----------------------|------|-------------------------------------------------------------|----------|------|-------------------------------------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                                                          |
|                      | 1.2  | Model designation                                           |          |      | XP1152                                                      |
|                      | 1.3  | Drive                                                       |          |      | Electric                                                    |
|                      | 1.4  | Operator type                                               |          |      | Pedestrian                                                  |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 1500                                                        |
|                      | 1.6  | Service weight                                              |          | kg   | 350                                                         |
|                      | 1.7  | Navigation                                                  |          |      | Slam/Reflector                                              |
|                      | 1.8  | Communication                                               |          |      | Wi-fi + 5G                                                  |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±10                                                         |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Indoor                                                      |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 24/100                                                      |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                                              |
|                      | 2.3  | Battery weight                                              |          | kg   | 30                                                          |
|                      | 2.4  | Usage time                                                  |          | h    | 7-8                                                         |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 1610/824/2120 (L*W*H)                                       |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 600                                                         |
|                      | 3.3  | Load length                                                 | x        | mm   | 980                                                         |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 1210                                                        |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | 465                                                         |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | 55/170/1150                                                 |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | 540/600/685                                                 |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | 90                                                          |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 110                                                         |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                                           |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1/1.5                                                       |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 5/10                                                        |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤20                                                         |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1500                                                        |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | 1200                                                        |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | 2200                                                        |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | 2400                                                        |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                                                   |
|                      | 6.2  | Voice and light                                             |          |      | Voice + Blue light                                          |
|                      | 6.3  | Front protection                                            |          |      | Top 180° lidar + 3D camera                                  |
|                      | 6.4  | Back protection                                             |          |      | Fork tip photoelectricity                                   |
|                      | 6.5  | Physical bumper                                             |          |      | Front + two sides                                           |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | Fork root bottom                                            |
| Option list          | 7.1  | Battery                                                     |          |      | ●24V/100Ah                                                  |
|                      | 7.2  | Charger                                                     |          |      | ●24V-50A Manual                                             |
|                      | 7.3  | Warning light                                               |          |      | ●Blue light ●Turn light ○Warning light                      |
|                      | 7.4  | Front protection                                            |          |      | ●Single lidar,180° ○Double lidar,270° ●3D Camera            |
|                      | 7.5  | Rear protection                                             |          |      | ●Fork-tip photoelectricity ○Frok-tip camera ○Fork-tip lidar |
|                      | 7.6  | Interaction method                                          |          |      | ●Screen ○Buttons                                            |
| Auto-charge          | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box                            |
|                      | 8.1  | Rated input power (50Hz)                                    |          |      | Single-phase 220V                                           |
|                      | 8.2  | Communication                                               |          |      | WIFI                                                        |
|                      | 8.3  | Size                                                        |          | mm   | 622/422/1062                                                |
|                      | 8.4  | Charging power                                              |          |      | ●24V/50A ○24V/100A                                          |

07 Intelligent Handling Series

The 4th Generation of  
Material Handling



XPL201

High-speed and heavy  
load intelligent AMR

Product features

- Scenarios: Long-distance
- Intensive storage and handing
- High-speed operation



XPL301



XPL501

|                      |      |                                                             |          |      |                                                             |
|----------------------|------|-------------------------------------------------------------|----------|------|-------------------------------------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                                                          |
|                      | 1.2  | Model designation                                           |          |      | XPL 201                                                     |
|                      | 1.3  | Drive                                                       |          |      | Electric                                                    |
|                      | 1.4  | Operator type                                               |          |      | Standing                                                    |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 2000                                                        |
|                      | 1.6  | Service weight                                              |          | kg   | 625                                                         |
|                      | 1.7  | Navigation                                                  |          |      | Slam/Reflector                                              |
|                      | 1.8  | Communication                                               |          |      | Wi-fi + 5G                                                  |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±10                                                         |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Indoor                                                      |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 24/150                                                      |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                                              |
|                      | 2.3  | Battery weight                                              |          | kg   | 50                                                          |
|                      | 2.4  | Usage time                                                  |          | h    | 6-8                                                         |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 1915/835/2175 (L*W*H)                                       |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 600                                                         |
|                      | 3.3  | Load length                                                 | x        | mm   | 980                                                         |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 1430                                                        |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | 780                                                         |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | 55/170/1150                                                 |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | 540/600/685                                                 |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | 90                                                          |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 110                                                         |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                                           |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1.5/2                                                       |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 8/16                                                        |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤20                                                         |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1785                                                        |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | 1200                                                        |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | 2200                                                        |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | 2400                                                        |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                                                   |
|                      | 6.2  | Voice and light                                             |          |      | Voice + Light warning                                       |
|                      | 6.3  | Front protection                                            |          |      | Lidar + 3D camera                                           |
|                      | 6.4  | Back protection                                             |          |      | Fork-tip photoelectricity                                   |
|                      | 6.5  | Physical bumper                                             |          |      | Front + two sides                                           |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | Back fork root                                              |
| Option list          | 7.1  | Battery                                                     |          |      | ●24V/150Ah ○24V/205Ah                                       |
|                      | 7.2  | Charger                                                     |          |      | ●24V-50A Manual ○24V/100A Manual                            |
|                      | 7.3  | Warning light                                               |          |      | ●Blue light ●Turn light ○Warning light                      |
|                      | 7.4  | Front protection                                            |          |      | ●Single lidar,180° ○Double lidar,270° ●3D Camera            |
|                      | 7.5  | Rear protection                                             |          |      | ●Fork-tip photoelectricity ○Frok-tip camera ○Fork-tip lidar |
|                      | 7.6  | Interaction method                                          |          |      | ●Screen ○Buttons                                            |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box                            |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | Single-phase 220V                                           |
|                      | 8.2  | Communication                                               |          |      | WIFI                                                        |
|                      | 8.3  | Size                                                        |          | mm   | 622/422/1062                                                |
|                      | 8.4  | Charging power                                              |          |      | ●24V/50A ○24V/100A                                          |

08 Intelligent Handling Series

The 4th Generation of  
Material Handling



XP3201

Outdoor multi-scene intelligent  
AMR

Product features

- Outdoor (indoor) long-distance transportation
- Automatic charging

|                      |      |                                                             |          |      |                                  |
|----------------------|------|-------------------------------------------------------------|----------|------|----------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                               |
|                      | 1.2  | Model designation                                           |          |      | XP3201                           |
|                      | 1.3  | Drive                                                       |          |      | Electric                         |
|                      | 1.4  | Operator type                                               |          |      | Standing                         |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 2000                             |
|                      | 1.6  | Service weight                                              |          | kg   | 680                              |
|                      | 1.7  | Navigation                                                  |          |      | 3D Slam                          |
|                      | 1.8  | Communication                                               |          |      | Wi-fi + 5G                       |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±10                              |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Outdoor                          |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 24/150                           |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                   |
|                      | 2.3  | Battery weight                                              |          | kg   | 50                               |
|                      | 2.4  | Usage time                                                  |          | h    | 6-8                              |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 2045/848/2105 (L*W*H)            |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 600                              |
|                      | 3.3  | Load length                                                 | x        | mm   | 980                              |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 1430                             |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | 780                              |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | 55/170/1300                      |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | 540/600/685                      |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | 90                               |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 110                              |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1.5/2                            |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 8/16                             |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤20                              |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1792                             |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | 1200                             |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | 1690                             |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | 3020                             |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                        |
|                      | 6.2  | Voice and light                                             |          |      | Voice + Light warning            |
|                      | 6.3  | Front protection                                            |          |      | 3D Lidar                         |
|                      | 6.4  | Back protection                                             |          |      | Fork-tip photoelectricity        |
|                      | 6.5  | Physical bumper                                             |          |      | Front + two sides                |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | Frok bottom                      |
| Option list          | 7.1  | Battery                                                     |          |      | ●24V/150Ah ○24V/205Ah            |
|                      | 7.2  | Charger                                                     |          |      | ●24V-50A Manual ○24V/100A Manual |
|                      | 7.3  | Warning light                                               |          |      | ●Turn light ●Warning light       |
|                      | 7.4  | Front protection                                            |          |      | ●3D Lidar                        |
|                      | 7.5  | Rear protection                                             |          |      | ●Fork-tip lidar                  |
|                      | 7.6  | Interaction method                                          |          |      | ●Screen ○Buttons                 |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | Single-phase 220V                |
|                      | 8.2  | Communication                                               |          |      | WIFI                             |
|                      | 8.3  | Size                                                        |          | mm   | 622/422/1062                     |
|                      | 8.4  | Charging power                                              |          |      | ●24V/100A                        |



09 Intelligent Stacker Series

The 4th Generation of  
Material Handling



XS1151



XS1152

Thin back stacked  
AMR

Product features

Small size can handle the stacking  
scenes in narrow channel.



XS1153

|                      |      |                                                             |          |      |                                                               |
|----------------------|------|-------------------------------------------------------------|----------|------|---------------------------------------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                                                            |
|                      | 1.2  | Model designation                                           |          |      | XS1152                                                        |
|                      | 1.3  | Drive                                                       |          |      | Electric                                                      |
|                      | 1.4  | Operator type                                               |          |      | Pedestrian                                                    |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 1500                                                          |
|                      | 1.6  | Service weight                                              |          | kg   | 960                                                           |
|                      | 1.7  | Navigation                                                  |          |      | Slam/Reflector                                                |
|                      | 1.8  | Communication                                               |          |      | Wi-fi + 5G                                                    |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±10                                                           |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Indoor                                                        |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 24/205                                                        |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                                                |
|                      | 2.3  | Battery weight                                              |          | kg   | 62                                                            |
|                      | 2.4  | Usage time                                                  |          | h    | 7.5-9                                                         |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 1700/1004/2180 (L*W*H)                                        |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 600                                                           |
|                      | 3.3  | Load length                                                 | x        | mm   | 559                                                           |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 877                                                           |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | 551                                                           |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | 60/170/1150                                                   |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | 600/685                                                       |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | 85                                                            |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 1600-2500                                                     |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                                             |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1                                                             |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 3/5                                                           |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤20                                                           |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1160                                                          |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | -                                                             |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | -                                                             |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | 2100                                                          |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                                                     |
|                      | 6.2  | Voice and light                                             |          |      | Voice + Light warning                                         |
|                      | 6.3  | Front protection                                            |          |      | 270° Lidar + 3D camera                                        |
|                      | 6.4  | Back protection                                             |          |      | Fork-tip photoelectricity                                     |
|                      | 6.5  | Physical bumper                                             |          |      | Front + Two sides                                             |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | Fork root bottom                                              |
| Option list          | 7.1  | Battery                                                     |          |      | ●24V/205Ah                                                    |
|                      | 7.2  | Charger                                                     |          |      | ●24V-50A Manual ○24V/100A Manual                              |
|                      | 7.3  | Warning light                                               |          |      | ●Arc lamp ●Turn light ○Warning light                          |
|                      | 7.4  | Front protection                                            |          |      | -                                                             |
|                      | 7.5  | Rear protection                                             |          |      | ●Fork-tip photoelectricity ○Fork root camera ○Fork root Lidar |
|                      | 7.6  | Interaction method                                          |          |      | ●Screen ○Buttons                                              |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box                              |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | Single-phase 220V                                             |
|                      | 8.2  | Communication                                               |          |      | WIFI                                                          |
|                      | 8.3  | Size                                                        |          | mm   | 622/422/1062                                                  |
|                      | 8.4  | Charging power                                              |          |      | ●24V/50A                                                      |

10 Intelligent Stacker Series

The 4th Generation of  
Material Handling



XSC151

Counter balance stacked AMR

Product features

Small turning radius and high lifting height

|                      |      |                                                             |          |      |                                  |
|----------------------|------|-------------------------------------------------------------|----------|------|----------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                               |
|                      | 1.2  | Model designation                                           |          |      | XSC151                           |
|                      | 1.3  | Drive                                                       |          |      | Electric                         |
|                      | 1.4  | Operator type                                               |          |      | Pedestrian                       |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 1500                             |
|                      | 1.6  | Service weight                                              |          | kg   | 3440                             |
|                      | 1.7  | Navigation                                                  |          |      | 3D Slam                          |
|                      | 1.8  | Communication                                               |          |      | Wi-fi + 5G                       |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±10                              |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Indoor                           |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 48/205                           |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                   |
|                      | 2.3  | Battery weight                                              |          | kg   | -                                |
|                      | 2.4  | Usage time                                                  |          | h    | -                                |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 2377/1050/3057 (L*W*H)           |
|                      | 3.2  | Load centre distance                                        | c        | mm   | -                                |
|                      | 3.3  | Load length                                                 | x        | mm   | -                                |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | -                                |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | -                                |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | -                                |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | -                                |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | -                                |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 4000                             |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1.5/2                            |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 5/8                              |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | -                                |
|                      | 4.4  | turning radius                                              | Wa       | mm   | -                                |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | -                                |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | -                                |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | -                                |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                        |
|                      | 6.2  | Voice and light                                             |          |      | -                                |
|                      | 6.3  | Front protection                                            |          |      | Lidar                            |
|                      | 6.4  | Back protection                                             |          |      | -                                |
|                      | 6.5  | Physical bumper                                             |          |      | -                                |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | -                                |
| Option list          | 7.1  | Battery                                                     |          |      | -                                |
|                      | 7.2  | Charger                                                     |          |      | -                                |
|                      | 7.3  | Warning light                                               |          |      | -                                |
|                      | 7.4  | Front protection                                            |          |      | -                                |
|                      | 7.5  | Rear protection                                             |          |      | -                                |
|                      | 7.6  | Interaction method                                          |          |      | -                                |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | Single-phase 220V                |
|                      | 8.2  | Communication                                               |          |      | WIFI                             |
|                      | 8.3  | Size                                                        |          | mm   | 622/422/1062                     |
|                      | 8.4  | Charging power                                              |          |      | ●24V/50A ○24V/100A               |

11 Intelligent Stacker Series

XS20RAS

Heavy load stacked AMR

Product features

- Heavy load capacity
- Docking with various automation equipment



The 4th Generation of Material Handling

|                      |      |                                                             |          |      |                                                               |
|----------------------|------|-------------------------------------------------------------|----------|------|---------------------------------------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                                                            |
|                      | 1.2  | Model designation                                           |          |      | XS2-20RAS                                                     |
|                      | 1.3  | Drive                                                       |          |      | Electric                                                      |
|                      | 1.4  | Operator type                                               |          |      | Pedestrian                                                    |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 1600/2000                                                     |
|                      | 1.6  | Service weight                                              |          | kg   | 1360                                                          |
|                      | 1.7  | Navigation                                                  |          |      | Slam/Reflector                                                |
|                      | 1.8  | Communication                                               |          |      | Wi-fi + 5G                                                    |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±10                                                           |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Indoor                                                        |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 24/205                                                        |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                                                |
|                      | 2.3  | Battery weight                                              |          | kg   | 62                                                            |
|                      | 2.4  | Usage time                                                  |          | h    | 8-9                                                           |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 2230/1140/2180 (L*W*H)                                        |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 600                                                           |
|                      | 3.3  | Load length                                                 | x        | mm   | 735                                                           |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 1441                                                          |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | 1080                                                          |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | 60/190/1150                                                   |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | 570/600/685                                                   |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | 86                                                            |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 3000                                                          |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                                             |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1/1.5                                                         |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 6/10                                                          |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤20                                                           |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1865                                                          |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | 1740                                                          |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | 2300                                                          |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | 3228                                                          |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                                                     |
|                      | 6.2  | Voice and light                                             |          |      | Voice + Light warning                                         |
|                      | 6.3  | Front protection                                            |          |      | Lidar + 3D camera                                             |
|                      | 6.4  | Back protection                                             |          |      | Fork-tip photoelectricity + Physical bumper                   |
|                      | 6.5  | Physical bumper                                             |          |      | Front + two sides                                             |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | Frok bottom                                                   |
| Option list          | 7.1  | Battery                                                     |          |      | ●24V/205Ah                                                    |
|                      | 7.2  | Charger                                                     |          |      | ●24V-50A Manual ○24V/100A Manual                              |
|                      | 7.3  | Warning light                                               |          |      | ●Turn light ●Warning light                                    |
|                      | 7.4  | Front protection                                            |          |      | ●Double lidar,270° ●3D Camera                                 |
|                      | 7.5  | Rear protection                                             |          |      | ●Fork-tip photoelectricity ○Fork root camera ○Fork root Lidar |
|                      | 7.6  | Interaction method                                          |          |      | ●Screen ○Buttons                                              |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box                              |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | Single-phase 220V                                             |
|                      | 8.2  | Communication                                               |          |      | WIFI                                                          |
|                      | 8.3  | Size                                                        |          | mm   | 622/422/1062                                                  |
|                      | 8.4  | Charging power                                              |          |      | ●24V/100A                                                     |

12 Intelligent Stacker Series

XS206CA

Counter balance stacked AMR

Product features

- Docking with various equipment for various operations



XRSC082



XRSC122



The 4th Generation of Material Handling

|                      |      |                                                             |          |      |                                                               |
|----------------------|------|-------------------------------------------------------------|----------|------|---------------------------------------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                                                            |
|                      | 1.2  | Model designation                                           |          |      | XS206CA                                                       |
|                      | 1.3  | Drive                                                       |          |      | Electric                                                      |
|                      | 1.4  | Operator type                                               |          |      | Pedestrian                                                    |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 600                                                           |
|                      | 1.6  | Service weight                                              |          | kg   | 1340                                                          |
|                      | 1.7  | Navigation                                                  |          |      | Slam/Reflector                                                |
|                      | 1.8  | Communication                                               |          |      | Wi-fi + 5G                                                    |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±10                                                           |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Indoor                                                        |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 24/205                                                        |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                                                |
|                      | 2.3  | Battery weight                                              |          | kg   | 62                                                            |
|                      | 2.4  | Usage time                                                  |          | h    | 4-5                                                           |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 2076/1046/2157 (L*W*H)                                        |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 500                                                           |
|                      | 3.3  | Load length                                                 | x        | mm   | 109                                                           |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 700                                                           |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | 1156                                                          |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | 40/100/920                                                    |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | 350-560                                                       |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | 60                                                            |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 3020                                                          |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                                             |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1/1                                                           |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 5/8                                                           |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤20                                                           |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1109                                                          |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | 1246                                                          |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | 1830                                                          |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | 3055                                                          |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                                                     |
|                      | 6.2  | Voice and light                                             |          |      | Voice + Light warning                                         |
|                      | 6.3  | Front protection                                            |          |      | 270° Lidar + 3D camera                                        |
|                      | 6.4  | Back protection                                             |          |      | Fork-tip lidar + Physical bumper                              |
|                      | 6.5  | Physical bumper                                             |          |      | Lidar                                                         |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | Frok root bottom                                              |
| Option list          | 7.1  | Battery                                                     |          |      | ●24V/205Ah                                                    |
|                      | 7.2  | Charger                                                     |          |      | ●24V-50A Manual ○24V/100A Manual                              |
|                      | 7.3  | Warning light                                               |          |      | ●Turn light ●Warning light                                    |
|                      | 7.4  | Front protection                                            |          |      | ●Double lidar,270° ●3D Camera                                 |
|                      | 7.5  | Rear protection                                             |          |      | ●Fork-tip photoelectricity ○Fork root camera ○Fork root Lidar |
|                      | 7.6  | Interaction method                                          |          |      | ●Screen ○Buttons                                              |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box                              |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | Single-phase 220V                                             |
|                      | 8.2  | Communication                                               |          |      | WIFI                                                          |
|                      | 8.3  | Size                                                        |          | mm   | 622/422/1062                                                  |
|                      | 8.4  | Charging power                                              |          |      | ●24V/100A                                                     |



13 Intelligent Forward Series

XQE122

Indoor forward-moving AMR

Product features

Suitable for narrower aisles and distributed warehousing  
Capable of stacking and handling



The 4th Generation of  
Material Handling

|                      |      |                                                             |          |      |                                   |
|----------------------|------|-------------------------------------------------------------|----------|------|-----------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                                |
|                      | 1.2  | Model designation                                           |          |      | XQE122                            |
|                      | 1.3  | Drive                                                       |          |      | Electric                          |
|                      | 1.4  | Operator type                                               |          |      | Pedestrian                        |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 1200                              |
|                      | 1.6  | Service weight                                              |          | kg   | 2235                              |
|                      | 1.7  | Navigation                                                  |          |      | 3D Slam                           |
|                      | 1.8  | Communication                                               |          |      | Wi-fi                             |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±10                               |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Outdoor                           |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 48/150                            |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                    |
|                      | 2.3  | Battery weight                                              |          | kg   | 100                               |
|                      | 2.4  | Usage time                                                  |          | h    | 5-6                               |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 2186/1200/2354 (L*W*H)            |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 600                               |
|                      | 3.3  | Load length                                                 | x        | mm   | 394                               |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 1250                              |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | 1087.5                            |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | 40/100/1070                       |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | 350-730                           |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | 60                                |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 3200                              |
|                      | 3.10 | Forward distance                                            | l4       | mm   | 590                               |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1/1                               |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 3/5                               |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤20                               |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1502                              |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | 1400                              |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | 2013                              |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | 2760                              |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                         |
|                      | 6.2  | Voice and light                                             |          |      | Voice + Light warning             |
|                      | 6.3  | Front protection                                            |          |      | Lidar                             |
|                      | 6.4  | Back protection                                             |          |      | Fork root lidar + Physical bumper |
|                      | 6.5  | Physical bumper                                             |          |      | Front + two sides                 |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | Fork root bottom                  |
| Option list          | 7.1  | Battery                                                     |          |      | ●48V/150Ah                        |
|                      | 7.2  | Charger                                                     |          |      | ●24V-50A Manual ○24V/100A Manual  |
|                      | 7.3  | Warning light                                               |          |      | ●Turn light ●Warning light        |
|                      | 7.4  | Front protection                                            |          |      | ●Lidar ○Two sides Lidar           |
|                      | 7.5  | Rear protection                                             |          |      | ●Fork tip lidar ●Fork root lidar  |
|                      | 7.6  | Interaction method                                          |          |      | ●Screen ○Buttons                  |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box  |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | Single-phase 220V                 |
|                      | 8.2  | Communication                                               |          |      | WIFI                              |
|                      | 8.3  | Size                                                        |          | mm   | 622/422/1062                      |
|                      | 8.4  | Charging power                                              |          |      | ●24V/100A                         |

14 Intelligent Stacker Series

XQS151

Intelligent Forward AMR

Product features

Navigated by 3D lidar with Auto&manual model  
Outdoor use in different scenarios & Docking of various terminal devices



The 4th Generation of  
Material Handling

|                      |      |                                                             |          |      |                                   |
|----------------------|------|-------------------------------------------------------------|----------|------|-----------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                                |
|                      | 1.2  | Model designation                                           |          |      | XQS151                            |
|                      | 1.3  | Drive                                                       |          |      | Electric                          |
|                      | 1.4  | Operator type                                               |          |      | Standing                          |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 1500                              |
|                      | 1.6  | Service weight                                              |          | kg   | 2675                              |
|                      | 1.7  | Navigation                                                  |          |      | 3D Slam                           |
|                      | 1.8  | Communication                                               |          |      | Wi-fi + 5G                        |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±30                               |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Outdoor                           |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 48/280                            |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                    |
|                      | 2.3  | Battery weight                                              |          | kg   | 138                               |
|                      | 2.4  | Usage time                                                  |          | h    | 6-8                               |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 2200/1294/2472 (L*W*H)            |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 600                               |
|                      | 3.3  | Load length                                                 | x        | mm   | 426                               |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 1278                              |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | 1130                              |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | 40/100/1070                       |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | 350-538                           |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | 60                                |
|                      | 3.9  | Lifting height                                              | h3       | mm   | 3000                              |
|                      | 3.10 | Forward distance                                            | l4       | mm   | 660                               |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1.5/2                             |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 6/10                              |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤20                               |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1641                              |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | 1800                              |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | 2381                              |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | 3357                              |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                         |
|                      | 6.2  | Voice and light                                             |          |      | Voice + Light warning             |
|                      | 6.3  | Front protection                                            |          |      | Lidar                             |
|                      | 6.4  | Back protection                                             |          |      | Fork-tip photoelectricity + Lidar |
|                      | 6.5  | Physical bumper                                             |          |      | Front + two sides                 |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | Fork root bottom                  |
| Option list          | 7.1  | Battery                                                     |          |      | ●48V/280Ah                        |
|                      | 7.2  | Charger                                                     |          |      | ●48V-200A Manual                  |
|                      | 7.3  | Warning light                                               |          |      | ●Turn light ●Warning light        |
|                      | 7.4  | Front protection                                            |          |      | ●Lidar                            |
|                      | 7.5  | Rear protection                                             |          |      | ●Fork-tip photoelectricity ●Lidar |
|                      | 7.6  | Interaction method                                          |          |      | ●Screen                           |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box  |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | -                                 |
|                      | 8.2  | Communication                                               |          |      | -                                 |
|                      | 8.3  | Size                                                        |          | mm   | -                                 |
|                      | 8.4  | Charging power                                              |          |      | ●24V/50A ○24V/100A                |

15 Intelligent towing series

The 4th Generation of  
Material Handling

XQ1401

Indoor towed AMR

Product features

Tow multiple trolleys

Automatically switch operating modes



|                      |      |                                                             |          |      |                                                     |
|----------------------|------|-------------------------------------------------------------|----------|------|-----------------------------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                                                  |
|                      | 1.2  | Model designation                                           |          |      | XQ1401                                              |
|                      | 1.3  | Drive                                                       |          |      | Electric                                            |
|                      | 1.4  | Operator type                                               |          |      | Standing                                            |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 4200                                                |
|                      | 1.6  | Service weight                                              |          | kg   | 820                                                 |
|                      | 1.7  | Navigation                                                  |          |      | Slam/Reflector                                      |
|                      | 1.8  | Communication                                               |          |      | Wi-fi + 5G                                          |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±20                                                 |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Indoor                                              |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 24/205                                              |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                                      |
|                      | 2.3  | Battery weight                                              |          | kg   | 260                                                 |
|                      | 2.4  | Usage time                                                  |          | h    | 5-6                                                 |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 1513/910/2182 (L*W*H)                               |
|                      | 3.2  | Load centre distance                                        | c        | mm   | 975                                                 |
|                      | 3.3  | Load length                                                 | x        | mm   | -                                                   |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 975                                                 |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | -                                                   |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | -                                                   |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | -                                                   |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | -                                                   |
|                      | 3.9  | Lifting height                                              | h3       | mm   | -                                                   |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                                   |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 1/1.4                                               |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 3/15                                                |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤20                                                 |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1345                                                |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | -                                                   |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | -                                                   |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | -                                                   |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                                           |
|                      | 6.2  | Voice and light                                             |          |      | Voice + Light warning                               |
|                      | 6.3  | Front protection                                            |          |      | Lidar + 3D camera                                   |
|                      | 6.4  | Back protection                                             |          |      | -                                                   |
|                      | 6.5  | Physical bumper                                             |          |      | Front + two sides                                   |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | -                                                   |
| Option list          | 7.1  | Battery                                                     |          |      | ●24V/205Ah                                          |
|                      | 7.2  | Charger                                                     |          |      | ●24V-50A Manual ○24V/100A Manual                    |
|                      | 7.3  | Warning light                                               |          |      | ●Blue light ●Turn light ○Warning light              |
|                      | 7.4  | Front protection                                            |          |      | ●Single lidar,180° ○Double lidar,270° ●Depth Camera |
|                      | 7.5  | Rear protection                                             |          |      | -                                                   |
|                      | 7.6  | Interaction method                                          |          |      | ●Screen ○Buttons                                    |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box                    |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | Single-phase 220V                                   |
|                      | 8.2  | Communication                                               |          |      | WIFI                                                |
|                      | 8.3  | Size                                                        |          | mm   | 622/422/1062                                        |
|                      | 8.4  | Charging power                                              |          |      | ●24V/100A                                           |

16 Intelligent towing series

The 4th Generation of  
Material Handling

XQD601

Outdoor towed AMR

Product features

Capable of autonomous long-distance traction outdoors



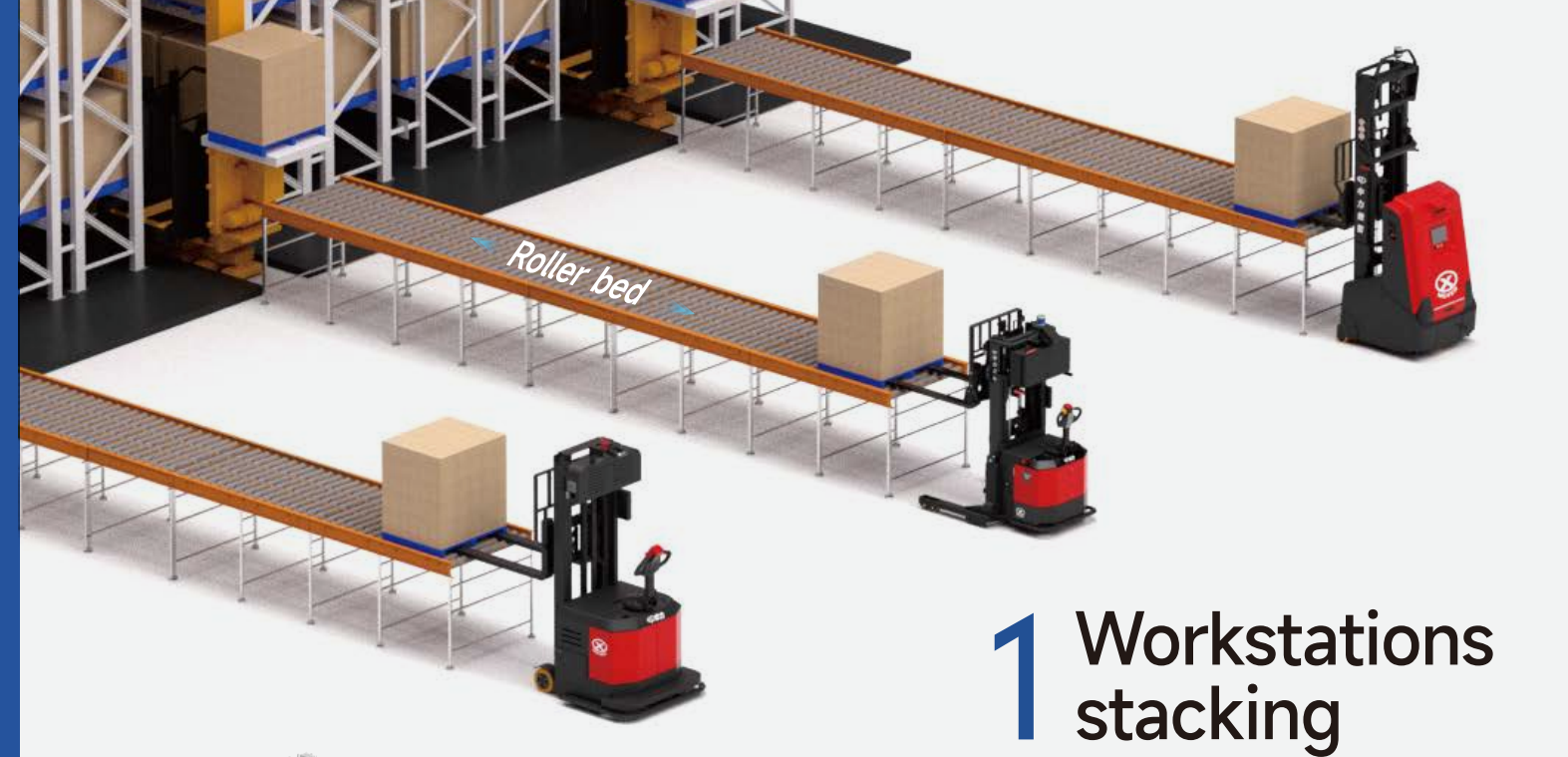
|                      |      |                                                             |          |      |                                        |
|----------------------|------|-------------------------------------------------------------|----------|------|----------------------------------------|
| Basic parameters     | 1.1  | Manufacturer                                                |          |      | EP                                     |
|                      | 1.2  | Model designation                                           |          |      | XQD601                                 |
|                      | 1.3  | Drive                                                       |          |      | Electric                               |
|                      | 1.4  | Operator type                                               |          |      | Seated                                 |
|                      | 1.5  | Load capacity                                               | Q        | kg   | 6000                                   |
|                      | 1.6  | Service weight                                              |          | kg   | 1220                                   |
|                      | 1.7  | Navigation                                                  |          |      | 3D Slam                                |
|                      | 1.8  | Communication                                               |          |      | Wi-fi + 5G                             |
|                      | 1.9  | Positioning accuracy                                        |          | mm   | ±30                                    |
|                      | 1.10 | Indoor/Outdoor                                              |          |      | Outdoor                                |
| Battery parameters   | 2.1  | Battery voltage/nominal capacity                            |          | V/Ah | 48/280                                 |
|                      | 2.2  | Battery type                                                |          |      | Li-ion battery                         |
|                      | 2.3  | Battery weight                                              |          | kg   | 500                                    |
|                      | 2.4  | Usage time                                                  |          | h    | 5-6                                    |
| Size                 | 3.1  | Dimensions                                                  | l1/b1/h1 | mm   | 1966/1445/2400 (L*W*H)                 |
|                      | 3.2  | Load centre distance                                        | c        | mm   | -                                      |
|                      | 3.3  | Load length                                                 | x        | mm   | -                                      |
|                      | 3.4  | Wheelbases                                                  | y        | mm   | 1110                                   |
|                      | 3.5  | Fork vertical length                                        | l2       | mm   | -                                      |
|                      | 3.6  | Fork dimensions                                             | s/e/l    | mm   | -                                      |
|                      | 3.7  | Outer width of forks                                        | b5       | mm   | -                                      |
|                      | 3.8  | Height with forks lowered                                   | h13      | mm   | -                                      |
|                      | 3.9  | Lifting height                                              | h3       | mm   | -                                      |
|                      | 3.10 | Forward distance                                            | l4       | mm   | -                                      |
| Other parameters     | 4.1  | Travel speed, laden/unladen                                 |          | m/s  | 2/2.5                                  |
|                      | 4.2  | Max. gradeability, laden/unladen                            |          | %    | 7/25                                   |
|                      | 4.3  | cross-ditch ability                                         |          | mm   | ≤40                                    |
|                      | 4.4  | turning radius                                              | Wa       | mm   | 1850                                   |
| Channel requirements | 5.1  | Straight forward and backward (with standard shelves) width | Ast      | mm   | -                                      |
|                      | 5.2  | Right-angle turn (with standard shelves) width              | Ast      | mm   | -                                      |
|                      | 5.3  | Width of unilateral pick-up and unloading                   | Ast      | mm   | -                                      |
| Safety               | 6.1  | Emergency stop button                                       |          |      | Two sides                              |
|                      | 6.2  | Voice and light                                             |          |      | Voice + Front light warning            |
|                      | 6.3  | Front protection                                            |          |      | Top lidar                              |
|                      | 6.4  | Back protection                                             |          |      | -                                      |
|                      | 6.5  | Physical bumper                                             |          |      | -                                      |
|                      | 6.6  | Pallet in-place detection switch                            |          |      | -                                      |
| Option list          | 7.1  | Battery                                                     |          |      | ●48V/280Ah                             |
|                      | 7.2  | Charger                                                     |          |      | ●48V-100A Manual                       |
|                      | 7.3  | Warning light                                               |          |      | ●Blue light ●Turn light ○Warning light |
|                      | 7.4  | Front protection                                            |          |      | ●Top lidar                             |
|                      | 7.5  | Rear protection                                             |          |      | -                                      |
|                      | 7.6  | Interaction method                                          |          |      | ●Screen ○Buttons                       |
|                      | 7.7  | Docking with other devices                                  |          |      | ○Elevator ○Access door ○Call box       |
| Auto-charge          | 8.1  | Rated input power (50Hz)                                    |          |      | Single-phase 220V                      |
|                      | 8.2  | Communication                                               |          |      | WIFI                                   |
|                      | 8.3  | Size                                                        |          | mm   | 622/422/1062                           |
|                      | 8.4  | Charging power                                              |          |      | ●24V/50A ○24V/100A                     |



# Distributed Digital Warehouse

Warehouse@anywhere

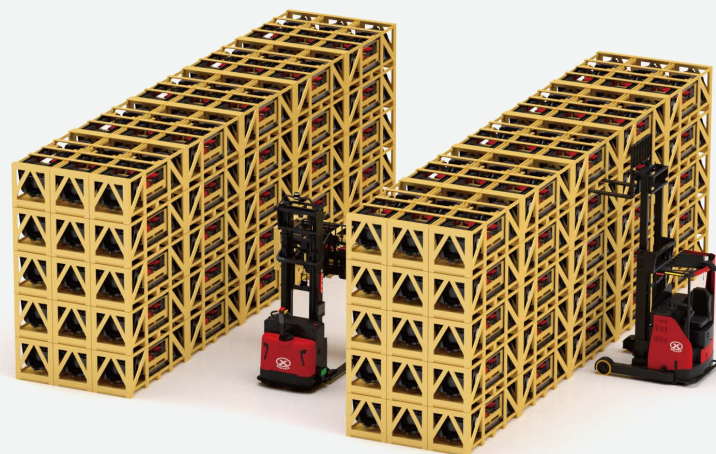
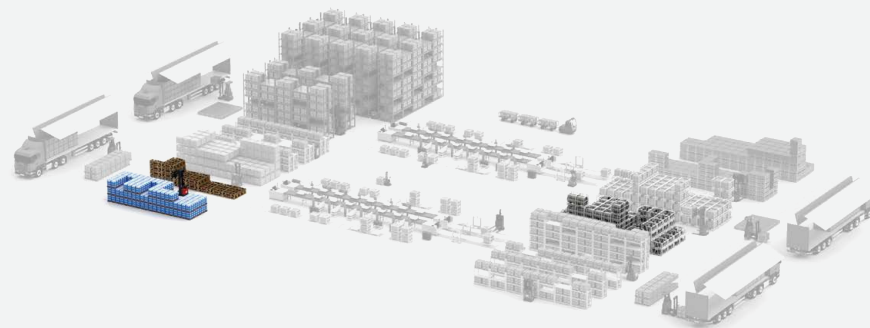
**W@W** Stacking





# 3

## Self assembling stacking



Wooden boxes stacking



Specialised carrier stacking(wine industry)



Palletising & stacking of goods

**WAREHOUSE**  
**W@ANYWHERE**

Specialised carrier stacking(Automotive)

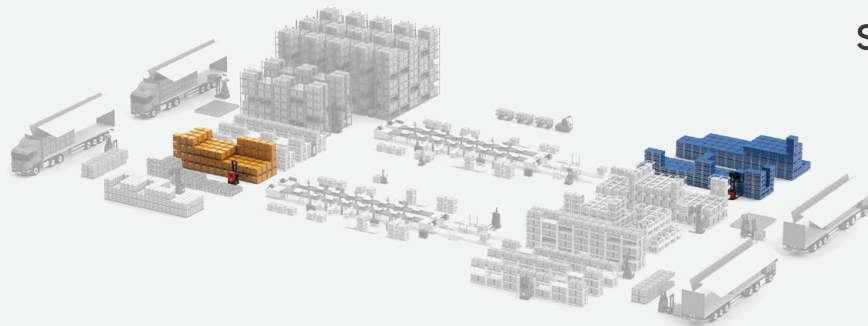




## 4 Material cage stacking

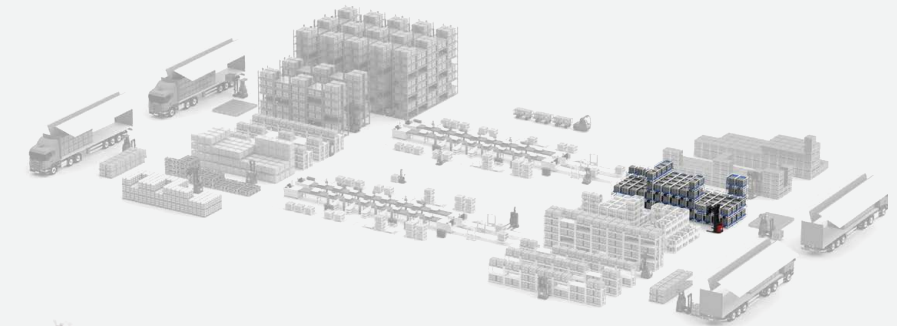


Storage cage stacking



Specialised cage stacking (RV7/8)

## 5 Material rack stacking

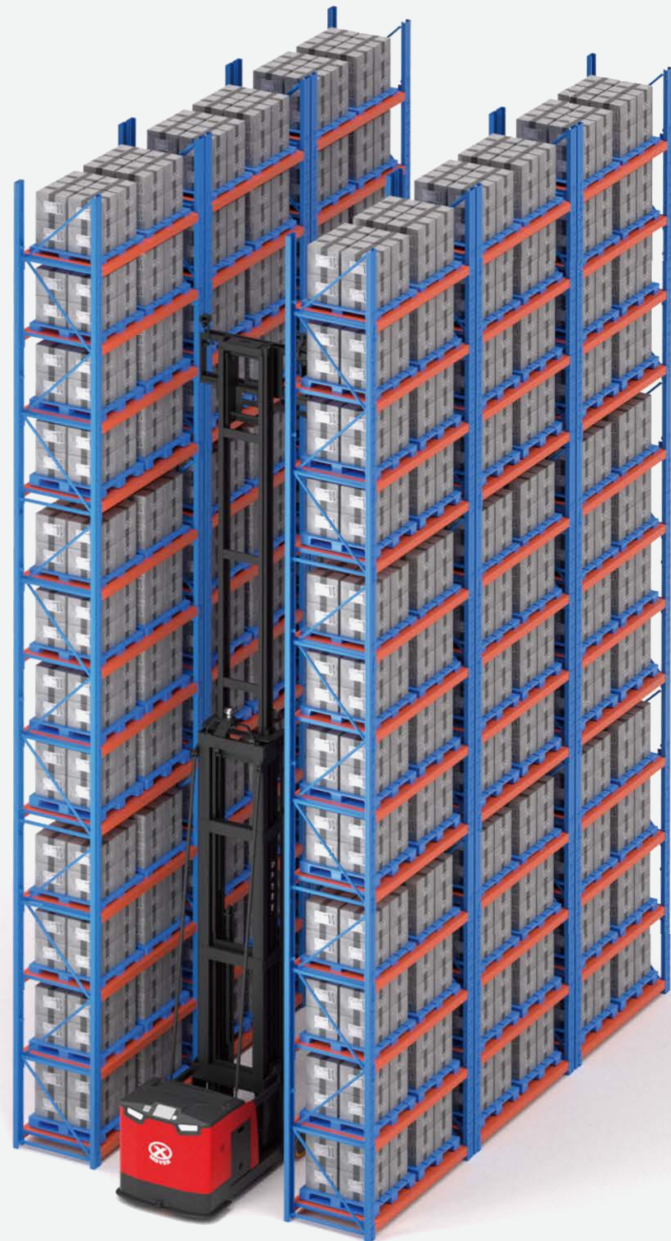
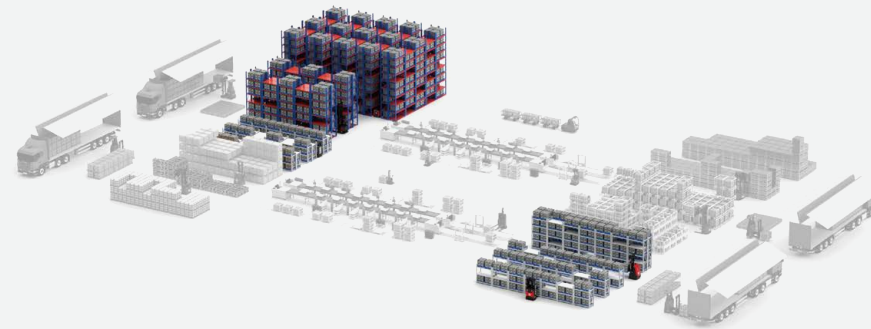


Removable shelf stacking



# 6

## Shelves stacking



Narrow aisle racking (height)



Conventional  
mid-level shelves

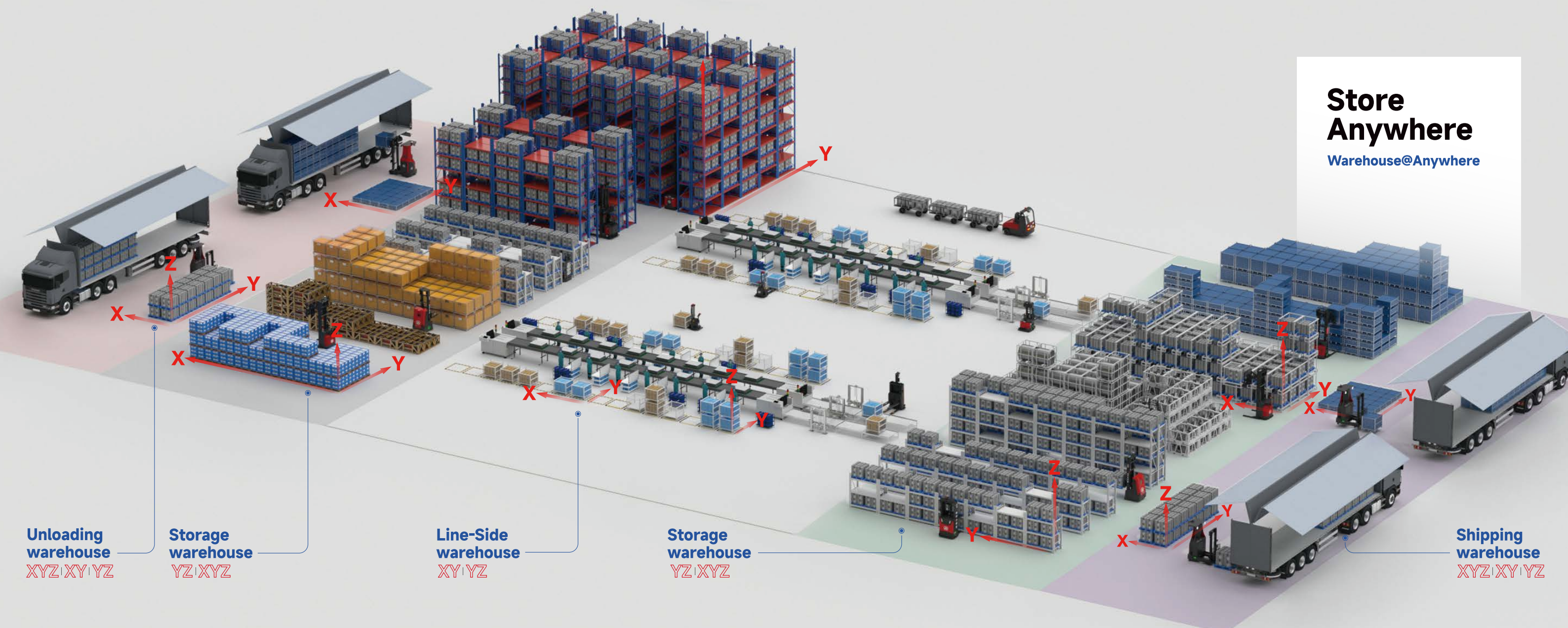


Conventional  
low-level shelves



Conventional  
high-level shelves





**Store  
Anywhere**  
Warehouse@Anywhere

Unloading  
warehouse  
XYZ|XY|YZ

Storage  
warehouse  
YZ|XYZ

Line-Side  
warehouse  
XY|YZ

Storage  
warehouse  
YZ|XYZ

Shipping  
warehouse  
XYZ|XY|YZ



## Traditional/Conventional Warehouse

VS

## Digital Intelligent Warehouse

### Material Warehouse

Simple warehousing of goods

### Digital Warehouse

- Cargo digitisation
- Vehicle standardization
- Mobile digitalization
- AI Grand Scheduling (Dispatch)

### Manual Warehousing

Manual storage, in and out

### Intelligent Warehousing

- Robot Intelligent Storage Automatic inbound and outbound(in&out) inventory

### Traditional /Conventional Warehouse (Boundary Warehouse)

- Architectural or physical segregation, manned access to the warehouse
- Fixed location, fixed storage method

### Everywhere Warehouse (Borderless)

- All venues on site are warehouses that can be extended to suppliers
- Anywhere, any form of storage
- Unmanaged, Unified Digital Intelligence System
- XY warehouse, YZ warehouse, XYZ warehouse



**WAREHOUSE  
@ANYWHERE**