Technical sheet :

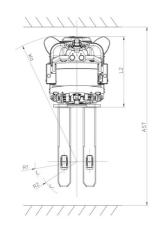
## **AMR ES 612**

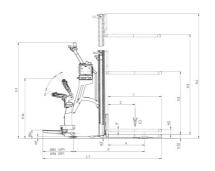




Technical characteristics1.1Manufacturer1.2Model Name1.3Power source1.4Operator type1.5Max. capacity1.6Load center of gravity1.7Wheelbase1.9Wheelbase1.10Wheelbase1.11Vine of drive wate to fork (low/raised) - Low position / Raised position1.11Tires type1.12Wheelbase1.13Number of front wheels / rear wheels1.14Overall length1.15Number of drive wheels1.16Load center of drive in the set of	Metric	
1.3       Power source         1.4       Operator type         1.5       Max. capacity       Q         1.6       Load center of gravity       c         1.8       Load distance, centre of drive axle to fork (low/raised) - Low position / Raised position       x / Q         1.9       Wheelbase       y         Wheelbase       y       y         1.3       Tires type       1         3.1       Tires type       1         3.5       Number of front wheels / rear wheels       1         3.6       Front wheel gauge       b10         Dimensions       11       1         1.20       Length to face of forks       12         1.21       Overall length       11         1.22       Fork section / width / length       11         1.22       Fork carriage width       13         1.33       Aisle Width for pallets 1000 x 1200 crossways       Ast         1.34       Kardeability (laden / unladen)       13         1.35       Tavel speed (laden / unladen)       14         1.32       Service brake       15         1.33       Lowering speed (laden / unladen)       15         1.34       Engine       15	MANITOU	
1.4     Operator type       1.5     Max. capacity     Q       1.6     Load center of gravity     c       1.8     Load distance, centre of drive axle to fork (low/raised) - Low position / Raised position     x / Q       9     Wheelbase     y       8.1     Tires type     y       3.1     Tires type     b10       5.5     Number of front wheels / rear wheels     b10       5.6     Front wheel gauge     b10       7.1     Rear wheel gauge     b10       7.1     Overall length     11       1.20     Length to face of forks     12       2.1     Overall width     b1       2.2     Fork section / width / length     s / e / 1       2.2     Fork carriage width     b3       3.3     Aisle Width for pallets 1000 x 1200 crossways     Ast       3.3     Aisle Width for pallets 1000 x 1200 crossways     Ast       3.3     Lifting speed (laden / unladen)     Wa       3.4     Lowering speed (laden / unladen)     was       3.5     Turwing radius     Wa       3.6     Engine     1       3.1     Drive motor rating 34 51/5/36 A, B, C     Battery witage / capacity	AMR ES612	
Instruction     Max. capacity     Q       Instruction     Load center of gravity     c       Instruction     C     C       Instruction     X / Q       Wheelbase     y       Wheelbase     y       Wheelbase     Y       Instruction     Instruction       Instruct	Electrical	
1.6       Load centre of gravity       c         1.8       Load distance, centre of drive axle to fork (low/raised) - Low position / Raised position       x / Q         1.9       Wheelbase       y         1.1       Tires type       1         1.5       Number of front wheels / rear wheels       1         5.5.2       Number of front wheels / rear wheels       b10         5.5.2       Number of front wheels / rear wheels       b11         1.0       Dimensions       1         1.1       Dimensions       1         1.2       Overrall length       1         1.2       Overrall width       b1         2.21       Overrall width       b3         3.22       Fork carniage width       s / e / l         3.3       A isle Width for pallets 1000 x 1200 crossways       Ast         3.3       Turning radius       Wa         Performances       1       1         5.3       Lowering S26 00 min       1         5.4       Battery according to DIN 43531/35/36 A, B, C       5         5.4       Battery voltage / capacity       1	Carried	
1.6       Load center of gravity       c         1.8       Load distance, centre of drive axle to fork (low/raised) - Low position / Raised position       x / Q         9.9       Wheelbase       y         Wheelbase       y         10       Tires type       1         11       Tires type       1         12.0       Number of frint wheels / rear wheels       510         5.2       Number of frint wheels / rear wheels       510         5.4       Front wheel gauge       510         5.7       Rear wheel gauge       510         5.7       Rear wheel gauge       510         5.7       Overall length       11         2.0       Length to face of forks       12         2.1       Overall width       11         2.2       Fork carniage width       11         2.2       Fork carniage width       12         2.3       Aisle Width for pallets 1000 x 1200 crossways       Ast         3.3       Aisle Width for pallets 1000 x 1200 crossways       Ast         3.4       Loweing speed (laden / unladen)       1         3.2       Loweing speed (laden / unladen)       1         3.3       Max Gradeability (laden / unladen)       1 </td <td>1200 kg</td>	1200 kg	
9     Wheelbase     y       8.1     Tires type     1       5.5     Number of front wheels / rear wheels     50       5.2     Number of drive wheels     50       6.6     Front wheel gauge     50       7     Rear wheel gauge     50       19     Overall length     11       12     Dimensions     12       21     Overall width     11       22     Fork section / width / length     51       23     Ground clearance at centre of wheelbase     m2       33     Aisle Width for pallets 1000 x 1200 crossways     Ast       34     Isle Width for yallets 1000 x 1200 crossways     Ast       35     Turning radius     Wa       9     Performances     10       35.1     Travel speed (laden / unladen)     10       35.2     Lowering speed (laden / unladen)     10       35.3     Lowering speed (laden / unladen)     10       35.4     Max Gradeability (laden / unladen)     10       35.3     Lowering S2 60 min     10       35.4     Engine     10       36.5     Lift motor rating 32 50 min     10       37.6     Battery according to DIN 43531/35/36 A, B, C     10	600 mm	
Wheels       Image: Section wheels         3.1       Tires type         3.5       Number of front wheels / rear wheels         5.2       Number of drive wheels         5.4       Front wheel gauge         5.7       Rear wheel gauge         0       Dimensions         0       Dimensions         11       Dimensions         12       Overall length         13       Dimensions         14       Dimensions         15       Overall width         16       Dimensions         17       Overall width         18       S (re / I)         22       Fork section / width / length       s / e / I         23       Ground clearance at centre of wheelbase       m2         33       Aisle Width for pallets 1000 x 1200 crossways       Ast         34       Travel speed (laden / unladen)       Mae         52       Lifting speed (laden / unladen)       Mae         53       Lowering speed (laden / unladen)       Mae         54       Engine       Mae <td>696 mm / 736 mm</td>	696 mm / 736 mm	
Wheels       Image: Strate Strat	1457 mm	
3.5       Number of front wheels / rear wheels         5.2       Number of drive wheels         5.2       Number of drive wheels         8.6       Front wheel gauge         0.7       Rear wheel gauge         01       Dimensions         11       Dimensions         12       Overall length         130       Coverall width         141       Overall width         152       Fork section / width / length         153       Ground clearance at centre of wheelbase         154       Fork carriage width         155       Turning radius         154       Fork section / width / length         155       Turning radius         154       Fork carriage width         155       Turning radius         156       Tarvel speed (laden / unladen)         157       Tarvel speed (laden / unladen)         158       Max Gradeability (laden / unladen)         159       Service brake         150       Drive motor rating S2 60 min         151       Drive motor rating S2 50 min         152       Lift motor rating S3 15%         153       Battery according to DIN 43531/35/36 A, B, C         154       Battery wolta		
5.2       Number of drive wheels       b10         3.6       Front wheel gauge       b10         3.7       Rear wheel gauge       b11         Dimensions       11         1.9       Overall length       11         2.0       Length to face of forks       12         2.1       Overall width       b1         2.2       Forks section / width / length       s / e / l         2.2       Fork section / width / length       s / e / l         3.2       Ground clearance at centre of wheelbase       m2         3.3       Aisle Width for pallets 1000 x 1200 crossways       Ast         3.3       Forfomances       Wa         5.1       Travel speed (laden / unladen)          5.2       Lifting speed (laden / unladen)          5.3       Lowering speed (laden / unladen)          5.3       Drive motor rating 32 50 min          5.4       Drive motor rating 32 55%          5.3       Battery according to DIN 43531/35/36 A, B, C          5.4       Battery voltage / capacity	Polyurethane	
8.6     Front wheel gauge     b10       8.7     Rear wheel gauge     b11       9.7     Rear wheel gauge     b11       9.10     Overall length     11       2.00     Length to face of forks     12       2.11     Overall width     b1       2.22     Fork section / width / length     s / e / l       2.24     Fork carriage width     b3       3.2     Ground clearance at centre of wheelbase     m2       3.3     Aisle Width for pallets 1000 x 1200 crossways     Ast       3.3     Aisle Width for pallets 1000 x 1200 crossways     Ast       3.3     Turning radius     Wa       3.4     Performances     Wa       3.5     Turning radius     Wa       3.6     Max Gradeability (laden / unladen)	2/4	
3.7       Rear wheel gauge       b11         Dimensions       11         .19       Overall length       11         .20       Length to face of forks       12         .21       Overall width       b1         .22       Forks section / width / length       s / e / l         .24       Fork carriage width       b3         .32       Ground clearance at centre of wheelbase       m2         .33       A isle Width for pallets 1000 x 1200 crossways       A st         .35       Turning radius       Wa         Performances       Wa         .5.1       Travel speed (laden / unladen)          .5.3       Lowering speed (laden / unladen)          .5.4       Battery according to DIN 43531/35/36 A, B, C       Battery voltage / capacity	1	
Dimensions       11         .19       Overall length       11         .20       Length to face of forks       12         .21       Overall width       b1         .22       Forks section / width / length       s / e / l         .24       Fork carriage width       b3         .32       Ground clearance at centre of wheelbase       m2         .33       Aisle Width for pallets 1000 x 1200 crossways       Ast         .35       Turning radius       Wa         Performances       Wa         .24       Fork carriage (laden / unladen)          .5.1       Travel speed (laden / unladen)          .5.2       Lifting speed (laden / unladen)          .5.3       Lowering speed (laden / unladen)          .5.4       Battery according to DIN 43531/35/36 A, B, C          .5.3       Battery voltage / capacity	531 mm	
Dimensions       11         .19       Overall length       11         .20       Length to face of forks       12         .21       Overall width       b1         .22       Forks section / width / length       s / e / l         .24       Fork carriage width       b3         .32       Ground clearance at centre of wheelbase       m2         .33       Aisle Width for pallets 1000 x 1200 crossways       Ast         .35       Turning radius       Wa         Performances       Wa         .51       Travel speed (laden / unladen)       Wa         .52       Lifting speed (laden / unladen)       Max         .53       Lowering speed (laden / unladen)       Max         .54       Battery according to DIN 43531/35/36 A, B, C       Battery woltage / capacity	380 mm	
20     Length to face of forks     12       21     Overall width     b1       22     Fork s section / width / length     s / e / l       24     Fork carriage width     b3       32     Ground clearance at centre of wheelbase     m2       33     Aisle Width for pallets 1000 x 1200 crossways     Ast       35     Turning radius     Wa       Performances       5.1     Travel speed (laden / unladen)     Wa       5.2     Lifting speed (laden / unladen)     Image: Section / width (length)       5.3     Lowering speed (laden / unladen)     Image: Section / width (length)       5.4     Drive motor rating 32 50 min     Image: Section / width (length)       5.2     Lift motor rating 32 55%     Image: Section / width (length)       5.3     Battery according to DIN 43531/35/36 A, B, C     Settery voltage / capacity		
21       Overall width       b1         22       Forks section / width / length       s / e / l         24       Fork carriage width       b3         32       Ground clearance at centre of wheelbase       m2         33       A isle Width for pallets 1000 x 1200 crossways       A st         35       Turning radius       Wa         Performances       0         5.1       Travel speed (laden / unladen)       0         5.2       Lifting speed (laden / unladen)       0         5.3       Lowering speed (laden / unladen)       0         5.4       Battery according to DIN 43531/35/36 A, B, C       0         5.3       Battery voltage / capacity       0	2160 mm	
22       Forks section / width / length       s / e / l         2.4       Fork carriage width       b3         3.2       Ground clearance at centre of wheelbase       m2         3.3       Aisle Width for pallets 1000 x 1200 crossways       Ast         3.3       Aisle Width for pallets 1000 x 1200 crossways       X         3.3       Turning radius       Wa         Performances       X         3.1       Travel speed (laden / unladen)       X         3.2       Lowering speed (laden / unladen)       X         3.3       Lowering speed (laden / unladen)       X         3.3       Max Gradeability (laden / unladen)       X         3.4       Engine       X         3.5       Drive motor rating 32 60 min       X         3.2       Lift motor rating 32 50 min       X         3.3       Battery according to DIN 43531/35/36 A, B, C       X         3.4       Battery voltage / capacity       X	1010 mm	
24Fork carriage widthb3.32Ground clearance at centre of wheelbasem2.33Aisle Width for pallets 1000 x 1200 crosswaysAst.35Turning radiusWaPerformancesSt.31Travel speed (laden / unladen)St.32Lifting speed (laden / unladen)St.33Lowering speed (laden / unladen)St.34EngineSt.35Drive motor rating 32 60 minSt.32Lift motor rating at S3 15%St.33Battery according to DIN 43531/35/36 A, B, CSt.34Battery voltage / capacitySt	800 mm	
32     Ground clearance at centre of wheelbase     m2       33     Aisle Width for pallets 1000 x 1200 crossways     Ast       35     Turning radius     Wa       Performances     Image: State Stat	60 mm / 185 mm / 1150 mm	
Aisle Width for pallets 1000 x 1200 crossways     Ast       Ast     Wa       Performances     Image: Second Condent Co	700 mm	
35     Turning radius     Wa       Performances     1       5.1     Travel speed (laden / unladen)     1       5.2     Lifting speed (laden / unladen)     1       5.3     Lowering speed (laden / unladen)     1       5.4     Max Gradeability (laden / unladen)     1       5.8     Max Gradeability (laden / unladen)     1       5.8     Max Gradeability (laden / unladen)     1       5.8     Max Gradeability (laden / unladen)     1       5.1     Drive motor rating S2 60 min     1       5.2     Lift motor rating s2 60 min     1       5.3     Battery according to DIN 43531/35/36 A, B, C     1       5.4     Battery voltage / capacity     1	30 mm	
335     Tuming radius     Wa       Performances     1       5.1     Travel speed (laden / unladen)     1       5.2     Lifting speed (laden / unladen)     1       5.3     Lowering speed (laden / unladen)     1       5.4     Max Gradeability (laden / unladen)     1       5.5     Max Gradeability (laden / unladen)     1       5.6     Max Gradeability (laden / unladen)     1       5.7     Drive motor rating S2 60 min     1       5.6     Lift motor rating at S3 15%     1       5.3     Battery according to DIN 43531/35/36 A, B, C     1       5.4     Battery voltage / capacity     1	2999 mm	
5.1       Travel speed (laden / unladen)         5.2       Lifting speed (laden / unladen)         5.3       Lowering speed (laden / unladen)         5.4       Max Gradeability (laden / unladen)         5.8       Max Gradeability (laden / unladen)         5.8       Max Gradeability (laden / unladen)         5.0       Service brake         Engine         5.1       Drive motor rating S2 60 min         5.2       Lift motor rating at S3 15%         5.3       Battery according to DIN 43531/35/36 A, B, C         5.4       Battery voltage / capacity	2143 mm	
5.2       Lifting speed (laden / unladen)         5.3       Lowering speed (laden / unladen)         5.8       Max Gradeability (laden / unladen)         5.8       Max Gradeability (laden / unladen)         5.0       Service brake         Engine         5.1       Drive motor rating S2 60 min         5.2       Lift motor rating at S3 15%         5.3       Battery according to DIN 43531/35/36 A, B, C         5.4       Battery voltage / capacity		
5.3       Lowering speed (laden / unladen)         5.8       Max Gradeability (laden / unladen)         .10       Service brake         Engine       10         5.1       Drive motor rating S2 60 min         5.2       Lift motor rating at S3 15%         5.3       Battery according to DIN 43531/35/36 A, B, C         5.4       Battery voltage / capacity	6 km/h / 6 km/h	
5.8     Max Gradeability (laden / unladen)       .10     Service brake       Engine     Image: Comparison of the service of the	0.18 m/s / 0.30 m/s	
Service brake     Engine       5.1     Drive motor rating \$2 60 min       5.2     Lift motor rating at \$3 15%       5.3     Battery according to DIN 43531/35/36 A, B, C       5.4     Battery voltage / capacity	0.27 m/s / 0.22 m/s	
Engine       Engine         5.1       Drive motor rating \$2 60 min         5.2       Lift motor rating at \$3 15%         5.3       Battery according to DIN 43531/35/36 A, B, C         5.4       Battery voltage / capacity	7 % / 10 %	
b.1     Drive motor rating S2 60 min       b.2     Lift motor rating at S3 15%       b.3     Battery according to DIN 43531/35/36 A, B, C       b.4     Battery voltage / capacity	Electro magnetic	
5.2       Lift motor rating at S3 15%         5.3       Battery according to DIN 43531/35/36 A, B, C         5.4       Battery voltage / capacity		
5.3     Battery according to DIN 43531/35/36 A, B, C       5.4     Battery voltage / capacity	1.50 kW	
.4 Battery voltage / capacity	3 kW	
	DIN 43535-B	
4.1 Battery max. capacity	24 V / 270 Ah	
	375 A	
5.5 Battery weight (+/- 5%)	255 kg	
5.1 Battery max. weight	305 kg	
Miscellaneous		

## AMR ES 612 - Dimensional drawing





## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 29	FVD 34	FVD 38	FVD 43
h1 - Mast lowered height	mm	1953	2203	2403	2653
h3 - Mast lifting height	mm	2936	3436	3836	4336
h4 - Mast extended height	mm	3390	3890	4290	4790
Residual capacity at max height	kg	1200	1050	800	650



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