

MOBILE ROBOTS

advanced autonomous intralogistics

VARIO MOVE



Innovative.
Efficient.
Intelligent.

VARIO MOVE

Powerful and efficient, safe and precise, sustainable and economical – that's our VARIO MOVE! Shaped by decades of experience, an uncompromising quality standard and the passion for technology, this transport robot is designed for effective optimization of your transport and material flows.

1

Drive unit

The VARIO MOVE drive unit with standard interface to the various handling devices according to task

2

Driving mechanism

The matching attachments for the VARIO MOVE transport robots with lift mast and forks

3

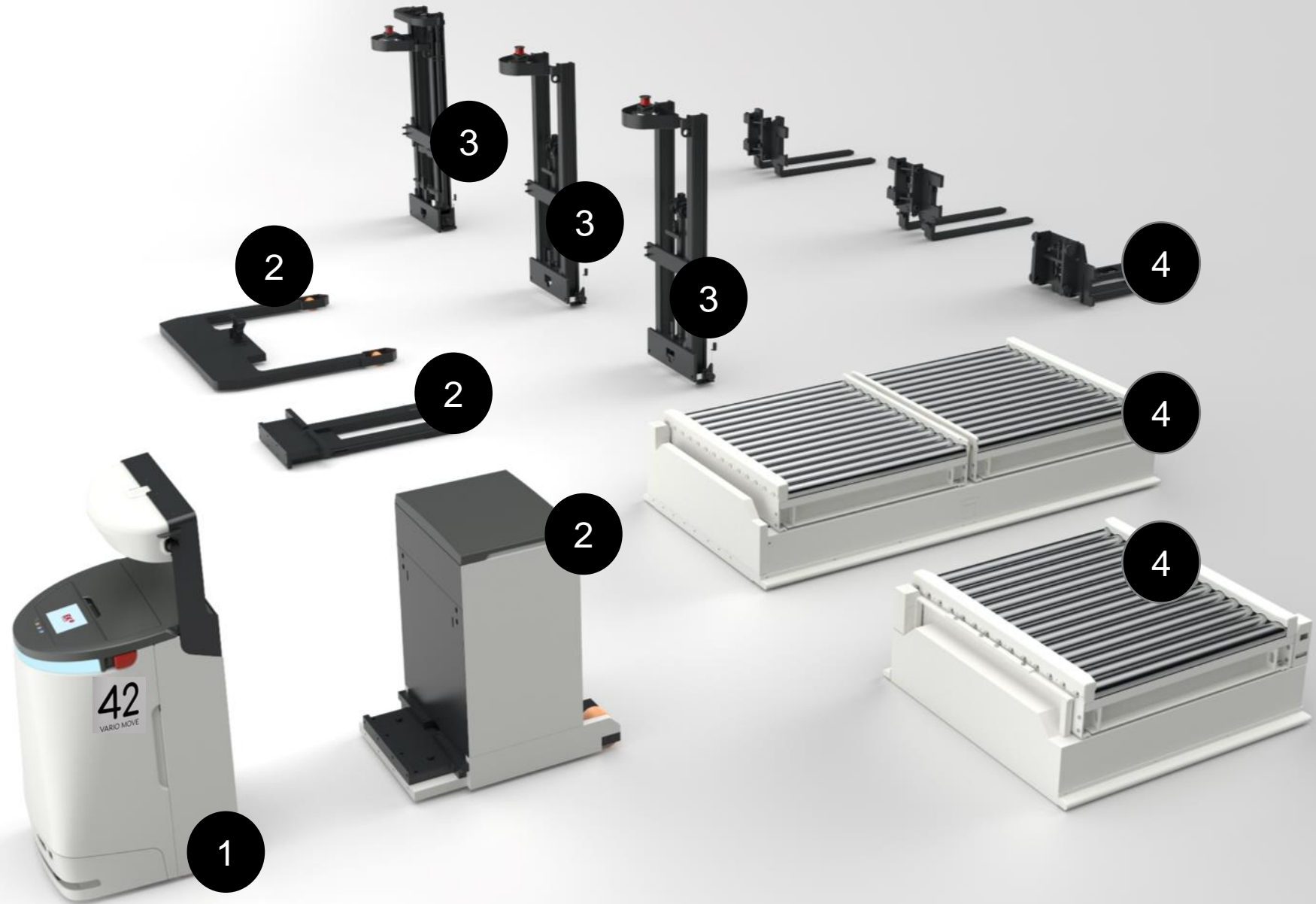
Lift mast

An optimised selection of lifting masts is available for the VARIO MOVE

4

Load handling devices

Different forks and active conveyor attachments offer a wide range of applications for the VARIO MOVE



VARIO MOVE

TECHNICAL DATA

| | | VARIO MOVE L | VARIO MOVE CB 06 | VARIO MOVE CB 12 | VARIO MOVE CB 16 |
|--|----|-----------------|---------------------|---------------------|---------------------|
| Drive unit | | Electric | Electric | Electric | Electric |
| Operation | | Manual control | Manual control | Manual control | Manual control |
| Load capacity | kg | 1.600 | 600 | 1.200 | 1.600 |
| Load centre | mm | 600 | 600 | 600 | 600 |
| Own weight ¹ | kg | 1.862 | 2.480 | 2.597 | 2.677 |
| Wheels | | Vulkollan / PU | Vulkollan / PU | Vulkollan / PU | Vulkollan / PU |
| Wheel size, front | mm | Ø 254 x 100 | Ø 254 x 100 | Ø 254 x 100 | Ø 254 x 100 |
| Wheel size, rear | mm | Ø 82 x 91 | Ø 150 x 80 | Ø 150 x 80 | Ø 150 x 80 |
| Additional wheels | mm | Ø 197 x 125 | - | - | - |
| Wheels, number front/rear (x = driven) | | 1 x + 4/4 | 1 x / 4 | 1 x / 4 | 1 x / 4 |
| Total width | mm | 868 | 868 | 868 | 868 |
| Total length ² | mm | 2.190 | 2.435 | 2.735 | 2.935 |

¹ lift mast Duplex 2.800 mm , battery 24 V/105 Ah

² Fork length 1,150 mm



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| | | VARIO MOVE L | VARIO MOVE CB 06 | VARIO MOVE CB 12 | VARIO MOVE CB 16 |
|--|------------------|-----------------|---------------------|---------------------|---------------------|
| Lifting height | m | up to 5 | up to 5 | up to 5 | up to 5 |
| Ground clearance | mm | 25 | 25 | 25 | 25 |
| Turning radius | mm | 1.677 | 1.169 | 1.462 | 1.660 |
| Driving speed with / without load ¹ | m/s | 1,7 / 2,0 | 2,0 / 2,0 | 1,7 / 2,0 | 1,5 / 2,0 |
| Driving speed manual | m/s | 0,3 | 0,3 | 0,3 | 0,3 |
| Lifting speed with / without load | m/s | 0,15 / 0,25 | 0,15 / 0,25 | 0,15 / 0,25 | 0,15 / 0,25 |
| Lowering speed with / without load | m/s | 0,25 / 0,25 | 0,25 / 0,25 | 0,25 / 0,25 | 0,25 / 0,25 |
| Max. climbing ability with / without load | % | 6,0 / 10,0 | 6,0 / 10,0 | 6,0 / 10,0 | 4,0 / 10,0 |
| Brake | | Electr. / Mech. | Electr. / Mech. | Electr. / Mech. | Electr. / Mech. |
| Max. acceleration with / without load | m/s ² | 0,3 / 0,3 | 0,3 / 0,3 | 0,3 / 0,3 | 0,3 / 0,3 |
| Traversable gap and threshold tolerance | mm | 10 | 10 | 10 | 10 |
| Position accuracy | mm | +/- 10 | +/- 10 | +/- 10 | +/- 10 |

¹ 1 lift mast Duplex 2.800 mm , battery 24 V/105 Ah



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| | | VARIO MOVE L | VARIO MOVE CB 06 | VARIO MOVE CB 12 | VARIO MOVE CB 16 |
|---|--------|-----------------|---------------------|---------------------|---------------------|
| Drive motor | kW | 2,3 | 2,3 | 2,3 | 2,3 |
| Lift motor | kW | 3,2 | 3,2 | 3,2 | 3,2 |
| Charger | V/A | 24 / 200 | 24 / 200 | 24 / 200 | 24 / 200 |
| Battery voltage / nominal capacity ¹ | V/Ah | 24 / 105 | 24 / 105 | 24 / 105 | 24 / 105 |
| Battery weight (+/- 5%) | kg | 290 | 290 | 290 | 290 |
| Charging time 60 to 80 | min | 10 | 10 | 10 | 10 |
| Min. number of complete charging cycles | | 3.000 | 3.000 | 3.000 | 3.000 |
| Noise pressure level according to EN 12053 | dB (A) | < 72 | < 72 | < 72 | < 72 |

¹ Optional battery capacity 150, 210, 300 and 420 Ah available



INFINITE COLORS OF TRANSPORT



MOBILE ROBOTS

by DAHL ROBOTICS

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