Technical sheet:

ER 14



| Marufacture | | Technical characteristics | | Metric |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------|-----|-------------------------|
| 1.4 Openot type | 1.1 | Manufacturer | | MANITOU |
| 1.5 | 1.2 | Model Name | | ER 14 |
| 1.5 | 1.3 | Power source | | Electrical |
| 1.6 | 1.4 | Operator type | | Seated |
| 1.0 Wheelbase Y 1378 mm | 1.5 | Max. capacity | Q | 1400 kg |
| 1.9 Wheelbase Wheelbase | 1.6 | Load center of gravity | С | 600 mm |
| | 1.8 | Load distance, centre of drive axle to fork | х | 307 mm |
| | 1.9 | Wheelbase | у | 1378 mm |
| Wheels | | Weight | | |
| 1 1 1 1 1 1 1 1 1 1 | 2.1 | Service weight | | 2710 kg |
| 3.5.2 Number of drive wheels - Size of Indiv wheels 1 x 355 x 155 3.3 Number of Indiv wheels - Size of Indiv wheels 2 x 220 x 85 3.5 Number of Indiv wheels - Year wheels 1 1 / 2 3.6 Front wheel gauge b10 0 mm 3.7 Bear wheel gauge b10 0 mm 4.8 Sea helph/stand height h7 1077 mm 4.9 Overall widh i1 243 mm 4.20 Length to face of focks i2 1263 mm 4.21 Overall widh (length s / e / 1 40m mx 100 mm 4.22 Fock section / widh / length s / e / 1 40m mx 100 mm 4.23 Fock section / widh / length s / e / 1 40m mx 100 mm 110 mm 4.23 Fock section / widh / length s / e / 1 40m mx 100 mm 110 mm 4.23 Fock section / widh / length s / e / 1 40m mx 100 mm 110 mm 4.24 Distance between wheel ams/loading surfaces b4 900 mm 425 4.25 Widh over forks min. / max. b5 | | Wheels | | |
| 3.3 Number of Iond wheels - Size of load wheels 2 x 220 x 85 3.5 Number of Iond wheels / rear wheels 1 / 2 3.6 Front wheel gauge b10 0 mm 3.7 Rear wheel gauge b11 995 mm 4.8 Seat height/stand height h7 1077 mm 4.19 Overall length I1 2413 mm 4.20 Length to face of forks I2 1263 mm 4.21 Overall width b1 1120 mm 4.22 Fork section / width / length s / e / I 40 mm x 100 mm / 1150 mm 4.23 Fork section / width / length s / e / I 40 mm x 100 mm / 1150 mm 4.22 Fork section / width / length s / e / I 40 mm x 100 mm / 1150 mm 4.22 Fork section / width / length s / e / I 40 mm x 100 mm / 1150 mm 4.23 Fork section / width / length s / e / I 40 mm x 100 mm / 1150 mm 4.24 Growt destances a catenth of wheelbase m2 70 mm 4.25 Ground destances a catenthe of wheelbase m2 70 mm | 3.1 | Tires type | | Vulkollan |
| 3.3 Number of Iond wheels - Size of load wheels 2 x 220 x 85 3.5 Number of Iond wheels / rear wheels 1 / 2 3.6 Front wheel gauge b10 0 mm 3.7 Rear wheel gauge b11 995 mm 4.8 Seat height/stand height h7 1077 mm 4.19 Overall length I1 2413 mm 4.20 Length to face of forks I2 1263 mm 4.21 Overall width b1 1120 mm 4.22 Fork section / width / length s / e / I 40 mm x 100 mm / 1150 mm 4.23 Fork section / width / length s / e / I 40 mm x 100 mm / 1150 mm 4.22 Fork section / width / length s / e / I 40 mm x 100 mm / 1150 mm 4.22 Fork section / width / length s / e / I 40 mm x 100 mm / 1150 mm 4.23 Fork section / width / length s / e / I 40 mm x 100 mm / 1150 mm 4.24 Growt destances a catenth of wheelbase m2 70 mm 4.25 Ground destances a catenthe of wheelbase m2 70 mm | 3.5.2 | | | 1 x 355 x 155 |
| 3.5 Number of front wheels / rear wheels 1 / 2 3.6 Front wheel gauge b10 0 mm 3.7 Rear wheel gauge b11 995 mm 510 11 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 1 | | | | |
| 3.6 Front wheel gauge b10 0 mm 3.7 Rear wheel gauge b11 995 mm 4.8 Seat height/stand height 17 1077 mm 4.19 Overall length 11 2413 mm 4.20 Length to face of forks 12 1223 mm 4.21 Overall width 51 (200 mm) 110 mm 4.22 Fork section / width / length 5 (7) 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 23/38 (class/form) A/IB 2 A 2A 4.25.1 Width over forks min. / max. 55 316 mm / 697 mm 4.25.1 Width over forks min. / max. 55 316 mm / 697 mm 4.25.2 Ground clearance at centre of wheelbase m2 70 mm 4.32 As le width for 800 x 1200 pallet lengthways As t 2768 mm 4.33 Alse width for 800 x 1200 pallet lengthways Max 1539 mm 4.34 Alsi width for 800 x 1200 pallet lengthways Mx 1539 mm 5.1 Travel speed (laden / unladen) Mx 1539 mm | | Number of front wheels / rear wheels | | |
| Rear wheel gauge | | Front wheel gauge | b10 | |
| | | | b11 | 995 mm |
| 4.8 Seat height/stand height h7 1077 mm 4.19 Overall length I1 2413 mm 4.20 Length to face of forks I2 1265 mm 4.21 Overall width b1 1120 mm 4.22 Fork sexinge ISO 2328 (class/form) A/B s e /l 40 mmx 100 mm / 1150 mm 4.23 Fork carriage ISO 2328 (class/form) A/B b4 900 mm 4.26 Distance between wheel arms/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Asise width for 1000 x 1200 pallet lengthways Ast 22701 mm 4.34 Alsie width for 800 x 1200 pallet lengthways Ast 2768 mm 4.35 Tuming radius Wa 1598 mm 4.37 Height of overhead guard (cabin) Ma 1598 mm 5.3 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.20 m/s / 0.20 m/s | | | | |
| 4.19 Overall length 11 2413 mm 4.20 Length to face of forks 12 1263 mm 4.21 Overall width b1 1120 mm 4.22 Fork section / width / length s / e / l 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2282 (class/form) A/B 2A 4.26 Distance between wheel amms/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 310 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Alsie width for 1000 x 1200 pallet lengthways Ast 2768 mm 4.34 Alsie width for 8000 x 1200 pallet lengthways Ast 2768 mm 4.35 Tuming radius Wa 1598 mm 4.37 Travillage Glader / unlader b6 2205 mm 5.1 Travel speed (lader / unlader) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (lader / unlader) 0.49 m/s / 0.65 m/s 5.3 Lowering speed (lader / unlader) 0.9 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.9 m/s / 0.50 m/s 5.7 | 4.8 | | h7 | 1077 mm |
| 4.20 Length to ace of forks 12 1263 mm 4.21 Overall width b1 1120 mm 4.22 Forks section / width / length s / e/1 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2328 (class/form) A/B 2A 4.26 Distance between wheel arms/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 22701 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2768 mm 4.35 Turning radius Wa 1598 mm 4.7 Height of overhead guard (cabin) b6 2205 mm 4.7 Height of overhead guard (without load) 12.30 km/h / 12.50 km/h 5.1 Travel speed (laden / unladen) 0.9 m/s / 0.55 m/s 5.4.1 Reach speed (with out of without load) 0.9 m/s / 0.55 m/s 5.5.1 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s 7.50 x / 11.10 x <td></td> <td></td> <td></td> <td>2413 mm</td> | | | | 2413 mm |
| 4.21 Overall width b1 1120 mm 4.22 Forks section / width / length s / e / l 40 mm x 100 mm / 1150 mm 4.23 Fork carriage ISO 2328 (class/form) A/B 2A 4.26 Di Stance between wheel ams/loading surfaces b4 900 mm 4.25.1 Width over forks min / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aslie width for 1000 x 1200 pallet lengthways Ast 2701 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2706 mm 4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead guard (cabin) Ma 1598 mm 4.7 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Liffing speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.3 Lowering speed (laden / unladen) 0.59 m/s / 0.55 m/s 5.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 k / 11.10 k 5.10 | | | | 1263 mm |
| 4.22 Forks section / width / length s / e/l 40 mm x 100 mm / 1150 mm 4.23 Fork carniage ISO 2328 (class/form) A/B 2A 4.26 Distance between wheel arms/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2701 mm 4.35 Turning radius Wa 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm 4.7 Height of overhead guard (aben / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.49 m/s / 0.55 m/s 5.3 Lowering speed (laden / unladen) 0.59 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.59 m/s / 0.55 m/s 5.7 Service brake Electric 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Liff motor rating \$2.50 min 11 kW 6.3 Battery voltage / capacity 48 V / | | | | 1120 mm |
| 4.23 Fork carriage ISO 2328 (class/form) A/B 2A 4.26 Distance between wheel arms/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2701 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2768 mm 4.35 Tuming radius Ma 1598 mm 4.7 Height of overhead guard (cabin) M6 2205 mm Performances 5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.59 m/s / 0.65 m/s 5.3 Lowering speed (laden / unladen) 0.59 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s 5.0 Service brake Electric 6.1 Diive motor rating 32 50 min 5.90 kW 6.2 | | | | |
| 4.26 Distance between wheel ams/loading surfaces b4 900 mm 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at cente of wheelbase m2 70 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2701 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2766 mm 4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm 6.7 Performances 12.30 km/h / 12.50 km/h 12.30 km/h / 12.50 km/h 5.1 Tavel speed (laden / unladen) 0.49 m/s / 0.65 m/s 0.59 m/s / 0.55 m/s 5.3 Lowering speed (laden / unladen) 0.59 m/s / 0.55 m/s 0.59 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 7.50 % / 11.10 % 0.50 m/s / 0.20 m/s 5.1 Gradeability (laden / unladen) 7.50 % / 11.10 % 0.00 m/s / 0.20 m/s 5.1 Service brake Electric Electric 6.1 Driwe motor rating S2 60 min 5.90 kW 11 kW | | - | | |
| 4.25.1 Width over forks min. / max. b5 316 mm / 697 mm 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways Ast 2761 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Wa 1598 mm 4.35 Turning radius Wa 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm 4.7 Height of overhead guard (cabin) h6 2205 mm 5.1 Travel speed (laden / unladen) 0.49 m/s / 0.65 m/s 0.59 m/s / 0.55 m/s 5.2 Lifting speed (laden / unladen) 0.59 m/s / 0.55 m/s 0.59 m/s / 0.50 m/s 5.3 Lowering speed (laden / unladen) 0.20 m/s / 0.20 m/s 0.20 m/s / 0.20 m/s 5.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 1.1 kW 5.10 Senice brake Electric 6.1 Drive motor rating \$2.50 min 5.90 kW 6.2 Lift motor rating \$2.50 min 5.90 kW 6.3 Battery voltage / | | | b4 | |
| 4.32 Ground clearance at centre of wheelbase m2 70 mm 4.33 Aisle width for 1000 x 1200 pallet lengthways 2701 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2768 mm 4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm Performances 5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.49 m/s / 0.65 m/s 5.3 Lowering speed (laden / unladen) 0.59 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s 5.10 Service brake Electric Engine Electric 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery weight (+/- 5%) 731 kg Miscellaneous Electronic 8.1 Type of drive control | | - | | |
| 4.33 Aisle width for 1000 x 1200 pallet lengthways 2701 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 2768 mm 4.35 Tuming radius Wa 1598 mm 4.7 Height of overhead guard (cabin) h6 2205 mm Performances 5.1 Travel speed (laden / unladen) 12.30 km/h / 12.50 km/h 5.2 Lifting speed (laden / unladen) 0.49 m/s / 0.65 m/s 5.3 Lowering speed (laden / unladen) 0.59 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 0.20 m/s / 0.20 m/s 5.10 Service brake Electric Engine Electric 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating \$2.60 min 5.90 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 465 Ah 6.5 Battery weight (+/- 5%) 731 kg Miscellaneous 8.1 Type of drive control Electronic | | Ground clearance at centre of wheelbase | | |
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| 5.3 Lowering speed (laden / unladen) 0.59 m/s / 0.55 m/s 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating S2 60 min 5.90 kW 6.2 Lift motor rating at S3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 465 Ah 6.5 Battery weight (+/- 5%) 731 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min | | | | |
| 5.4.1 Reach speed (with load / without load) 0.20 m/s / 0.20 m/s 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating S2 60 min 5.90 kW 6.2 Lift motor rating at S3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 465 Ah 6.5 Battery weight (+/- 5%) 731 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min | | | | |
| 5.7 Gradeability (laden / unladen) 7.50 % / 11.10 % 5.10 Service brake Electric Engine 6.1 Drive motor rating S2 60 min 5.90 kW 6.2 Lift motor rating at S3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 465 Ah 6.5 Battery weight (+/- 5%) 731 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min | | - , , | | |
| 5.10 Service brake Electric Engine Companies 6.1 Drive motor rating \$2.60 min 5.90 kW 6.2 Lift motor rating at \$3.15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 465 Ah 6.5 Battery weight (+/- 5%) 731 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min | | | | |
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| 6.2 Lift motor rating at \$3 15% 11 kW 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 465 Ah 6.5 Battery weight (+/- 5%) 731 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min | 6.1 | - | | 5 90 kW |
| 6.3 Battery according to DIN 43531/35/36 A, B, C DIN43531 B 6.4 Battery voltage / capacity 48 V / 465 Ah 6.5 Battery weight (+/- 5%) 731 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min | | | | |
| 6.4 Battery voltage / capacity | | - | | |
| 6.5 Battery weight (+/- 5%) 731 kg Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min | | | | |
| Miscellaneous 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min | | , , , | | |
| 8.1 Type of drive control Electronic 8.3 Oil flow rate for attachments 25 l/min | 0.0 | , <u> </u> | | , 51 kg |
| 8.3 Oil flow rate for attachments 25 l/min | 8.1 | | | Electronic |
| | | • | | |
| | 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 57.40 dB |

ER 14 - Dimensional drawing



Characteristics of masts and residual capacities

| Free Lift Triplex (FLT) | FLT 48 | FLT 54 | FLT 57 | FLT 63 | FLT 68 | FLT 73 | |
|------------------------------------------------------------|--------|--------|--------|--------|--------|--------|------|
| α - Mast/fork carriage tilt, forward | | 3 | 3 | 3 | 3 | 3 | 3 |
| β - Mast/fork carriage tilt, backward | ۰ | 1 | 1 | 1 | 1 | 1 | 1 |
| h1 - Mast lowered height | mm | 2140 | 2340 | 2440 | 2640 | 2790 | 2957 |
| h2 - Mast free lift | mm | 1600 | 1800 | 1900 | 2100 | 2250 | 2417 |
| h3 - Mast lifting height | mm | 4800 | 5400 | 5700 | 6300 | 6800 | 7300 |
| h4 - Mast extended height | mm | 5380 | 5980 | 6280 | 6880 | 7330 | 7830 |
| Residual capacity with integrated side shift at max heigth | kg | 1400 | 1400 | 1400 | 1000 | 700 | |





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