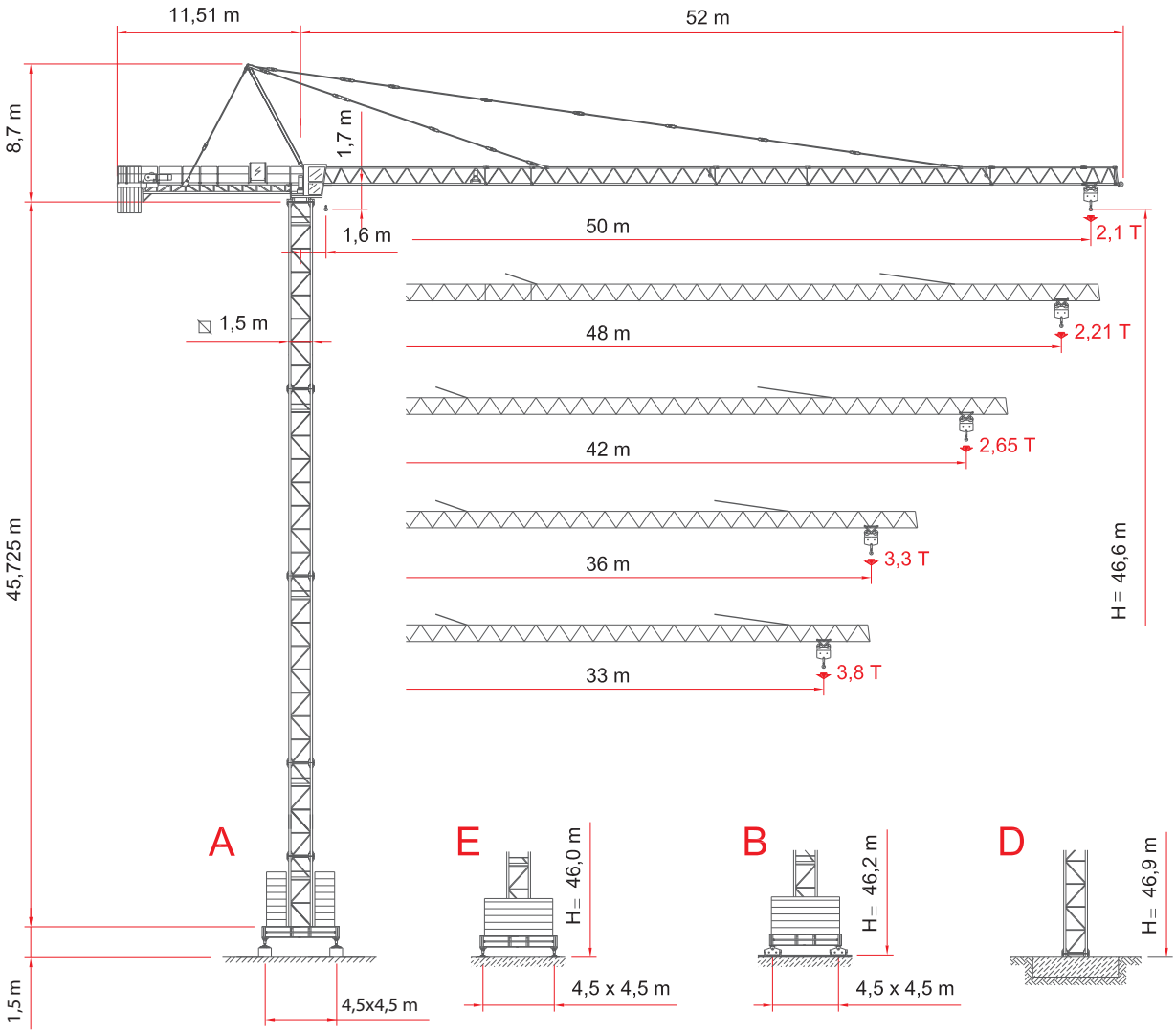
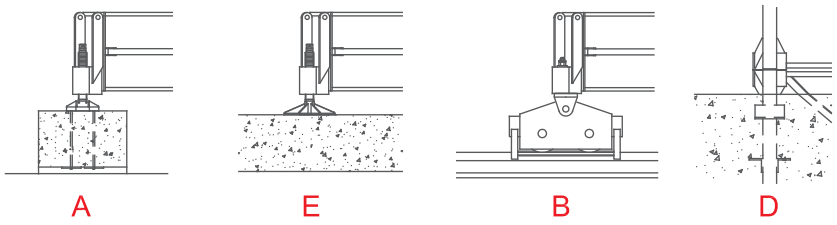
# RAIMONDI
# MR 108

| | | |
|---|---|---|
| Portée maximale : | **50** | m |
| Charge en bout de flèche : | **2.100** | kg |
| Charge maximale : | **8.000** | kg |
| Hauteur sous crochet (autoportante) : | **46,6** | m |

RAIMONDI · MR 108 **50 mt**

## Schéma de levage et configurations




H1 B3 DIN151018 / A4 FEM1,001

**H** = Height under hook
Altezza sotto gancio
Hauteur sous crochet
Altura bajo el gancho
Высота под крюком

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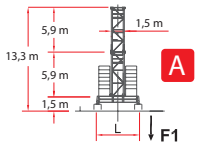
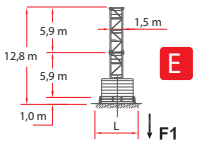
## Configuration du mât et réactions d'appui

### 1,5 - L=3,8 mt.

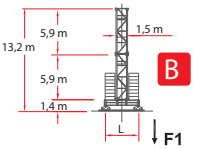
| | H (m) | Z (t) | F1 (kN) |
|---|---|---|---|
| 7 | - | - | - |
| 6 | - | - | - |
| 5 | 42,2 | 88,5 | 684 |
| 4 | 36,3 | 68,8 | 561 |
| 3 | 30,4 | 51,1 | 505 |
| 2 | 24,5 | 51,1 | 443 |
| (5,9 m) +1 | 18,6 | 51,1 | 419 |




| | H (m) | Z (t) | F1 (kN) |
|---|---|---|---|
| 7 | - | - | - |
| 6 | - | - | - |
| 5 | 41,8 | 88,5 | 670 |
| 4 | 35,9 | 70,8 | 549 |
| 3 | 30,0 | 53,1 | 478 |
| 2 | 24,1 | 53,1 | 446 |
| (5,9 m) +1 | 18,2 | 53,1 | 420 |

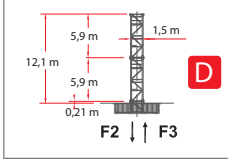



| | H (m) | Z (t) | F1 (kN) |
|---|---|---|---|
| 7 | - | - | - |
| 6 | - | - | - |
| 5 | 41,6 | 88,5 | 666 |
| 4 | 35,7 | 70,8 | 539 |
| 3 | 29,8 | 53,1 | 470 |
| 2 | 23,9 | 53,1 | 443 |
| (5,9 m) +1 | 18,0 | 53,1 | 418 |



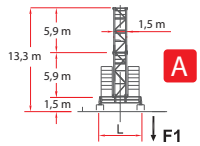

### 1,5 mt.

| | H (m) | F2 (kN) | F3 (kN) |
|---|---|---|---|
| 7 | - | - | - |
| 6 | 46,9 | 1260 | 1048 |
| 5 | 41,0 | 978 | 776 |
| 4 | 35,1 | 834 | 601 |
| 3 | 29,2 | 756 | 533 |
| 2 | 23,3 | 692 | 479 |
| (5,9 m) +1 | 17,4 | 640 | 436 |

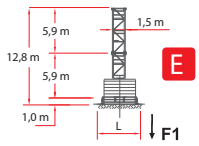



### 1,5 - L=4,5 mt.

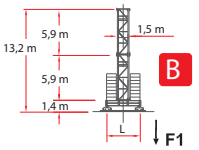
| | H (m) | Z (t) | F1 (kN) |
|---|---|---|---|
| 7 | - | - | - |
| (4,4 m) 6 | 46,6 | 86,5 | 716 |
| 5 | 42,2 | 74,7 | 573 |
| 4 | 36,3 | 57,0 | 476 |
| 3 | 30,4 | 45,2 | 419 |
| 2 | 24,5 | 39,3 | 378 |
| (5,9 m) +1 | 18,6 | 39,3 | 366 |




| | H (m) | Z (t) | F1 (kN) |
|---|---|---|---|
| 7 | - | - | - |
| (4,4 m) 6 | 46,2 | 82,6 | 686 |
| 5 | 41,8 | 64,9 | 546 |
| 4 | 35,9 | 53,1 | 466 |
| 3 | 30,0 | 41,3 | 416 |
| 2 | 24,1 | 35,4 | 378 |
| (5,9 m) +1 | 18,2 | 35,4 | 357 |

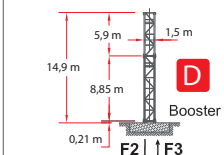



| | H (m) | Z (t) | F1 (kN) |
|---|---|---|---|
| 7 | - | - | - |
| (4,4 m) 6 | 46,0 | 82,6 | 676 |
| 5 | 41,6 | 70,8 | 534 |
| 4 | 35,7 | 53,1 | 466 |
| 3 | 29,8 | 41,3 | 410 |
| 2 | 23,9 | 35,4 | 372 |
| (5,9 m) +1 | 18,0 | 35,4 | 351 |



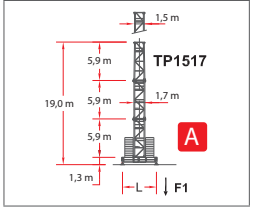

### 1,5 mt.

| | H (m) | F2 (kN) | F3 (kN) |
|---|---|---|---|
| 7 | 55,7 | 1685 | 1436 |
| 6 | - | - | - |
| 5 | - | - | - |
| 4 | - | - | - |
| 3 | - | - | - |
| 2 | - | - | - |
| (5,9 m) +1 | - | - | - |



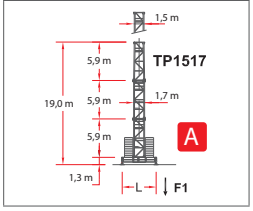

### 1,7/1,5 - L=4,5 mt.

| | H (m) | Z (t) | F1 (kN) |
|---|---|---|---|
| 6 | 54,3 | 88,5 | 891 |
| 5 | - | - | - |
| 4 | - | - | - |
| 3 | - | - | - |
| 2 | - | - | - |
| (5,9 m) +1 | - | - | - |



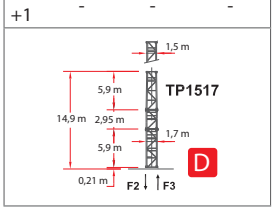

### 1,7/1,5 - L=6,0 mt.

| | H (m) | Z (t) | F1 (kN) |
|---|---|---|---|
| 6 | 54,4 | 59,0 | 657 |
| 5 | - | - | - |
| 4 | - | - | - |
| 3 | - | - | - |
| 2 | - | - | - |
| (5,9 m) +1 | - | - | - |




### 1,7/1,5 mt.

| | H (m) | F2 (kN) | F3 (kN) |
|---|---|---|---|
| 7 | 55,7 | 1745 | 1509 |
| 6 | - | - | - |
| 5 | - | - | - |
| 4 | - | - | - |
| 3 | - | - | - |
| 2 | - | - | - |
| (5,9 m) +1 | - | - | - |



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## Diagramme de charge

| Portata max / Max s.w.l.<br>Charge maxi / Max. Tragfähigkeit | | 6000 Kg. / 3000 Kg. | | | | | 8000 Kg. / 4000 Kg. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sbraccio / Jib<br>Auslandung /Portée | m. | 33 | 36 | 42 | 48 | 50 | 33 | 36 | 42 | 48 | 50 |
| Campo di portata max da<br>Max s.w.l. range from<br>Charge maxi de<br>Max. Tragfähigkeit von | 1,6 m a<br>to<br>à<br>bis | 21,96 | 21,19 | 20,51 | 20,14 | 20,11 | 16,92 | 16,33 | 15,81 | 15,53 | 15,52 |
| Sbraccio (m.)<br>Radius (m.)<br>Portée (m.)<br>Ausladung (m.) | 12 | 6000 | 6000 | 6000 | 6000 | 6000 | 8000 | 8000 | 8000 | 8000 | 8000 |
| | 14 | 6000 | 6000 | 6000 | 6000 | 6000 | 8000 | 8000 | 8000 | 8000 | 8000 |
| | 16 | 6000 | 6000 | 6000 | 6000 | 6000 | 8000 | 8000 | 7896 | 7744 | 7735 |
| | 18 | 6000 | 6000 | 6000 | 6000 | 6000 | 7475 | 7189 | 6931 | 6797 | 6789 |
| | 20 | 6000 | 6000 | 6000 | 6000 | 6000 | 6654 | 6398 | 6167 | 6047 | 6040 |
| | 22 | 5988 | 5756 | 5547 | 5438 | 5431 | 5988 | 5756 | 5547 | 5438 | 5431 |
| | 24 | 5436 | 5224 | 5033 | 4933 | 4927 | 5436 | 5224 | 5033 | 4933 | 4927 |
| | 26 | 4972 | 4776 | 4601 | 4509 | 4503 | 4972 | 4776 | 4601 | 4509 | 4503 |
| | 28 | 4576 | 4394 | 4232 | 4147 | 4141 | 4576 | 4394 | 4232 | 4147 | 4141 |
| | 30 | 4234 | 4065 | 3913 | 3834 | 3829 | 4234 | 4065 | 3913 | 3834 | 3829 |
| | 32 | 3935 | 3777 | 3635 | 3561 | 3557 | 3935 | 3777 | 3635 | 3561 | 3557 |
| | 33 | 3800 | 3647 | 3509 | 3437 | 3433 | 3800 | 3647 | 3509 | 3437 | 3433 |
| | 34 | | 3524 | 3391 | 3321 | 3317 | | 3524 | 3391 | 3321 | 3317 |
| | 36 | | 3300 | 3174 | 3108 | 3104 | | 3300 | 3174 | 3108 | 3104 |
| | 38 | | | 2981 | 2918 | 2915 | | | 2981 | 2918 | 2915 |
| | 40 | | | 2807 | 2748 | 2744 | | | 2807 | 2748 | 2744 |
| | 42 | | | 2650 | 2594 | 2590 | | | 2650 | 2594 | 2590 |
| | 44 | | | | 2454 | 2451 | | | | 2454 | 2451 |
| | 46 | | | | 2327 | 2324 | | | | 2327 | 2324 |
| | 48 | | | | 2210 | 2207 | | | | 2210 | 2207 |
| | 50 | | | | | 2100 | | | | | 2100 |

Con sistema 'ULTRALIFT" tutte le portate intermedie sono aumentate dei 10%
All intermediate loads are increased of 10% if the crane is equipped with "ULTRALIFT" control
Les charges intermdiaires sont augmentes de 10% si la grue est équipée avec controle "ULTRALIFT"

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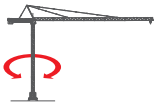
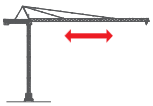
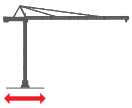
## Mécanismes

| | | Velocità - Speed<br>Vitesse - Geschwindigkeit | Potenza - Power<br>Puissance - Leistung |
|---|---|---|---|
| Rotazione<br>Slewing<br>Orientation<br>Schwenken |  | 0,23 / 0,47 / 0,71 min $^{-1}$ | 2 x 4 Kw |
| Carrello<br>Trolley<br>Chariot<br>Katzfahren |  | 18,8 / 35,2 / 54 m/min<br>Progressivo - Progressive | 5,5 Kw |
| Traslazione<br>Rail<br>Translation<br>Kranfahren |  | 18 m/min | 2 x 3 Kw |

| Tipo - Type - Tipe - Type  | Potenza-power<br>puissance - Leistung | | Fune<br>rope<br>cable<br>Seil | Marcia<br>Step<br>Vitesse<br>Gang | Carico<br>load<br>charge<br>last | Velocità<br>speed<br>Geschw<br>vitesse | Carico<br>load<br>charge<br>last | Velocità<br>speed<br>Geschw<br>vitesse |
|---|---|---|---|---|---|---|---|---|
| | CV - ch<br>PS - hp | kW | m | | kg | m/min | kg | m/min |
| 40 HP - 6 VF | 40 | 30 | 240<br>450 LB | 1 | 3000 | 7 | 6000 | 3,5 |
| | | | | 2 | 3000 | 25 | 6000 | 12,5 |
| | | | | 3 | 3000 | 43 | 6000 | 21,5 |
| | | | | 4 | 1500 | 68 | 3000 | 34 |
| | | | | 5 | 1000 | 93 | 2000 | 46,5 |
| | | | | 5 (*) | 600 | 100 | 1200 | 50 |
| 40 HP - 8 VF | 40 | 30 | 240<br>450 LB | 1 | 4000 | 7 | 8000 | 3,5 |
| | | | | 2 | 4000 | 25 | 8000 | 12,5 |
| | | | | 3 | 4000 | 43 | 8000 | 21,5 |
| | | | | 4 | 2200 | 68 | 4400 | 34 |
| | | | | 5 | 1300 | 93 | 2600 | 46,5 |
| | | | | 5 (*) | 600 | 100 | 1200 | 50 |
| 60 HP - 8 VF | 60 | 45 | 780 LB | 1 | 4000 | 8 | 8000 | 4 |
| | | | | 2 | 4000 | 24 | 8000 | 12 |
| | | | | 3 | 4000 | 40 | 8000 | 20 |
| | | | | 4 | 2200 | 64 | 4400 | 32 |
| | | | | 5 | 1300 | 80 | 2600 | 40 |
| | | | | 5 (*) | 600 | 96 | 1200 | 48 |

Conforme alla direttiva 2000/14/CE sul livello acustico - In compliance with the 2000/14/CE instruction on noise level - Conforme directive 2000/14/CE sur le niveauacoustique - Gemiss 2000/14/CE ber Schall - Leistungspegel - Conforme con la directive 2000/14/CE sobre el nivei acustico

| Forza motrice totale - Total installed power<br>Puissance totale des moteurs - Gesamt-motorenleistung | 30 Kw (40 HP) | 45 Kw (60 HP) |
|---|---|---|
| (*) speed automatically controlled by a current sensor / velocità regolata automaticamente da sensore di corrente / vitesse réglée automatiquement par capteur de courant / acelerar controlado automáticamente por un sensor de corriente / скорость автоматически регулируется датчиком тока | 35 Kw | 47 Kw |

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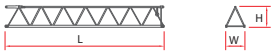
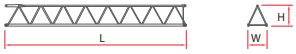
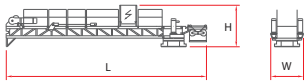
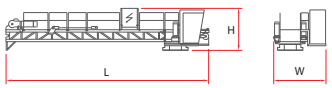
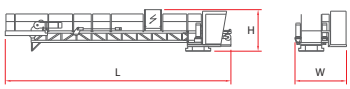
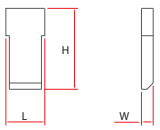
## Liste de colisage (1/3)

| Pos. Item | Pezzi Pieces | Denominazione Description | | Schizzo Sketch | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | Elemento di freccia<br>Jib element<br>Elèment de flèche<br>Ausleger | n° 1 |  | 11,780 | 1,200 | 1,451 | 972 | - |
| | 1 | | n° 2 |  | 3,070 | 1,200 | 1,180 | 233 | - |
| | 1 | | n° 3 |  | 11,770 | 1,200 | 1,180 | 843 | - |
| | 1 | | n° 4 |  | 5,970 | 1,200 | 1,180 | 400 | - |
| | 1 | | n° 5 |  | 11,760 | 1,200 | 1,810 | 368 | - |
| | 1 | | n° 6 |  | 5,960 | 1,200 | 1,180 | 368 | - |
| | 1 | | n° 7 |  | 2,130 | 1,200 | 1,180 | 160 | - |
| | 1 | Puntale freccia<br>Jib point<br>Elèment pointe<br>Spitzelement | |  | 1,315 | 1,200 | 1,300 | 75 | - |
| 2 | 1 | Cuspide<br>A frame<br>Pointe<br>Tutmspitze | |  | 7,350 | 0,415 | 1,105 | 459 | - |
| 3 | 1 | Controfreccia girevole, argano di sollev., quadro elettrico,carrello freccia etc.<br>Counterjib turnable, hoisting winch, trolley jib, electrical box etc.<br>Contreflèche tournante, treuil de levage, chariot de flèche,armoire electrique etc.<br>Gegenausleger, Hubwinde, Laufkatze Schaltschrank etc. | |  | 11,955 | 1,980 | 2,475 | 6635 | - |
| | 1 | Controfreccia girevole, argano di sollev., quadro elettrico, carrello freccia, cabina<br>Counterjib turnable, hoisting winch, acces balcony, trolley jib, electrical box, cabin etc.<br>Contreflèche tournante,treuil de levage, chariot de flèche, armoire electrique, cabine<br>Gegenausleger D rehwerk, Hubwinde, Laufkatze, Kabine, Schaltschrank Kabinepodest. | |  | 11,955 | 3,150 | 2,475 | 7205 | - |
| 4 | 1 | Controfreccia girevole, argano di sollev., quadro elettrico, carrello freccia, cabina, elem. porta-blocchi<br>Counterjib turnable, hoisting winch, cabin, acces balcony, trolley jib, electrical box, terminal element<br>Contreflèche tournante,treuil de levage, chariot de flèche, armoire electrique, cabine et element terminal<br>Gegenausleger D rehwerk, Hubwinde, Laufkatze, Kabine, Schaltschrank Kabinepodest. | |  | 13,500 | 3,150 | 2,475 | 7595 | - |
| 5 | 4 | Blocchi di contrappeso<br>Counterweight block<br>Contre-poids<br>Gegengewichtsbloecke | |  A108 | 1,430 | 0,295 | 3,265 | 2738 | 10952 |
| | 1 | | | B99 | 1,430 | 0,260 | 3,265 | 2413 | - |

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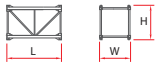
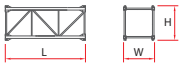
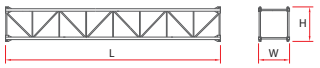
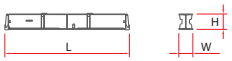
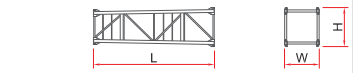
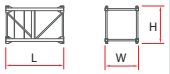
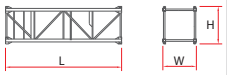
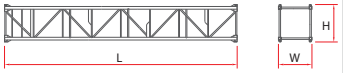
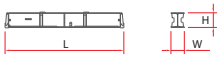
## Liste de colisage (2/3)

| Pos. Item | Pezzi Pieces | Denominazione Description | Schizzo Sketch | Dimensioni Dimensions | | | Peso Weight | |
|---|---|---|---|---|---|---|---|---|
| | | | | L | W | H | Unit | Total |
| 6 | - | Elemento di torre<br>Tower element<br>Elèment de mature<br>Turmstück |  | 2,950 | 1,700 | 1,500 | 1172 | - |
| 7 | - | |  | 4,425 | 1,700 | 1,500 | 1590 | - |
| 8 | - | |  | 5,900 | 1,700 | 1,500 | 1990 | - |
| 9 | - | |  | 11,800 | 1,700 | 1,500 | 3682 | - |
| 10 | 1 | Tronchetto di fondazione<br>Expendable foundation element<br>Elèment a sceller<br>Fundamentanker |  | 1,465 | 1,780 | 1,780 | 780 | - |
| 11 | 1 | Trave principale della crociera di base<br>Base main beam<br>Poutre de chassis de base<br>Hauptträger für Kreuzgelenk |  4,5x4,5 mt | 6,530 | 0,710 | 0,760 | 2120 | - |
| | | | 3,8x3,8 mt | 5,535 | 0,710 | 0,760 | 1460 | - |
| 12 | 2 | Semitrave della crociera di base<br>Half base beam<br>Semipoutre de chassis de base<br>Halbträger für Kreuzgelenk |  4,5x4,5 mt | 3,200 | 0,590 | 0,770 | 1030 | 2060 |
| | | | 3,8x3,8 mt | 2,620 | 0,590 | 0,770 | 940 | 1880 |
| 13 | 4 | Blocco di appoggio<br>Concrete pad<br>Sabot en béton<br>Betonfuss |  | 3,600 | 0,800 | 0,600 | 3925 | 15700 |
| 14 | 2 | Bilancino di traslazione folle<br>Driving bogie<br>Boggie fou<br>Fahrschemel ohne motorantrieb |  | 1,080 | 0,230 | 0,515 | 415 | 830 |
| 15 | 2 | Bilancino di traslazione motorizzato<br>Driven bogie<br>Boggie motoriseè<br>Fahrschemel mit Motorantrieb |  | 1,550 | 0,500 | 0,515 | 535 | 1070 |
| 16 | 28 | Blocco di zavorra<br>Base ballast block<br>Lest de base<br>Grundballastblöcken |  | 3,600 | 1,200 | 0,300 | 2950 | 88500 |

RAIMONDI · MR 108 **50 mt**

## Liste de colisage (3/3)

| Pos. Item | Pezzi Pieces | Denominazione Description | Schizzo Sketch | Dimensioni Dimensions | | | Peso Weight | |
|---|---|---|---|---|---|---|---|---|
| | | | | L | W | H | Unit | Total |
| HC5 - 2,1 mt. | | | | | | | | |
| 17 | 1 | Elemento di torre 1,7/1,5 m<br>1,7/1,5 m tower element<br>1,7/1,5 m elèment de mature<br>1,7/1,5 m turmstück |  | 5,900 | 1,700 | 1,900 | 2205 | - |
| 18 | - | Elemento di torre monolitico<br>Tower element<br>Elèment de mature<br>Turmstück |  | 2,950 | 1,900 | 1,700 | 172 | - |
| 19 | - | |  | 5,900 | 1,900 | 1,700 | 2267 | - |
| 20 | - | |  | 11,800 | 1,900 | 1,700 | 4135 | - |
| 21 | 1 | Tronchetto di fondazione<br>Expendable foundation element<br>Elèment a sceller<br>Fundamentanker |  | 1,465 | 1,980 | 1,980 | 830 | - |
| 22 | 1 | Trave principale della crociera di base<br>Base main beam<br>Poutre de chassis de base<br>Hauptträger für Kreuzgelenk |  | 6,524 | 0,780 | 0,960 | 2595 | - |
| 23 | 2 | Semitrave della crociera di base<br>Half base beam<br>Semipoutre de chassis de base<br>Halbträger für Kreuzgelenk |  | 3,212 | 0,680 | 0,974 | 1235 | 2470 |
| 24 | 4 | Blocco di appoggio<br>Concrete pad<br>Sabot en béton<br>Betonfuss |  | 3,600 | 0,900 | 0,750 | 5520 | 22080 |
| 25 | 2 | Bilancino di traslazione folle<br>Driving bogie<br>Boggie fou<br>Fahrschemel ohne motorantrieb |  | 1,315 | 0,222 | 0,540 | 600 | 1200 |
| 26 | 2 | Bilancino di traslazione motorizzato<br>Driven bogie<br>Boggie motoriseè<br>Fahrschemel mit Motorantrieb |  | 1,427 | 0,492 | 0,540 | 765 | 1530 |

RAIMONDI · MR 108 **50 mt**

## Télescopage hydraulique - intérieur et extérieur

ПЛИТАХПЕРЕКРЫТИЯ

