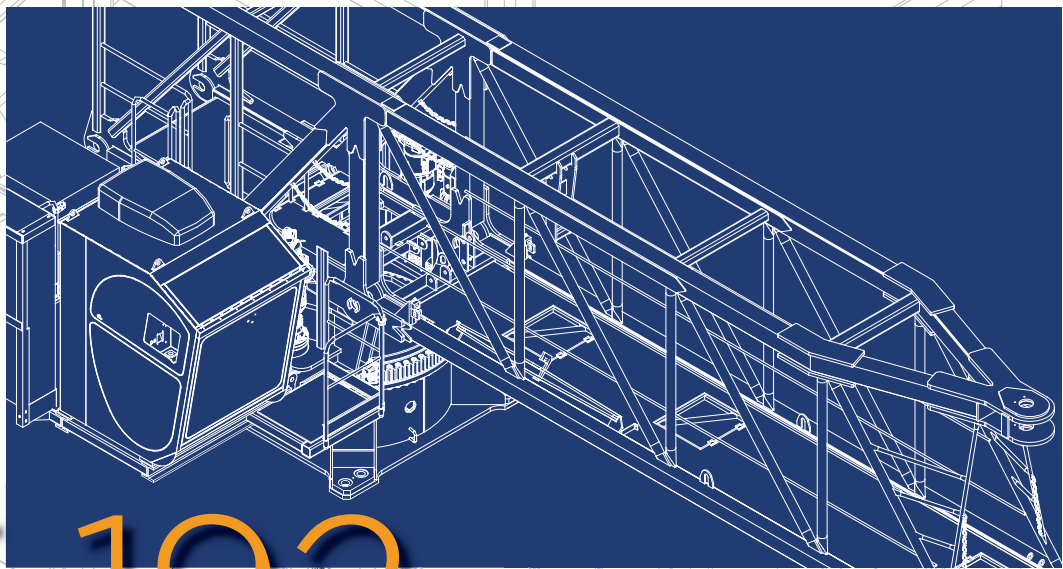


**ENG**  
— CRANES —

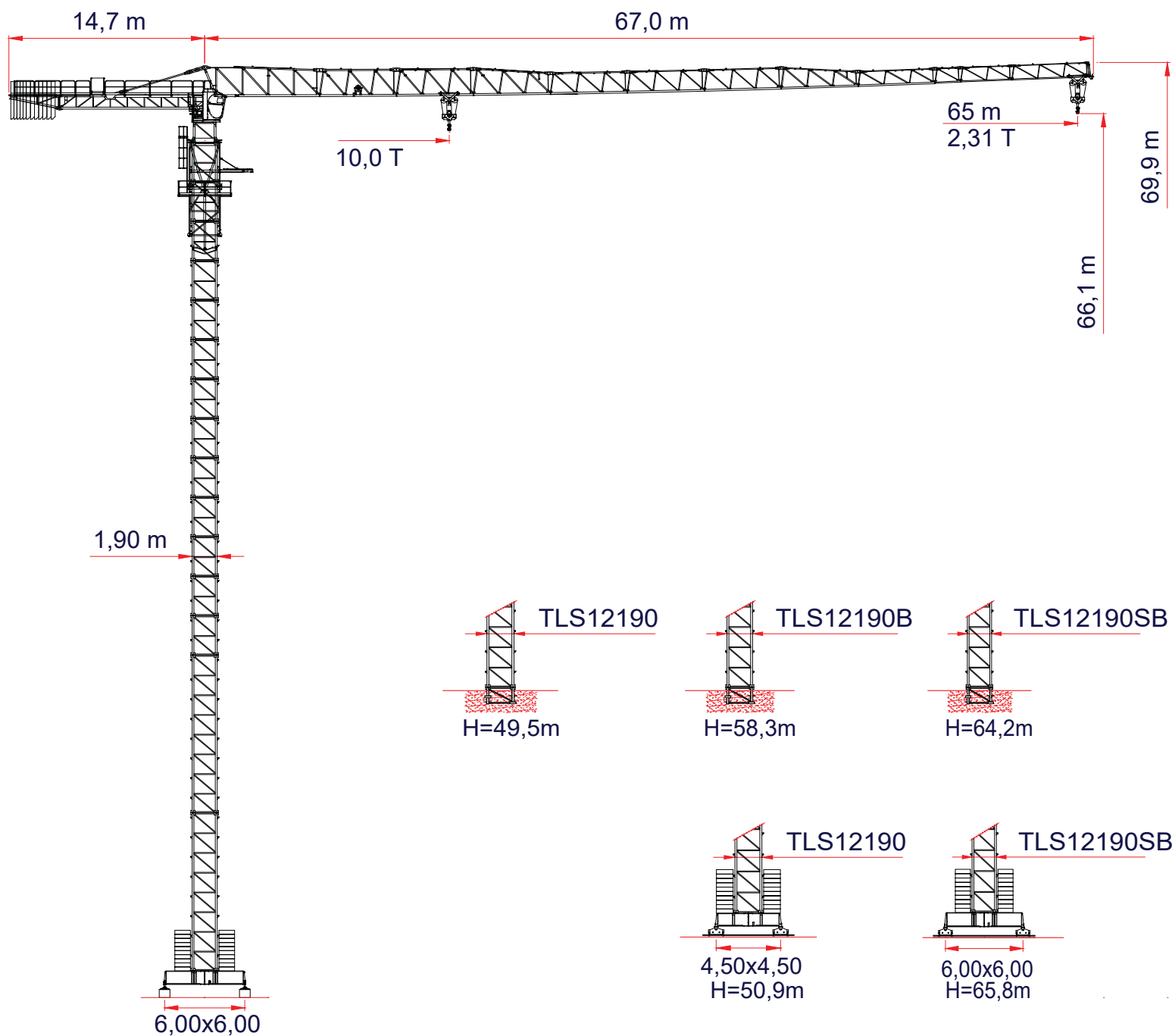
Design, engineering, manufacture



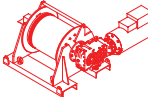
ETT 192  
10t

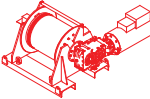
—  
2018

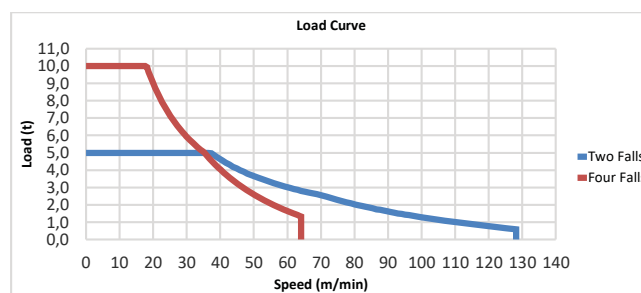
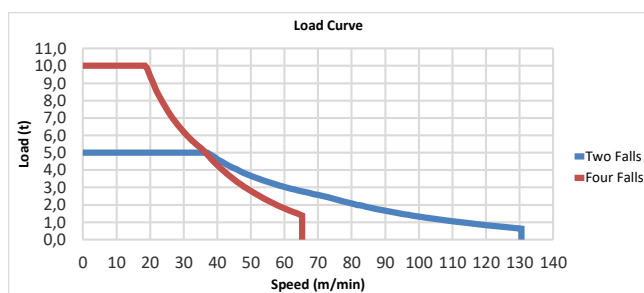
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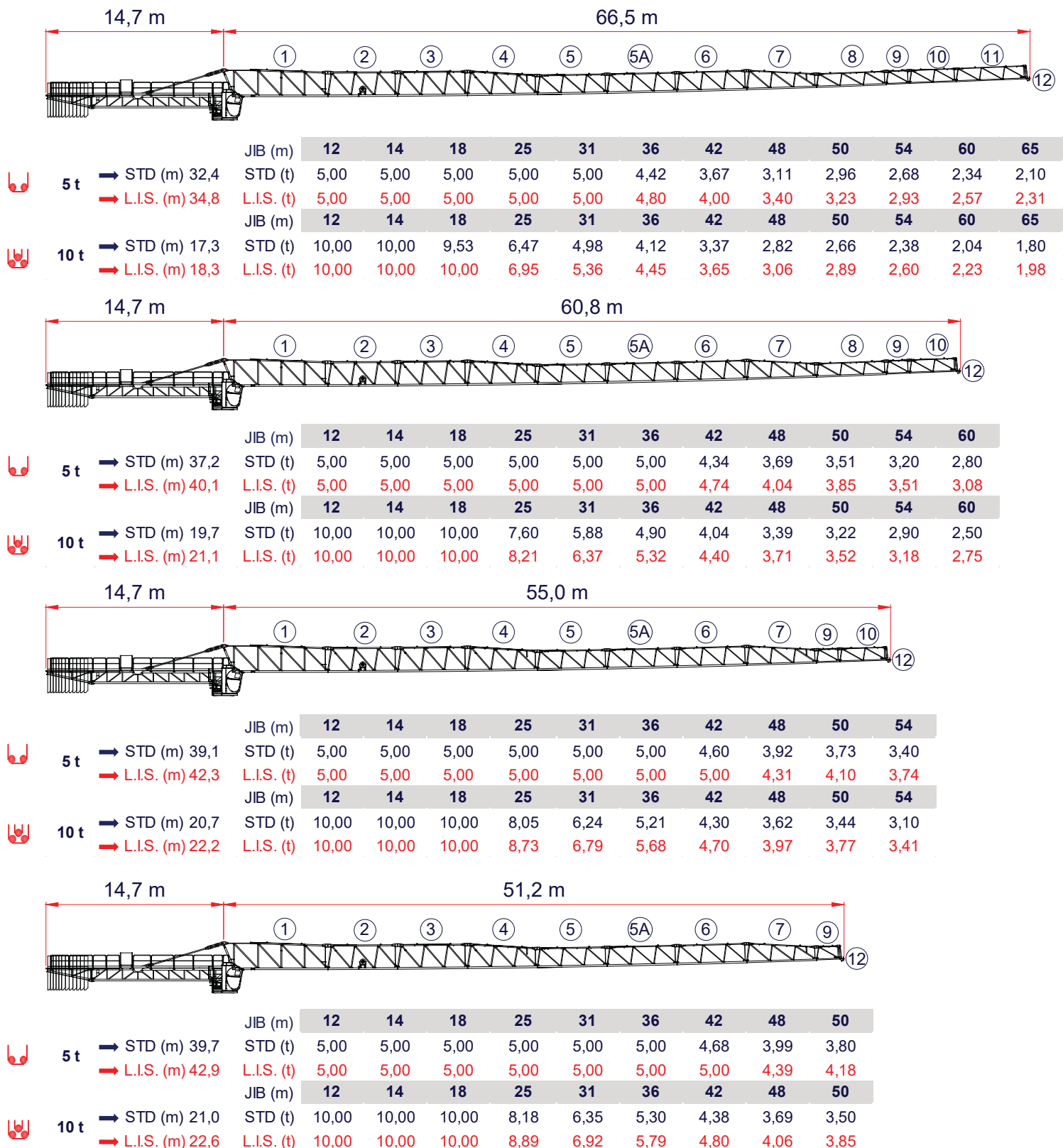
|                                                  |                                                                                   | Speed - Velocità - Vitesse - Geschwindigkeit | Power - Potenza - Puissance - Leistung |
|--------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------|
| Slewing<br>Rotazione<br>Orientation<br>Schwenken |  | 0 → 0,70 r.p.m.                              | 2 x 65 Nm                              |
| Trolley<br>Carrello<br>Chariot<br>Katzfahnen     |  | 0 → 83 m/min                                 | 1 x 5,5 KW                             |
| Rail<br>Traslazione<br>Translation<br>Kranfahren |  | 0 → 19 m/min                                 | 4 x 4,0 kW                             |

| Type<br>Tipo<br>Type<br>Type                                                 |  |    | Power - Potenza<br>Puissance - Leistung                                                   |       | Rope - Fune<br>Cable - Seil                                                              |       |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|-------|
|                                                                              | hp - CV<br>PS - ch                                                                | kW |                                                                                           |       | m                                                                                        |       |
| HW105034BR1000                                                               |                                                                                   |    | 50                                                                                        | 37    | 337                                                                                      |       |
| Layer - Strati<br>Couches - Lagen                                            |                                                                                   |    | N. 6                                                                                      |       |                                                                                          |       |
| Step - Marcia<br>Vitesse - Gang                                              |                                                                                   |    | kg                                                                                        | m/min | kg                                                                                       | m/min |
| 1                                                                            |                                                                                   |    | 5000                                                                                      | 11,0  | 10000                                                                                    | 5,0   |
| 2                                                                            |                                                                                   |    | 5000                                                                                      | 22,0  | 10000                                                                                    | 11,0  |
| 3                                                                            |                                                                                   |    | 5000                                                                                      | 36,0  | 10000                                                                                    | 18,0  |
| 4                                                                            |                                                                                   |    | 2980                                                                                      | 61,0  | 6100                                                                                     | 31,0  |
| 5                                                                            |                                                                                   |    | 930                                                                                       | 115,0 | 1990                                                                                     | 58,0  |
| 6                                                                            |                                                                                   |    | 630                                                                                       | 131,0 | 1390                                                                                     | 65,0  |
| Maximum height -<br>Massima altezza -<br>Hauteur maximale -<br>Maximale Höhe |                                                                                   |    |  163 m |       |  79 m |       |

| Type<br>Tipo<br>Type<br>Type                                                 |           |       | Power - Potenza<br>Puissance - Leistung                                                     |       | Rope - Fune<br>Cable - Seil |  |
|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------|-------|-----------------------------|--|
|                                                                              | hp - CV<br>PS - ch                                                                          | kW    |                                                                                             |       | m                           |  |
| HW105054BR1000                                                               | 50                                                                                          | 37    | 541                                                                                         |       |                             |  |
| Layer - Strati<br>Couches - Lagen                                            | N. 6                                                                                        |       |                                                                                             |       |                             |  |
| Step - Marcia<br>Vitesse - Gang                                              | kg                                                                                          | m/min | kg                                                                                          | m/min |                             |  |
| 1                                                                            | 5000                                                                                        | 11,0  | 10000                                                                                       | 5,0   |                             |  |
| 2                                                                            | 5000                                                                                        | 21,0  | 10000                                                                                       | 11,0  |                             |  |
| 3                                                                            | 5000                                                                                        | 34,0  | 10000                                                                                       | 17,0  |                             |  |
| 4                                                                            | 2240                                                                                        | 76,0  | 4430                                                                                        | 38,0  |                             |  |
| 5                                                                            | 1010                                                                                        | 110,0 | 2080                                                                                        | 55,0  |                             |  |
| 6                                                                            | 600                                                                                         | 128,0 | 1340                                                                                        | 64,0  |                             |  |
| Maximum height -<br>Massima altezza -<br>Hauteur maximale -<br>Maximale Höhe |  263 m |       |  128 m |       |                             |  |



|                                                                                                         |                                                             |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| TOTAL INSTALLED POWER<br>FORZA MOTRICE TOTALE<br>PUISSANCE TOTALE DES MOTEURS<br>GESAMT-MOTORENLEISTUNG | 37 kW (50 hp)<br>72 kVA - 400/480 V - 50/60 Hz<br>± 5% ± 2% |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|



L.I.S. = Load Increase System

All intermediate loads can be increased till a maximum of 10% if the crane is equipped with L.I.S.

Con il sistema L.I.S. tutte le portate intermedie possono essere aumentate fino ad un massimo del 10%

Toutes les charges intermédiaires peuvent être augmentées jusqu'à un maximum de 10% si la grue est équipée avec L.I.S.

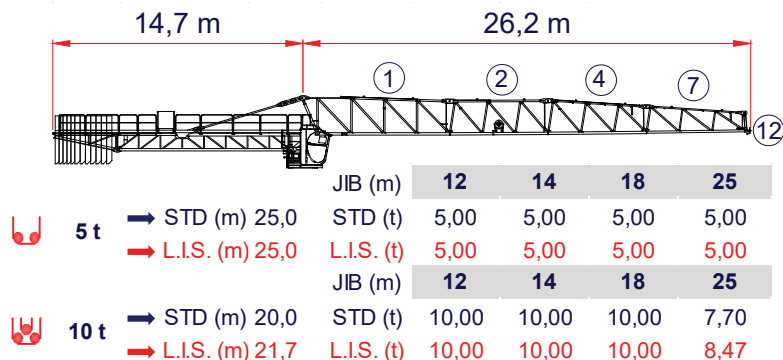
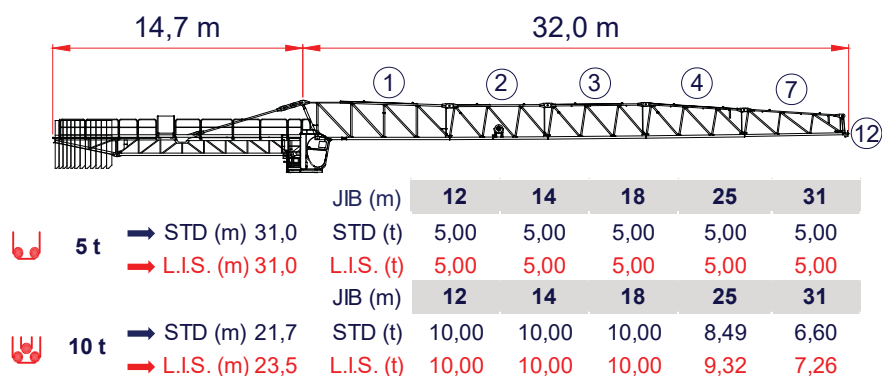
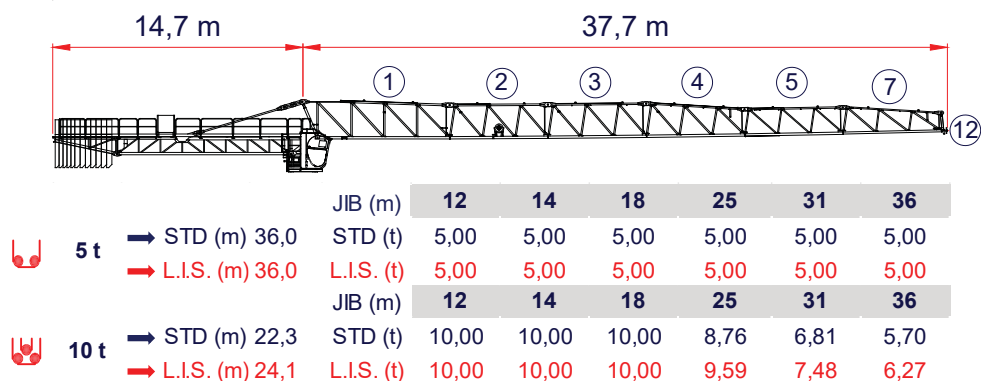
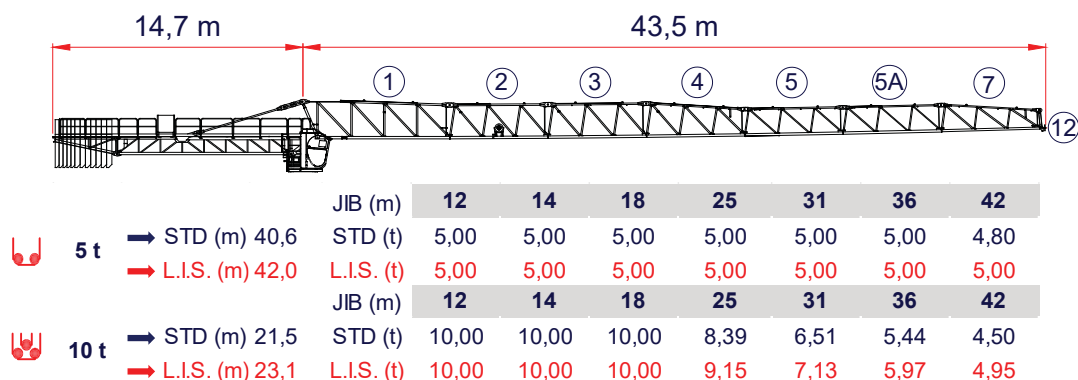
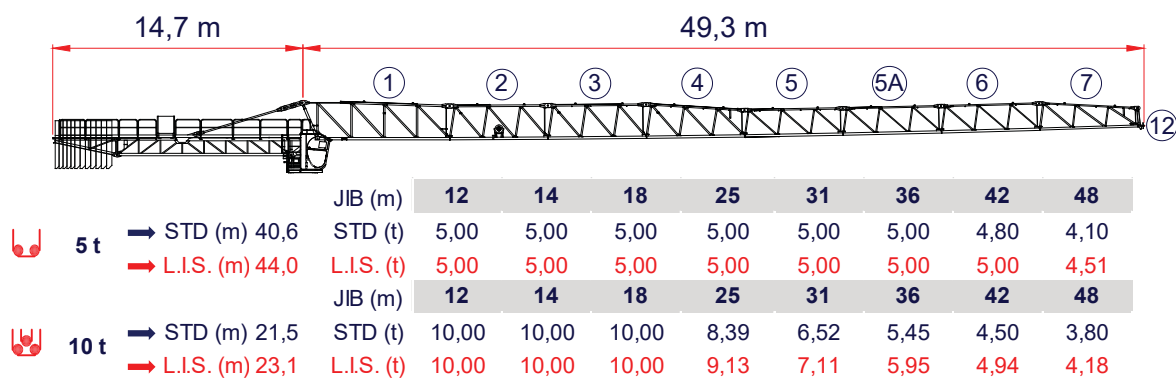
Alle zwischenlasten erhöht werden kann bis maximal 10%, wenn der kran mit L.I.S.

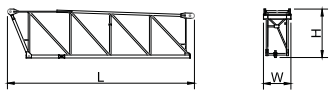
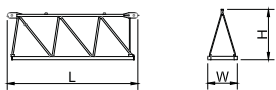
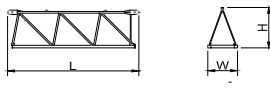
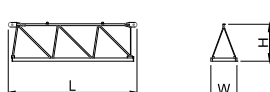
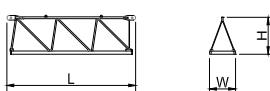
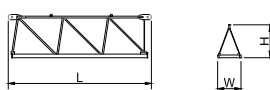
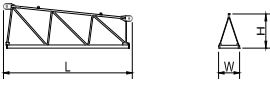
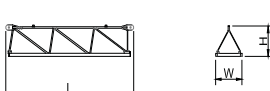
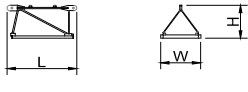
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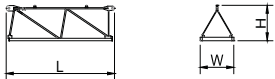
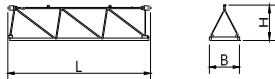
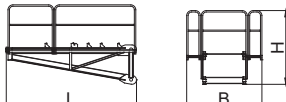
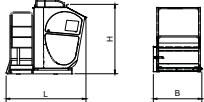
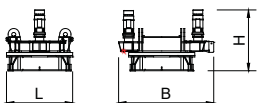
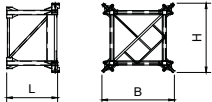
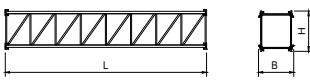
DIAGRAMMA DI PORTATA

DIAGRAMME DE CHARGE UTILE

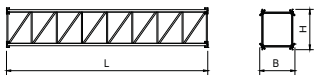
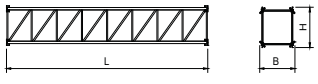
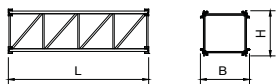
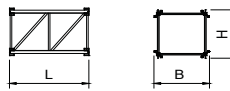
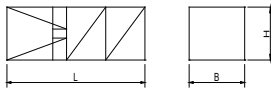
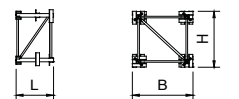
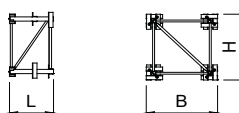
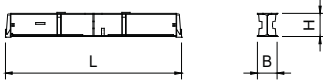
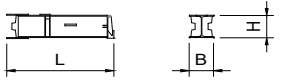
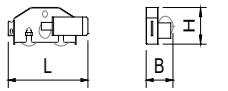
BELASTBEREITSDIAGRAMM



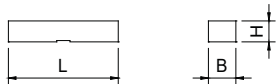
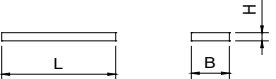
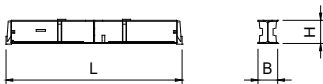
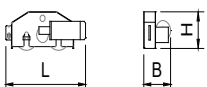
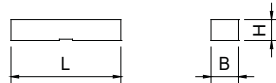
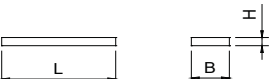
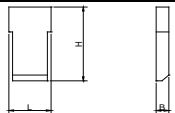
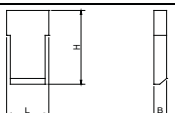
| Q.ty<br>Q.tà<br>Q.tè<br>Anz. | Description<br>Descizione<br>Description<br>Beschreibung                                   | Sketch<br>Figura<br>Esquisse<br>Skizze                                              | Length<br>Lunghezza<br>Longueur<br>Länge<br>[L] | Width<br>Larghezza<br>Largeur<br>Breite<br>[B] | Height<br>Altezza<br>Hauteur<br>Höhe<br>[H] | Single Weight<br>Peso Unitario<br>Poids individuels<br>Einzelgewichte |
|------------------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------|
| Jib/Braccio/Flèche/Ausleger  |                                                                                            |                                                                                     | [m]                                             | [m]                                            | [m]                                         | [t]                                                                   |
| 1                            | Jib section /<br>Elemento Braccio /<br>Element de Flèche /<br>Ausleger-Zwischenstück<br>1  |    | 8,98                                            | 1,39                                           | 2,29                                        | 2,63                                                                  |
| 1                            | Jib section /<br>Elemento Braccio /<br>Element de Flèche /<br>Ausleger-Zwischenstück<br>2  |    | 6,16                                            | 1,30                                           | 2,10                                        | 1,30                                                                  |
| 1                            | Jib section /<br>Elemento Braccio /<br>Element de Flèche /<br>Ausleger-Zwischenstück<br>3  |    | 6,10                                            | 1,30                                           | 2,10                                        | 1,17                                                                  |
| 1                            | Jib section /<br>Elemento Braccio /<br>Element de Flèche /<br>Ausleger-Zwischenstück<br>4  |   | 6,10                                            | 1,30                                           | 2,10                                        | 1,02                                                                  |
| 1                            | Jib section /<br>Elemento Braccio /<br>Element de Flèche /<br>Ausleger-Zwischenstück<br>5  |  | 6,10                                            | 1,30                                           | 1,66                                        | 0,90                                                                  |
| 1                            | Jib section /<br>Elemento Braccio /<br>Element de Flèche /<br>Ausleger-Zwischenstück<br>5A |  | 6,10                                            | 1,30                                           | 1,68                                        | 0,74                                                                  |
| 1                            | Jib section /<br>Elemento Braccio /<br>Element de Flèche /<br>Ausleger-Zwischenstück<br>6  |  | 6,10                                            | 1,30                                           | 1,68                                        | 0,66                                                                  |
| 1                            | Jib section /<br>Elemento Braccio /<br>Element de Flèche /<br>Ausleger-Zwischenstück<br>7  |  | 6,10                                            | 1,30                                           | 1,66                                        | 0,61                                                                  |
| 1                            | Jib section /<br>Elemento Braccio /<br>Element de Flèche /<br>Ausleger-Zwischenstück<br>8  |  | 6,10                                            | 1,30                                           | 1,21                                        | 0,52                                                                  |
| 1                            | Jib section /<br>Elemento Braccio /<br>Element de Flèche /<br>Ausleger-Zwischenstück<br>9  |  | 2,18                                            | 1,30                                           | 1,17                                        | 0,16                                                                  |

| Q.ty<br>Q.tà<br>Q.tè<br>Anz.                           | Description<br>Descizione<br>Description<br>Beschreibung                                                 | Sketch<br>Figura<br>Esquisse<br>Skizze                                              | Length<br>Lunghezza<br>Longueur<br>Länge<br>[L] | Width<br>Larghezza<br>Largeur<br>Breite<br>[B] | Height<br>Altezza<br>Hauteur<br>Höhe<br>[H] | Single Weight<br>Peso Unitario<br>Poids individuels<br>Einzelgewichte |
|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------|
| Jib/Braccio/Flèche/Ausleger                            |                                                                                                          |                                                                                     | [m]                                             | [m]                                            | [m]                                         | [t]                                                                   |
| 1                                                      | Jib section /<br>Elemento Braccio /<br>Element de Flèche /<br>Ausleger-Zwischenstück<br>10               |    | 4,02                                            | 1,30                                           | 1,16                                        | 0,26                                                                  |
| 1                                                      | Jib section /<br>Elemento Braccio /<br>Element de Flèche /<br>Ausleger-Zwischenstück<br>11               |    | 5,92                                            | 1,30                                           | 1,13                                        | 0,32                                                                  |
| 1                                                      | Tip<br>Puntale<br>Pointe de flèche<br>Ausleger Kopfstück                                                 |    | 1,32                                            | 1,29                                           | 1,52                                        | 0,11                                                                  |
| Counter-jib/Controbraccio/ Contre-flèche/Gegenausleger |                                                                                                          |                                                                                     | [m]                                             | [m]                                            | [m]                                         | [t]                                                                   |
| 1                                                      | Counter-jib section<br>Elemento Controbraccio<br>Element de Contre-flèche<br>Gegenausleger-Zwischenstück |   | 12,0                                            | 1,51                                           | 2,10                                        | 7,50                                                                  |
| 1                                                      | Element for counterweights<br>Portablocchi<br>Element terminal<br>Gewichtelement                         |  | 3,09                                            | 1,80                                           | 1,90                                        | 0,83                                                                  |
| Slewing/Rotazione/Orientation/Schwenken                |                                                                                                          |                                                                                     | [m]                                             | [m]                                            | [m]                                         | [t]                                                                   |
| 1                                                      | Access Balcony, Cabin<br>Ballatoio e Cabina<br>Porte Cabine<br>Wartung Plattform                         |  | 3,45                                            | 1,62                                           | 2,30                                        | 0,80                                                                  |
| 1                                                      | Slewing-group<br>Gruppo Girevole<br>Groupe d'orientation<br>Drehgruppe                                   |  | 1,78                                            | 2,56                                           | 1,23                                        | 4,10                                                                  |
| Tower /Torre/Mât/Turm                                  |                                                                                                          |                                                                                     | [m]                                             | [m]                                            | [m]                                         | [t]                                                                   |
| 1                                                      | Jacking Element<br>Telaio di Spinta<br>Elément de levage<br>Hubelement                                   |  | 1,50                                            | 2,13                                           | 2,13                                        | 1,10                                                                  |
| 1                                                      | Tower section /<br>Elemento Torre /<br>Elément de Mât / Turmstück<br>190HC.1180                          |  | 11,80                                           | 2,06                                           | 2,10                                        | 4,00                                                                  |



| Q.ty<br>Q.tà<br>Q.tè<br>Anz.                | Description<br>Descrizione<br>Description<br>Beschreibung                                                                   | Sketch<br>Figura<br>Esquisse<br>Skizze                                              | Length<br>Lunghezza<br>Longueur<br>Länge<br>[L] | Width<br>Larghezza<br>Largeur<br>Breite<br>[B] | Height<br>Altezza<br>Hauteur<br>Höhe<br>[H] | Single Weight<br>Peso Unitario<br>Poids individuels<br>Einzelgewichte |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------|
| Torre /Tower/Mât/Turm                       |                                                                                                                             |                                                                                     | [m]                                             | [m]                                            | [m]                                         | [t]                                                                   |
| 1                                           | Tower section /<br>Elemento Torre /<br>Elément de Mât / Turmstück<br>190HCB.1180                                            |    | 11,80                                           | 2,06                                           | 2,10                                        | 5,10                                                                  |
| 1                                           | Tower section /<br>Elemento Torre /<br>Elément de Mât / Turmstück<br>190HCSB.1180                                           |    | 11,80                                           | 2,06                                           | 2,10                                        | 5,30                                                                  |
| 1                                           | Tower section /<br>Elemento Torre /<br>Elément de Mât / Turmstück<br>190HC.0590                                             |    | 5,90                                            | 2,06                                           | 2,10                                        | 2,13                                                                  |
| 1                                           | Tower section /<br>Elemento Torre /<br>Elément de Mât / Turmstück<br>190HC.0295                                             |    | 2,95                                            | 2,06                                           | 2,10                                        | 1,18                                                                  |
| 1                                           | Climbing Cage<br>Gabbia di Montaggio<br>Cage de montage<br>Hydraulikbühne<br>(Transportation)                               |   | 7,16<br>(7,16)                                  | 2,30<br>(2,30)                                 | 2,56<br>(1,00)                              | 4,74<br>(4,74)                                                        |
| 1                                           | Expendable Foundation Element<br>Tronchetto di Fondazione<br>Elément a Sceller<br>Fundamentanker                            |  | 1,35                                            | 2,18                                           | 2,18                                        | 0,80                                                                  |
| 1                                           | Expendable Foundation Element<br>Tronchetto di Fondazione<br>Elément a Sceller<br>Fundamentanker<br>BOOSTER / SUPER BOOSTER |  | 1,35                                            | 2,18                                           | 2,18                                        | 1,02                                                                  |
| Base / Base/ Base / Bases<br>4,5x4,5 1,90HC |                                                                                                                             |                                                                                     | [m]                                             | [m]                                            | [m]                                         | [t]                                                                   |
| 1                                           | Base main beam<br>Trave principale della crociera di<br>base<br>Poutre de chasis de base<br>Hauptträger für Kreuzgelenk     |  | 6,52                                            | 0,78                                           | 0,96                                        | 3,45                                                                  |
| 2                                           | Half Base Beam<br>Semitrave della Crociera di Base<br>Semipoutre de chasis de base<br>Halbträger für Kreuzgelenk            |  | 3,21                                            | 0,68                                           | 0,97                                        | 1,72                                                                  |
| 4                                           | Driven Bogie<br>Bilancino di Traslazione<br>Motorizzato<br>Boggie Motorisée<br>Fahrschemel mit Motorantrieb                 |  | 1,43                                            | 0,49                                           | 0,54                                        | 0,76                                                                  |

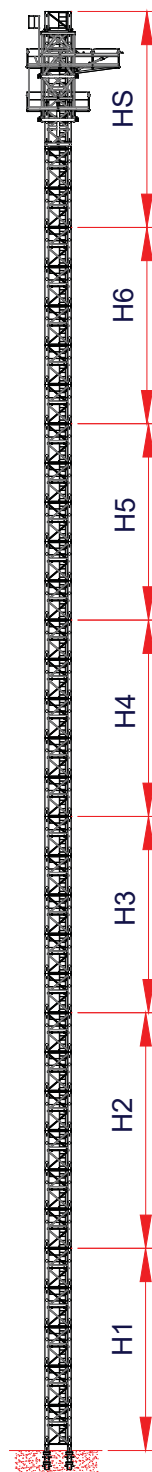


| Q.ty<br>Q.tà<br>Q.tè<br>Anz.                                                                    | Description<br>Descrizione<br>Description<br>Beschreibung                                                            | Sketch<br>Figura<br>Esquisse<br>Skizze                                              | Length<br>Lunghezza<br>Longueur<br>Länge<br>[L] | Width<br>Larghezza<br>Largeur<br>Breite<br>[B] | Height<br>Altezza<br>Hauteur<br>Höhe<br>[H] | Single Weight<br>Peso Unitario<br>Poids individuels<br>Einzelgewichte |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------|------------------------------------------------|---------------------------------------------|-----------------------------------------------------------------------|
| Base / Base/ Base / Bases<br>4,5x4,5 1,90HC                                                     |                                                                                                                      |                                                                                     | [m]                                             | [m]                                            | [m]                                         | [t]                                                                   |
| 4                                                                                               | Concrete pad<br>Blocco di appoggio<br>Sabot en béton<br>Betonfuss                                                    |    | 3,60                                            | 0,90                                           | 0,75                                        | 5,52                                                                  |
| 26                                                                                              | Base Ballast<br>Zavorra di Base<br>Lest de Base<br>Gründballast<br>3809                                              |    | 3,60                                            | 1,20                                           | 0,30                                        | 3,81                                                                  |
| Base / Base/ Base / Bases<br>6x6 1,90HC                                                         |                                                                                                                      |                                                                                     |                                                 |                                                |                                             |                                                                       |
| 1                                                                                               | Base main beam<br>Trave principale della crociera di base<br>Poutre de chasis de base<br>Hauptträger für Kreuzgelenk |    | 8,64                                            | 0,78                                           | 1,07                                        | 4,75                                                                  |
| 2                                                                                               | Half Base Beam<br>Semitrave della Crociera di Base<br>Semipoutre de chasis de base<br>Halbträger für Kreuzgelenk     |    | 4,32                                            | 0,68                                           | 1,07                                        | 2,37                                                                  |
| 4                                                                                               | Driven Bogie<br>Bilancino di Traslazione<br>Motorizzato<br>Boggie Motorisée<br>Fahrschemel mit Motorantrieb          |  | 1,43                                            | 0,49                                           | 0,54                                        | 0,76                                                                  |
| 4                                                                                               | Concrete pad<br>Blocco di appoggio<br>Sabot en béton<br>Betonfuss                                                    |  | 3,60                                            | 0,90                                           | 0,75                                        | 5,52                                                                  |
| 30                                                                                              | Base Ballast<br>Zavorra di Base<br>Lest de Base<br>Gründballast<br>3809                                              |  | 3,60                                            | 1,20                                           | 0,30                                        | 3,81                                                                  |
| Counter-jib Ballast / Zavorra di Controfreccia /<br>Lest de Contre-flèche/Gegenausleger Ballast |                                                                                                                      |                                                                                     | [m]                                             | [m]                                            | [m]                                         | [t]                                                                   |
| 7                                                                                               | Counter-jib Ballast / Zavorra di Controfreccia / Lest de Contre-flèche / Gegenausleger Ballast A2107                 |  | 1,26                                            | 0,31                                           | 2,80                                        | 2,11                                                                  |
| 5                                                                                               | Counter-jib Ballast / Zavorra di Controfreccia / Lest de Contre-flèche / Gegenausleger Ballast B1590                 |  | 1,26                                            | 0,23                                           | 2,80                                        | 1,59                                                                  |

EXTERNAL CLIMBING  
A SOPRALZO IDRAULICO  
TELESCOPABLE  
KLETTERKRANE

| TLS12190 |       |
|----------|-------|
| (m)      |       |
| H1 *     | 56,3  |
| H2       | 23,6  |
| H3       | 23,6  |
| H4       | 23,6  |
| H5       | 23,6  |
| H6       | 23,6  |
| HS       | 32,5  |
| H.U.H    | 208,3 |

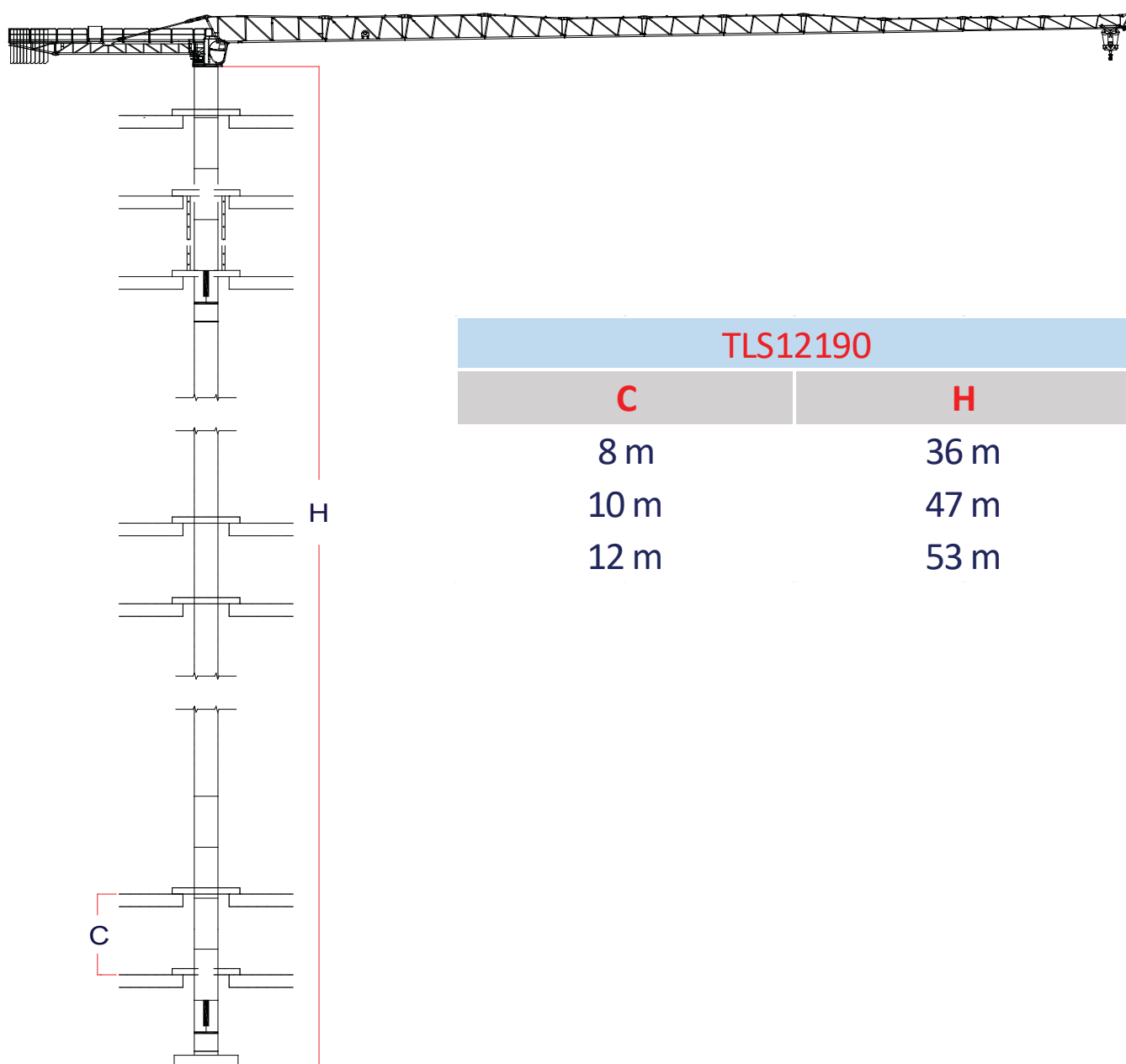
\* With Super Booster Element  
Con Elemento Super Booster  
Avec Super Booster Element  
Mit Super Booster Turmstück



Other Configuration Available  
Altre Configurazioni Disponibili  
Autres configurations Disponibles  
Andere Konfigurationen Verfügbar

OTHER INSTALLATION  
ALTRE INSTALLAZIONI  
AUTRES INSTALLATIONS  
SONSTIGE ANLAGEN

INTERNAL CLIMBING  
RAMPANTE  
TELESCOPABLE SUR DALLES  
KLETTERKRANE IN GEBAUDE



*Other Configuration Available  
Altre Configurazioni Disponibili  
Autres configurations Disponibles  
Andere Konfigurationen Verfügbar*

# ENG

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