sky CRANES®

840

67,7 m - 2200 kg

Load capacity: 12,2 t



DB® DALBE

sky 840 CRANES®

DALBE sky CRANES®



Sky 840

Flat top crane model
68 m - 2200 kg
Load capacity: 12,2 t

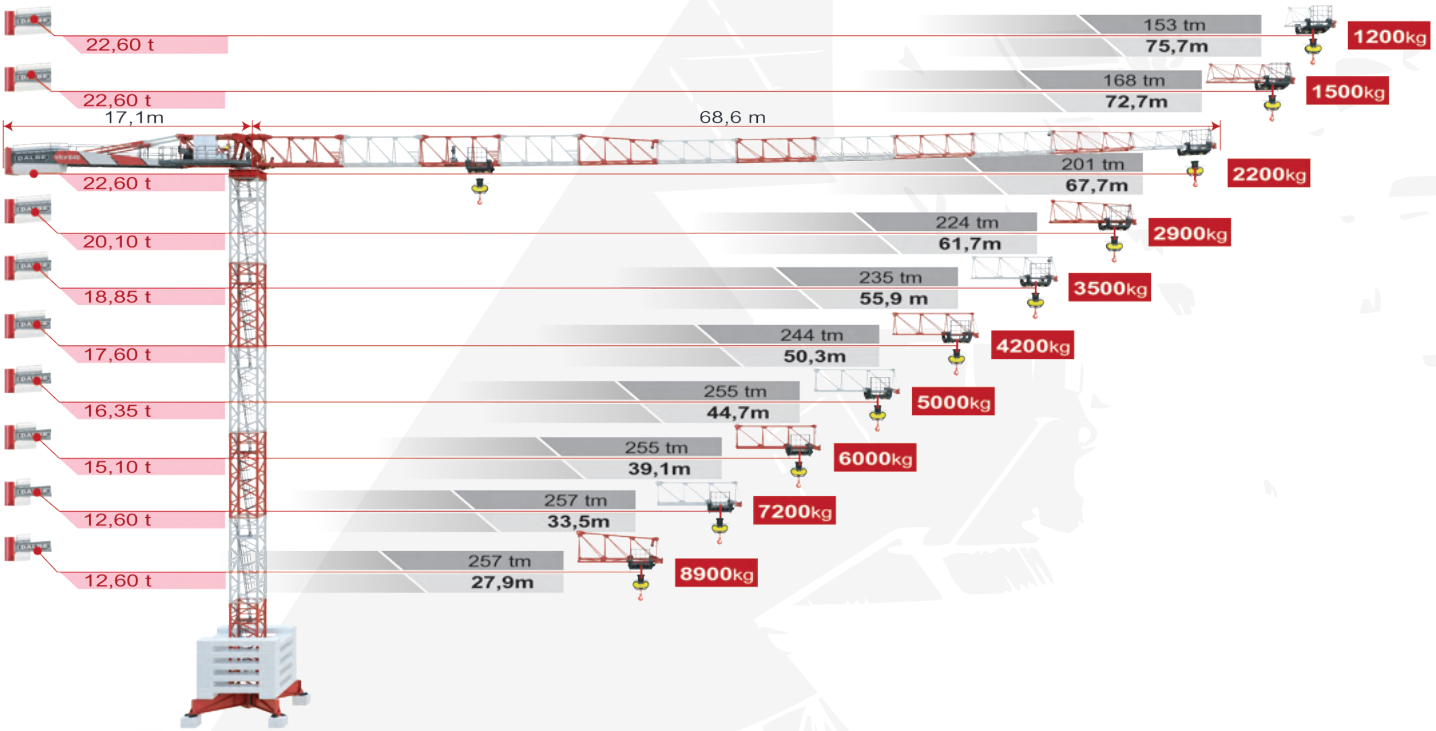
MADE IN ITALY

Project, design and development
Construction and processing of structures
Assembly and testing plant
Progettazione e sviluppo
Costruzione e lavorazione strutture
Stabilimento di assemblaggio e collaudo

ITALY - LOMBARDY

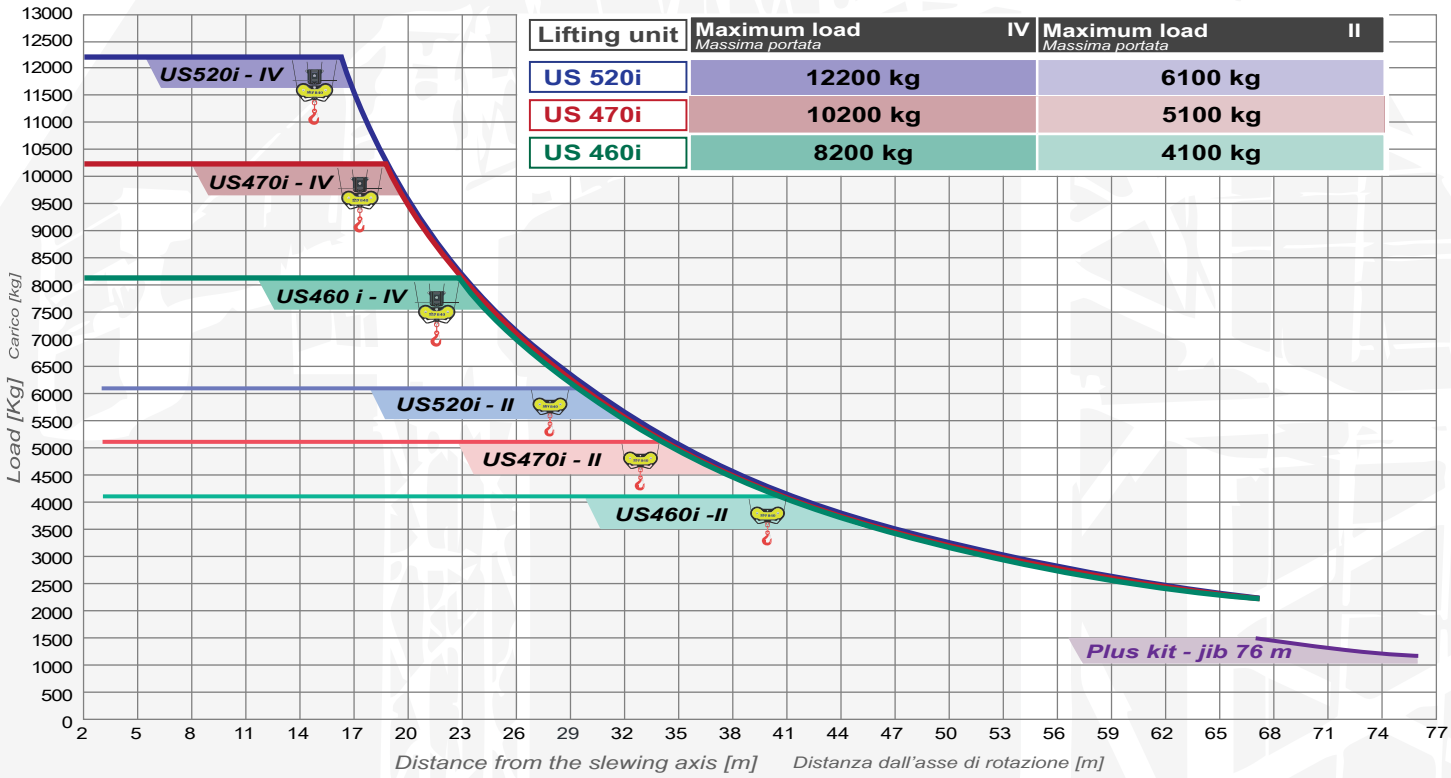
TECHNICAL SPECIFICATIONS
SPECIFICHE TECNICHE

Load Diagrams
Diagrammi di carico:



Length of the jib: 68 m
Lunghezza del braccio:

Lifting unit	Maximum load IV *Massima portata*	Maximum load II *Massima portata*
US 520i	12200 kg	6100 kg
US 470i	10200 kg	5100 kg
US 460i	8200 kg	4100 kg



Technical data are not binding and are only indicative - I dati e le misure hanno un valore indicativo, pertanto non sono impegnativi

sky 840 CRANES®

DALBE SKY CRANES®

TECHNICAL SPECIFICATIONS
SPECIFICHE TECNICHE

Lifting Unit:
Unità di sollevamento:

HOIST - *SOLLEVAMENTO*

	US 520i	US 470i	US 460i
	400 V (± 5%) 50 Hz — 76 kVA / 65 kW	400 V (± 5%) 50 Hz — 68 kVA / 58 kW	400 V (± 5%) 50 Hz — 61 kVA / 52 kW
range kg	speed m/min	power kw	
0 < **X** < 6100	8	37	
0 < **X** < 6100	30		
0 < **X** < 4200	52		
0 < **X** < 2700	65		
0 < **X** < 1400	95 VARIOMATIC		
0 < **X** < 5100	6	30	
0 < **X** < 5100	26		
0 < **X** < 3000	46		
0 < **X** < 1400	76 VARIOMATIC		
0 < **X** < 4100	5	24	
0 < **X** < 4100	31		
0 < **X** < 2600	50		
0 < **X** < 1400	76 VARIOMATIC		
0 < **X** < 12200	4	37	
0 < **X** < 12200	15		
0 < **X** < 8400	26		
0 < **X** < 5400	32.5		
0 < **X** < 2800	47.5 VARIOMATIC		
0 < **X** < 10200	3	30	
0 < **X** < 10200	13		
0 < **X** < 6000	23		
0 < **X** < 2800	38 VARIOMATIC		
0 < **X** < 8200	2.5	24	
0 < **X** < 8200	15.5		
0 < **X** < 5200	25		
0 < **X** < 2800	38 VARIOMATIC		

TROLLEY - *CARRELLO*

range kg	speed m/min	power kw
0 < **X** < 6100	7	5.2
0 < **X** < 6100	39	
0 < **X** < 4200	60	
0 < **X** < 1400	90	
0 < **X** < 12200	7	5.2
0 < **X** < 12200	39	
0 < **X** < 4200	60	
0 < **X** < 1400	90	
0 < **X** < 5100	7	5.2
0 < **X** < 5100	39	
0 < **X** < 3000	60	
0 < **X** < 1400	90	
0 < **X** < 10200	7	5.2
0 < **X** < 10200	39	
0 < **X** < 3000	60	
0 < **X** < 1400	90	
0 < **X** < 4100	7	5.2
0 < **X** < 4100	39	
0 < **X** < 2600	60	
0 < **X** < 1400	90	
0 < **X** < 8200	7	5.2
0 < **X** < 8200	39	
0 < **X** < 2600	60	
0 < **X** < 1400	90	

SLEWING - *ROTAZIONE*

TVS - Torque Vectoring System

Torque-controlled slewing
Managed by PLC and inverter

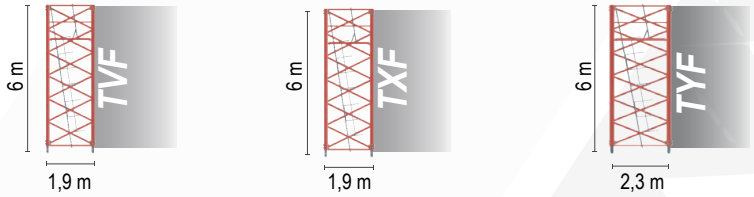
Rotazione in controllo di coppia tramite PLC e inverter

rpm	Nm
0.3 - 0.8	**3 x 65**

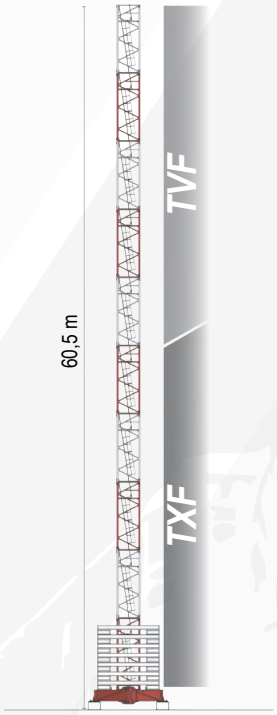
Technical data are not binding and are only indicative - I dati e le misure hanno un valore indicativo, pertanto non sono impegnativi

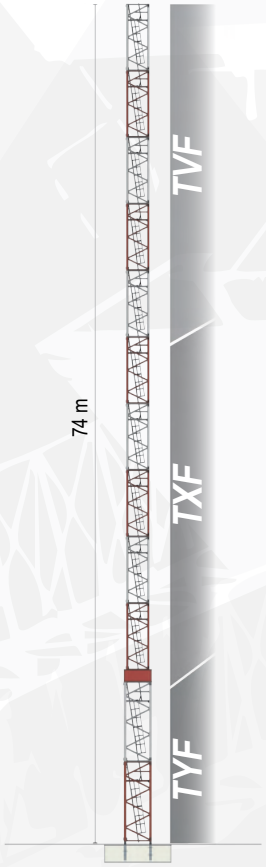
TOWER CONFIGURATIONS AND BASES
CONFIGURAZIONI DELLE TORRI E DEI BASAMENTI

Towers:
Torri:



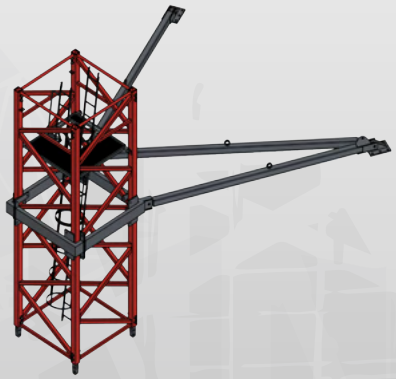
TOWERS	MAX HEIGTH FREE STANDING
TVF	36 m
TVF+TXF	60 m
TVF+TXF+TYF	74 m



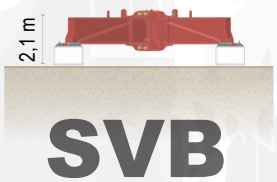


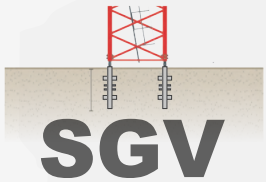
SKS Building Anchorage up to 120 metres
Ancoraggi a fabbricato SKS fino a 120 metri

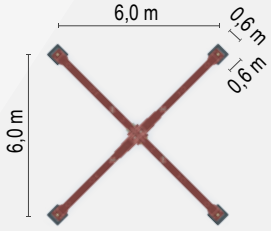
Maximum standard distance from building: 5 metres
Distanza massima standard dal fabbricato: 5 metri

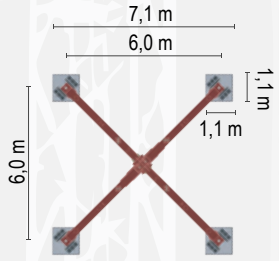


Base:
Appoggi:













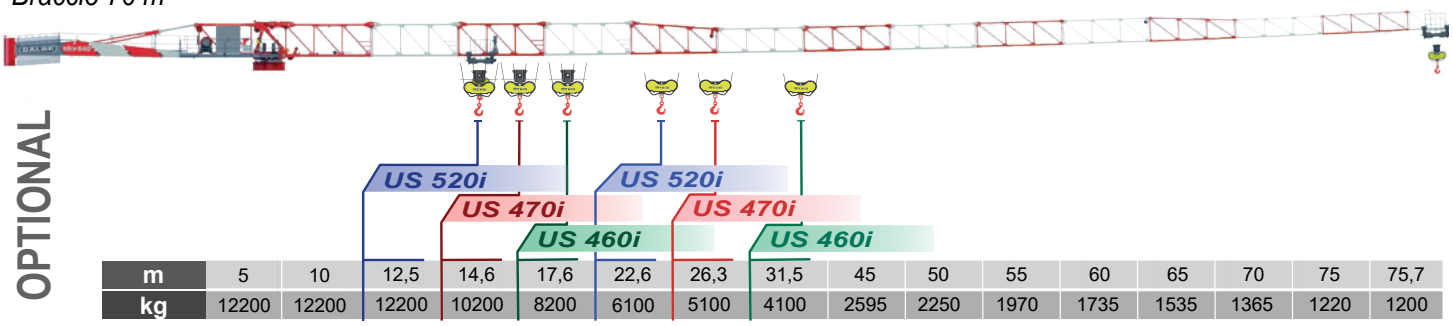
Heights longer than 120 metres available
Please contact our Technical Department

Possibilità di altezze oltre 120 metri
Contattare il nostro Ufficio Tecnico

Technical data are not binding and are only indicative - I dati e le misure hanno un valore indicativo, pertanto non sono impegnativi

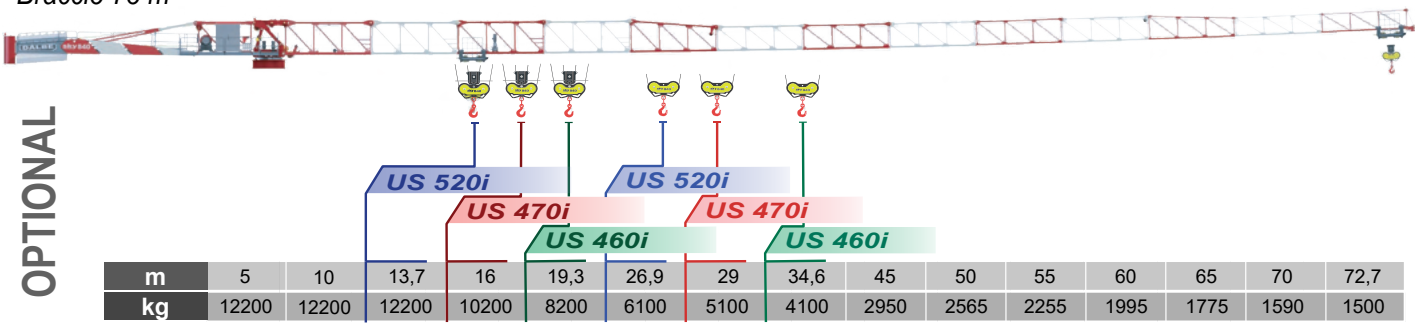
LOAD DIAGRAMS / JIB LENGTH
DIAGRAMMI DI PORTATA / LUNGHEZZA BRACCIO

Jib 76 m
Braccio 76 m



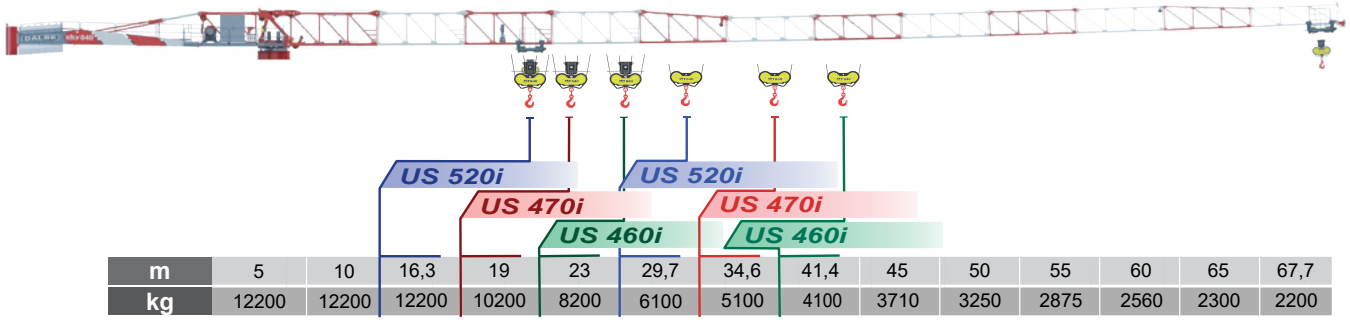
m	5	10	12,5	14,6	17,6	22,6	26,3	31,5	45	50	55	60	65	70	75	75,7
kg	12200	12200	12200	10200	8200	6100	5100	4100	2595	2250	1970	1735	1535	1365	1220	1200

Jib 73 m
Braccio 73 m



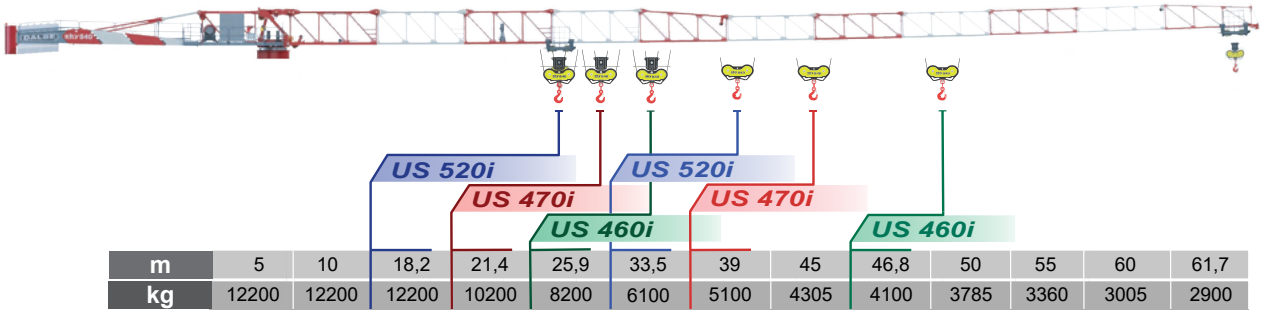
m	5	10	13,7	16	19,3	26,9	29	34,6	45	50	55	60	65	70	72,7
kg	12200	12200	12200	10200	8200	6100	5100	4100	2950	2565	2255	1995	1775	1590	1500

Jib 68 m
Braccio 68 m



m	5	10	16,3	19	23	29,7	34,6	41,4	45	50	55	60	65	67,7
kg	12200	12200	12200	10200	8200	6100	5100	4100	3710	3250	2875	2560	2300	2200

Jib 62 m
Braccio 62 m

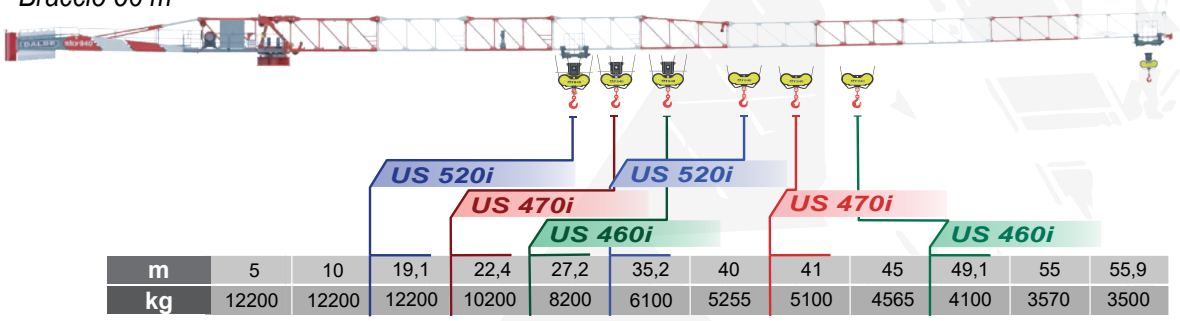


m	5	10	18,2	21,4	25,9	33,5	39	45	46,8	50	55	60	61,7
kg	12200	12200	12200	10200	8200	6100	5100	4305	4100	3785	3360	3005	2900

Technical data are not binding and are only indicative - I dati e le misure hanno un valore indicativo, pertanto non sono impegnativi

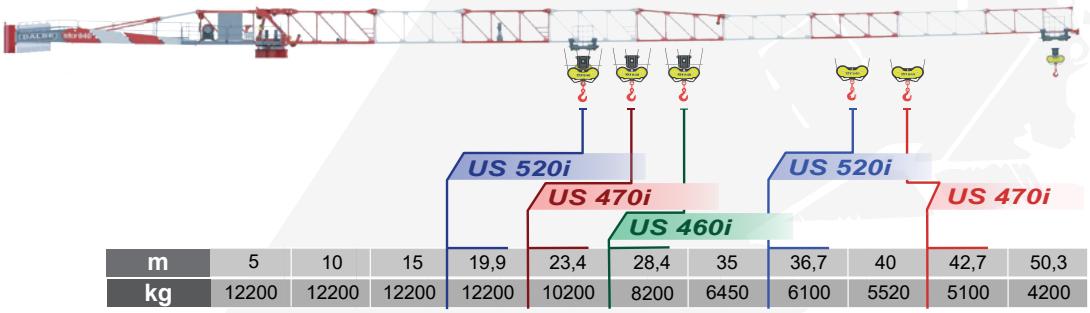
LOAD DIAGRAMS / JIB LENGTH
DIAGRAMMI DI PORTATA / LUNGHEZZA BRACCIO

Jib 56 m
Braccio 56 m



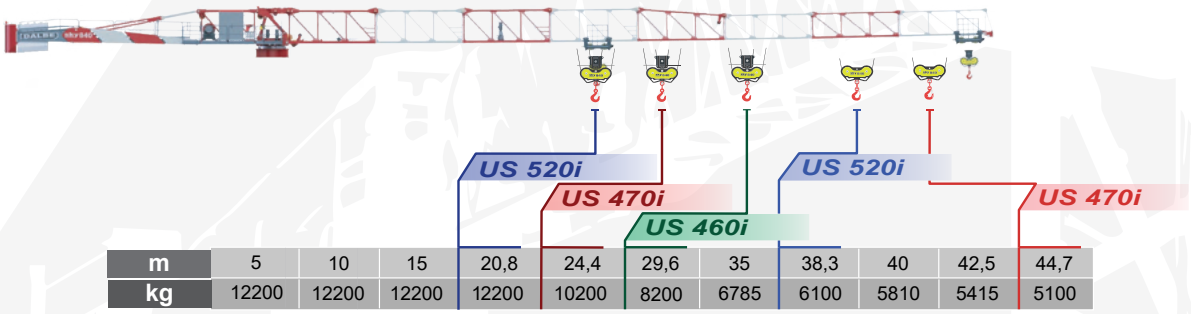
m	5	10	19,1	22,4	27,2	35,2	40	41	45	49,1	55	55,9
kg	12200	12200	12200	10200	8200	6100	5255	5100	4565	4100	3570	3500

Jib 50 m
Braccio 50 m



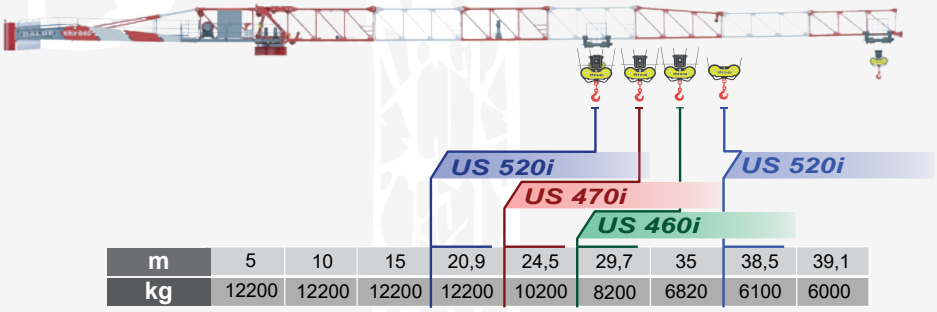
m	5	10	15	19,9	23,4	28,4	35	36,7	40	42,7	50,3
kg	12200	12200	12200	12200	10200	8200	6450	6100	5520	5100	4200

Jib 45 m
Braccio 45 m



m	5	10	15	20,8	24,4	29,6	35	38,3	40	42,5	44,7
kg	12200	12200	12200	12200	10200	8200	6785	6100	5810	5415	5100

Jib 40 m
Braccio 40 m

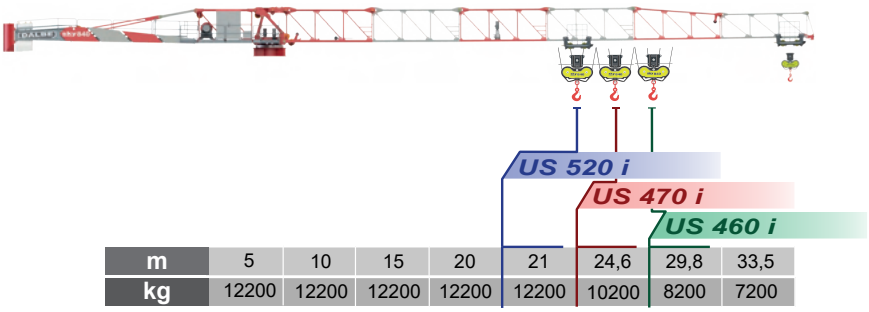


m	5	10	15	20,9	24,5	29,7	35	38,5	39,1
kg	12200	12200	12200	12200	10200	8200	6820	6100	6000

Technical data are not binding and are only indicative - I dati e le misure hanno un valore indicativo, pertanto non sono impegnativi

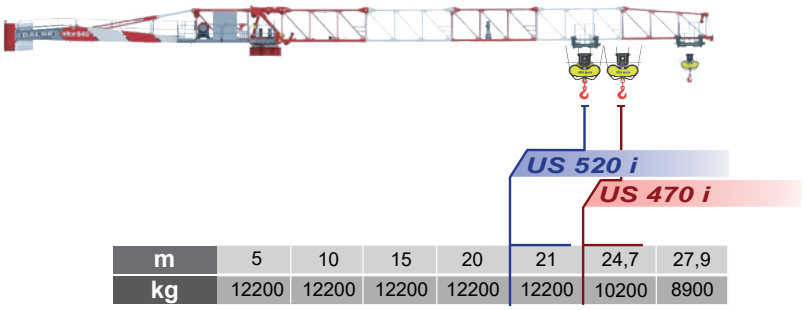
LOAD DIAGRAMS / JIB LENGTH
DIAGRAMMI DI PORTATA / LUNGHEZZA BRACCIO

Jib 34 m
Braccio 34 m



m	5	10	15	20	21	24,6	29,8	33,5
kg	12200	12200	12200	12200	12200	10200	8200	7200

Jib 28 m
Braccio 28 m

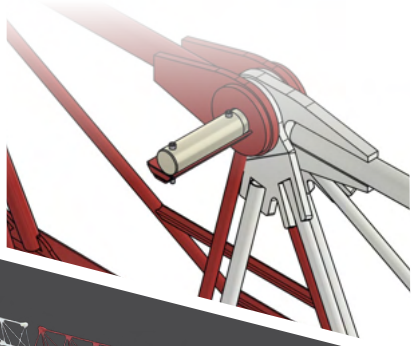


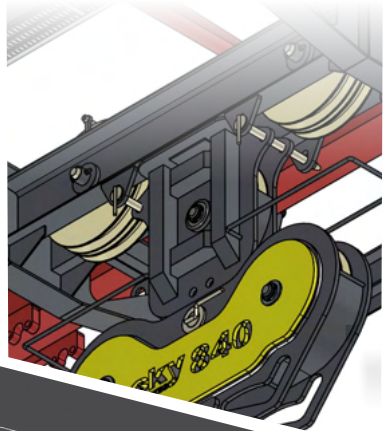
m	5	10	15	20	21	24,7	27,9
kg	12200	12200	12200	12200	12200	10200	8900

MODULAR JIB ASSEMBLY
MONTAGGIO DEL BRACCIO MODULARE

The jib can be lifted fully assembled, in groups, or as individual sections.
Il braccio può essere sollevato interamente assemblato, a gruppi, o per singoli settori.

QUICK AND SIMPLE ASSEMBLY
RAPIDITA' E SEMPLICITA' DI ASSEMBLAGGIO



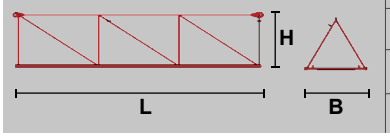


Technical data are not binding and are only indicative - I dati e le misure hanno un valore indicativo, pertanto non sono impegnativi

TABLE OF COMPONENTS
TABELLA DEI COMPONENTI

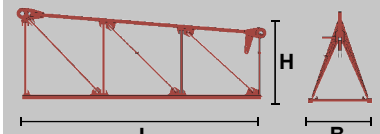
Main measurements and weight:
Ingombri e pesi:

Jib element - Elemento di braccio BAS



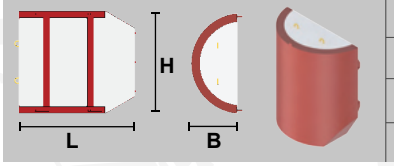
L=	5,64
B=	1,5
H=	1,26
kg=	260

Jib element - Elemento di braccio BIS



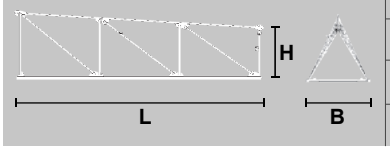
L=	5,64
B=	1,5
H=	2,16
kg=	1150

Ballast - Zavorra



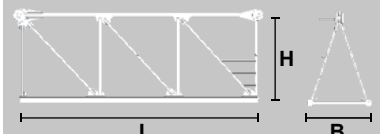
L=	1,89
B=	1,58
H=	0,8
kg=	3850

Jib element - Elemento di braccio BBS



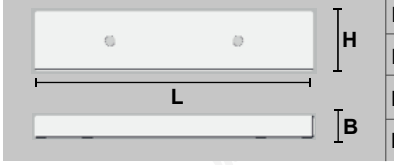
L=	5,64
B=	1,5
H=	1,58
kg=	290

Jib element - Elemento di braccio BLS



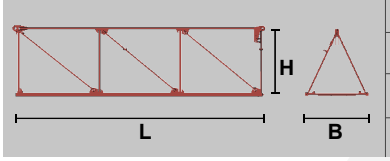
L=	5,64
B=	1,5
H=	2,19
kg=	1350

Ballast - Zavorra



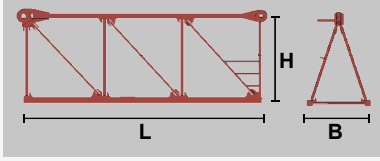
L=	5,45
B=	1,15
H=	0,41
kg=	6000

Jib element - Elemento di braccio BCS



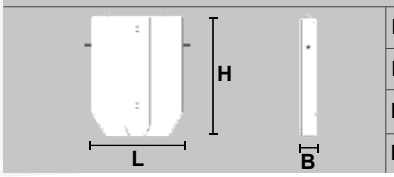
L=	5,64
B=	1,5
H=	1,59
kg=	400

Jib element - Elemento di braccio BMS



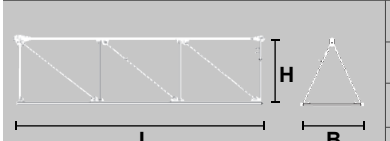
L=	5,64
B=	1,5
H=	2,21
kg=	1600

Ballast - Zavorra - 1250kg



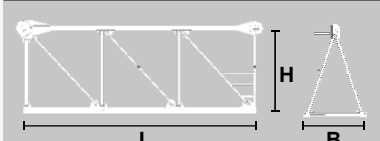
L=	1,8
B=	0,25
H=	1,39
kg=	1250

Jib element - Elemento di braccio BDS



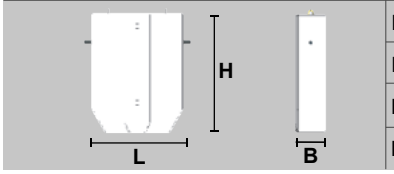
L=	5,64
B=	1,5
H=	1,61
kg=	480

Jib element - Elemento di braccio BNS



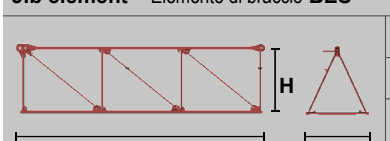
L=	5,64
B=	1,5
H=	2,24
kg=	1800

Ballast - Zavorra - 2500kg



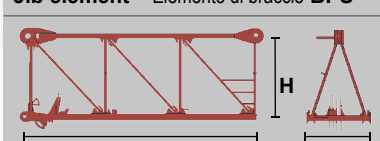
L=	1,8
B=	0,47
H=	1,39
kg=	2500

Jib element - Elemento di braccio BES



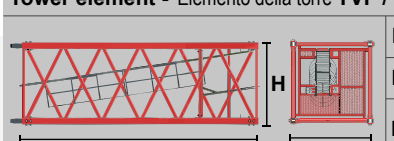
L=	5,64
B=	1,5
H=	1,62
kg=	615

Jib element - Elemento di braccio BPS



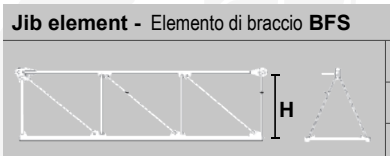
L=	5,64
B=	1,56
H=	2,34
kg=	2400

Tower element - Elemento della torre TVF / TXF



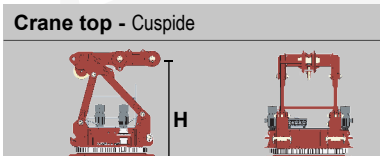
L=	6,0
H-B=	2,06
TVF kg=	2520
TXF kg=	3100

Jib element - Elemento di braccio BFS



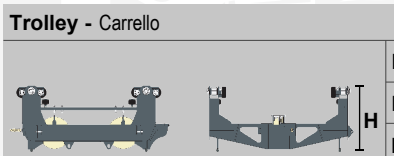
L=	5,64
B=	1,5
H=	1,67
kg=	775

Crane top - Cuspide



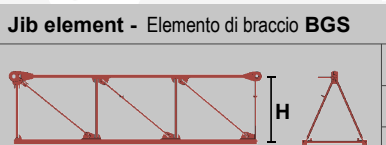
L=	2,16
B=	2,25
H=	3,14
kg=	9000

Trolley - Carrello



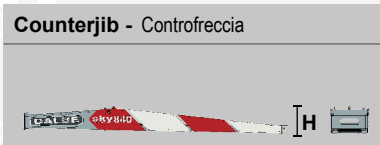
L=	2,01
B=	1,93
H=	0,86
kg=	550

Jib element - Elemento di braccio BGS



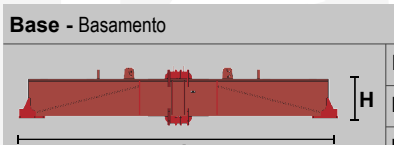
L=	5,64
B=	1,5
H=	1,68
kg=	890

Counterjib - Controfreccia



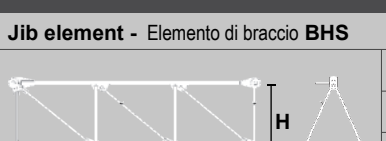
L=	11,77
B=	1,73
H=	1,22
kg=	4500

Base - Basamento



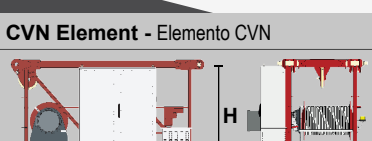
L=	8,75
B=	1,61
H=	0,57
kg=	2660

Jib element - Elemento di braccio BHS



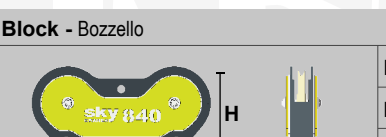
L=	5,64
B=	1,5
H=	1,69
kg=	1050

CVN Element - Elemento CVN



L=	4,02
B=	2,09
H=	2,24
kg=	2500

Block - Bozzello

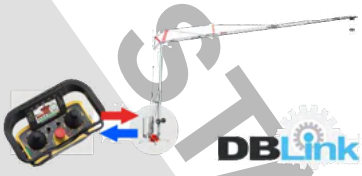


L=	1,18
B=	0,26
H=	0,67
kg=	300

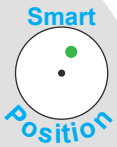
Technical data are not binding and are only indicative - I dati e le misure hanno un valore indicativo, pertanto non sono impegnativi

STANDARD

DBLink
Sensors network, processed by PLC: INFO - ALARMS - DIAGNOSTICS - ASSISTED MOVEMENTS. With the DBLink system, the main crane operating parameters are displayed in real time, allowing immediate control by the operator on the remote control LCD display.
Rete sensori, elaborazione tramite PLC: INFO - ALLARMI - DIAGNOSTICA - MANOVRE ASSISTITE. Con il sistema DBLink, i principali parametri di funzionamento della gru sono visualizzati in tempo reale, consentendo un controllo immediato da parte dell'operatore tramite lo schermo LCD del radiocomando.



SMART Position
The Smart Position function allows the operator to store a point within the working area and automatically stop the machine once it is reached, facilitating repetitive operations.
La funzione Smart Position consente di memorizzare un punto nell'area di lavoro e di arrestare automaticamente la macchina al suo raggiungimento, facilitando le operazioni ripetitive.



SMART Zone
The Smart Zone function allows the definition of a dedicated working area, both in terms of slewing range and operating radius.
La funzione Smart Zone consente di definire un'area di lavoro dedicata, sia in termini di ampiezza di rotazione che di raggio operativo.



QLS System
Quick adjustment of load limiters: a simple device that ensures precise calibration of the load limiting system.
Regolazione rapida dei limitatori di carico: un semplice dispositivo che garantisce la perfetta taratura del sistema di limitazione del carico.



E-Trolley
Quick adjustment of load limiters: a simple device that ensures precise calibration of the load limiting system.
Gestione elettronica della posizione del carrello tramite encoder: una singola taratura regola automaticamente arresti e rallentamenti per tutte le configurazioni di braccio con estrema precisione.

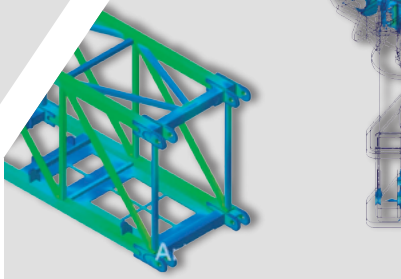


TVS System – Torque Vectoring Slewing
Slewing control via PLC and inverter operating in torque control mode ensures high load stability and extremely smooth, responsive machine operation, even during fine positioning.
Il controllo della rotazione tramite PLC e inverter in controllo di coppia, garantisce un'elevata stabilità del carico ed un comportamento dinamico della macchina estremamente fluido e manovrabile anche negli accostamenti.



Nighttime Obstruction Lights – *Luci Segnaletiche Notturne*
Dusk-to-dawn flashing lights.
Lampeggianti ad azionamento crepuscolare.



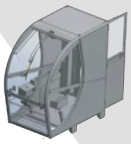


OPTIONALS

DBLink 4.0
Remote monitoring and management via GSM modem, GPS localization, automatic generation of working-day reports.
Monitoraggio ed interazione da remoto tramite modem GSM, localizzazione GPS, generazione report automatici della giornata di lavoro.



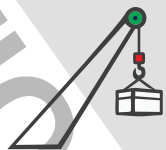
Cabin
Ergonomic and comfortable operator cabin, designed to ensure excellent visibility and optimal machine control.
Cabina operatore ergonomica e confortevole, progettata per garantire un'elevata visibilità e un controllo ottimale della macchina.



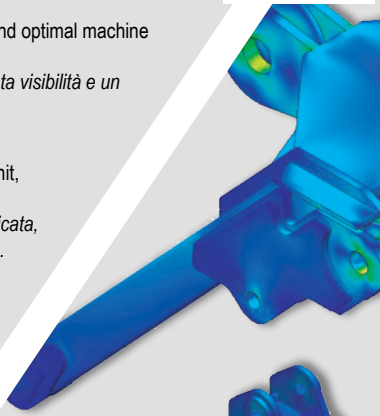
SNF Control Unit
Automatic slewing bearing lubrication system with dedicated control unit, ensuring continuous and optimal lubrication over time.
Sistema di ingrassaggio automatico della ralla con centralina dedicata, che garantisce una lubrificazione costante e ottimale nel tempo.

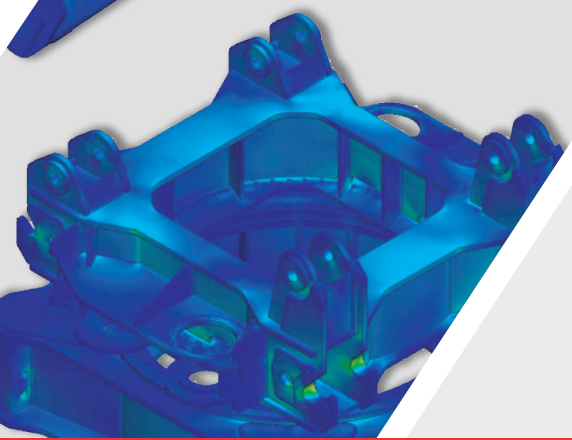


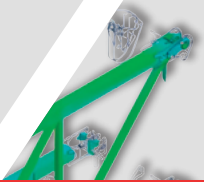
Service Derrick
Service derrick for auxiliary lifting and handling operations during assembly and maintenance phases.
Derrick di servizio per operazioni ausiliarie di sollevamento e movimentazione durante le fasi di montaggio e manutenzione.

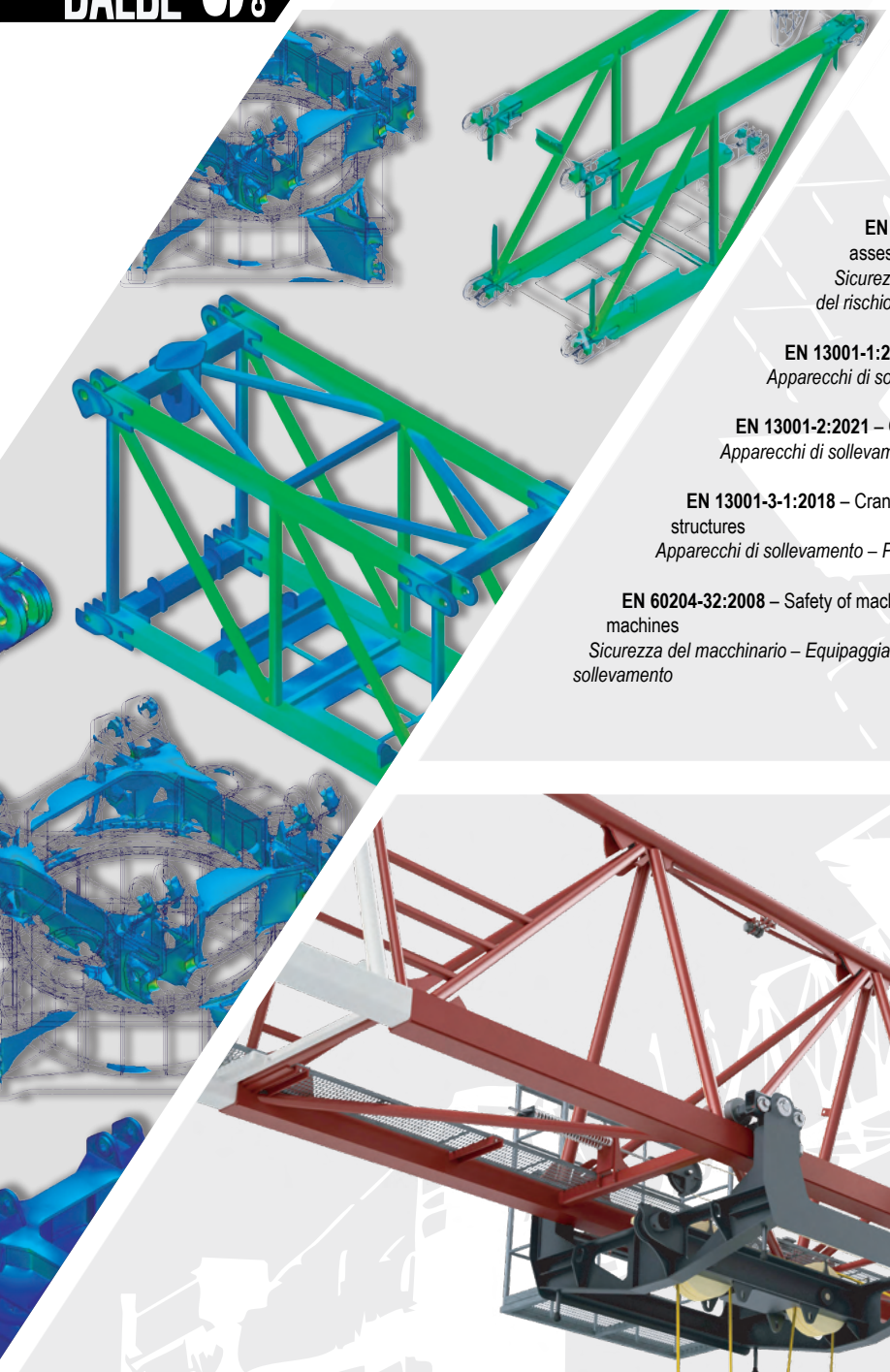


OPTIONAL









REFERENCE STANDARDS
NORMATIVE

EN 14439:2025 – Tower cranes – Safety
Gru a torre – Sicurezza

EN ISO 12100:2010 – Safety of machinery – General principles for design – Risk assessment and risk reduction
Sicurezza del macchinario – Principi generali di progettazione – Valutazione e riduzione del rischio

EN 13001-1:2015 – Cranes – General design – Part 1: General principles and requirements
Apparecchi di sollevamento – Progettazione generale – Parte 1: Principi e requisiti generali

EN 13001-2:2021 – Cranes – General design – Part 2: Load actions
Apparecchi di sollevamento – Progettazione generale – Parte 2: Azioni di carico

EN 13001-3-1:2018 – Cranes – General design – Part 3-1: Limit states and proof of competence of steel structures
Apparecchi di sollevamento – Progettazione generale – Parte 3-1: Stati limite e verifica delle strutture in acciaio

EN 60204-32:2008 – Safety of machinery – Electrical equipment of machines – Part 32: Requirements for hoisting machines
Sicurezza del macchinario – Equipaggiamento elettrico delle macchine – Parte 32: Prescrizioni per macchine di sollevamento



DALBE

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