WOLFFKRAN

# WOLFF Cranes
# Made for the US


WOLFF US Cranes - Made by Specialists for Specialists

# 100 years of innovation by WOLFF

1913

2013

In the mid-1990s **WOLFFKRAN** is the first manufacturer to introduce the electronically controlled horizontal load path

1990

**WOLFFKRAN** presents the first fast-assembly tower crane of the world

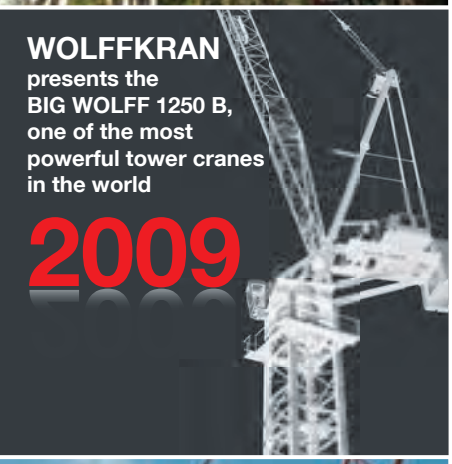
1913

**WOLFF** engineers develop the frequency controlled drive that becomes standard in WOLFF cranes

1980

**WOLFFKRAN** presents the BIG WOLFF 1250 B, one of the most powerful tower cranes in the world

2009



**WOLFFKRAN** unveils the WOLFF 355 B, the first luffing jib crane with the new, WOLFF patented design

2007



**WOLFFKRAN** introduced the electronic data monitoring system, today known as WOLFF *Link*

1996

# WOLFF Tower Cranes for the US

Tried and tested on construction sites around the world.

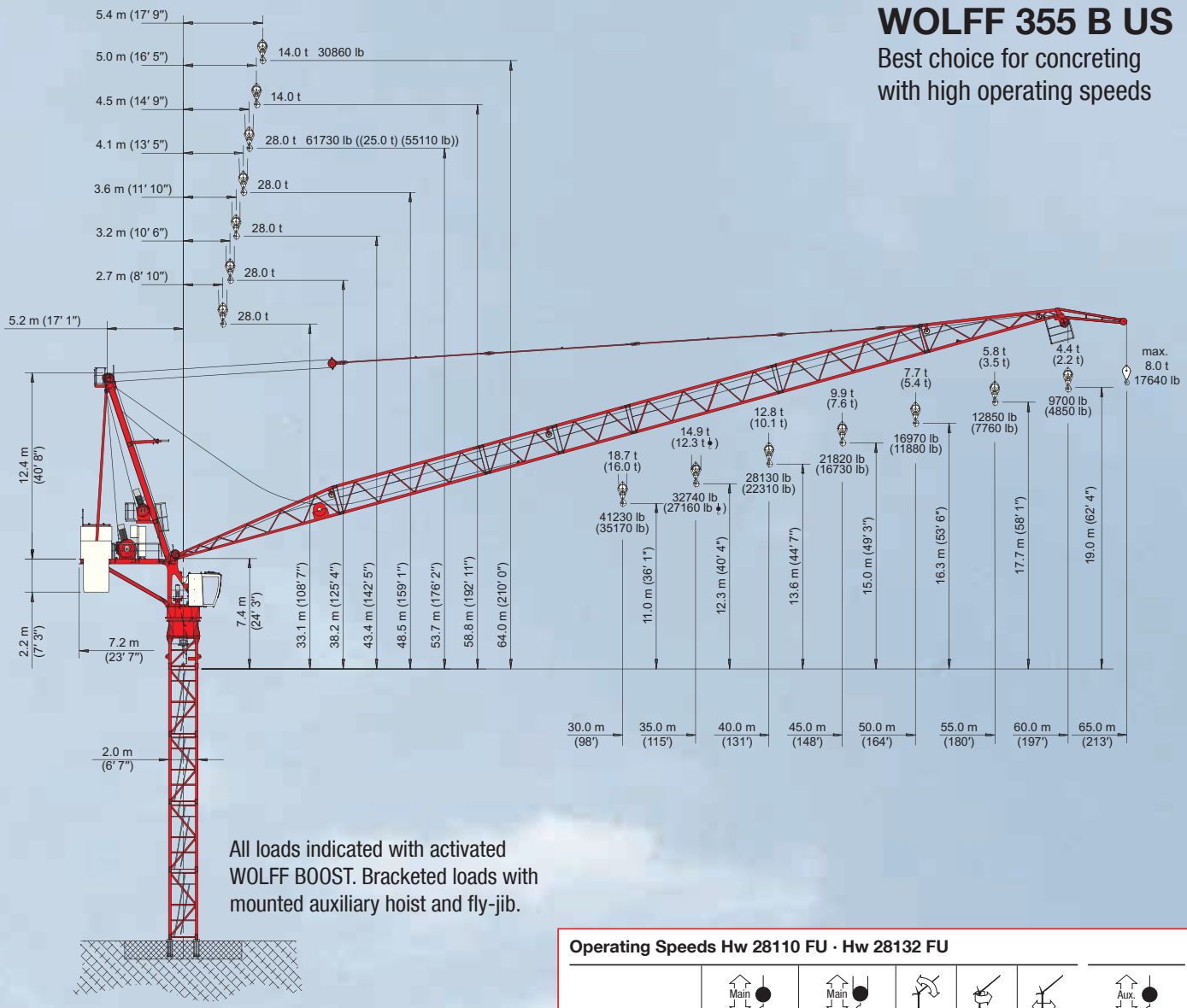
- **New York City – D.O.B. approved**
- **Compliant with ANSI standard B30.3-2012 – Tower Cranes. Electrical equipment and wiring compliant with European Standard EN 60204-1 and relevant modifications based on the US Standard NFPA-70.**

## Highest standards in safety and efficiency:

- **WOLFF** *Boost* **–** software based function that allows 10% more load carrying capacity without representing an overload hoist.
- **Horizontal load path –** software based function that keeps the load at the same height during retracting and luffing out for more safety and efficiency.
- **Fine positioning system –** easy to handle positioning system that allows finest movements of heavy loads; one-button solution for the crane driver.
- **Output control –** when hoisting loads, the crane control checks the system for output reserves and automatically increases the hoisting speed if these are available. With great hook heights, the hoisting speed per wound-up layer of rope on the rope drum increases.
- **Voltage control –** the crane control identifies the current supply voltage of the hoisting gear and automatically reduces the output if the voltage is to low.
- **Premium safety features include –** patented slack rope monitoring function, auxiliary safety brakes for the hoisting and derricking gears, slewing lock on the slewing gear to prevent crane from windvaning, diagnosis pages of the crane control with comprehensive self-tests ensuring correct operation.
- **WOLFF** *Link* **–** online monitoring system of all crane operating data as well as diagnostic profile information; your crane fleet just on click away.
- **Auxiliary components –** all WOLFF luffing jib cranes can be fitted with an auxiliary fly-jib and hoisting winch with a maximum lifting capacity of 17640 lb and auxiliary brakes if desired. Special load carrying capacities apply with mounted auxiliary hoist and fly-jib.

# WOLFF 355 B US

Best choice for concreting with high operating speeds



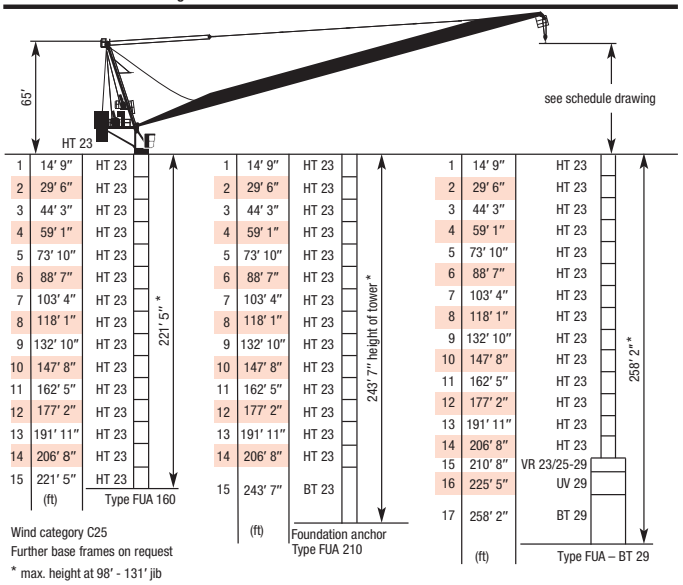

All loads indicated with activated WOLFF BOOST. Bracketed loads with mounted auxiliary hoist and fly-jib.

- First luffing jib crane with WOLFF patented design
- High speed hoisting gear with line speeds up to 951 ft/min
- Special hoist rope guidance for high speed hoisting
- Pre-assembled components for fast assembly and maximum safety
- Connection to tower system 6′ 7″ and 7′ 7″ wide, suitable for internal and external climbing devices
- Multiple stationary and mobile bases available

## Operating Speeds Hw 28110 FU · Hw 28132 FU

| | | Main | Main | | | | Aux. |
|---|---|---|---|---|---|---|---|
| Motor Hw 28110 FU | hp | 147 | 147 | 100 | 10 | 6 x 7.4 | 100 |
| Motor Hw 28132 FU | hp | 177 | 177 | | | | |
| Speed Hw 28110 FU | | 0 - 5510 lb<br>0 ... 607 ft/min stepless<br>0 - 30860 lb<br>0 ... 131 ft/min | 0 - 12120 lb<br>0 ... 302 ft/min stepless<br>0 - 61730 lb<br>0 ... 66 ft/min | 1.8 min | 0.8 min$^{-1}$ | 82 ft/min | 0 - 4630 lb<br>0 ... 459 ft/min stepless<br>0 - 17640 lb<br>0 ... 151 ft/min |
| Speed Hw 28132 FU | | 0 - 3750 lb<br>0 ... 951 ft/min stepless<br>0 - 30860 lb<br>0 ... 158 ft/min | 0 - 8820 lb<br>0 ... 479 ft/min stepless<br>0 - 61730 lb<br>0 ... 82 ft/min | | | | |
| Hook path | ft | 3018 | 1509 | | | | 1969 |

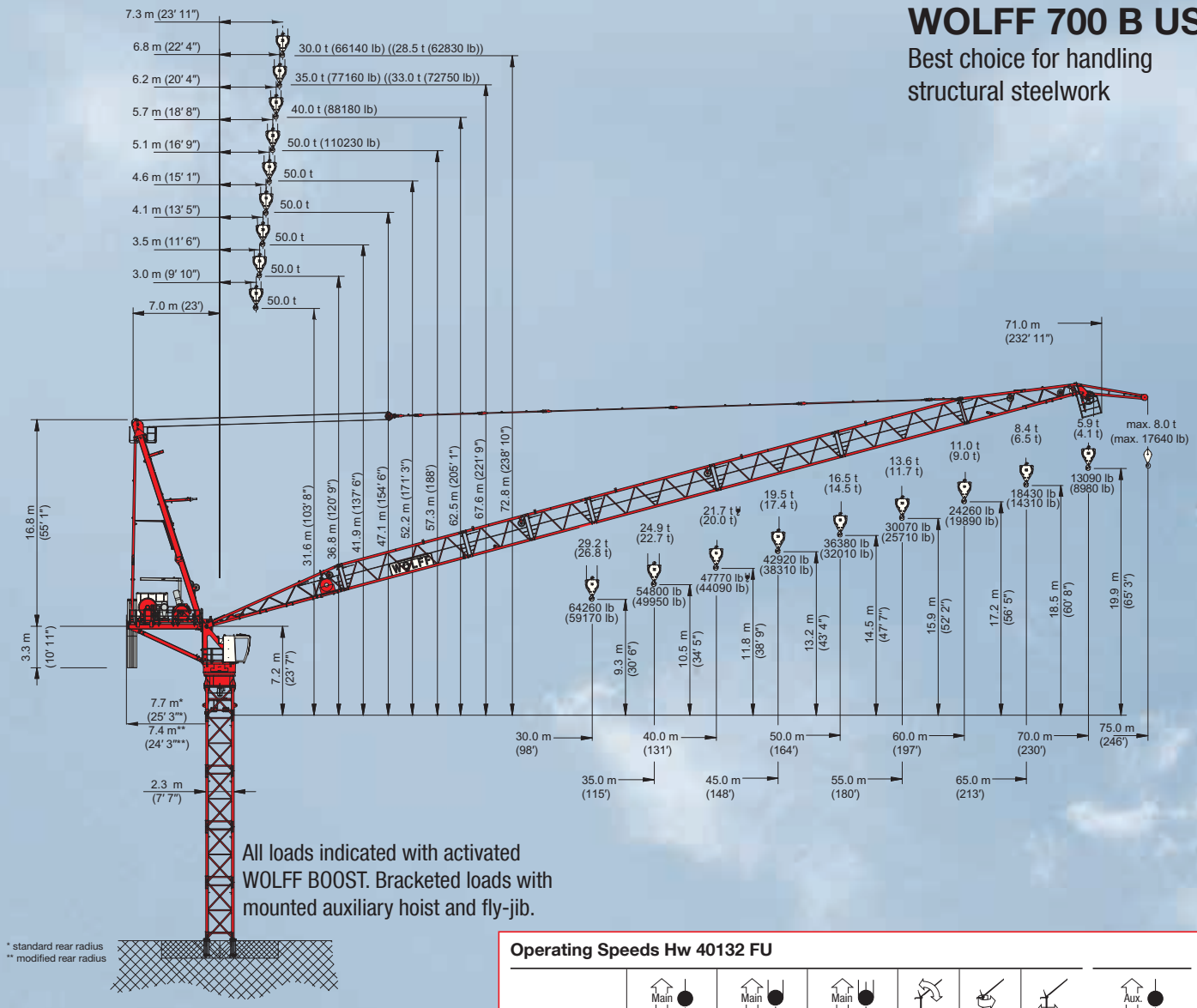
**WOLFF 355B US · Tower configurations**




Wind category C25
Further base frames on request
* max. height at 98′ - 131′ jib

# WOLFF 700 B US

Best choice for handling structural steelwork




All loads indicated with activated WOLFF BOOST. Bracketed loads with mounted auxiliary hoist and fly-jib.

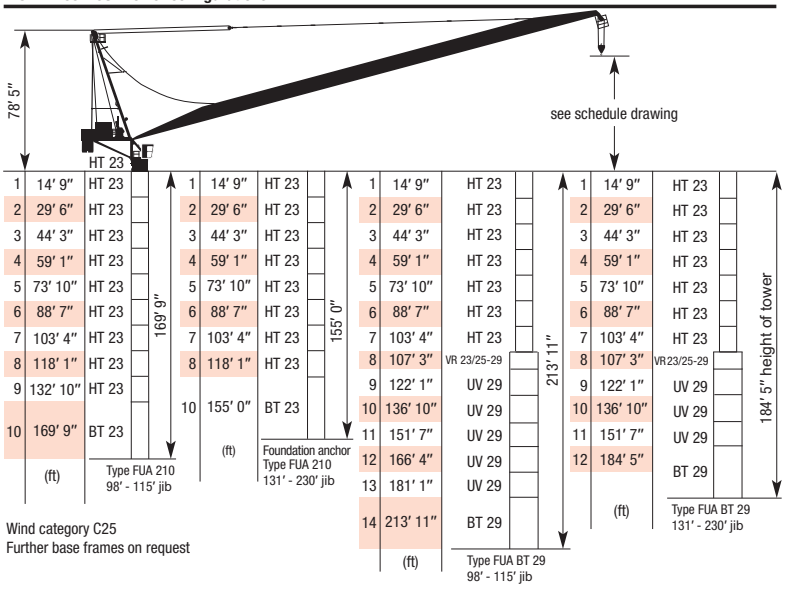
* standard rear radius
** modified rear radius

- All crane components suitable for container transport
- Maximum freestanding tower height of 345′ possible using tower sections 9′ 6″ and 10′ 10″ wide
- Modifiable to increase the maximum LCC to 209437 lb for heavy duty lifting
- Length of counter jib can be reduced from 25′ 3″ to 24′ 3″ for increased tail swing clearance
- Low weight crane components for efficient assembly/disassembly
- Optional secondary brakes for the hoisting and luffing gear for maximum safety

**Operating Speeds Hw 40132 FU**

| | | Main | Main | Main | | | | Aux. |
|---|---|---|---|---|---|---|---|---|
| Motor | hp | 177 | 177 | 177 | 147 | 2 x 10 | 8 x 7.4 | 100 |
| Speed | | 0 - 6390 lb<br>0 ... 623 ft/min<br>stepless<br>0 - 44090 lb<br>0 ... 108 ft/min | 0 - 13670 lb<br>0 ... 312 ft/min<br>stepless<br>0 - 88180 lb<br>0 ... 56 ft/min | 0 - 20500 lb<br>0 ... 207 ft/min<br>stepless<br>0 - 110230 lb<br>0 ... 43 ft/min | 1.8 - 2.8 min | 0.7 $min^{-1}$ | 98 ft/min | 0 - 4630 lb<br>0 ... 459 ft/min<br>stepless<br>0 - 17640 lb<br>0 ... 151 ft/min |
| Hook path | ft | 3248 | 1624 | 1083 | | | | 1969 |

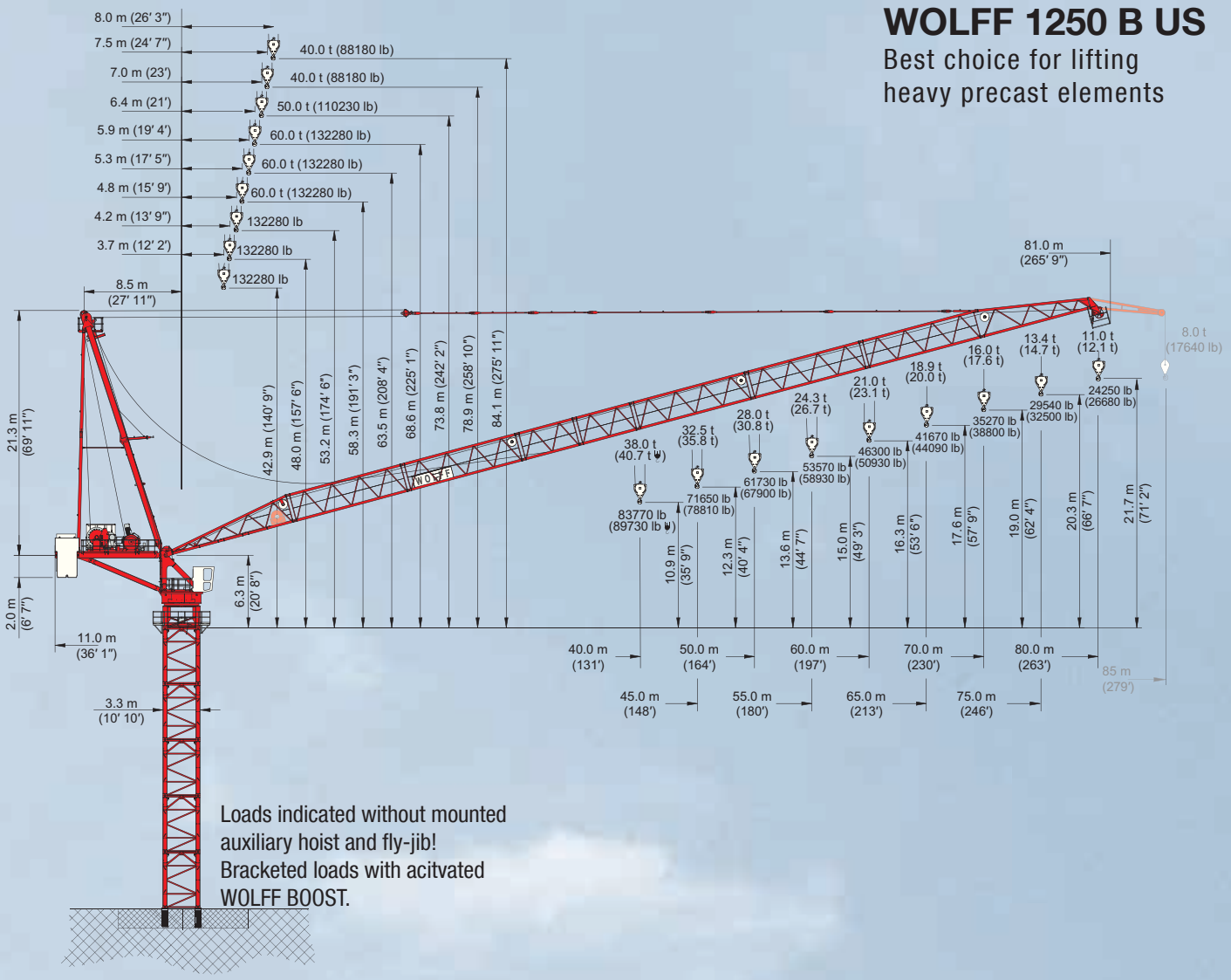
**WOLFF 700 B US · Tower configurations**




Wind category C25
Further base frames on request

# WOLFF 1250 B US

Best choice for lifting heavy precast elements



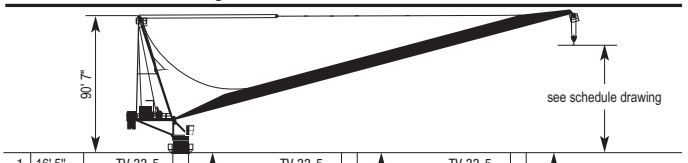

Loads indicated without mounted auxiliary hoist and fly-jib!
Bracketed loads with acitvated WOLFF BOOST.

**Operating Speeds Hw 40132 FU**

| | | Main | Main | Main | | | | Aux. |
|---|---|---|---|---|---|---|---|---|
| Motor | hp | 177 | 177 | 177 | 147 | 2 x 14.8 | 8 x 7.4 | 100 |
| Speed | | 0 - 6390 lb<br>0 ... 623 ft/min<br>stepless<br>0 - 44090 lb<br>0 ... 108 ft/min | 0 - 13670 lb<br>0 ... 312 ft/min<br>stepless<br>0 - 88180 lb<br>0 ... 56 ft/min | 0 - 20500 lb<br>0 ... 207 ft/min<br>stepless<br>0 - 132276 lb<br>0 ... 36 ft/min | 2.5 - 3.5 min | 0.7 min$^{-1}$ | 98 ft/min | 0 - 4630 lb<br>0 ... 459 ft/min<br>stepless<br>0 - 17640 lb<br>0 ... 151 ft/min |
| Hook path | ft | 3248 | 1624 | 1083 | | | | 1969 |

- BIG WOLFF - The strongest WOLFF crane in WOLFFKRAN's product lineup
- Maximum freestanding tower height of 295′ with tower elements of 10′ 10″
- Maximum jib length of 263′ for greater height and further reach
- Counter jib with a length of 36′ 1″ for operation on sites with restricted space

**WOLFF 1250 B US · Tower configurations**



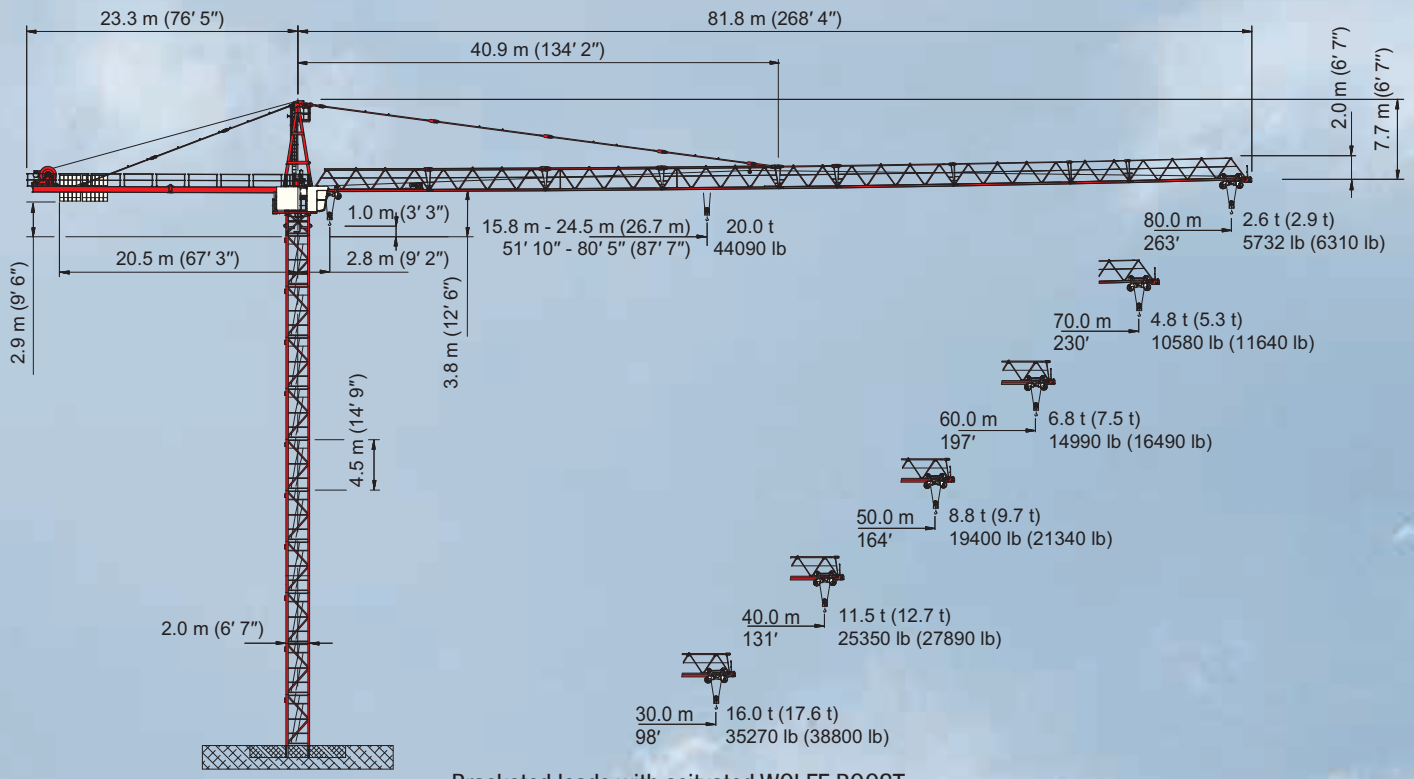

| | (ft) | 131′ - 197′ jib | 213′ - 230′ jib | 246′ - 263′ jib |
|---|---|---|---|---|
| 1 | 16′ 5″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 2 | 32′ 10″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 3 | 49′ 3″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 4 | 65′ 7″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 5 | 82′ 0″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 6 | 98′ 5″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 7 | 114′ 10″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 8 | 131′ 2″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 9 | 147′ 8″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 10 | 164′ 4″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 11 | 180′ 5″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 12 | 196′ 10″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 13 | 213′ 3″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 14 | 229′ 8″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 15 | 246′ 0″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 16 | 262′ 6″ | TV 33-5 | TV 33-5 | TV 33-5 |
| 17 | 278′ 10″ | TV 33-5 | TV 33-5 | |
| 18 | 295′ 3″ | TV 33-5 | | |

295′ 3″
278′ 10″
262′ 6″ height of tower

Preliminary

Foundation anchor type G
Wind category C25
Further base frames on request

# WOLFF 8033 *cross* US




Bracketed loads with acitvated WOLFF BOOST.

## Best choice when a true all-rounder is needed with high lifting capacity and operating speed

- Fast operating speeds in 2-fall mode
- High load carrying capacities in 4-fall mode

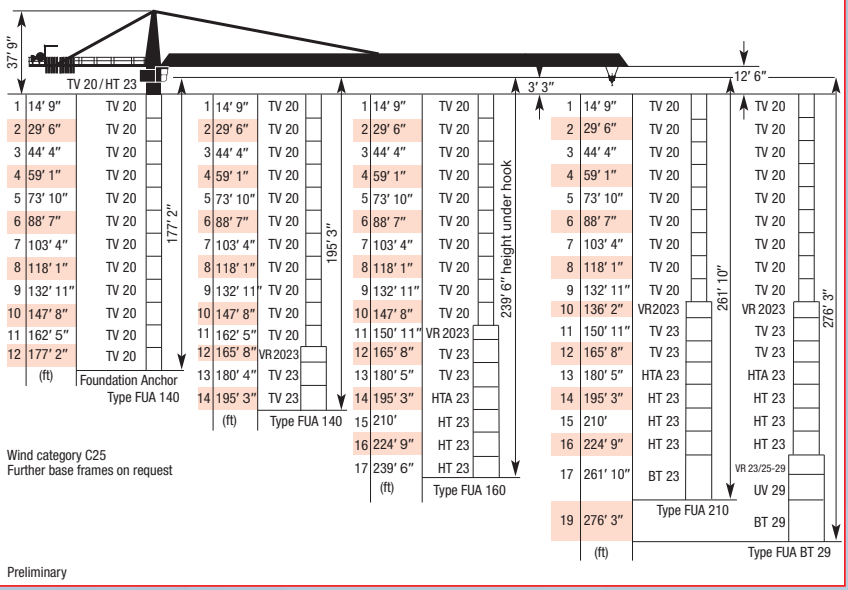
**Operating Speeds Hw 2075 FU · Hw 20110 FU**

| | | | | | |
|---|---|---|---|---|---|
| Motor Hw 2075 FU | hp | 100 | 12 | 2 x 10 | 5 x 7.4 |
| Motor Hw 20110 FU | hp | 147 | | | |
| Speed Hw 2075 FU | | 0 - 4630 lb<br>0 ... 433 ft/min<br>stepless<br>0 - 44090 lb<br>0 ... 62 ft/min | 0 - 7275 lb<br>0 ... 328 ft/min<br>stepless<br>0 - 44090 lb<br>0 ... 105 ft/min | 0.8 min$^{-1}$ | 98 ft/min |
| Speed Hw 20110 FU | | 0 - 4850 lb<br>0 ... 623 ft/min<br>stepless<br>0 - 44090 lb<br>0 ... 92 ft/min | | | |
| Hook path | ft | 1312 | | | |

## Available in three versions

- **WOLFF 8033.8 *cross* US**:
  2-fall mode, max. LCC 18739 lb
- **WOLFF 8033.16 *cross* US**:
  2/4-fall mode, max. LCC 36376 lb
- **WOLFF 8033.20 *cross* US**:
  2-fall mode, max. LCC 44090 lb

**WOLFF 8033.20 *cross US* · Tower configurations**



# Electric connection values

**WOLFF Electric connection values · Tower cranes with luffing jib**

| Crane Type | 355 B US | | | | 700 B US | | 1250 B US | |
|---|---|---|---|---|---|---|---|---|
| Hoisting gear | 28110 FU | | 28132 FU | | 40132 FU | | 40132 FU | |
| Power (hp) | 147 | | 177 | | 177 | | 177 | |
| Current (A) | 220 | | 242 | | 242 | | 242 | |
| Luffing gear | 1575 FU | | | | 12110 FU | | 16110 FU | |
| Power (hp) | 100 | | | | 148 | | 148 | |
| Current (A) | 150 | | | | 200 | | 200 | |
| Operating current (A) | 280 | | 295 | | 339 | | 347 | |
| Peak current (A) | 337 | | 407 | | 455 | | 457 | |
| Cross section A (in²) | 0.15 | 0.19 | 0.19 | 0.29 | 0.19 | 0.29 | 0.19 | 0.29 |
| Max. fuse In (A) | 200 | 200 | 315 | 315 | 355 | 355 | 355 | 355 |
| Alternatively setting-up power switch (A) | 280 | 280 | 295 | 295 | 339 | 339 | 347 | 347 |
| Max. length S2 + S3 (ft) | 682 | 863 | 741 | 1142 | 663 | 1024 | 663 | 974 |
| Connected power (kVA) | 194 | | 205 | | 235 | | 241 | |
| Min. required generator power (kVA) | 485 | | 513 | | 588 | | 603 | |
| frequency controlled drives | x | | | | x | | x | |

**WOLFF Electric connection values · Tower cranes with trolley jib**

| Crane Type | 8033 *cross* US | | | | | |
|---|---|---|---|---|---|---|
| Hoisting gear | 875 FU | | 2075 FU | | 20110 FU | |
| Power (hp) | 100 | | 100 | | 147 | |
| Current (A) | 143 | | 143 | | 198 | |
| Operating current (A) | 141 | | 142 | | 181 | |
| Peak current (A) | 235 | | 239 | | 301 | |
| Cross section A (in²) | 0.08 | 0.11 | 0.08 | 0.11 | 0.11 | 0.15 |
| max. fuse In (A) | 125 | 125 | 125 | 125 | 160 | 160 |
| Alternatively setting-up power switch (A) | 141 | 141 | 142 | 142 | 181 | 181 |
| Max. length S2 + S3 (ft) | 525 | 735 | 515 | 722 | 577 | 784 |
| Connected power (kVA) | 97 | | 98 | | 125 | |
| Min. required generator power (kVA) | 194 | | 245 | | 312 | |
| frequency controlled drives | x | | x | | x | |