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BT 28106

28 t Lifting Capacity
Boom Truck Crane
Sales Flyer
Imperial/Metric

BT 28106



Highlights

The new BT28106 Super Stinger boom truck from Terex combines innovative design with ease of use, structural strength and reliable performance. The result is a boom truck that gives you a low cost of ownership and exceptional reliability.

- ▶ 106 ft (32.3 m) fully synchronous telescopic keel boom
- ▶ 28 T (25.4 t) maximum lifting capacity
- ▶ K-pattern front outrigger design eliminates front jack requirement
- ▶ Rated capacity indicator with work area definition

Applications

- ▶ Residential construction
- ▶ Roofing systems
- ▶ Equipment placement
- ▶ Transportation—Self-loading/unloading of materials
- ▶ Road work
- ▶ Rental services

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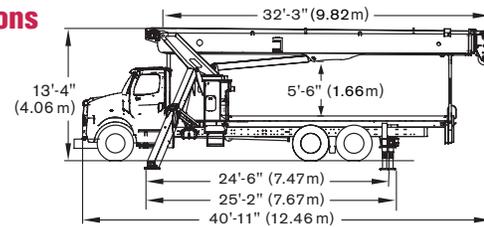
SPECIFICATIONS

BT28106



Maximum lifting capacity	56,000 lb (25,401 kg)
Main boom length	32 – 106 ft (9.8 – 32.3 m)
Main boom and jib length	162 ft (49.4 m)

Dimensions



Operational Ease

Enhanced dual control console

Modular, dual-control console allows operation from either side of the machine.

Precision control

Fully proportional controls with precise metering for smooth boom movements.

Work area definition

The operator can define boundaries for boom rotation, lift and lower. A warning alarm sounds if the boom moves outside the defined area.

Strength and Power

Proven keel boom design

Four-section fully synchronized, self-centering design that optimizes strength and delivers performance for high lift capacities at all lift radii.

High-performance hydraulics

Three-pump system simultaneously provides independent flow to the boom, hoist and slew drive.

Outriggers

K-pattern outriggers are designed to offer maximum stability while still providing a small footprint. A front jack is not needed with the K-pattern outriggers.

Serviceability

External rotation drive

External rotation drive provides easy maintenance access.

Hoses

Hoses for extend/retract are easily accessible.

New and Improved

- Step-to-Deck™ enables easy control access
- Expanded handrails
- K-pattern outrigger design
- Lattice offset jib with pull-out fly section

Key Specifications

	Maximum tip height with fully extended jib	162 ft (49.4 m)
	Hoist speed (third layer)	2-speed – 137 / 209 ft/min (42 / 64 m/min)
	Maximum line pull	10,500 lb (4,763 kg)

Optional Equipment

- 360 degree continuous rotation
- Two-stage jibs
- Rotation resistant rope
- Multi-part load blocks
- Main hoist with 2 speed motor
- Heavy duty wood flatbeds
- Extra heavy duty wood flatbeds
- Extra heavy duty steel flatbeds
- Radio remote controls
- One-man or two-man baskets
- Hoist drum tensioner
- Oil cooler
- Single front bumper outrigger
- Hydraulic hose reel
- Tool box
- Foot throttle
- Inching control for hoist operation at rear of subframe, for one man hook ball stowage and deploy

Chassis Recommendations (see data sheet for more details)

Description	BT28106
Combined axle weight rating	52,000 lb (25,401 kg)
Front axle weight rating	18,000 lb (8,160 kg)
Rear axle weight rating	34,000 lb (15,420 kg)
Wheelbase	260 in (6,350 mm)
Cab to Axle	192 in (4,875 mm)
RBM per Frame Rail	3,300,000 lb/in (4,475,000 Nm)



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Terex Cranes, Global Marketing, Dinglerstraße 24, 66482 Zweibrücken, Germany
Tel. +49 (0) 6332 830, Email: info.cranes@terex.com, www.terexcranes.com

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TC-SF-E-I/M-BT 28106-11/11



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BT 28106

28 USt Lifting Capacity
Boom Truck Cranes
Datasheet
Imperial

BT 28106



Features

- ▶ 28 USt @ 6 ft capacity at rated distance from center of rotation
- ▶ 106 ft maximum boom length
- ▶ 115 ft maximum tip height
- ▶ 30/47 ft optional jib, offsettable 0°, 15°, 30°
- ▶ 162 ft maximum sheave height with 47 ft jib
- ▶ Behind cab mounting with dual operator console
- ▶ Electronic rated capacity indicator with work area definition
- ▶ Quick reeving boom head
- ▶ K-pattern outriggers

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KEY

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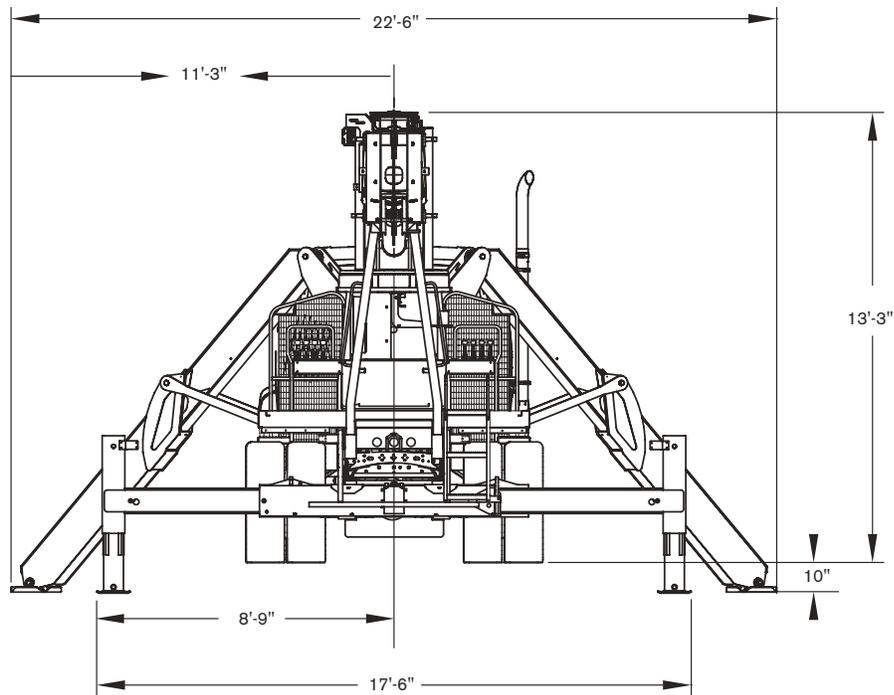
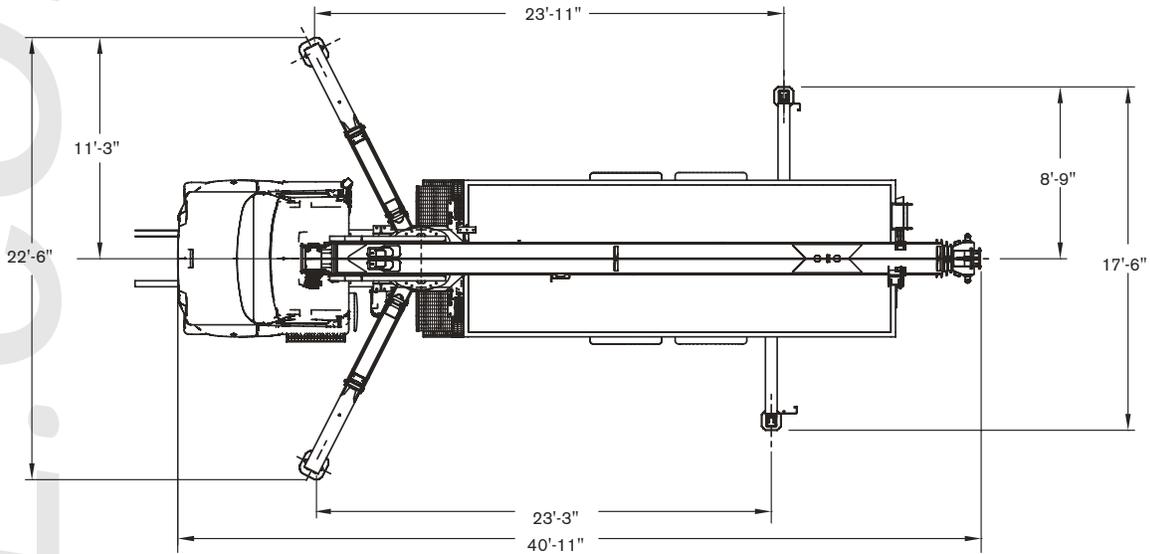
	Main boom		Main Hoist
	Boom length		Hoist line speed
	Tip height		Part line
	Telescoping mode		Operator aid
	Boom angle		Controls
	Working radius		Hydraulics
	Boom with jib		Working temperature
	Boom head		Outriggers
	Hook block		Rotation / Allowable rotation range
	Hook to head sheave pin		Working speeds
	Rope - Standard / Optional		Boom over the rear
	Rope diameter		Boom over the front
	Rope length		Area of operation
	Line pull		

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DIMENSIONS

BT 28106

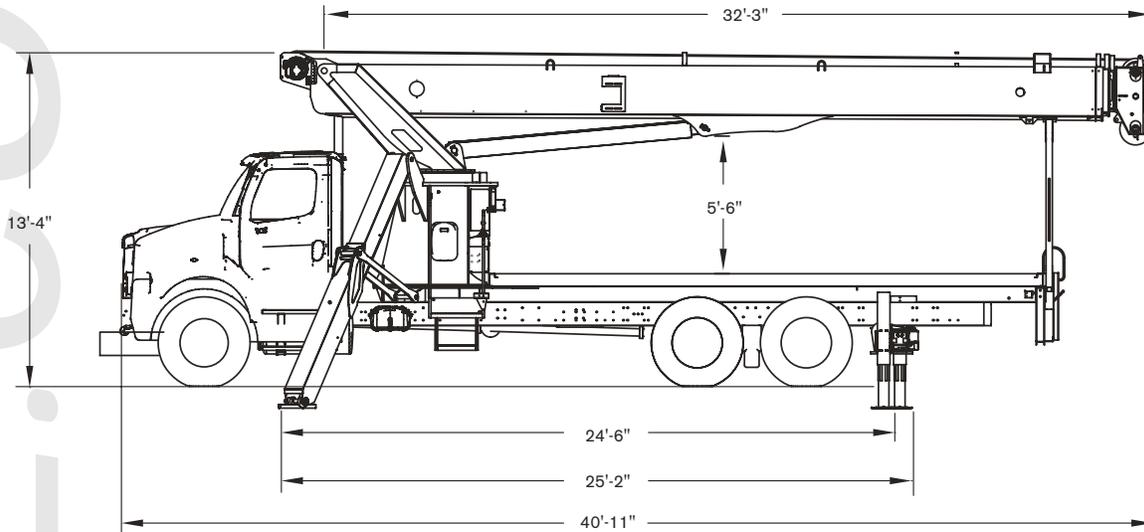
Crane Dimensions



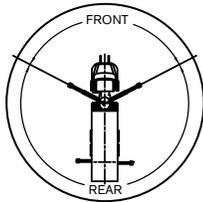
DIMENSIONS

BT 28106

Crane Dimensions



Area of Operation



Mounting Specifications

Gross Vehicle Weight Rating	52,000 lb
Front Axle Weight Rating	18,000 lb
Rear Axle Weight Rating	34,000 lb
Wheelbase	260 in
Cab to Axle	192 in
Afterframe	114 in
RBM per Frame Rail (min)	3,300,000 lb/in
Frame Height (Unloaded)	40 in
Vertical Exhaust Height	110 in

Estimated installed crane weight 30,000 lbs
Crane fitted with jib and mounted on freightliner chassis with flatbed.

Approximate weight distribution:

Front axle	15,400 lbs
Tandem axles	31,000 lbs
Total weight	46,400 lbs

Estimated freightliner bare chassis weight:

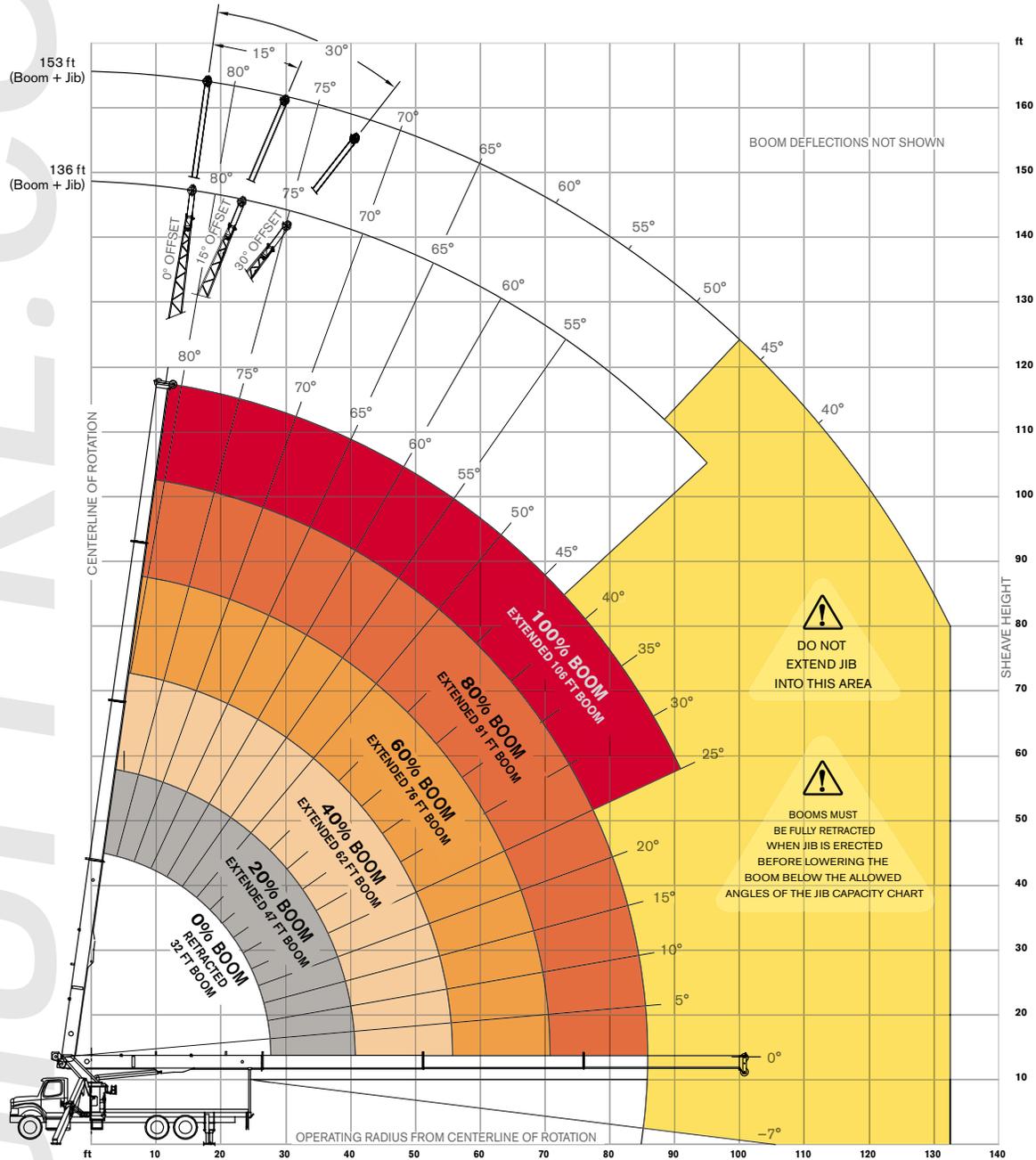
Front axle	9,140 lbs*
Tandem axles	8,270 lbs*
Total weight	17,410 lbs

* Minimum bare chassis weight requirements. Must ballast to minimum if required.

RANGE DIAGRAM

Outriggers Fully Extended (100%)

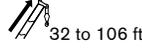
BT 28106



BOOM LOAD CHART

BT 28106

Outriggers Fully Extended (100%)



Standard ASME B30.5

		Boom Length													
		32		47		62		76		91		106			
ft	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	lb	ft	
6	56,000	56,000												6	
8	40,000	40,000	29,000	29,000										8	
10	34,000	34,000	27,000	27,000	25,400	25,400								10	
12	30,000	30,000	24,950	24,950	24,000	24,000								12	
14	24,700	24,700	22,850	22,850	22,000	22,000	19,000	19,000	16,000	16,000				14	
17	22,000	21,700	20,450	20,450	20,000	20,000	17,000	17,000	14,600	14,600				17	
20	18,000	17,500	16,950	16,250	16,000	15,300	14,500	14,500	13,000	13,000	10,000	10,000		20	
25	14,000	10,850	12,900	11,600	13,000	11,500	12,000	12,000	11,000	11,000	9,500	9,500		25	
30			10,000	8,300	10,000	8,650	9,500	9,500	8,750	8,750	9,000	8,500		30	
35			7,750	5,900	8,000	6,300	8,000	6,700	7,500	6,700	8,500	6,700		35	
40			6,300	4,200	6,650	4,650	6,750	4,900	6,500	5,000	7,100	5,100		40	
45					5,300	3,650	5,500	3,850	5,500	4,050	5,800	4,050		45	
50					4,250	2,700	4,500	2,950	4,400	3,100	4,850	2,950		50	
55					3,450	1,900	3,650	2,200	3,800	2,250	3,950	2,300		55	
60							3,000	1,600	3,150	1,650	3,300	1,700		60	
65							2,400	1,050	2,600	1,150	2,700	1,200		65	
70							1,900	500	2,050	700	2,200	800		70	
75									1,650	400	1,800	500		75	
80									1,250		1,350			80	
85									800		1,000			85	
90											650			90	
95											350			95	

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

Note: Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes. Crane operation is subject to the computer charts and operation manual both supplied with the crane.

LOAD CHART

BT 28106

With Jib, Retracted



Standard ASME B30.5

ft	Jib 30 ft									ft
	0°			15°			30°			
	°	lb	lb	°	lb	lb	°	lb	lb	
30	80	5,000	5,000							30
35	78	5,000	5,000							35
40	75	5,000	5,000	81	4,800	4,000	82	4,000	4,000	40
45	72	4,800	4,250	79	4,800	4,000	79	4,000	4,000	45
50	70	4,500	3,250	74	4,200	3,850	77	4,000	4,000	50
55	68	3,800	2,550	72	3,700	3,050	75	3,600	3,350	55
60	65	3,100	1,900	70	3,300	2,300	72	3,200	2,700	60
65	63	2,450	1,300	67	2,650	1,700	70	2,800	2,100	65
70	60	1,800	800	65	2,000	1,100	67	2,350	1,500	70
75	58	1,350	450	62	1,600	750	64	1,900	1,100	75
80	55	900		59	1,200	400	60	1,500	700	80
85	51	575		56	800		57	1,150	425	85
90				52	400		54	800		90
95							51	550		95
100										100

With Jib, Extended



Standard ASME B30.5

ft	Jib 47 ft									ft
	0°			15°			30°			
	°	lb	lb	°	lb	lb	°	lb	lb	
30	82	4,000	4,000							30
35	80	4,000	4,000							35
40	78	4,000	4,000							40
45	76	3,550	3,300							45
50	74	3,330	2,500	79	3,300	3,300				50
55	72	2,900	2,000	77	3,200	3,200				55
60	70	2,300	1,500	75	3,100	3,100	78	2,500	2,500	60
65	67	1,850	1,100	73	2,950	2,550	76	2,500	2,500	65
70	65	1,400	700	70	2,800	2,000	74	2,400	2,400	70
75	63	1,050		68	2,350	1,550	71	2,250	1,950	75
80	61	750		65	1,900	1,150	69	2,100	1,500	80
85	59	500		63	1,450	725	66	1,700	1,100	85
90				61	1,000		63	1,300	700	90
95				57	750		61	1,000		95
100				55	500		58	700		100

Notes to lifting capacity

Lifting capacities do not exceed 85% of tipping load. Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings. Consult operation manual for further details.

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TECHNICAL DESCRIPTION

BT 28106

Boom, Jib and Rotation

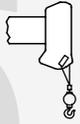
	Four-section full power fully synchronized telescopic keel boom	
	Boom length	32–106 ft
	Boom maximum tip height	115 ft
	Boom elevation angle range (min/max)	-7° / 82°
	Boom up/down time Boom extension/retraction time	50/120 seconds 110/140 seconds
	Boom head Top shaft: 1 sheave / lower shaft: 3 sheave	3 Sheave quick reeving
	Tip height: Optional lattice jib 30/47 ft Angular offsets	162 ft 0°, 15°, 30°
	320° total swing- noncontinuous	

Operator Controls, Operator Aids

	Hydraulic 2-speed hoist	
	Hoist maximum line pulls Low High	11,854 lb 5,532 lb
	Hoist 3rd layer line speeds Low High	137 ft/min 209 ft/min
	Rope diameter	9/16"
	Breaking strength Permissible line pull (standard rope)	37,000 lb 10,500 lb
	Rope length	350 ft
	Overhaul ball 1 Sheave block 2 Sheave block 3 Sheave block	7 Ust 15 Ust 25 Ust 30 Ust

TECHNICAL DESCRIPTION

BT 28106



1 part line	9,600 lb / 172 ft/min
2 part line	19,200 lb / 86 ft/min
3 part line	28,800 lb / 57 ft/min
4 part line	38,400 lb / 43 ft/min
5 part line	48,000 lb / 34 ft/min
6 part line	51,800 lb / 29 ft/min
7 part line, optional rotational resistant rope only	57,000 lb / 24 ft/min



Proportional hydraulics
Independent outrigger controls
Bump throttle



Rated capacity indicator with work area definition
ATB system – internal wire

Outriggers



K-pattern	
Front: Splayed A-link, To outer edge of pad	22 ft 6 in
Rear, "H" pattern (out and down), To outer edge of pad	17 ft 6 in

Optional Features

- 360° swing continuous rotation
- Two-stage jibs with offset capability 0°, 15°, 30°
- Rotation resistant rope
- Multi-part load blocks
- Main hoist with 2 speed motor
- Heavy duty wood flatbeds
- Extra heavy duty wood flatbeds
- Extra heavy duty steel flatbeds
- Radio remote controls
- One-man or two-man baskets
- Hoist drum tensioner
- Oil cooler
- Single front bumper outrigger
- Hydraulic hose reel
- Tool box
- Foot throttle
- Inching control for hoist operation at rear of subframe, for one man hook ball stowage and deploy



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Terex Cranes, Global Marketing, Dinglerstraße 24, 66482 Zweibrücken, Germany
Tel. +49 (0) 6332 830, Email: info.cranes@terex.com, www.terexcranes.com



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