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Distributor Info.

Due to our process of continuous innovation, materials and specifications are subject to change without notice.

© Printed in China Date: Apr.2019

SANY®

SANY PLACING BOOMS

www.sanygroup.com

THE LARGEST PRODUCTION BASE OF PLACING BOOMS IN THE WORLD

Sany placing booms used during the floor installation of the OASIS Center, a large shopping center in the AL QUOZ Industrial District of Dubai, UAE.

The placing boom is preferred by contractors because of its convenient and rapid installation. The great reach provided by its free standing height enhances flexibility and productivity - especially in high rise buildings and large shopping centers.

Construction of Sany placing booms in the world's tallest building, Burj Dubai Tower, UAE

Excellent quality, super high efficiency, rapid installation, full 360 degree rotation, dead-zone free booms all contribute to the incomparable, unique qualities of Sany concrete placing booms.

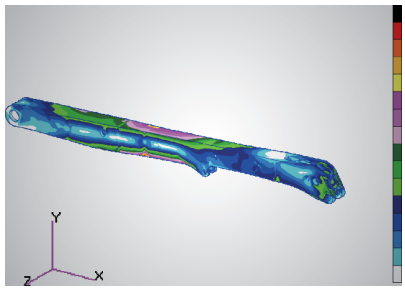
Sany is the sole domestic producer of concrete placing booms with independent R & D and property rights. Our concrete placing booms are characterized by safety, reliability, excellent performance and efficient service.

With our large production base and variety of models, Sany placing booms have been involved in the construction of major landmark projects such as the world's tallest building -- UAE's Burj Dubai Tower, Europe's tallest building -- the Russian Federal Building and China's tallest building -- Shanghai Center.

First Class Boom Technology

Depending on customer needs, we can supply an integrated-type boom or a split-type boom.

Construction of Sany placing booms in the China's tallest building "Shanghai Center"



Finite Element Analysis

Combining modern design methods, such as finite element analysis and structural optimization, results in an efficient, light weight structure with a long service life.

Hoisting Stability Test

Before delivery, each placing boom is assembled and subjected to a rigorous stability test. This ensures that each placing boom is stable, high pressure resistant, free of leaks, safe and reliable.

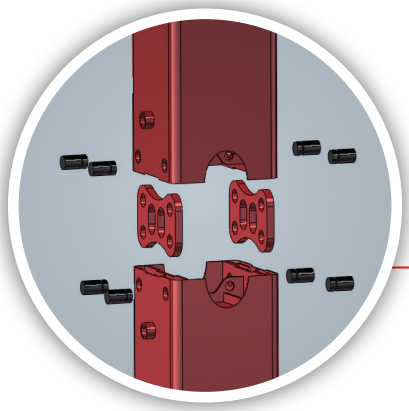
Boom System Fatigue Test

Our self-developed boom system fatigue test is a comprehensive test of each boom structure component. This guarantees a reliable, durable, safe boom system.

EXCELLENT PERFORMANCE

Full Hydraulic Control, Exceptional Performance

Full hydraulic control of all boom movements provides smooth, precise control. The load sensing, proportional, pressure compensated hydraulic system provides accurate, predictable boom placement even during multi-function operation.



Rapid Installation

Extensive application of modular design technology and quick connecting components allows rapid assembly and hoisting of placing booms.

Globally Recognized, Intelligent Control System

The German manufactured Siemens programmable login controller (PLC) is equipped with local, wired or 100m ultra long distance remote control.
This reliable system can be operated within four user selectable frequency bands.

Construction of Sany placing booms on Thailand Bouygues site

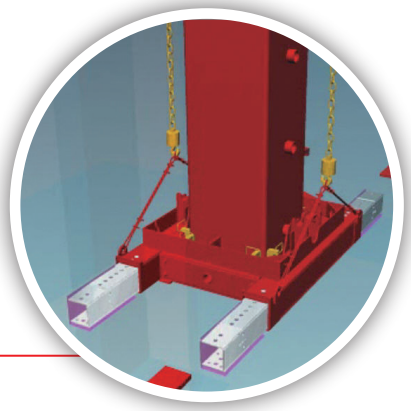
Construction of Sany placing booms on Philippine site

Boom Cylinders are Equipped With Counterbalance Valves for Safety

The counterbalance valve provides a locking function as an added safety measure.

Delivery Pipe Service Life Increased 3 - 5 Times

The use of double-wall, wear-resistant delivery pipe has improved the service life up to 30,000 - 50,000 m^3. This is 3 - 5 times longer than the life of ordinary pipe.

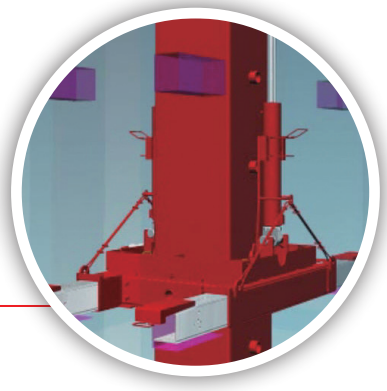


Telescoping Supports Provide Installation Flexibility

To enhance adaptability, the telescoping supports, designed by Sany, have an independent climbing system to accommodate installation in an elevator shaft or on curved walls of varying dimensions.

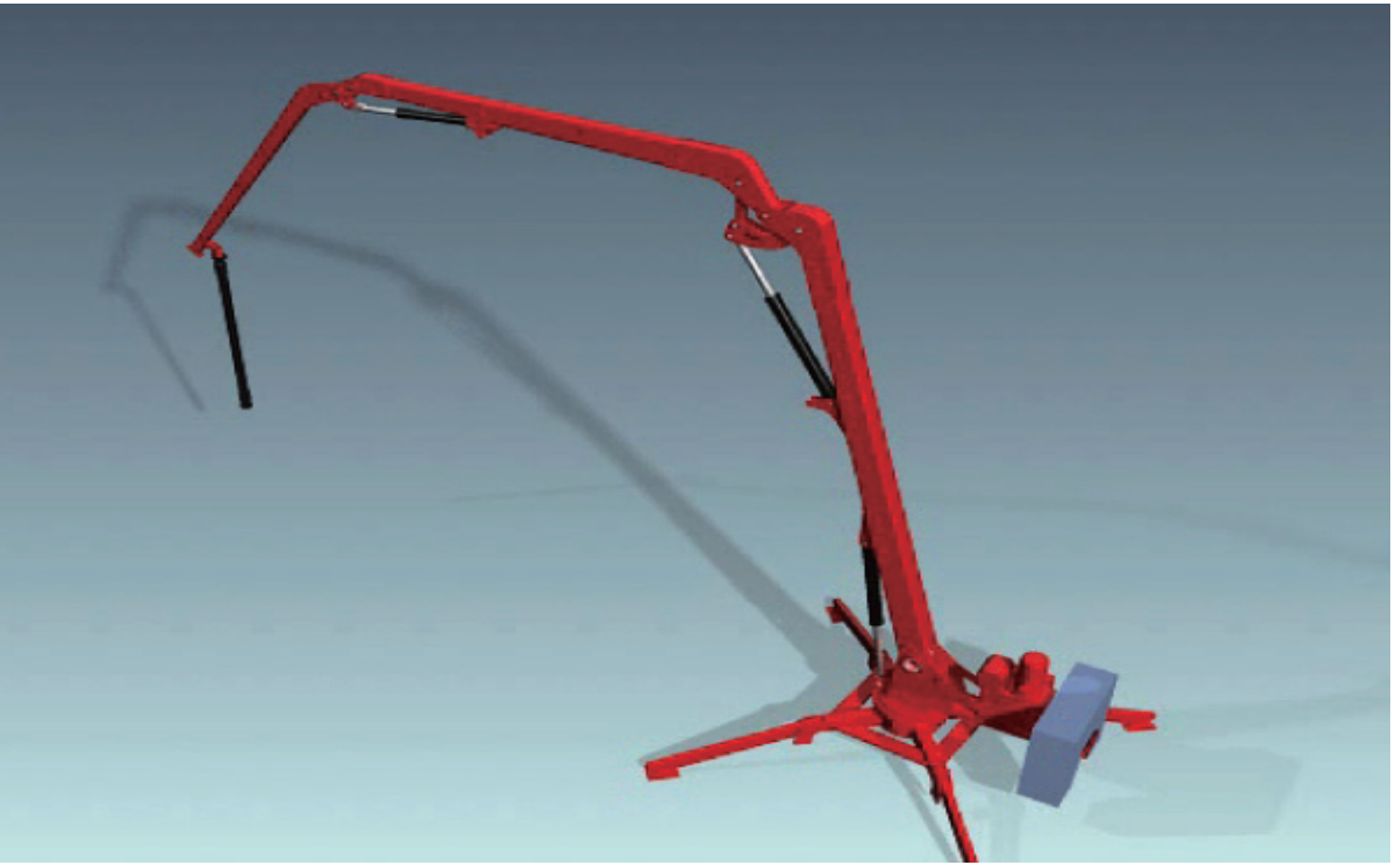
Fully Automatic Smooth Lifting of the Climbing Mechanism is Our Technology Marvel

Cylinder jacking is used to "climb" the placing booms within elevator shafts. The use of a fully automatic, "stepless", lifting climbing frame with double electric hoists improves efficiency and safety by reducing the labor requirements of workers.



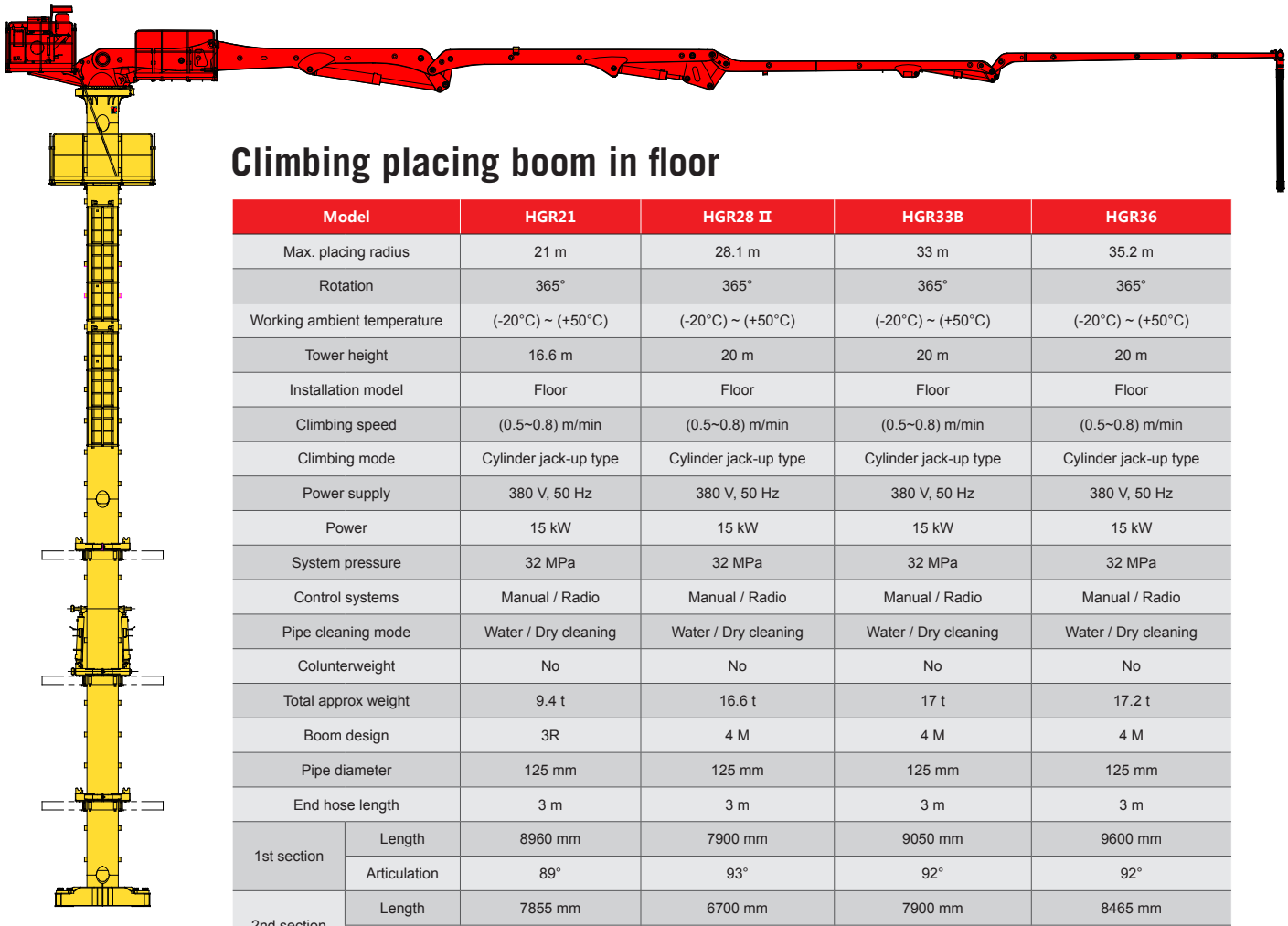
Climbing Placing Booms Within the Floor

- Installed inside the building. Allows maximum radius and range.
- Installed in the existing elevator shaft. Does not require an additional opening in the floor.
- Telescoping climbing frame supports for installation in elevator shafts available in 2.0m - 2.7m dimensions.
- Strong wall bearing capacity ensures safety and reliability even on large scale placing booms.
- Climbing frames and supports have independent systems, reducing the labor requirements of the climbing operation.
- Can also be installed as a floor-mounted placing boom.
- Applications include high rise buildings above 30m, above C30 concrete, etc.



Mobile Placing Booms

- Compact structure, economical. High performance-to-cost ratio.
- Placed without anchor on level, solid surfaces.
- Light weight construction is convenient for transport and lifting.
- Applications include high rise buildings, nuclear power plants, large area buildings, railways, bridge, etc.



Climbing placing boom in floor

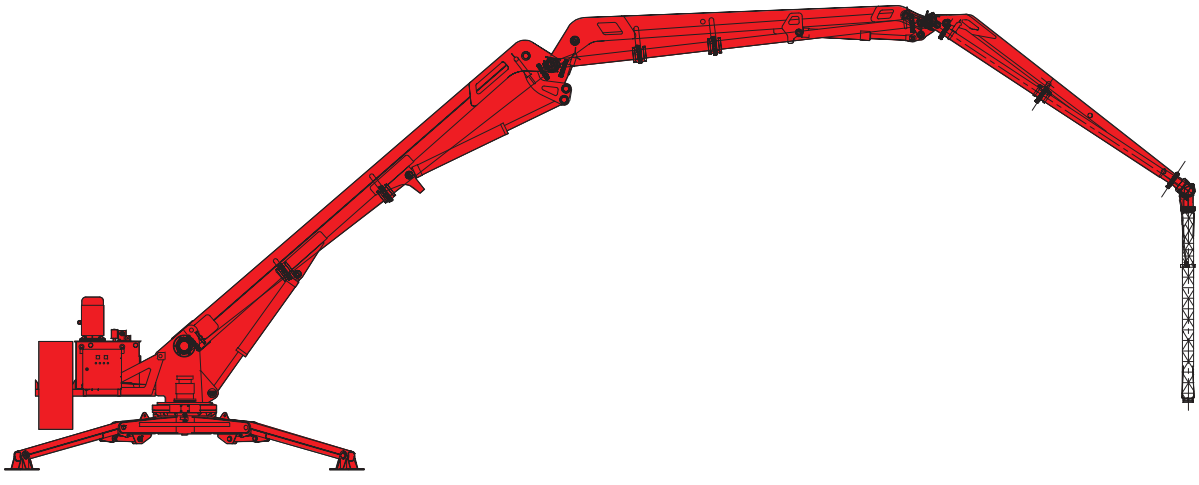
Model		HGR21	HGR28 Ⅱ	HGR33B	HGR36
Max. placing radius		21 m	28.1 m	33 m	35.2 m
Rotation		365°	365°	365°	365°
Working ambient temperature		(-20°C) ~ (+50°C)	(-20°C) ~ (+50°C)	(-20°C) ~ (+50°C)	(-20°C) ~ (+50°C)
Tower height		16.6 m	20 m	20 m	20 m
Installation model		Floor	Floor	Floor	Floor
Climbing speed		(0.5~0.8) m/min	(0.5~0.8) m/min	(0.5~0.8) m/min	(0.5~0.8) m/min
Climbing mode		Cylinder jack-up type	Cylinder jack-up type	Cylinder jack-up type	Cylinder jack-up type
Power supply		380 V, 50 Hz	380 V, 50 Hz	380 V, 50 Hz	380 V, 50 Hz
Power		15 kW	15 kW	15 kW	15 kW
System pressure		32 MPa	32 MPa	32 MPa	32 MPa
Control systems		Manual / Radio	Manual / Radio	Manual / Radio	Manual / Radio
Pipe cleaning mode		Water / Dry cleaning	Water / Dry cleaning	Water / Dry cleaning	Water / Dry cleaning
Colunterweight		No	No	No	No
Total approx weight		9.4 t	16.6 t	17 t	17.2 t
Boom design		3R	4 M	4 M	4 M
Pipe diameter		125 mm	125 mm	125 mm	125 mm
End hose length		3 m	3 m	3 m	3 m
1st section	Length	8960 mm	7900 mm	9050 mm	9600 mm
	Articulation	89°	93°	92°	92°
2nd section	Length	7855 mm	6700 mm	7900 mm	8465 mm
	Articulation	180°	180°	180°	180°
3rd section	Length	4195 mm	6700 mm	7950 mm	8480 mm
	Articulation	180°	260°	241°	241°
4th section	Length	/	6800 mm	7960 mm	8655 mm
	Articulation	/	240°	235°	235°

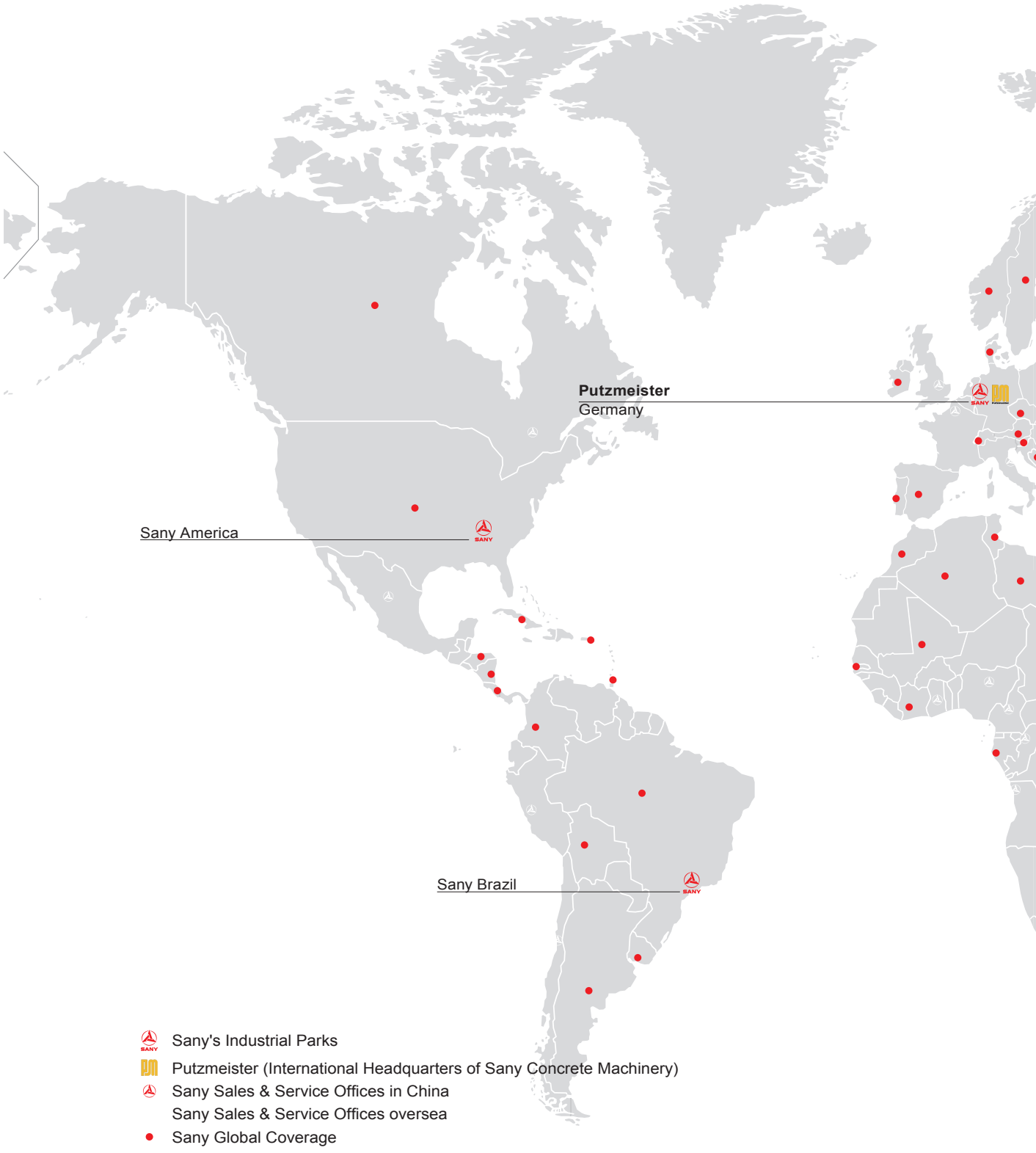
Note: Assemble the telescopic supports and etc. on the elevator shaft as a climbing placing boom in the elevator shaft.

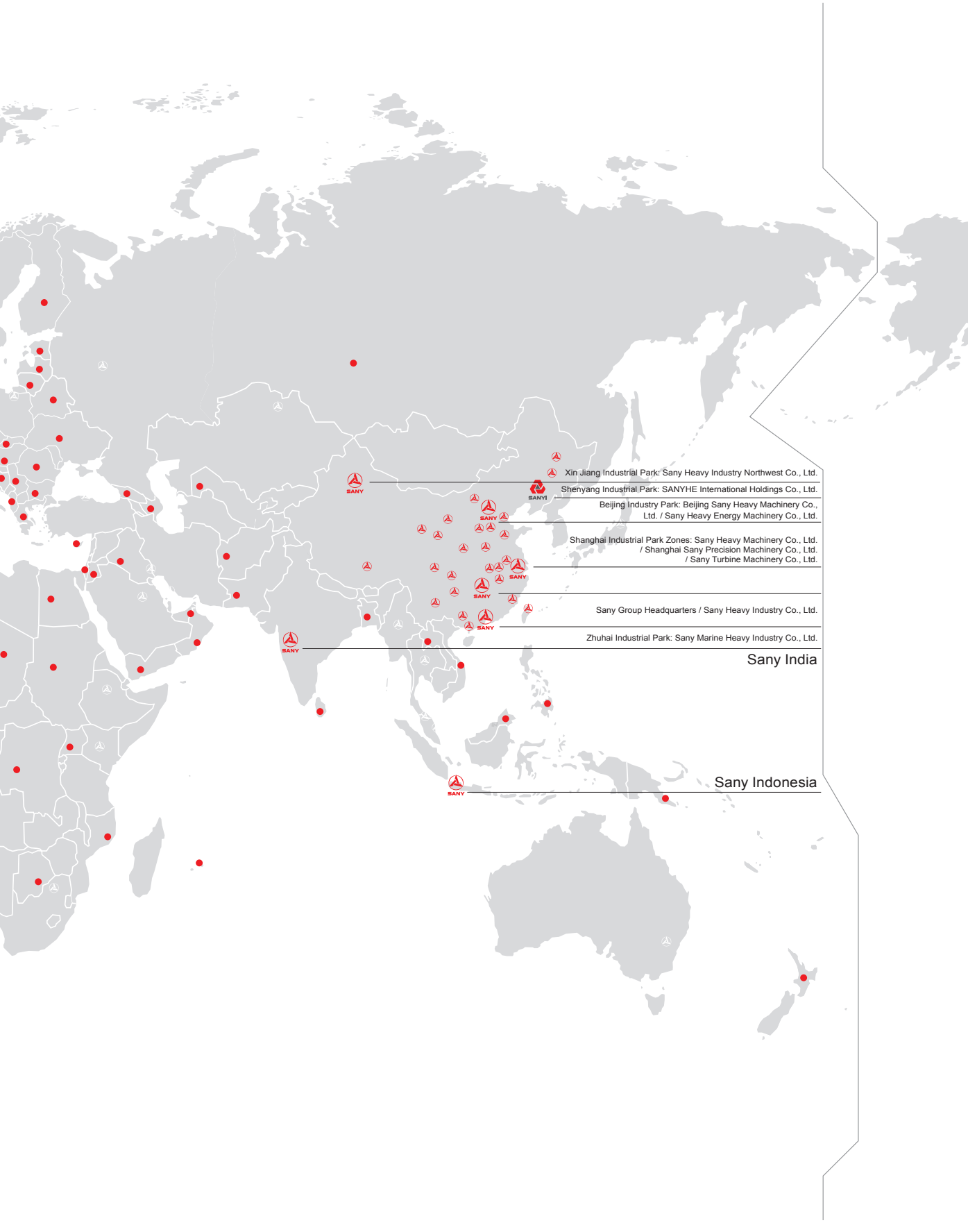
TECHNICAL SPECFICATION

Mobile placing boom

Model		HGY18 Ⅱ
Max. placing radius		18.2m
Rotation		±365°
Working ambient temperature		(-20°C) ~ (+50°C)
Installation model		Free installation of supporting for four outriggers
Span between front and rear outriggers		4900mm × 4900mm
Power supply		380 V, 50 Hz
Power		7.5 kW
System pressure		20 MPa
Control systems		Radio / Local
Pipe cleaning mode		Water / Dry cleaning
Total approx weight (Inc. counter weight)		7.8 t
Counter weight		2.8 t
Boom mode		3R
Pipe diameter		125 mm
End hose length		3 m
1st section	Length	7398 mm
	Articulation	90°
2nd section	Length	6271 mm
	Articulation	180°
3rd section	Length	4500 mm
	Articulation	240°




Putzmeister
Germany
Sany America
Sany Brazil
Sany's Industrial Parks
Putzmeister (International Headquarters of Sany Concrete Machinery)
Sany Sales & Service Offices in China
Sany Sales & Service Offices oversea
Sany Global Coverage


Xin Jiang Industrial Park: Sany Heavy Industry Northwest Co., Ltd.
Shenyang Industrial Park: SANYHE International Holdings Co., Ltd.
Beijing Industry Park: Beijing Sany Heavy Machinery Co., Ltd. / Sany Heavy Energy Machinery Co., Ltd.
Shanghai Industrial Park Zones: Sany Heavy Machinery Co., Ltd. / Shanghai Sany Precision Machinery Co., Ltd. / Sany Turbine Machinery Co., Ltd.
Sany Group Headquarters / Sany Heavy Industry Co., Ltd.
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