Sany's Power Drives China's Rise

1997

- Sany’s early days marked the beginning of China’s concrete pump industry.

1998

- Sany's first ultra-high pressure pump set a new record of 180m.

2002

- The Sany trailer mounted concrete pump ranks at the top of the Chinese market.

2003

- Set the domestic pumping height record of 300.8m at the SEG Plaza.

2005

- Won the title of "King of Chinese Concrete Pumps."

2006

- Set a new world record at the International Finance Center in Hong Kong, reaching 406m.

2007

- "R&D and Application of Key Concrete Pumping Technology" received second place in "National Award for Progress in Science and Technology."

2008

- CE certification awarded by the German TUV organization.

2009

- SANY trailer-mounted concrete pump was titled "National Defect Free Product."

2010

- SANY trailer pump participated in construction of Guangzhou New TV Tower Project (height: 610m, reputed to be the world's tallest tower).

2012

- SANY HBT90CH ultra-high pressure pump conveyed concrete to a height of 492 m at Shanghai World Financial Center, setting a new world pumping record.

2014

- Fielded the HBT120A three grade concrete pump and won the "National Patent Award. This was the world debut of pumping 80mm aggregate.

2011

- The Sany HBT90CH ultra high pressure pump conveyed concrete to a height of 490m at the Hong Kong International Commerce Center. This was the tallest building in Hong Kong, the 4th tallest in the world.

2012

- Sany pumps successfully poured the 60,000 cubic meter foundation of the Shanghai Tower, the tallest skyscraper in China.

2014

- A Sany trailer pump working at Japan's Osaka HARUKAS building, the tallest in Japan poured 4,000 trouble free continuous cubic meters. Sany trailer pumps will participate in the construction of the Yomiuri Shimbun building utilizing up to C150 concrete.

- HBT90CH ultra-high pressure pump took part in construction of the East Tower, reputed as Guangzhou tallest.
SANY TRAILER-MOUNTED CONCRETE PUMP UPGRADES TO C5

King of the Pump World, Class 5A Quality
Top in Sales Volume for 10 Consecutive Years
By virtue of its unrivaled technical strength in the trailer mounted concrete pump sector, Sany has repeatedly surpassed even its own accomplishments to set concrete pumping records across the globe.

SANY trailer mounted concrete pumps have participated in 80% of the high-rise buildings with a height above 300 meters completed or under construction.

SANY trailer mounted concrete pumps have contributed to every construction height breakthrough in China.
Pumping of marine concrete surpasses 1,000m

With a total length of 41.58km, Qingdao Bay Bridge is the world's longest cross sea bridge. The bridge is located in Kiaochow Bay sea area, where the sea water has a high saline content and is highly corrosive. Moreover, the bridge needed to be resistant to freeze-thaw cycles that will occur more than 50 times per year. Due to this, the bridge pier was poured with a dedicated high performance marine concrete with extremely high viscosity and corrosion resistance. That placed extremely rigorous requirements on the concrete pump.

SANY HBT80C-2122 trailer pump was employed to pump the bridge concrete. Thanks to its super strong pumping capacity and steady performance, the pump achieved a new long distance marine concrete pumping record (above 1,000 m).

Horizontal pumping distance exceeds 4,000m

SANY has developed the super pump with an outlet pressure of 50 MPa. A new world record. Also, it increased the trailer mounted concrete pump's horizontal pumping distance to more than 4,000m.
ANY PLACE

-22°C cannot freeze SANY trailer mounted concrete pump’s awesome power
In the winter of 2007, Moscow’s temperature reached -22°C. SANY’s trailer mounted concrete pump continued operating during construction of the Russian Federation Building. By virtue of its strong ability and adaptability, SANY trailer mounted concrete pump has earned a strong reputation across all of Europe.

55°C ignites SANY trailer-mounted concrete pump’s passion of creating the world record in pumping height
In mid summer of 2007, the temperature in Dubai was extremely high. At the construction site of Buri Dubai, reputed to be the world’s tallest skyscraper, the temperature rose to over 50°C. Even in this extreme, the Sany HBT120C-2120D operated without fail.
**ANY DURATION**

**12h Continuous Pumping: SANY Trailer-mounted Concrete Pump Lives up to Its Mission**

During the Wushan River Bridge Steel Pipe Concrete Pumping project, Sany trailer mounted concrete pumps set three world records. Steel pipe concrete pumping: length of 560m, continuous volume of 600m³, and continuous pumping time of 12 hours.

**Continuous Pouring of 60,000m³ concrete completed in 60h**

During the concrete pouring of Shanghai Tower, reputed as China’s tallest skyscraper (height: 632m), the entire foundation pouring project employed 18 pieces of SANY equipment (including four trailer-mounted concrete pumps). The continuous pouring of 60,000 m³ concrete was completed within 60 hours.
Easily handle pumping of difficult concrete like B90, C150, and 3-gradation concrete

The Moscow Federation Building is reputed to be the world’s tallest steel and concrete building. During the project construction process, SANY trailer mounted concrete pumps successfully pumped B90 (equivalent to C110) concrete vertically to a height of 120m.

In projects like Three Gorges Hydropower Station and Guangxi Dahua Hydropower station etc., aggregate of large diameter presented many challenges. The SANY 120A concrete delivery pump can pump aggregate with diameter of up to 80mm. This solved the challenge of pumping three gradation concrete.

In Japan Tokyo Yomiuri Shimbun Building Project, the concrete pumping height was up to 200m. Some of the concrete strength even hit C150. SANY HBT80C-1818D trailer mounted concrete pump lived up to its mission.

Silt, slag, waste materials and mortar etc can be pumped

SANY’s product lines include special purpose pumps such as filling pumps, tubular pile pumps, and mortar pumps. They can pump different special media, including slag, silt, sewage, mortar, industry waste, etc.
5 CORE PUMP TECHNOLOGY
THE WORLD HIGHEST QUALITY

ADVANCED HYDRAULIC SYSTEM

INTELLIGENT CONTROL SYSTEM

EFFICIENT PUMP SYSTEM

ADVANCED ENERGY-SAVING TECHNOLOGY

EXTREME WEAR-RESISTING TECHNOLOGY
ADVANCED HYDRAULIC SYSTEM

Differential pressure controlled, bi-directional hydraulic system.
Sany trailer mounted concrete pump hydraulic system pump controls use differential pressure sensing technology and bi-directional pumps. The bi-directional pumps feature smooth direction change abilities. The open loop charge system continually circulates the hydraulic oil for filtration and cooling. The constant supply of filtered, cooled hydraulic oil prolongs equipment life and lowers maintenance costs.

High flow, high efficiency valve system
Our system adopts a high pressure, high flow electro-hydraulic main control valve and an integrated valve with optimized tubing design and layout. The system features a short reversing design, low pressure loss, low temperature and high reliability.

Automatically retracted pistons
With the press of a button, the two pistons return to the water tank. This reduces daily maintenance time and extends the life of the pistons.

INTELLIGENT CONTROL SYSTEM

Fault self-diagnosis technology
The intelligent control system monitors the machine for over 50 faults in real time. Faults are displayed on the monitor. Review of the faults can reduce troubleshooting time by 70%.

Dedicated motion controller
Entirely different from conventional motion controllers, the Sany controller integrates the pumping algorithm with an onboard database. The result is faster operation and superior performance.

Emergency Override Available
In case of a fault during operation, an emergency override mode is available for cleanout and shutdown.
EFFICIENT PUMP SYSTEM

High-efficiency pump technology
The hydraulic system pump controls use differential pressure sensing technology and bi-directional pumps. The bi-directional pumps feature smooth direction change abilities. This allows efficient pumping action and precise swing cylinder control.

High power mixing motor
High displacement mixing motor keeps the mixture properly conditioned.

Large bore reversing cylinder
The large bore reversing cylinder allows powerful reversing to prevent pipe blockage.

New-type hopper
The hopper's inner cavity has been optimized to improve aggregate mixing and to high density, complex concrete.
ADVANCED ENERGY-SAVING TECHNOLOGY

New generation energy saving technology automatically adjusts engine power output to match the load results in fuel savings of up to 25%.

![Image of a SANY trailer-mounted concrete pump]

Won the Level-I Prize of Hunan Provincial Award for Progress in Science and Technology (the top prize in the construction machinery sector) and the gold prize of Chinese Patent Award.

EXTREME WEAR-RESISTING TECHNOLOGY

G5 improved wearing part! Adopt Sino-Germany high-tech materials and advanced technology to greatly improve the product performance.

<table>
<thead>
<tr>
<th>Discharge port</th>
<th>Wear plate and cutting ring</th>
<th>Concrete piston</th>
<th>Delivery cylinder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner bushing adopts a special steel, whose abrasive resistance is 15 times that of ordinary steel, with service life hitting 50,000 to 80,000 m³.</td>
<td>Using a special process with a bonding strength greater than 100MPa, the wear plate’s service life is up to 50,000 to 60,000m³. The cutting ring’s service life is up to 20,000 to 30,000m³.</td>
<td>Using German rubber piston technology with excellent abrasion performance and resistance to heavy stress and high temperatures. It has a long service life allowing the piston to pump 25,000 to 30,000 cubic meters concrete without replacement.</td>
<td>The inner layer is plated with chrome with thickness of above 3mm, and so its hardness exceeds HV900, with service life hitting 100,000 to 140,000 m³.</td>
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</tbody>
</table>

Fuel consumption comparison table

![Image of a fuel consumption comparison chart]

Energy consumption, a decline of 25%
## TECHNICAL SPECIFICATIONS

### Electric

<table>
<thead>
<tr>
<th>Model</th>
<th>HBT6006A-5</th>
<th>HBT6013C-5</th>
<th>HBT6016C-5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. delivery Pressure(Theoretical)</td>
<td>7</td>
<td>8/13</td>
<td>10/16</td>
</tr>
<tr>
<td>Low Pressure/High Pressure(Mpa)</td>
<td>70</td>
<td>65/40</td>
<td>70/45</td>
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<tr>
<td>Max. concrete Output(Theoretical)</td>
<td>75</td>
<td>90</td>
<td>110</td>
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<tr>
<td>Low Pressure/High Pressure(Mpa)</td>
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<td>Motor Rated Power</td>
<td>650×2100×2100</td>
<td>6185×2100×2100</td>
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<tr>
<td>Gross Weight (kg)</td>
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<td>Max. Aggregate Size: Φ150 mm Delivery Pipe (mm)</td>
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<tr>
<td>Max. Aggregate Size: Φ125 mm Delivery Pipe (mm)</td>
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<tr>
<td>Type</td>
<td>Gate Valve</td>
<td>S-Valve</td>
<td>S-Valve</td>
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<tr>
<td>Slump of concrete (mm)</td>
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<td>100 – 230</td>
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### Diesel

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<th>Model</th>
<th>HBT6008C-5S</th>
<th>HBT6013C-5S</th>
<th>HBT6016C-5S</th>
<th>HBT6018C-5S</th>
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<tr>
<td>Max. delivery Pressure(Theoretical)</td>
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<td>8/13</td>
<td>10/16</td>
<td>10/18</td>
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<tr>
<td>Low Pressure/High Pressure(Mpa)</td>
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<td>65/40</td>
<td>70/45</td>
<td>85/50</td>
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<tr>
<td>Max. concrete Output(Theoretical)</td>
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<td>114</td>
<td>180</td>
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<tr>
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<td>0.7×1420</td>
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<td>Engine Model</td>
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<td>SANY</td>
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<td>Engine Rated Power</td>
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<td>Gross Weight (kg)</td>
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### Ultra-high pressure

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<tr>
<th>Model</th>
<th>HBT9028CH-5S</th>
<th>HBT9035CH-5M</th>
<th>HBT12020C-5W</th>
<th>HBT12020C-5M</th>
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<tr>
<td>Max. delivery Pressure(Theoretical)</td>
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<td>19/35</td>
<td>9.5/21.5</td>
<td>11/21</td>
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<td>Low Pressure/High Pressure(Mpa)</td>
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<td>90/50</td>
<td>121/60</td>
<td>120/75</td>
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<td>Max. concrete Output(Theoretical)</td>
<td>2×180</td>
<td>2×297</td>
<td>305</td>
<td>297</td>
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<td>Low Pressure/High Pressure(Mpa)</td>
<td>0.8×2100</td>
<td>0.8×2100</td>
<td>0.8×2100</td>
<td>0.8×2100</td>
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<td>ISUZU</td>
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<td>Engine Rated Power</td>
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<td>7330×2125×2685</td>
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<td>Gross Weight (kg)</td>
<td>11910</td>
<td>13300</td>
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