



Weight Operation weight: approximately 240 tons Working height / reach Maximum height: 62 mtr. Maximum reach: 30 mtr.





Mission

At STC, machine building is in our DNA. As a family business, we combine passion and expertise to design, develop, and build advanced machines and components for demolition, civil engineering, and transshipment.

Our strength lies in delivering innovative solutions that perform beyond the market standard, reaching further, higher, and stronger. We provide custom solutions tailored to the unique needs of our customers, from businesses to machine suppliers seeking efficiency, reliability, and quality.

We believe in fostering long-term relationships with customers, suppliers, employees, and the community. Safety, transparency, and integrity are at the core of everything we do.

By continuously investing in innovation, growth, and collaboration, we elevate performance and grow together with our partners toward a successful future.

Vision

STC is the leading manufacturer of specialized (zero-emission) machines for demolition, civil engineering, and transshipment.

As an independent pioneer, we set our own course, focusing on innovation and product leadership. Our robust, modular, and sustainable machines define the industry standard for quality and reliability.

With in-depth expertise and full control of the supply chain, from suppliers to end users, we deliver end-to-end solutions that exceed expectations.

Our ambition drives us, and our pride is reflected in every aspect of our work. At STC, we provide a safe, inspiring workplace where personal growth and success thrive.





STC Company Profile

- Family-Owned Excellence: A family business focused on sustainable growth and long-term relationships.
- 25+ Years of Expertise: Over 25 years of in-depth experience in the demolition industry.
- Heavy-Duty Achievements: Successfully designed and built more than 10 machines up to 320 tons.
- Trusted Partnerships: Collaborations with OEMs for direct access to premium technical data.
- Top-Tier Service: An independent in-house service team ensuring speed and quality.
- **Strong Reputation:** High brand awareness and trust among end users.

STC Demolition Machines

STC demolition machines are designed with the highest demands of the demolition industry in mind. Every aspect of these machines is optimized for maximum efficiency, reliability, and durability, with particular attention to ease of use and transport.

- **Purpose-Built for Demolition:** Designed to excel in the toughest demolition tasks.
- **Effortless Transport:** Engineered for easy and efficient transportation.
- Built to Endure: Components crafted for maximum durability.
- **Unmatched Strength:** The strongest turntable and chassis in its weight class.
- OEM-Grade Components: Extensive use of OEM parts ensures fast and reliable servicing.
- **Exceptional Stability:** Unique weight distribution for superior balance and safety.
- **W** Quick Assembly: Easy to assemble and disassemble for optimized operation.
- Versatile Work Range: Unique reach capabilities for working efficiently at varying heights.
- Maximized Productivity: Overcapacity boosts efficiency and performance.
- **%** Rapid ROI: Fast return on your investment.

STC demolition machines combine robust design, innovative technology, and cost-effectiveness to provide the ideal solution for the most demanding demolition projects.



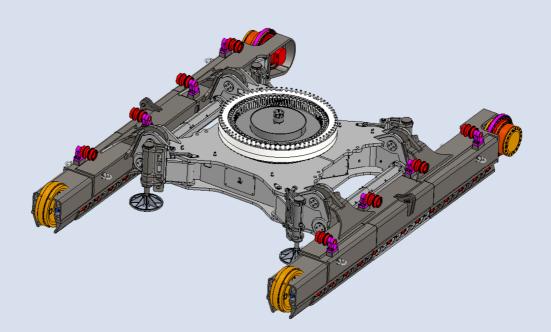
It starts at the base:

Demolition at great height requires great precision and concentration from the operator: small movements at ground level are magnified at 40, 50, 60 meters height: Therefore, the rigidity of the machine itself is just as important as the smoothness of its controls. Rigidity is provided by custom built heavy duty frames. These important properties makes an STC HD-line machine easy to control, resulting in less operator fatigue, which pays off in more productive workdays.

Undercarriage Quick Connect

To increase the stability STC has developed a new generation of heavy duty demolition undercarriages, the Undercarriage Quick Connect (UQC). These minimize operator fatigue due to their high stiffness and robustness, yet easy to disassemble into manageable sections all within the 3.5mtr transport width limit. The undercarriages are equipped with hydraulic outriggers that can fold out and lift the machine of the ground. Then the machine can disassemble its own tracks and place them on trailers using an integrated winch system. To ensure trouble free operation in shoreline works such as dredging, breaker construction or shipwreck demolition, the locking pins are hardened and chrome plated and slide in hardened and nitrated bushings with grooves. The grooves distribute grease and ensure that foreign particles can evade so they do not scratch and jam the pins.

Whether your business is at great height downtown, reaching out on the shores, or ripping up quays underwater, the STC UQC gets you easily on any jobsite and provides a stable, durable and universally suitable base to support your large demolition and infrastructural jobs.

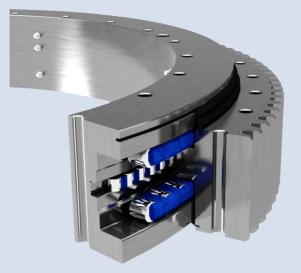




Upper Frame

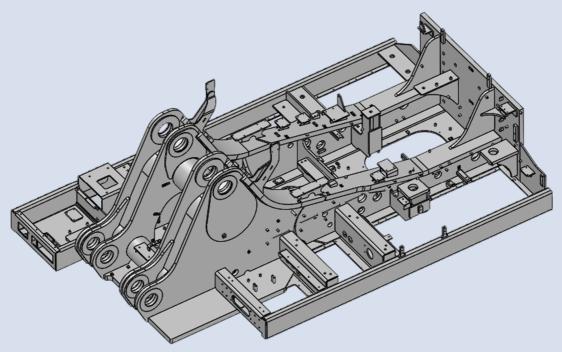
Industrial demolition is the most demanding line of work for an excavator; the pounding of heavy hydraulic hammers transmitting their vibrations to the base machine, big scrap shears throws them off balance, and trying to pry loose foundation substructures will test the limits of the machine.

The standard upper frame is replaced by a STC custom designed upper frame, far exceeding the original design strength of the standard frame. The STC frame is designed for the optimal rigidity to carry larger ballasts, yet dampen any vibration of the tools on the front end. This to maximize the lifespan of the frame itself, as well as the components installed on it.



Slew bearing

STC uses a custom made triple row roller bearing on all HD models, that are designed to last, even in the most demanding load set. The slew bearing provides stability to ensure a low but even wear and ample bolts are used to connect the bearing to the frames. Six greasing lines are fitted per roller row, which are centred to a common lubrication block.





FOPS

The impact energy of a falling object increases exponentially with increased height. Therefore, STC designed FOPS cages that exceed the ISO 6165 FOPS standard and match the working height of its current demolition machines. When an object falls down, there is no need to panic. The safest place will then be in the cabin under the STC safety cage. To ensure perfect visibility, each slat is angled individually towards the operators eye level so that the percentage of sight of an STC heavy duty demolition cage is no less than the standard excavator FOPS cages.





Cabin tilt, lift

STC has built cab visibility improvement solutions since its inception. There are multiple solutions available like: Tilt cabins for high reach demolition, cabin lifts to look down over the edge of a construction pit or a combination of both, to ensure maximum versatility. Even on large machines that work in the horizontal plane, cab elevation increases the overview over the jobsite for the operator, enabling more precise and safe work with less fatigue.

Armoured front glass is standard on our HD line, where the roof window is enlarged for extra comfort for the operator. A window wiper with parallel arm is standard as well.





Front

Our booms are designed based on 30 years of experience, combined with the relevant scientific research on metal fatigue and metal lot of field experience, which makes it one of processing. Finite Element Analysis is used to gain insight. STC booms are designed to last the lifetime of the machine, though it is not uncommon for customers to buy a new base machine, and reuse the existing STC booms.

Multiple booms could be available with different length for the STC HD 220D

- High Reach Demolition 62mtr
- High Reach Demolition 58mtr
- High Reach Demolition 45mtr
- High Reach Demolition 41mtr
- Triple Tool Carrier 34mtr
- Triple Tool Carrier 30mtr
- **7** Triple Excavation 33mtr
- ✔ Triple Excavation 29mtr

The STC HD line comes standard with a Boom Quick Connect (BQC). This ensures easy disassembly for transport, but also makes it possible to utilize multiple configurations. It is possible to use a high reach demolition boom or a triple boom in several reach and tool weight configurations. These can be combined with an extension piece, or even a long reach excavating boom, or a material handler boom can be fitted. All these configurations fit on the same base machine due to the use of the BQC. The customer can order the machine with the different front configurations or maybe even order one later when another configuration is needed.

STC has been one of the pioneers in BQC systems. Its current version incorporates a the most durable systems in the market. Hollow pins with small hydraulic cylinder inside are mounted on the boom. The BQC pins are hardened and chromed and the nitrated bushings with grease grooves provide very high wear resistance, ensuring a lasting tight fit. The in-pin design provides a clean look because the cylinders are not visible on the outside. This also minimises the risk of damage during work or transport.





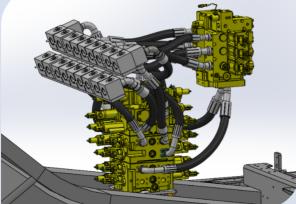
Hydraulics

STC expands the main hydraulic valves, preferably with additional sections from the OEM. Smaller functions such as BQC pins are controlled by standardised industrial CETOP-valves. Due to the increasing complexity of hydraulic systems, you cannot just plug in any valve section. With decades of experience with system modifications, we install the system extension with regard to minimal power loss and heat generation and the best controllability.

Dust Suppression System (optional)

STC dust suppression systems consist of a hydraulically driven high pressure water pump, pushing water through stainless steel water lines mounted on the boom. Pressure washer nozzles are mounted on each side of the stick, to atomize water in the working area. A large filter is installed to clean the water when no domestic water supply is available. To prevent cavitation damage from insufficient water supply to the pump, the system is monitored by a pressure switch that switches off the pump when water pressure in the supply line drops below 0.5 bar.







Demolition Camera System (optional)

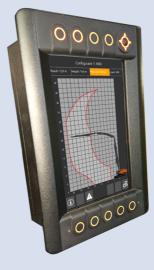
STC demolition camera system consists of 1 or more cameras that can be connected to a 7" or 12" screen installed in the cabin. This creates a better overview and guarantees a safer work environment for the operator.

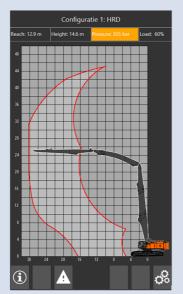
This set can be expanded to a 360° round view system where 4 cameras transmit 4 images on the screen. this way, the overview is even better and the operator can even see what is happening around the machine.



Load Moment Indicator

The machine can be equipped with a Load Moment Indicator (LMI), which recognises the assembled boom configuration by individual ID codes of each inclination sensor. This ensures that operators have a clear indication of where the stability limit is, so they can take the machine to its limits without taking undue risks. Because boom parts are recognised by the LMI system, hydraulic joystick and valve sensitivity can be automatically changed, to get the correct speed and feel whether you have the high reach demolition boom attached to work controlled at great height, or that a short triple boom is mounted to dig up concrete slabs at full power.







Service

STC provides the necessary support for our machines and products for their operational life. We are committed to providing full support to our customers on a daily basis.

To achieve and fulfil this product support, we have a dedicated after-sales and service department that, with a wealth of specialist knowledge, ensures a quick response to any problems a customer may encounter.

Regular maintenance on our machines can be done by local CAT technicians as all regular service parts are identical to CAT parts.

STC wear parts can be supplied to the local CAT dealer for installation.

But when a complex technical failure occurs, STC specialists can provide backup worldwide to get you back, as soon as possible, on the job.



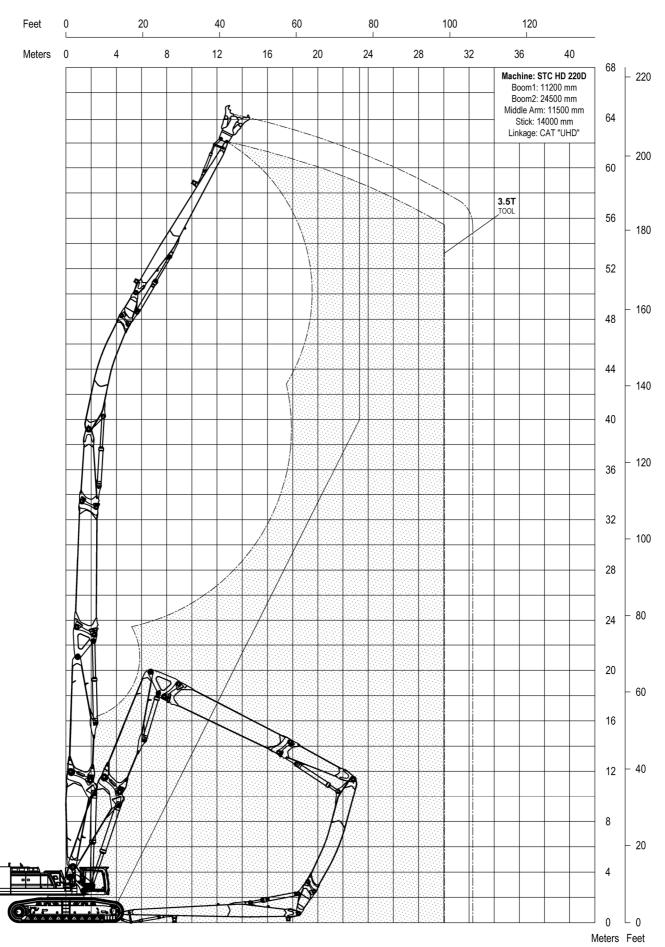




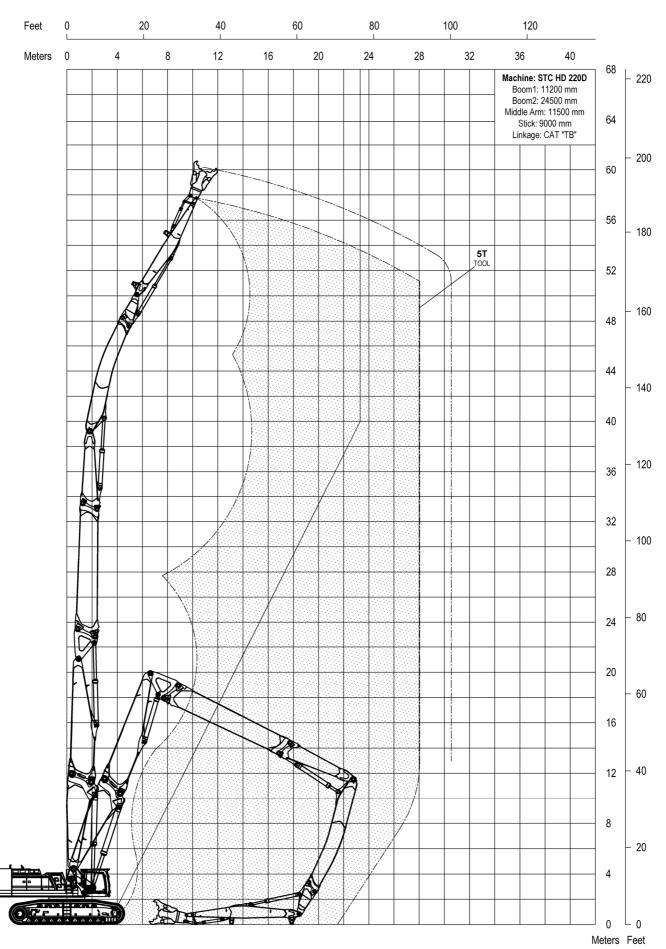
ENGINE:			
Engine model	Cat C18		
Engine Power – ISO 9249	404 kW	542 hp	
Engine Power – ISO 14396	405 kW	543 hp	
Bore	145 mm	6 in	
Stroke	183 mm	7 in	
Displacement	18.1 L	1,105 in ³	
HYDRAULIC SYSTEM:			
Main System – Maximum Flow – Implement (x2 pumps)	1064 L/min	281 gal/min	
Maximum Pressure – Equipment – Implement	37 000 kPa	5,366 psi	
Maximum Pressure – Travel	35 000 kPa	5,076 psi	
Maximum Pressure – Swing	31 000 kPa	4,496 psi	
SWING MECHANISM:			
Swing Speed	6.3 rpm		
Maximum Swing Torque	362 kN ^x m	267,333 bf-ft	
WEIGHTS:			
Operating Weight	240 000 kg	529 000 lb	
SERVICE REFILL CAPACITIES:			
Fuel Tank	1220 L	322 gal	
Cooling System	71 L	19 gal	
Engine Oil (with filter)	67 L	18 gal	
Swing Drive	24 L	6 gal	
Final Drive (each)	20 L	5 gal	
Hydraulic Tank (including suction pipe)	1200 L	317 gal	
DEF Tank	80 L	21 gal	
DIMENSIONS:			
Shipping Height (top of cab)	3400 mm	11'2"	
Tail Swing Radius	5800 mm	19'0"	
Track Length	9200 mm	30'2"	
Track Length to Center of Rollers	7500 mm	24'7"	
Track Gauge	6300 mm	20'8"	



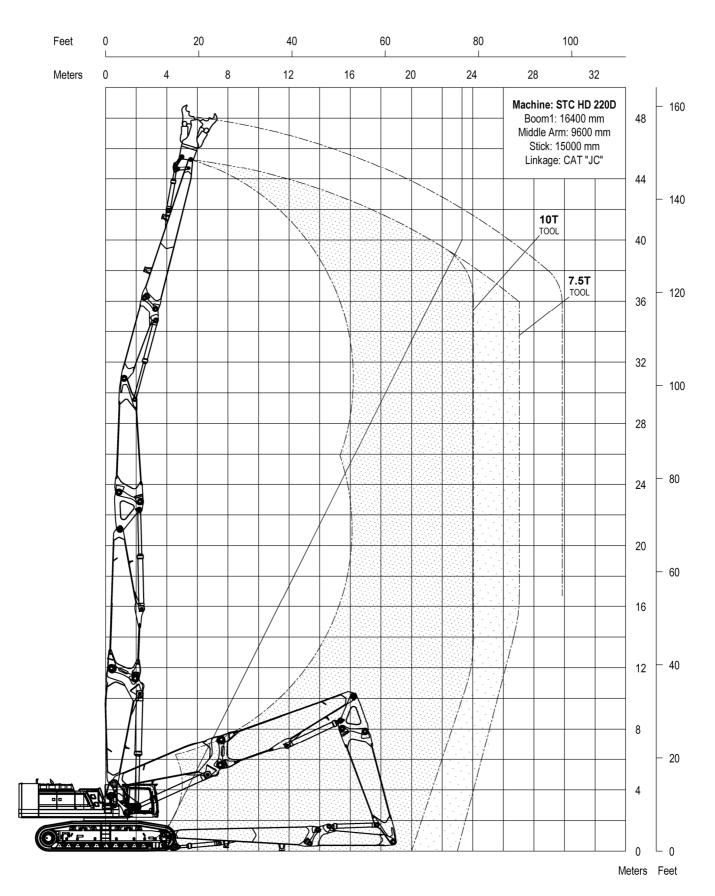
STC HD 220D HRD 62mtr.



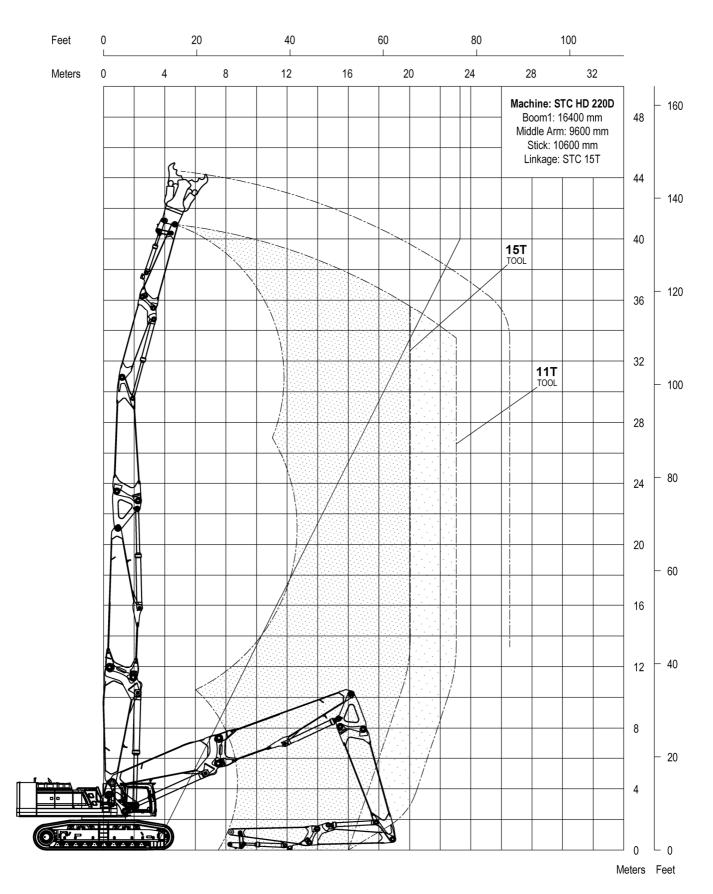
STC HD 220D HRD 58mtr.



STC HD 220D HRD 45mtr.

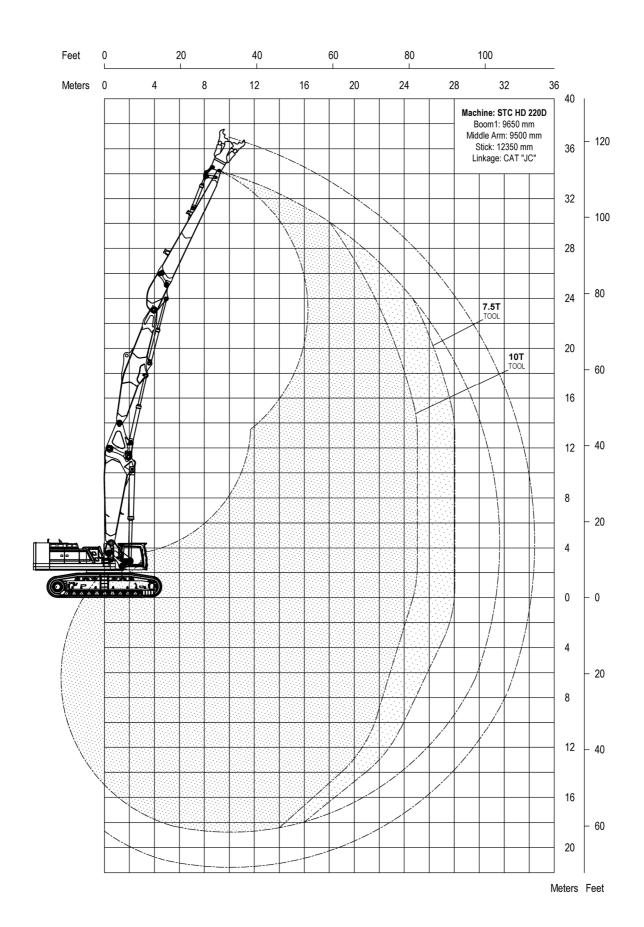


STC HD 220D HRD 41mtr.



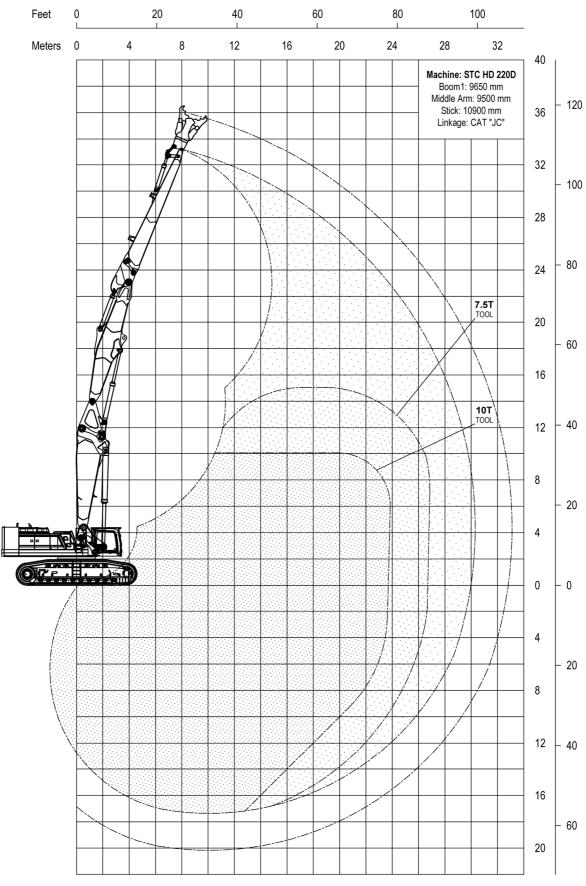
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STC HD 220D Triple 34mtr.



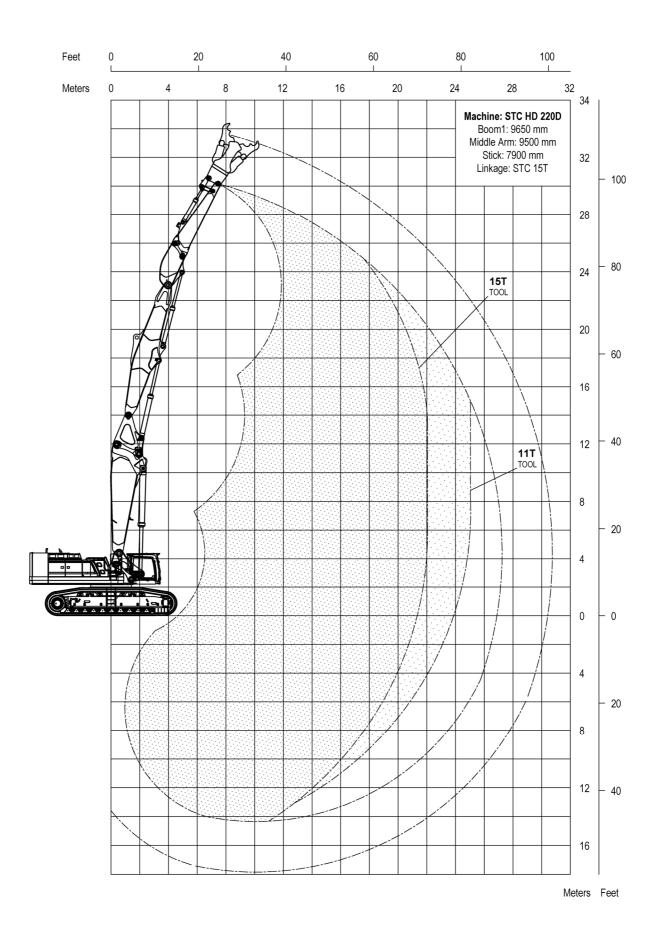
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STC HD 220D Triple 33mtr.



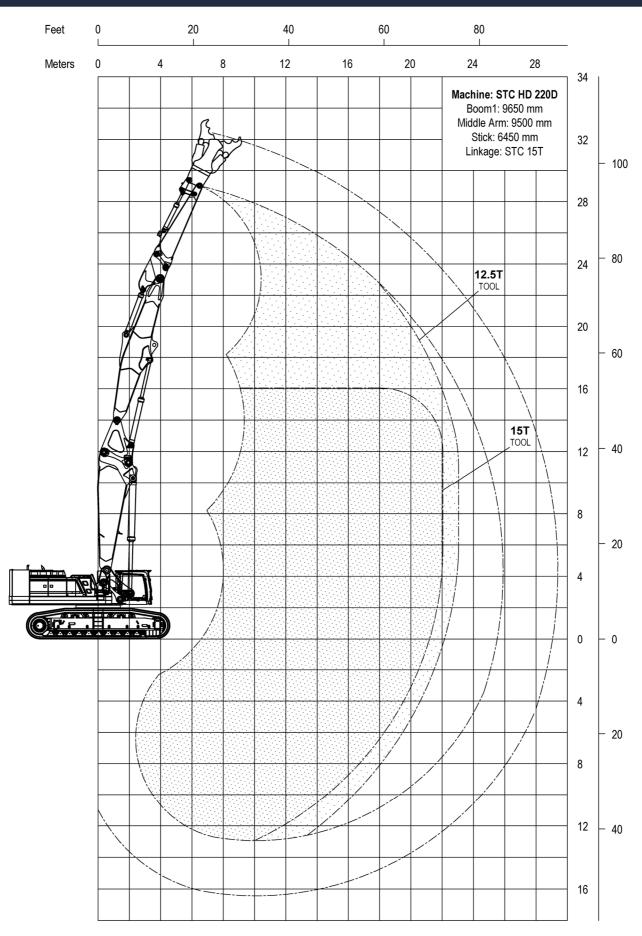
Meters Feet

STC HD 220D Triple 30mtr.



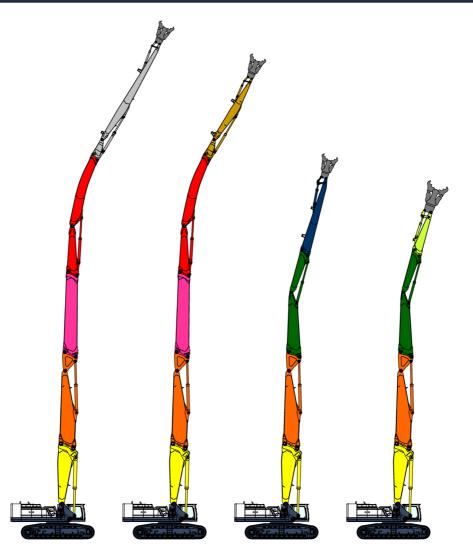
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STC HD 220D Triple 29mtr.

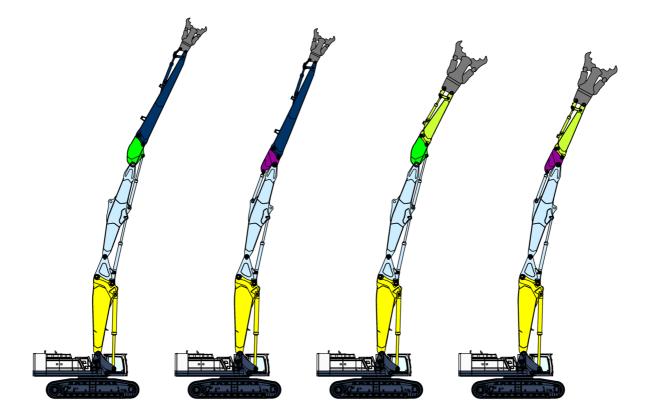


Meters Feet

STC HD 220D HRD configurations



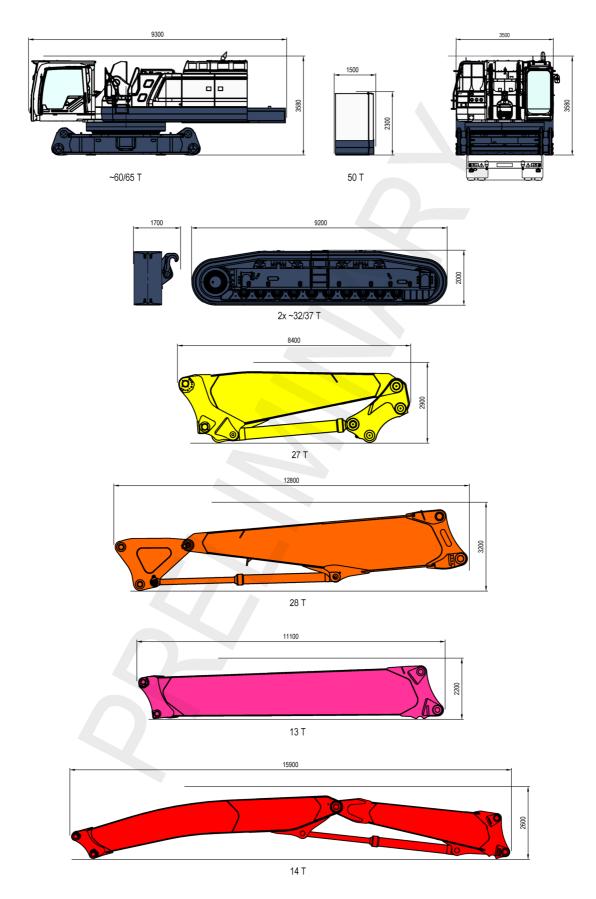
	62 MTR. HRD	58 MTR. HRD	45 MTR. HRD	41 MTR. HRD
HRD Stick 14000mm				
HRD Stick 9000mm		•		
HRD Middle arm (light)				
Extension 10000mm				
Stick Nose (long)				
Stick Nose (short)				•
HRD Middle arm (heavy)				
HRD Boom	•	•	•	
Stubboom	•	•	•	•
Toolweight	3.5T / 7700 lb Crusher 2.8T / 6200 lb Shear	5T / 11000 lb Crusher 4T / 8800 lb Shear	10T / 22000 lb Crusher 8T / 17600 lb Shear	15T / 33100 lb Crusher 12T / 26500 lb Shear



	34 MTR. TRIPLE	33 MTR. TRIPLE	30 MTR. TRIPLE	29 MTR. TRIPLE
Stick Nose (long)				
Stick Nose (short)			•	
Stick Adapter (tool carrier)	•		•	
Stick Adapter (excavation)				
Triple Middle arm				
Stubboom	•	•	•	•
Toolweight	10T / 22000 lb Crusher 8T / 17600 lb Shear	10T / 22000 lb Crusher 8T / 17600 lb Shear	15T / 33100 lb Crusher 12T / 26500 lb Shear	15T / 33100 lb Crusher 12T / 26500 lb Shear

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STC HD 220D Transport table



STC HD 220D Transport table

