

980H

Block Handler Arrangement



Engine

Engine Model	Cat® C15 ACERT™	
Gross Power	293 kW	398 hp
Net Power	260 kW	353 hp

Operating Specifications

Operating Weight	36 240 kg	79,895 lb
Implement System – Maximum Operating Pressure	22 400 kPa	3,250 psi
Hydraulic Tilt Capacity (at ground level)	36 700 kg	80,910 lb
Static Tipping Load Full 37 Degree Turn	26 700 kg	58,863 lb

980H Block Handler Arrangement Features

Counterweight

The 980H Block Handler offers customers stability and balance with a greater counterweight.

Heavy Duty Planetary Transmission

The Cat® Heavy Duty Planetary Transmission is designed with larger discs to increase heat dissipation generated during block load and carry cycles thus ensuring the durability customers expect from a Cat machine.

Heavy Duty Hydraulics

The standard 980H Block Handler comes equipped with high pressure hydraulics and larger tilt cylinders to improve load control.

Third Valve

The standard Block Handler includes a third valve for use with the quick coupler.

Block Handler Work Tools

Block Handler work tools include a quick coupler, breaker tines, forks, clearing rake, rock bucket, marble bucket, and heavy duty block bucket.



The 980H Block Handler Arrangement includes a greater counterweight at the bottom of the machine, an extreme service transmission, high pressure hydraulics to better manage heavy loads, larger tilt cylinders on the linkage for better load control, and third valve hydraulics for quick coupler operation. Various work tools are also available to assist operators in all block handling applications. The features of the 980H Block Handler Arrangement helps provide an all around durable and effective machine.

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Durability

Built Strong and Tough

Counterweight

The 980H Block Handler offers customers stability and durability with a greater counterweight. The counterweight is greater in weight by 3150 kg (6,945 lb) at the bottom of the machine.

Heavy Duty Planetary Transmission

The Cat Heavy Duty Planetary Transmission is designed with larger discs to increase heat dissipation generated during block load and carry cycles thus ensuring the durability customers expect from a Cat machine. The HD transmission utilizes 432 mm (17") planetary drives for all gears. The heavy duty transmission has slightly larger gears and bearings than the standard transmission that uses 345 mm (13.6") planetary gear sets.

Heavy Duty Hydraulics

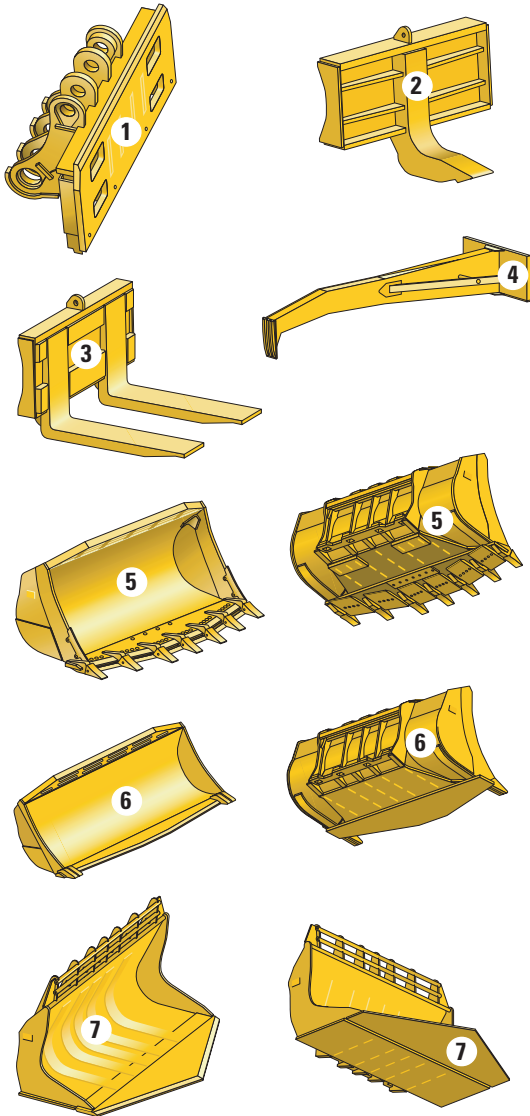
The standard 980H Block Handler comes equipped with high pressure hydraulics and larger tilt cylinders. The more robust tilt cylinders on the linkage help improve load control and are required to ensure safe and long lasting operation. A higher operating pressure of 224 compared to 207 bars on a standard loader helps to increase lift and tilt capacity of the block handler to better manage heavy loads.

Third Valve

The standard Block Handler includes a third valve for use with the quick coupler. It has a special design using two levers and security switch to prevent quick coupler from accidental opening.

Block Handling Work Tools

Arrangements Built for Your Operation



1 Quick Coupler.

Can be used on block handling arrangements that have a hydraulic system equipped with a third valve. This quick coupler is designed for optimal utilization of lifting and break-out forces with Cat cylinder, safety valves, pressure and isolating valves, safety covers and lock indicators. It has enhanced visibility and has been optimized for handling large rocks and blocks.

2 Breaker Tine.

Center-mounted, heavy-duty single-piece forged fork tine is used for prying loose large stone blocks. It is built with an extra thick tine to handle a variety of materials in this demanding application.

3 Forks.

Heavy-duty pallet forks are engineered to handle weight and load stress when maneuvering and placing blocks in quarry operations. Dual tine forks are designed to allow blocks to be placed close to the machine for greater balance and safe handling.

4 Clearing Rake.

Used primarily for clearing and controlling loose objects at the quarry face and working levels, the block handling rake is designed with a curved boom for enhanced operator visibility and object placement.

5 Rock Bucket.

Heavy-duty bucket which offers superior durability, protection and performance in rock and overburden operations in block quarries. It includes large size teeth and segments. Its HD400 (high wear resistant) metal shell and bottom offer maximum strength, durability and wear life.

6 Marble Bucket.

Special bucket construction including the HD400-metal shell and bottom help the bucket effectively load large blocks and boulders while maintaining durability. The corner teeth ease block tilting and handling. The heavy-duty V-edge is particularly suited for handling high-value breakable marbles before cutting operations.

7 Block Bucket Heavy-Duty.

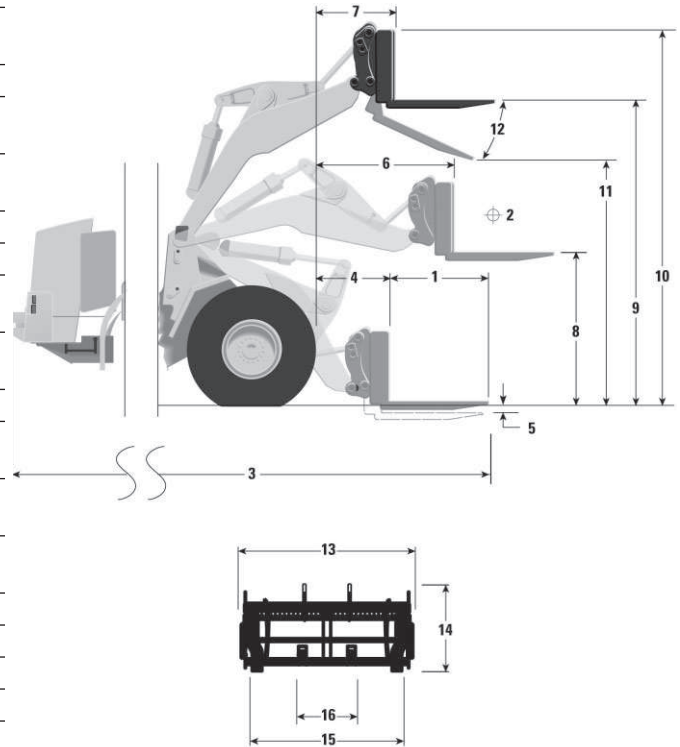
Special bucket construction to effectively load very large squared blocks and boulders. The deep carved sides and extra long heavy-duty bottom allow the special V-edge to penetrate under large blocks. The interior bucket profile allows blocks to further fit back in the bucket for increased load and lift capabilities and better balance and rack-back. Its HD400-metal shell and bottom offers maximum strength, durability and wear life.

Curves – BH QC with BH Fork

L3 Tires + Chains, Fork with 25° Rack

Fork Specifications

1	Tine Length	1505 mm	59.3 in
2	Load Center	900 mm	35.4 in
	Static Tipping Load – Straight (forks level)	22 290 kg	49,127 lb
	Static Tipping Load – Articulated (forks level)	19 021 kg	41,923 lb
	Rated Load (SAE J1197 – 50% FTSTL)	9511 kg	20,962 lb
	Rated Load (CEN EN 474-3 rough terrain – 60% FTSTL)	11 413 kg	25,154 lb
	Rated Load (CEN EN 474-3 firm and level ground – 80% FTSTL)	15 217 kg	33,539 lb
3	Maximum Overall Length	8945 mm	352.2 in
4	Reach with Forks at Ground Level	455 mm	17.9 in
5	Ground to Top of Tine at Minimum Height and Fork Level	685 mm	27.0 in
6	Reach with Arms Horizontal and Forks Level	1892 mm	74.5 in
7	Reach with Fork at Maximum Height	965 mm	38.0 in
8	Ground to Top of Tine with Arms Horizontal and Fork Level	2794 mm	110.0 in
9	Ground to Top of Tine at Maximum Height and Fork Level	5063 mm	199.3 in
10	Overall Height of Fork at Full Lift (top of carriage to ground)	4676 mm	184.1 in
11	Clearance at Full Lift and Maximum Dump	2919 mm	114.9 in
12	Maximum Discharge Angle from Horizontal	47 degrees	
13	Carriage Width	3850 mm	151.6 in
14	Carriage Height	1238 mm	48.7 in
15	Outside Tine Width (maximum spread)	3600 mm	141.7 in
16	Outside Tine Width (minimum spread)	3600 mm	141.7 in
	Tine Width (single tine)	304.8 mm	12.0 in
	Tine Thickness	101.6 mm	4.0 in
	Operating Weight	36 292 kg	79,989 lb



- Static Tipping Load – Articulated
- Static Tipping Load – Straight
- Hydraulic Tilt Capacity
- Hydraulic Lift Capacity

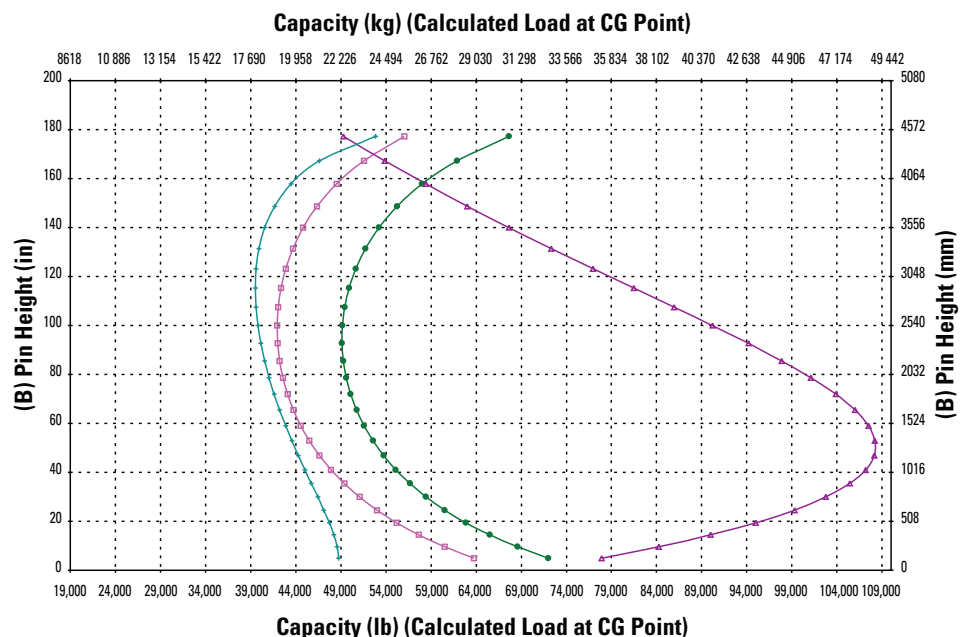
NOTE: Static tipping loads and operating weight are based on the following loader configuration: Air Conditioning, Ride Control, Power Train Guard, Full Fluids, Fuel Tank, Coolant, Lubricants, and Operator.

Specifications and ratings conform to the following standards:
SAE* J1197, SAE J732, CEN** EN 474-3.

The rated operating load for a loader equipped with a pallet fork is determined by:
SAE J1197: 50% of full turn static tipping load or hydraulic limit.
CEN EN 474-3: 60% of full turn static tipping load on rough terrain or hydraulic limit.
CEN EN 474-3: 80% of full turn static tipping load on firm and level ground or hydraulic limit.

* SAE – Society of Automotive Engineers

** CEN – European Committee for Standardization



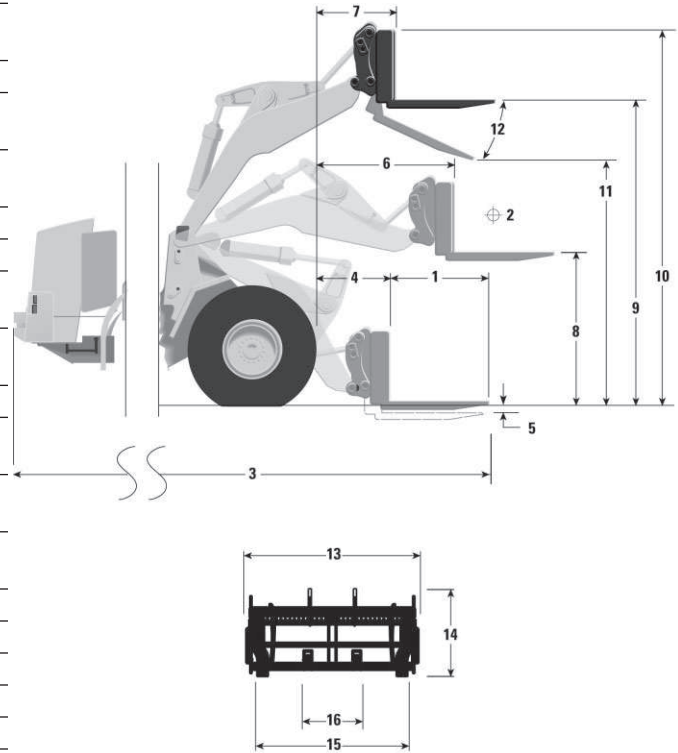
980H Specifications

Curves – BH QC with BH Fork

L5 Tires, Fork with 25° Rack

Fork Specifications

1 Tine Length	1505 mm	59.3 in
2 Load Center	900 mm	35.4 in
Static Tipping Load – Straight (forks level)	22 116 kg	48,743 lb
Static Tipping Load – Articulated (forks level)	18 871 kg	41,591 lb
Rated Load (SAE J1197 – 50% FTSTL)	9435 kg	20,795 lb
Rated Load (CEN EN 474-3 rough terrain – 60% FTSTL)	11 322 kg	24,954 lb
Rated Load (CEN EN 474-3 firm and level ground – 80% FTSTL)	15 096 kg	33,273 lb
3 Maximum Overall Length	8945 mm	352.2 in
4 Reach with Forks at Ground Level	455 mm	17.9 in
5 Ground to Top of Tine at Minimum Height and Fork Level	685 mm	27.0 in
6 Reach with Arms Horizontal and Forks Level	1892 mm	74.5 in
7 Reach with Fork at Maximum Height	965 mm	38.0 in
8 Ground to Top of Tine with Arms Horizontal and Fork Level	2794 mm	110.0 in
9 Ground to Top of Tine at Maximum Height and Fork Level	5063 mm	199.3 in
10 Overall Height of Fork at Full Lift (top of carriage to ground)	4676 mm	184.1 in
11 Clearance at Full Lift and Maximum Dump	2919 mm	114.9 in
12 Maximum Discharge Angle from Horizontal	47 degrees	
13 Carriage Width	3850 mm	151.6 in
14 Carriage Height	1238 mm	48.7 in
15 Outside Tine Width (maximum spread)	3600 mm	141.7 in
16 Outside Tine Width (minimum spread)	3600 mm	141.7 in
Tine Width (single tine)	304.8 mm	12.0 in
Tine Thickness	101.6 mm	4.0 in
Operating Weight	35 969 kg	79,275 lb



—■— Static Tipping Load – Articulated

—●— Static Tipping Load – Straight

—▲— Hydraulic Tilt Capacity

—◆— Hydraulic Lift Capacity

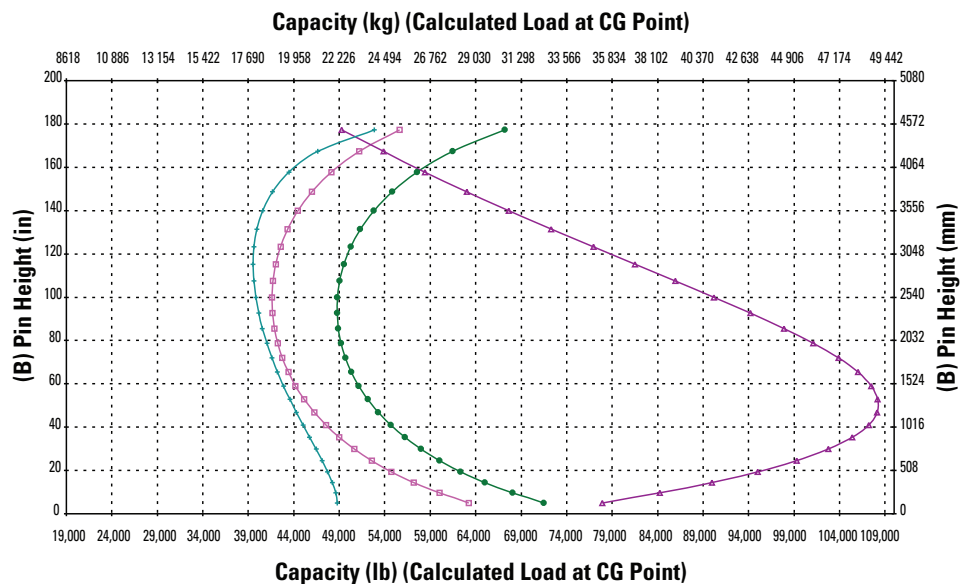
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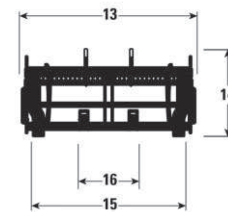
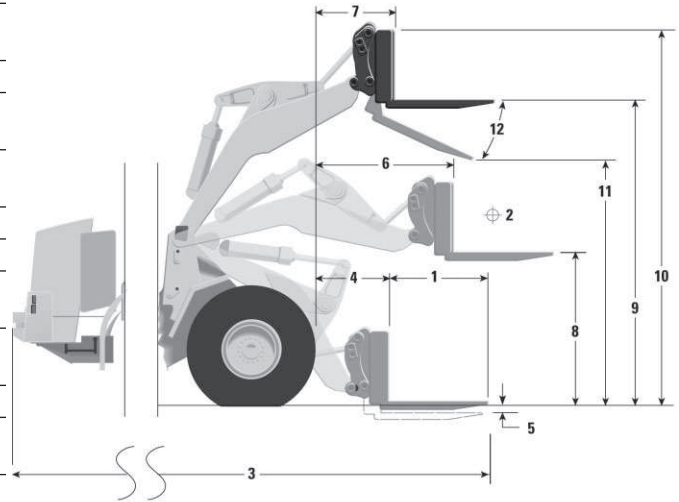


Curves – BH QC with BH Fork

L5 Tires + Rear Tire Ballast, Fork with 25° Rack

Fork Specifications

1	Tine Length	1505 mm	59.3 in
2	Load Center	900 mm	35.4 in
	Static Tipping Load – Straight (forks level)	24 712 kg	54,466 lb
	Static Tipping Load – Articulated	21 117 kg	46,541 lb
	Rated Load (SAE J1197 – 50% FTSTL)	10 558 kg	23,270 lb
	Rated Load (CEN EN 474-3 rough terrain – 60% FTSTL)	12 670 kg	27,924 lb
	Rated Load (CEN EN 474-3 firm and level ground – 80% FTSTL)	16 893 kg	37,233 lb
3	Maximum Overall Length	8945 mm	352.2 in
4	Reach with Forks at Ground Level	455 mm	17.9 in
5	Ground to Top of Tine at Minimum Height and Fork Level	685 mm	27.0 in
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16	Outside Tine Width (minimum spread)	3600 mm	141.7 in
	Tine Width (single tine)	304.8 mm	12.0 in
	Tine Thickness	101.6 mm	4.0 in
	Operating Weight	38 349 kg	84,521 lb



— Static Tipping Load – Articulated

— Static Tipping Load – Straight

— Hydraulic Tilt Capacity

— Hydraulic Lift Capacity

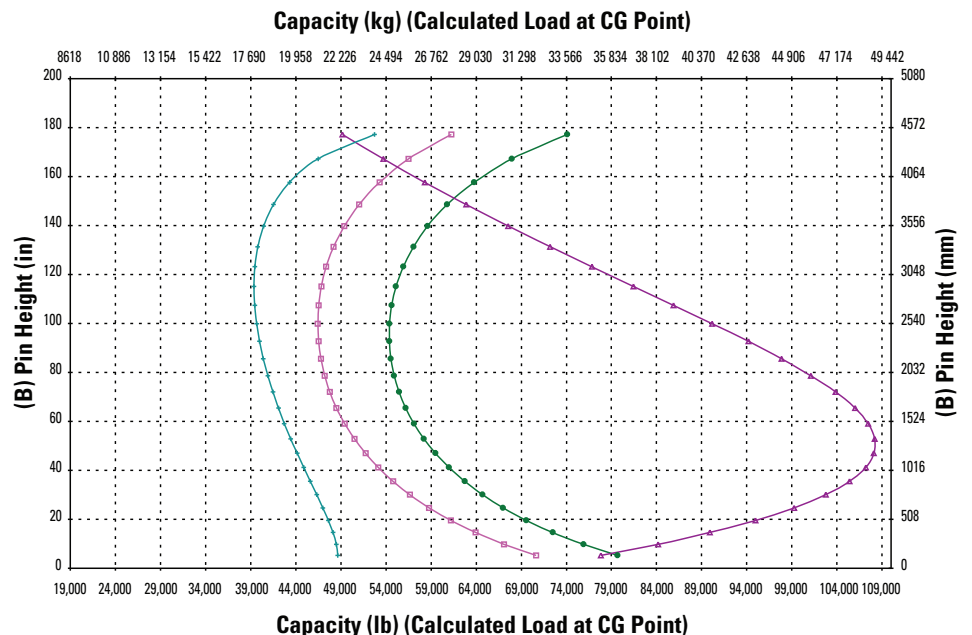
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