



VECTRA 175 SKID STEER LOADER

ONE MAN ARMY







THE HEMAN 175 SKID STEER

LOADER is an engineering marvel in the earth moving equipment industry, complete with compactness, maneuverability and versatility. The finest quality of the machine is its dexterity, which is made possible by the four-wheel drive system. Each side is independent of the other maximising the mobility in a very small radius.

The drive system is hydrostatic and has each set of wheels on either side connected to an independent drive motor, through a gear train which provides slip free drive to the wheels. The forged gears are hardened for a longer life and are immersed in an oil bath providing continuous lubrication.

This machine is built on the foundation of providing operator safety, reliability, easy maintenance and low total cost of ownership. When it comes to the test of strength, endurance and surviving the tough Indian conditions, the HEMAN 175 Skid Steer Loader, has it all more than any other machine.



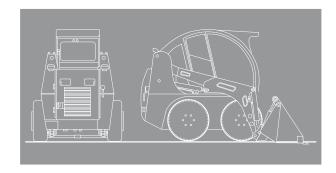




THE 10 COMMANDMENTS OF HEMAN SKID STEER LOADER

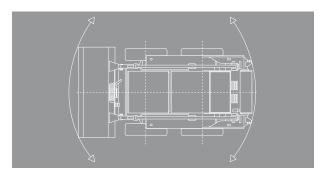
1. MANEUVERABILITY

The perfect geometry and proper weight distribution enables the HEMAN 175 to maneuver quickly and efficiently in confined areas.



2. COMPACTNESS

The HEMAN 175 is narrow and built low which allows it to work in congested areas. Low height helps in easy Mobility through small doors and passages.



3. AGILITY

To negotiate steep gradients, four-wheel drive, low centre of gravity, correct balance and ground clearance are a must. The HEMAN 175 possesses all these qualities, which also ensure a smooth operation on all surfaces from clay, marsh and gravel to rocky ground.



4. POWER & ECONOMY

Having matched engine and drive units an efficient delivery of correct torque to wheels is achieved. Moreover, matched hydraulics provide an excellent digging power and breakout force with economical fuel consumption.



5. VERSATILITY

The HEMAN 175 turns into a multi-purpose tool with a host of attachments to suit different applications. The standard Quick Hitch makes changing from one attachment to the other, easy and slick.





6. SIMPLE OPERATION

The HEMAN 175 is ergonomically designed with precise and smooth controls for ease of operation and minimum physical effort. Even the inexperienced operators become familiar and competent with the HEMAN 175 in a very short time.

7. OPERATOR SAFETY AND COMFORT

HEMAN 175 has an optimal visibility in all directions. It comes loaded with a full rollover protective structure, comfortable adjustable seat, safety seat belt, The machine start only when the operator is siting on the seat and the safety belt is in place. As soon as the operator lifts the restraint bar, the parking brakes and locks for hydraulic control are automatically applied, the release of which only takes place when the operator is in place and restraint bar is pulled down.

8. RELIABILITY

The HEMAN 175 comes with a robust construction and fewer working parts highlighting its strength and ease. The hoses are tucked away and the engine and drive units are fully enclosed and protected.

9. EASY MAINTENANCE

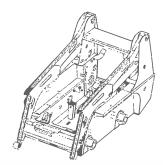
The routine maintenance is reduced to the minimum and comfort factor is given importance. Other features that add up to easy maintenance are use of single oil, self indicating warning lights along with audible warning. Access is made easy with a tilt up cab without use of any tool, thus saving time and effort. HEMAN 175 has been designed and tested in India to International standard.

10. LOW TOTAL COST OF OWNERSHIP

HEMAN 175 is the first-ever indigenously manufactured machine with an engine by Cummins/Simpsons. The machine is highly fuel efficient and maximises productivity. Together with major components from the world's largest manufacturers, this advanced design provides the best in its class.









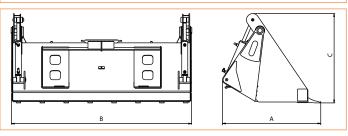






TECHNICAL SPECIFICATIONS

No. of Teeth	8 (Bolt on)
Capacity (SAE Heaped)	0.46 Cu m
Jaw Opening (mm)	900
Operating Weight (Kg)	290
Overall Length (mm)	1020
Overall Width (mm)	1738
Overall Height (mm)	868



Note : All dimensions are variable within \pm 1.5%. VAEPL reserves the right to change specifiations without prior notice

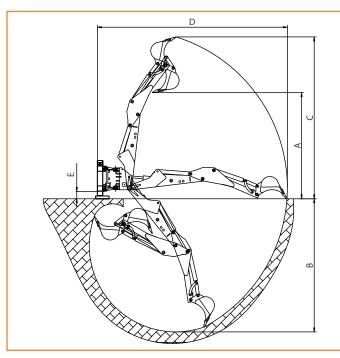
APPLICATIONS

- Construction Demolition
- Landscaping Renovation









A (mm)	1950
B (mm)	2600
C (mm)	2965

D (mm)	3545
E (mm)	200

Bucket size available 300mm, 450mm, 600mm Ditch Cleaning Bucket 600 mm

Side Shift feature is also available

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TECHNICAL SPECIFICATION

Hydraulic backhoe with transeatable frame and mechanical block, hydraulic and independent stabilize feet, main joints with pins and bushes in hardened and rectified steel, linkage kit for skid-steer loader and backhoe loader.

Digging depth (mm)	2600
Weight (Kg.)	600
Frame largeness (mm)	1400
Swing each side	90°
Oil flow (LPM)	80
Pressure (Bar)	175
Bucket Breakout Force (KN)	23









TECHNICAL SPECIFICATION

Sweep Collector with bucket and polypropylene brushes, universal linkage kit for skid steer loader, front and lateral protections with rubber bands. Working through the hydraulic circuit of Skid Steer Loader. Caster wheels for better and smooth operation and bolted blade.

Width (mm)	1670
Working Width (mm)	1545
Weight (Kg)	385
Brush (mm/hr)	560/32
Capacity Bucket (Lt.)	430
Continuos - Intermittent Oil Flow (Lpm)	57-68
Continuos - Intermittent Pressure (Bar)	115-124

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OPTION

Sweeper Collector is available with suction features



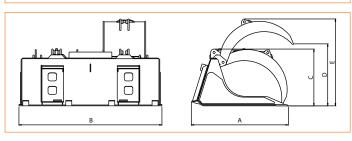


INDUSTRIAL GRAPPLER



TECHNICAL SPECIFICATIONS

No. of Grappler x Teeth	2 x 2
Max Height with Grappler Raised (mm)	1111
Jaw Opening at Max. Open Height (mm)	952
Operating Weight (Kg)	415
Overall Length (mm)	1133
Overall Width (mm)	1670
Overall Height (mm)	662



APPLICATIONS

• Construction • Recycling • Landscaping

MAIN FEATURES

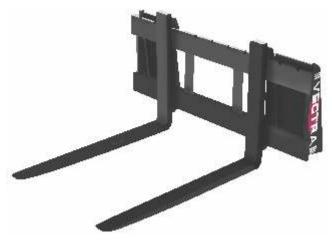
- Move hard to handle material easily.
- Hydraulically controlled grappler is easy to operate.
- Handles bulky, uneven loads securely.



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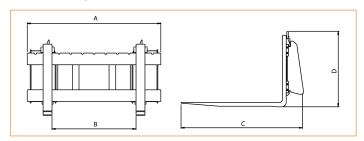


PALLET FORK



APPLICATIONS

- Move bulky or palletized material with ease
- Ideal for construction sites, farm chores, fertilizer handling, industrial plants etc.



TECHNICAL SPECIFICATIONS

A (mm)	1155
B (mm)	753
C (mm)	1095
D (mm)	638
Capacity (Kg.)	600
Approx. Weight (Kg)	138



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EARTH AUGER



TECHNICAL SPECIFICATIONS

Operating Weight (Kg)	70
Max. Drilling Depth (m)	1.55
Max. Auger Torque (Nm)	3500
Max. Hydraulic Pressure (Bar)	230
Max. Hydraulic Flow (Lpm)	50-80
Available Auger Bits Dia (mm)	D = 150, 300 & 450

APPLICATIONS

Dig holes for posts, piers, poles or trees.



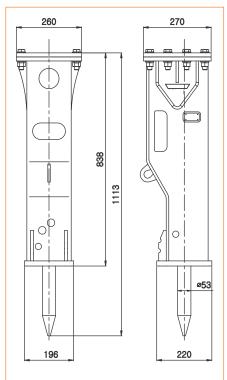
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ROCK BREAKER



TECHNICAL SPECIFICATIONS

Working Weight (Kg)	225 kg
Impact Frequency (BPM)	600 ~ 950
Operating Pressure (Bar)	90 ~ 120
Relief Pressure (Bar)	140 ~ 160
Oil Flow (I/min)	25 ~ 40
Back Pressure (Bar)	10
Tool Diameter (mm)	53
Oil Temperature (°C)	-20 ~ +80
Hydraulic Oil Viscosity (cSt)	1000 ~ 15
Pressure Line Size (mm)	12
Return Line Size (mm)	12
Backhead Pressure (Bar)	16
Carrier Weight (Ton)	1.2 ~ 3.5

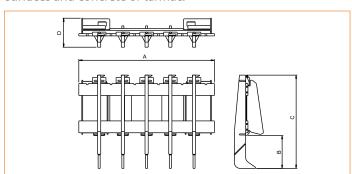
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RIPPER TOOTH



APPLICATIONS

Enables the operator to break up frozen or compacted earth surfaces and concrete or tarmac.



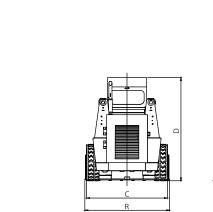


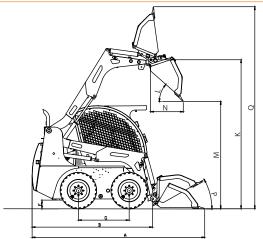
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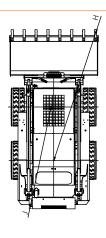
A (mm)	1200
B (mm)	310
C (mm)	850
D (mm)	256.4
Approx. Weight (Kg)	160

Note : All dimensions are variable within \pm 1.5%.VAEPL reserves the right to change specifiations without prior notice









DIMENSIONS

	mm/deg
A - Length with bucket	3475 / 3621
B - Length without bucket	2570
C Width with tyres	1650
D - Overall Height	2100
E - Ground clearance	190
F - Departure angle rear	26
G - Wheelbase	1023
H - Turning radius rear corner	2000 / 2134
J - Turning radius bucket corner	2680
K - Pin height	3022
L - Dump angle	40
M - Dump Height	2210
N - Reach at dump height	642
P - Roll back angle at ground	28
Q - Max reach at full height	4000
R - Bucket width (Standard)	1708

FEATURES

Multi-disc parking brakes

Gear drive

Front cab access

Fuel water trap

Hydraulic parallel lift

Adjustable seat

Instruments audio/visual

Instruments

Dual element air cleaner

Chassis-rigid fully welded high tensile steel structure

Roof window for enhanced operating visibility.

Rear window for emergency exit.

Heavy duty gear boxes with slip-free gears.

Axles of high ductile forgings, self lubricating.

Mechanical hitch for quick change of attachments.

Ergonomically designed seat, user friendly controls. Visual and audio warning to prevent system failures.

Adequate inbuilt safety measures for operator/machine.

Hydraulic tilt back cabin for maintenance ease. Easy to maintain and service with normal tools.

TRANSMISSION

Hydrostatic 4X4 independent drive through Tandem variable displacement acial pumps Fixed displacement low speed high torque gerola

Final drive through positive gear boxes

TYRES

Front/ rear 10X16.5-10/8PR Max. travel speed 13 kmph

SPECIFICATION

SAE Operating weight 2990/2965Kgs Standard bucket capacity 0.40 / 0.46 cum Maximum lift height 2955 mm Time to raise lift arms fully 3-5 Sec. Breakout force-bucket 1885Nm Breakout force-lift arm 1445Nm

STANDARD FEATURES

Auxiliary hydraulics

Cab - swing up Tubeless tyres

Key stop

Lift arm stop

Lifting eyes

Working light

Quick hitch

Roof window

Safety Seat belt

Air Cleaner clog warning indicator

Battery charge

Charge pump pressure

Coolant temperature gauge

Engine oil pressure

Fuel level gauge

Hour counter

Hydraulic oil temperature gauge

Cabin light

Rear window for emergency exit

Hydraulic clog indicator

Fuel clog indicator

Cab with front door lock

Rear view mirrors

Wiper motor with wiper blade

Cabin fan

Head lights with side indicators

Tool kit

4 chamber tail lamps

HYDRAULICS

Engine driven gear pump with valve block, twin arms lift cylinder with end cushion and bucket cylinders. Flow (Liters per min) a۸

Working pressure (bar)

ELECTRICALS

12 volts negative earth system with battery isolator 130AH/150 AH Battery Low maintenance alternator 35 / 65Amp Starter motor 12 V

BRAKES

Service brake: Hydraulically activated and released multi plate Fade free breaks from integral part of drive motors.

Parking Brake: Electrically activated

CAPACITIES

Fuel system Engine lub oil 62 Liters 8 / 9.5 Liters 16 Liters Engine coolant Transmission 14 Liters Hydraulic system 70 Liters

PERFORMANCE

Rated operating capacity 600-750 Kgs 1200-1500 Kgs Tipping load

ENGINE

BS III Model

Simpson S43 3 Industrial BS III, 35.79kW/ 48HP / 48.67PS @2200rpm 4 Cylinder, Liquid Cooled, Diesel Engine, Naturally Aspirated

BS IV Model

Simpson SJV436 Industrial BS IV, 54kW/72.42HP/ 73.42PS @2200rpm, 4 Cylinder, Liquid Cooled, Diesel Engine, Turbo Charged

ATTACHMENTS

6 IN 1 Bucket

Sweeper collector

Ripper tooth Backhoe

Excavator Bucket: 300mm,450mm,600mm &

Ditch Cleaning bucket.

Pallet Forks

Industrial grappler Rock breaker

Snow blower

Steel tracks(Track over tyres)

Rubber tracks (Track over tyres)

Post hole borer/ Auger

Shredder

Snow Blade

Stump Grinder Trencher

Side Tip Bucket High Tip Bucket

OPTIONAL

Heavy duty tyres/ Solid tyres -Tubeless Buckets: Varying capacities upto 0.65 cum limited to machine rating operating capacity. Servo Variant also available

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VECTRA ADVANCED ENG. (P.) LTD.

Factory: Plot No. 22, Udyog Vihar, Greater Noida, P.O. Surajpur, Gautam Budh Nagar, Uttar Pradesh - 201 306, INDIA Phone:+91-120-474 6300-99 Fax:+91-120-474 6376,

Regd. Office: Vectra House, No. 15, 1st Main Road, 6th Cross, Gandhinagar, Bangalore - 560 009, India. Phone : +91-80-4129 0011, Fax : +91-80-4151 6422,

E-mail: marketing@vectraindia.co.in www.vectraadvanced.com



The spirit of great nations, success of great enterprises and power of great brands is built on the founding principle of Working Together. The guts to face everyday challenges and emerging victorious each time, evolves from this belief. The people and resources involved in the process walk together, inspiring each other to attain new heights.

Marching forward on this philosophy, Vectra has mustered the finest technology and infrastructure with the best talent in the industry, to constantly work together for delivering nothing other than the best. This belief comes from our inherent values of integrity, commitment, innovation, the passion to succeed and most of all teamwork. Standing on this platform emerges our strength of becoming a force to reckon with a force the world knows as Vectra.

VECTRA ADVANCED ENGINEERING PVT. LTD.

Registered Office: Vectra House, No. 15, 1st Main Road, 6th Cross, Gandhinagar, Bangalore - 560 009, INDIA

Ph: +91-80-41290011 Mobile: +91 9845048270

E-mail: nitinsachdev@vectraindia.co.in

Factory: Plot No. 22, Udyog Vihar, Greater Noida, Gautam Budh Nagar,

Uttar Pradesh - 201 306, INDIA

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