

Kaiser. Performance counts.



***CV Series***<sup>®</sup>

Engineered to move dirt





# CV Series®

## Powerful performance

KAISER Premier's CV Series line of hydrovac's has been developed and refined over many years. The industry-leading features define new standards in the hydro excavation industry. Every aspect of the hydrovac process was analyzed to ensure that the CV pulls the most dirt in the least amount of time with the most efficient operation possible. All critical components are centralized and housed in an insulated, heated aluminum van body. An optional 700,000 BTU boiler provides hot water functionality. Operators especially appreciate the functional space with access located on both sides of the machine.

The Robuschi RB-DV series of rotary three lobe PD blowers can operate at high vacuum levels thanks to a patented cooling device that injects atmospheric air. This device allows the blower to operate at maximum vacuum capacity without overheating. RB-DV series blowers can reach vacuum levels of up to 93% on a dead head 27" Hg without the need to inject water or use an upstream heat exchanger, consequently lowering installation and operating costs. Additional blower includes the Robuschi DV 125 and the KAISER 7000i Liquid Ring pump.

The extendable boom delivers superior reach and mobility. Our unique head-mount design allows 342-degree rotation and a 26' reach or 20' down without adding an extension tube.

All functions can be operated via wireless radio remote control for single operator functionality, backed up with concise manual controls if needed. An optional umbilical cord pendant is also available.

## Optimized design

The CV Series can be fitted with KAISER Premier's patented hydraulically assisted offload system. This option eliminates impacting overhead obstacles when offloading by avoiding the need to raise the tank. Rather than using gravity alone, the CV series combines mechanical assistance to quickly offload compacted tank debris.

The transfer case is specifically designed for vacuum excavation trucks requiring a highly configurable and easily serviceable gear box. Precision cast iron housing coupled with the use of ball bearings, straight roller bearings and high contact ratio spur gears provide a long service life.





# DETAILS AT A GLANCE



Wireless Remote Control



Insulated Van Body and Storage



Direct Driven PD Blower



Top Gun Boom



Patented Offload System



UL Listed Boiler



High Pressure Water Pump



Multiple Axle Configurations

# TECHNICAL SPECIFICATIONS AND EQUIPMENT

	TANDEM (CV100)	TANDEM + PUSHER AXLE (CV100T)	TRI-DRIVE (CV200)	TRI-DRIVE + PUSHER AXLE (CV200)
Debris / fresh water *	11.0 yd <sup>3</sup> / 2,206 gal	11.0 yd <sup>3</sup> / 2,206 gal	13.0 yd <sup>3</sup> / 2,250 gal	13.0 yd <sup>3</sup> / 2,250 gal
Dimensions L x W x H**	38' x 8'6" x 13'4"	38' x 8'6" x 13'4"	39'2" x 8'6" x 13'3"	39'2" x 8'6" x 13'3"

\* Maximum capacity  
\*\* Varies based on chassis manufacturer

## Control systems

- > Anytime hydraulic powered by hotshift PTO
- > Efficient gearing on transfer case allows engine to run in peak power range
- > Transfer case interlock and shift aid, eliminates gears from becoming compromised during operation
- > Passive temperature monitoring of critical systems
- > Back-up on-board controls for all wireless functions
- > Hard wired and electromechanical controls facilitate field diagnosis

## Radio remote control

- > Suction boom control
- > Water pump speed / pressure control
- > Vacuum breaker control
- > Dump door / lock control
- > Unloading pusher control
- > Engine speed control
- > E-stop

## High pressure water system

- > Cat Pumps 3560 high pressure water pump with a system setting of 20 gpm and 3,000 psi (factory settings)
- > Dig hose reel with 75' of 1/2" hose
- > Air power retract hose reel
- > Wash bars inside tank and flush out nozzle in the cyclone
- > Variable speed hydraulic drive

Vacuum Pumps	Robuschi RB-DV 125	Robuschi RB-DV 145	KAISER 7000i Liquid Ring
cfm	3,500	6,600	4,120
Hg	27"	27"	22"

## Water system options

- > Secondary digging hose reel (with tools)
- > Secondary steam hose reel (with tools)
- > 100' of 1/2" hose
- > 700,000 BTU certified boiler
- > Upgraded 102 gpm debris body flush system (turbo flush)

## Vacuum system

- > Robuschi RB-DV 145 vacuum blower with a system capacity of 6,600 cfm and 27" Hg max. vacuum
- > Direct drive via split shaft PTO (transfer case)
- > 6 way, extra heavy-duty, hydraulic powered boom
- > 32' of 8" suction hose
- > 20' + dig depth without hose extension
- > Hydraulic vacuum breaker
- > 10 micron final filter

## Tank superstructure

- > Divided / integrated water and debris tanks
- > Fixed tank design means no tipping
- > Sloped floor design with optional pusher
- > Heavy duty fenders for storage of tools/extension hose
- > Powder coated inside and outside

## General options

- > Mechanically assisted offload (11.7 - 12.8 yd<sup>3</sup> tank capacity)
- > Hydraulic trash pump
- > Rear platforms
- > Towing package
- > 3 levels of heat protection for water system
- > Weight scale system
- > Air compressor

Subject to change without notice. Technical specifications may change depending on chosen options and accessories. All photos and diagrams are for illustration only.

## QUICK FACTS

### PERFORMANCE



Robuschi RB-DV 145 with a system capacity of 6,600 cfm and 27" Hg

### EFFICIENCY



Optimized van body layout delivers easy access and improved productivity

### SAFETY



No-tilt hydraulically controlled rear dump door

### QUALITY



Patented technology – proudly made in the USA



Cat Pumps 3560 with a system capacity of 20 gpm and 3,000 psi



Dig-ready boom minimizes setup and teardown time



Dig-ready boom reaches out 26 feet or 20 feet down below ground level without adding extensions



Refined design with proven market-leading components



**PURPOSE-BUILT HYDRO EXCAVATORS DELIVERING PROVEN PERFORMANCE.**





## KAISER. A SUCCESSFUL FAMILY-OWNED COMPANY FOR OVER 100 YEARS.



Our focus on value and our capacity to innovate as a family-run business remain, to this day, the basis for our international success. Value and innovation form the cornerstones for sustainable development in the future.

Markus Kaiser



KAISER AG is a family-owned company based in Liechtenstein. Since its founding in 1913, the company has grown into an international industrial enterprise with sites in Liechtenstein, Italy, Finland, Austria, Slovakia, and the United States. We have a history of innovation. Our inventive genius enabled KAISER AG to continuously advance, leading to the development of industry-leading products.

### INTERNATIONAL EXPERIENCE, LOCAL PRESENCE

With six international locations, KAISER has a network of over a 100 sales and service partners worldwide. We have vehicles on five continents, in 116 countries, and over 1,000 cities.

KAISER has numerous years of experience in the US market with MORO KAISER Components and KAISER Excavators. At KAISER Premier, which has its own manufacturing facility, the focus is on hydrovacacs and recycling vehicles.

