

VEMCON GRADER – RETROFIT KIT WITH THE UNIGRIP JOYSTICK



VEMCON

Machine Control.
Hands-On & Beyond.



uniGRIP Grader Control

Simple operation, high driving comfort, fast and precise grading

No more complex operation and time-consuming alternating between the steering wheel and the traditional “piano” controls! Working closely with experienced grader drivers, Vemcon has developed the grader kit as a retrofit solution. The intuitive and ergonomic joystick operation covers all necessary machine functions and movements, based on the existing machine concept. The Vemcon joystick control for grader operation lets every driver achieve perfect grading easier and faster.

Joystick control for optimum grader operation

uniGRIP Grader Control is a manufacturer independent, market-proven complete package from a single provider.

High driving comfort

Each ergonomic joystick integrated into the armrests on the seat is individually adjustable. Grip plates are fitted to the natural hand position.

Simple operation

The logical and intuitive operating concept ensures complete control of the machine and tool via the joysticks.

Precise grading

No longer is there cumbersome alternating between machine elements. This is replaced by control of all machine functions through a button on the joystick. Integrated interfaces with 2D/3D control systems permits operation of external machine controls.

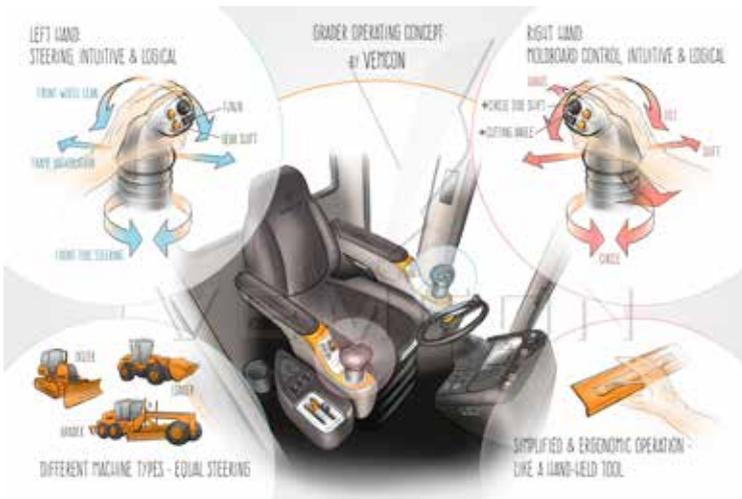


“The driving experience with the Vemcon uniGRIP joystick is great. The joysticks make it much easier and faster to reach between the steering wheel and piano controls, and especially to operate several functions simultaneously when cornering. Now I just drive my CASE 836C more relaxed!”

(David Oberndorfer, Graderungen Austria)

The grader joystick retrofit kit is a must have for all contractors

- Looking to increase machine and driver productivity,
- Wanting driving comfort and ergonomics to keep grader drivers awake, fit and healthy,
- Needing to reduce training times for qualified personnel,
- Seeking to modernise older machine models and keep them in service longer.



Simple grader operation at a glance

The uniGRIP operating concept eliminates time-consuming alternating between the steering wheel and the traditional „piano“ control. The two joysticks are used to control:

- All blade functions,
- Driving functions (steering, wheel lean, articulated steering),
- Shift operations (F-N-R, gear +/-), as well as
- Front shield and rear ripper, logical and fatigue-free.

In addition, the following facts increase driving comfort:

- Pressing a button (Return2Center) automatically moves articulated steering into the neutral position,
- Two profiles for blade control,
- Three speed modes for desired operating speed.

Grader joystick retrofit kit: Time and cost-saving plug & play retrofit

The cabin has an operator workplace for the grader kit. The machine is operated through pedals, steering wheel, joysticks, and switches. The certified steering valve allows steering with both the joysticks and steering wheel. Road approval is retained. The uniGRIP joystick controls by analogue transmission through a cable to the VIO control units integrated in the bracket. This computes the output signals to the hydraulic valve coils and regulates them, moving the individual functions of the grader when the operating controls are used. Any error messages that may occur will be shown on the display. A maintenance lid enables quick and easy troubleshooting and reaction. Individual user settings can be applied to the display.

Components and parts tailor-made for the grader in a retrofit package:

- Variable, individually adjustable armrests with additional consoles
- Two uniGRIP joysticks integrated in the armrest
- Console with two integrated VIO12 control units, relay array and wiring harness
- CAN cable and terminal resistance for control block overhead (model code: Grader EH Block o CAN)
- Display
- Two electro-hydraulic control blocks with high efficiency and precision
- Steering valve
- Keyboard cover
- Assembly and operating instructions

Development complies with ISO 13766, ISO 13849, ISO 5010: 2007, ISO 15998 and takes into account and applies the EMC Directive 2014/30/EU and the Machinery Directive 2006/42/EC. Vemcon customer service assists in the retrofitting process and beyond.