

HPSC & HPSC PLUS

HIGH PERFORMANCE STABILITY CONTROL

LIFETIME EXCELLENCE



HPSC

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HPSC – MAXIMUM OPERATING COMFORT AND SAFETY

“HPSC” helps the crane operator to achieve maximum comfort and safety even during crane operations where space is restricted. In densely built-up areas, in flowing traffic or similar situations, it is often the case that the vehicle can only be supported on one side or it may only be possible to support it partially and sometimes not at all.

Thanks to HPSC, the crane can also work safely in cases such as these because there is no longer any need to ensure that predefined stability support situations are achieved.

When compared to conventional proportional systems, PALFINGER's HPSC system comes closest to the actual stability prevailing.

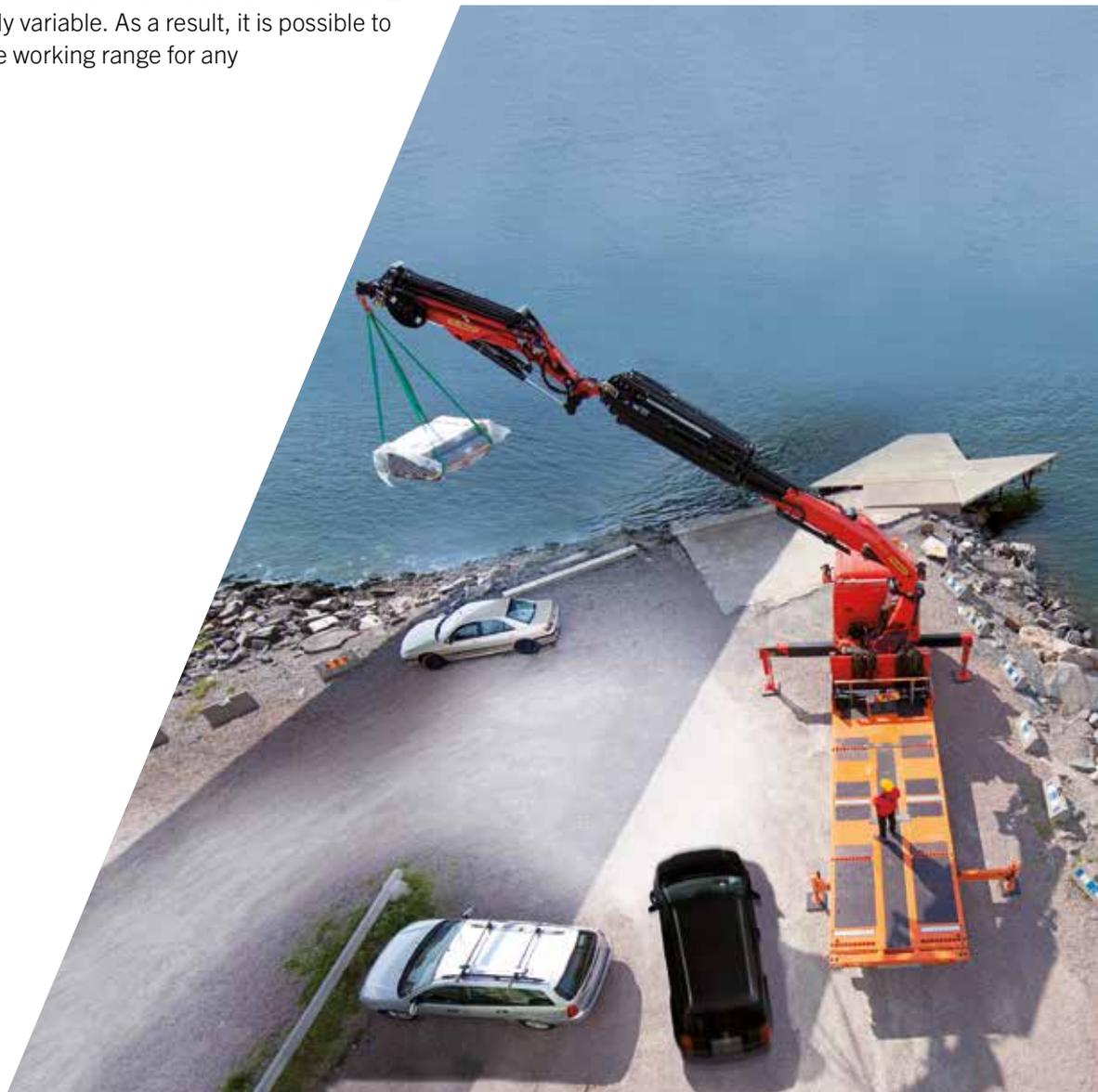
The most intelligent stability control system of all times!





OPTIMAL UTILIZATION OF THE LIFTING POWER

- Nowadays, truck-mounted cranes perform increasingly demanding tasks and make use of complex electronic control and monitoring systems to do so. These machines, which are becoming more and more intelligent, owe their outstanding functionality to a perfect combination of state-of-the-art hydraulics, electronics and sensor technology.
- As part of an extensive safety system, the “HPSC” stability control system is yet another innovative response to requests made by users of PALFINGER truck-mounted cranes.
- Sensors for proportional length measurement located in the stabilizers make their positioning fully variable. As a result, it is possible to calculate the permissible safe working range for any stabilizer situation.



WIDEST POSSIBLE WORKING RANGE THANKS TO INTELLIGENT **REAL-TIME** **DATA ALGORITHM**

Highlights

The HPSC system calculates the permissible working range for any slewing angle of the boom system and for any stabilizer situation. Thanks to an intelligent calculation algorithm developed by PALFINGER, it works more efficiently than comparable systems available in the market.



Algorithm

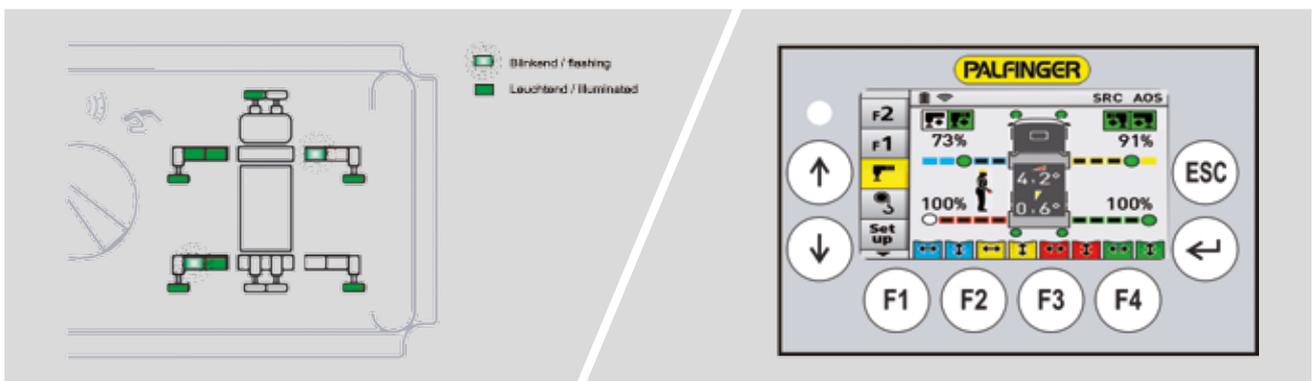
Calculated in real time

The algorithm developed by PALFINGER is a complex calculation process which enables a very accurate approximation to the vehicle's actual stability based on the crane's and vehicle's real data. The stability is recalculated for every crane position in real time.

In dialogue with the user

Display on operator's console and radio remote control

The HPSC system incorporates the current stability support situation including additional stabilizers into the crane's electronic safety system. The operator can read off the current status at any time on the clearly laid out display on the operator's console or on the display of the radio remote control.

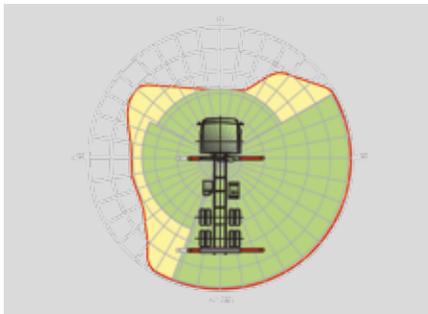


PALTRONIC 50 Display

PALTRONIC 150 Display

MAXIMUM FLEXIBILITY IN TRUCK-MOUNTED CRANE USE DUE TO FULLY VARIABLE STABILIZER POSITIONING

Highlights



HPSC

Maximum utilisation of the working range

The variable stabilizer positioning of the High Performance Stability Control System allows the full lifting capacity of the crane to be used, even when working within tight spaces.



Functional design

Optimal protection

The position of the stabilizer is recorded by means of cable transducers or magnetostrictive position sensors in the stabilizer support. The entire sensor system is mounted inside the unit to conform with PALFINGER's functional design language and is therefore protected against damage, dirt and the elements.



Additional stabilizers

Efficient overall system

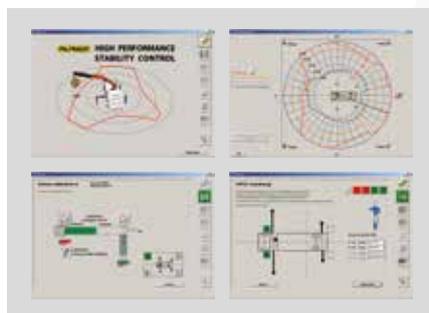
The auxiliary stabilizers are also equipped with proportional length measuring sensors and are integrated in the HPSC. The result is an efficient overall system.



Mounting options

Individual adaptations

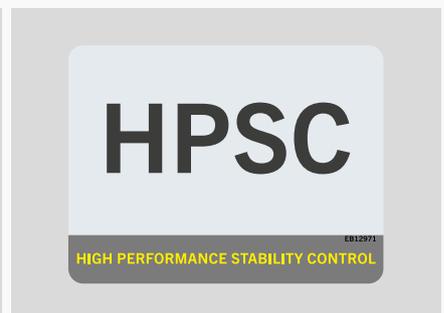
There are several options available for mounting special bodies and solving specific problems, such as the incorporation of a ballast weight or monitoring of the front stabilizers.



PALDIAG

Easy adjustment and diagnostic software

The HPSC is integrated in the PALDIAG adjustment and diagnostic software. Thanks to a well thought-out menu navigation system, the system is easy to calibrate and also very easy to service and maintain.



HPSC-L

Competitively-priced alternative

A competitively-priced alternative to the top-of-the-range system is also offered as an option in the HPSC generation. Based on monitoring of the fully extended or retracted stabilizer position, HPSC-L monitors the vehicle's stability within a 360° range. HPSC-L also uses the new HPSC algorithm to calculate stability.

HPSC-PLUS

HPSC-Plus LOAD

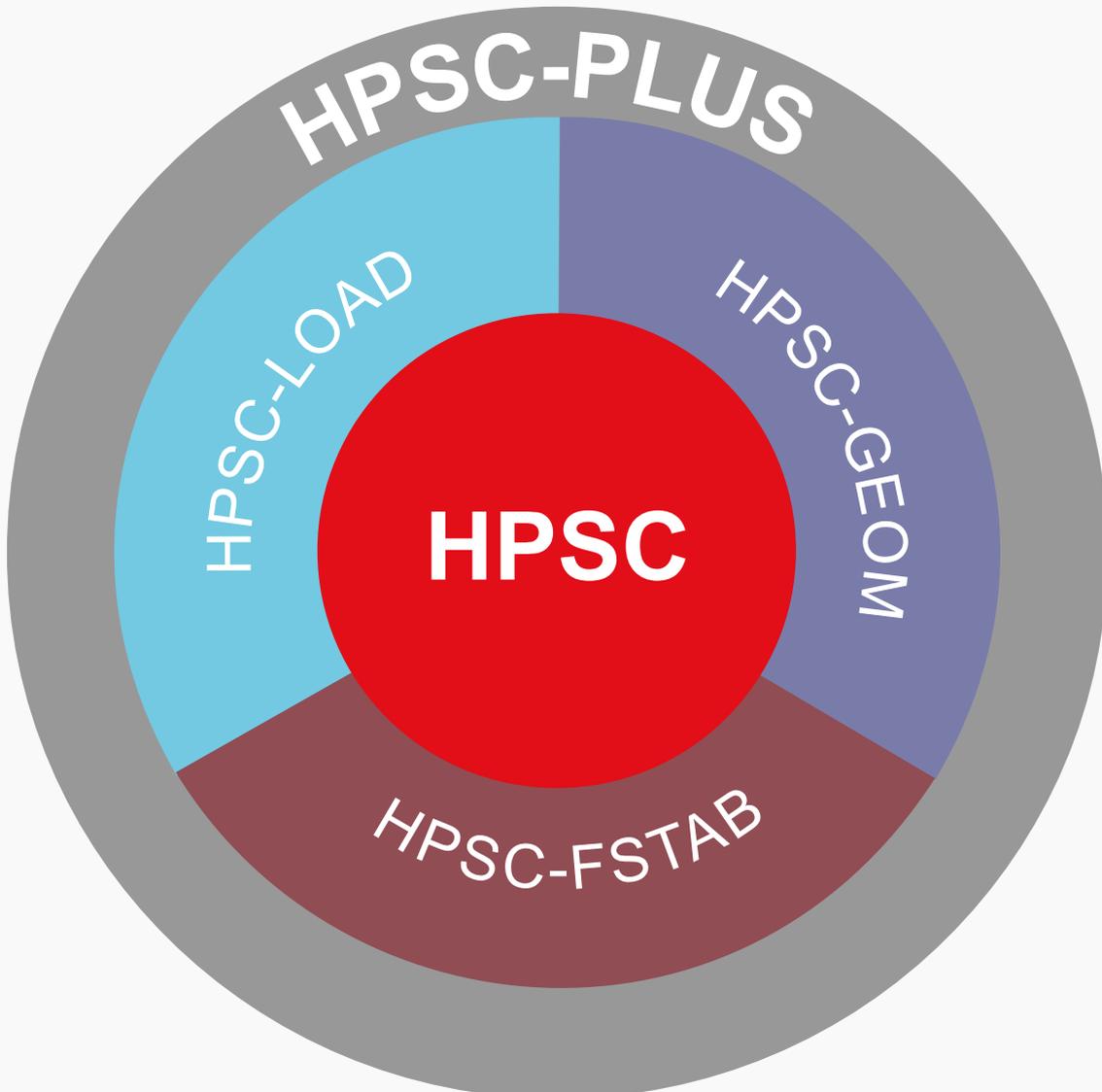
Longer reach thanks to load detection

The HPSC-Plus LOAD module reacts to the truck's loading situation and uses the inclination to determine the maximum load limit suitable for the current situation.

HPSC-Plus GEOM

More lifting power thanks to length measurement system

The HPSC-Plus GEOM module enables precise determination of the centres of gravity of the extension boom system and the load on the crane, with the aid of a length measurement system. This results in an increase in performance when the crane is not fully supported.



HPSC-Plus FSTAB

Better performance through stabiliser force detection

The HPSC-Plus FSTAB module monitors the load on the stabiliser rams. This module shows its strengths at very low stabiliser widths and very high vehicle loadings.

KP-HPSCM2+EN

Die abgebildeten Krane sind teilweise mit Wunschausrüstung ausgestattet und entsprechen nicht immer der Standardausführung. Beim Kranaufbau sind länderspezifische Vorschriften zu beachten. Maßangaben unverbindlich. Technische Änderungen, Irrtümer und Übersetzungsfehler vorbehalten.