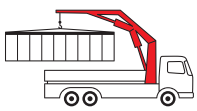
High Performance Stability Control HPSC.

PALFINGER



HPSC High Performance Stability Control monitored

Paltronic 50 controlled

Paltronic 150 controlled

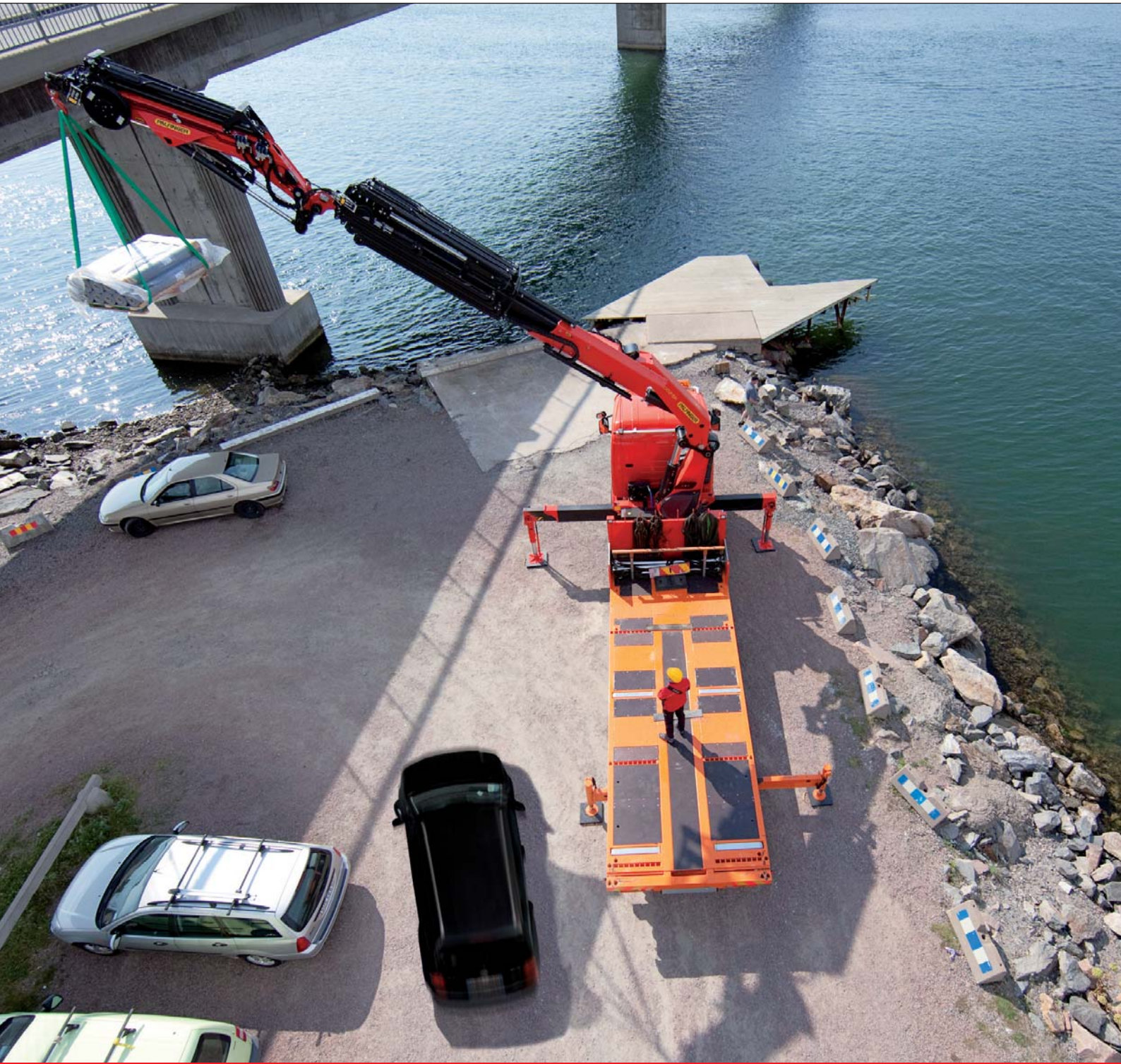
Efficient stability control

Optimum utilization of the lifting power at every point of the stability curve

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 new “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 for any stabilizer situation.



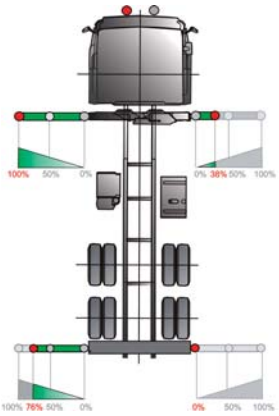
Widest possible working range thanks to intelligent real-time data algorithm

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.

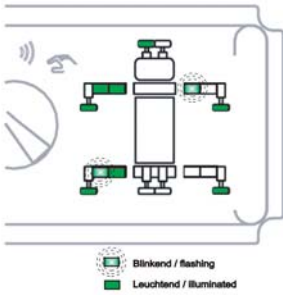
The algorithm developed by PALFINGER is a complex calculation process which enables a very accurate approximation to the vehicle's actual stability based on the crane and vehicle's real data.

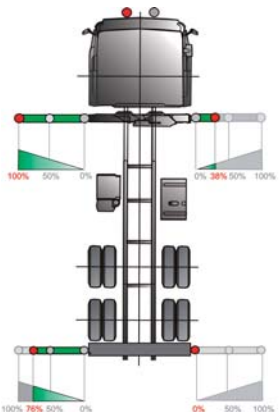
The stability is recalculated for every crane position in real time.

In dialogue with the user.
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.

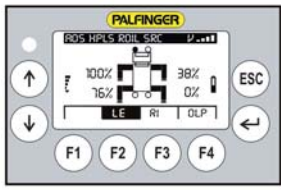


Display
PALTRONIC 50 (LED Display)





Display
PALTRONIC 150 (LCD Display)

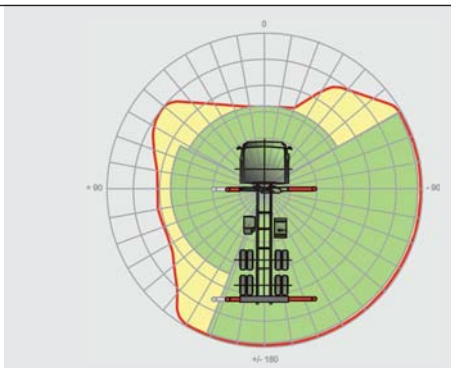


HPSC
High Performance Stability Control
monitored

HPSC-L
A competitively-priced light 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.

Maximum flexibility in truck-mounted crane use due to fully variable stabilizer positioning

The integrated real-time data algorithm ensures optimum utilization of the lifting power at every point of the stability curve. As a result, the operator has access to the widest possible working range.



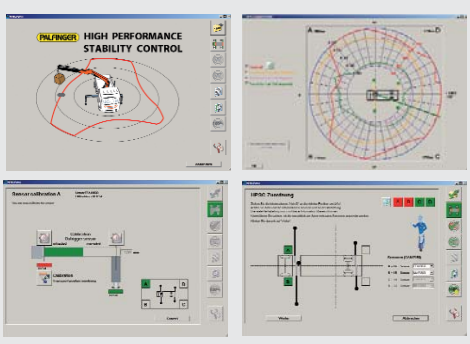
The position of the stabilizer is recorded by means of cable transducers or magnetostrictive position sensors in the stabilizer support.

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.

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

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.

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.



Maximum operating comfort and safety

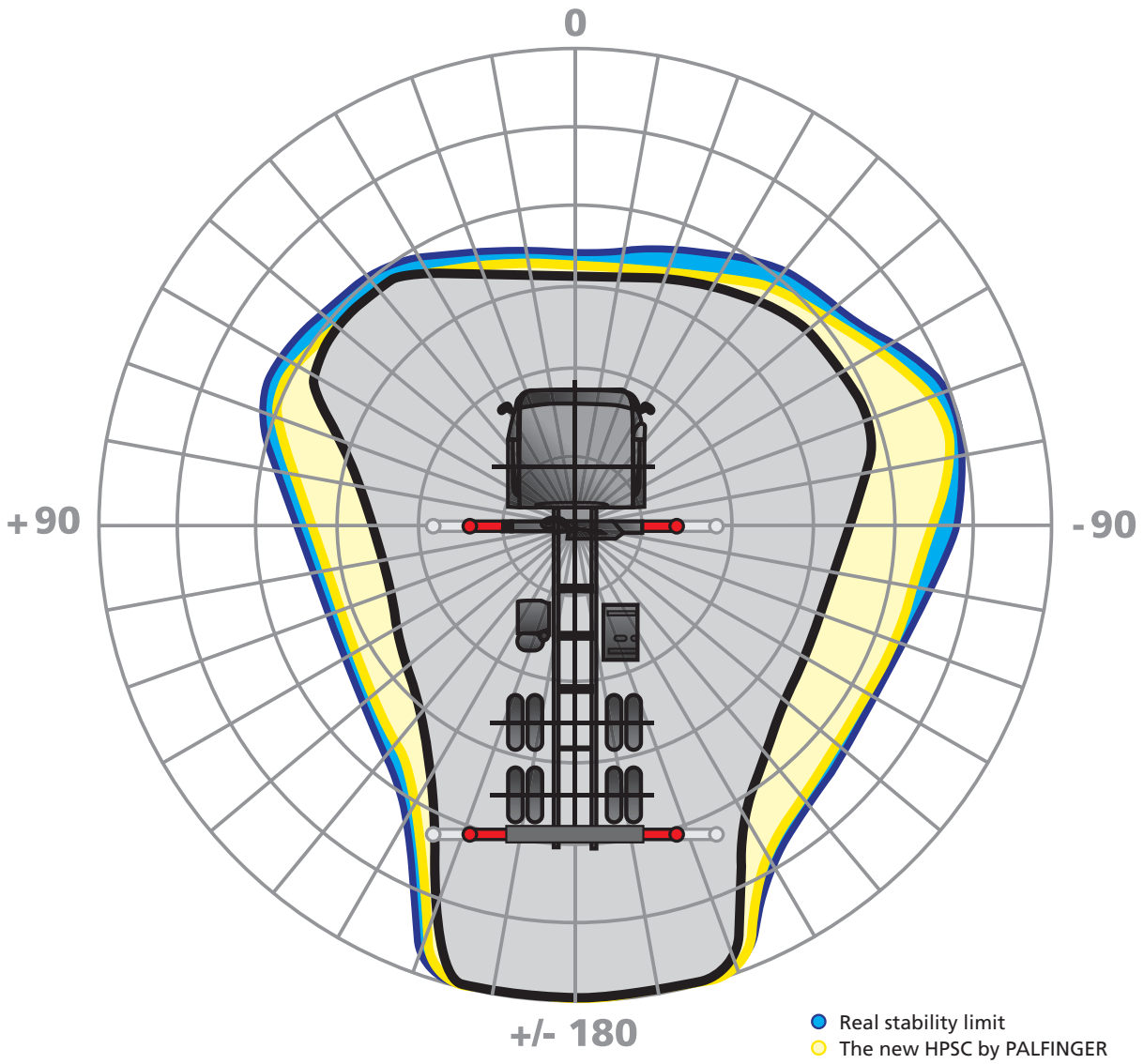
"HPSC" helps the crane operator to achieve maximum comfort and safety even during crane operations where space is restricted. It is often the case in densely built-up areas, in flowing traffic or similar situations that the vehicle can only be supported on one side or it may only be possible to support 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.

HPSC.
Clearly superior to other systems!

KP-HPSCM1+E
E 08/11, K 08/11, D 08/11

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



HPSC
High Performance Stability Control
monitored

The most intelligent stability control system of all times!