

PME700

– demolition working range indicator

SPECIFICATION SHEET



PRO | safe

Functions



STABILITY

Suitable for

- ▶ High-reach demolition excavators

FUNCTIONALITY

PME700 is a fully featured stability system for high reach demolition equipment. It monitors the machine in all planes and warns the operator if stability is compromised. The system provides a “warn-only” function due to the requirements for maintaining machine functionality during demolition operations.

Offered as an OEM machine manufacturers’ option, this system can be modified to incorporate extra sections and tool option recognition to meet the requirements of the customer.

Benefits

- ▶ Multiple boom layouts can be stored
- ▶ Backward stability function
- ▶ “Drop zone” warning function
- ▶ Multiple tools stored with corresponding envelope
- ▶ Upgradeable to include other safety functions or guidance

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PRO
Your safety, your profit, our commitment

PME700

– demolition working range indicator

Standard Features

- ▶ Fully featured stability system including optional monitoring overload on boom pressure
- ▶ Fully compliant with design principles including traceability and SIL levels
- ▶ Data logging capability stores millions of event records for review and feedback purposes
- ▶ Warns the operator of approach to or exceeding a predefined operational envelope limit
- ▶ Pitch and roll sensor to compensate for lack of verticality of tool
- ▶ Fully sealed capacitive touch buttons
- ▶ Indicator for safe movement displayed at limits
- ▶ Real-time display of stability in 2D working envelope
- ▶ Icon driven context specific menus and help functions

Optional features

- ▶ Configure different tools according to need
- ▶ Multiple languages
- ▶ Upgradable to other PME systems
- ▶ External alarm upon approach to safe working range

- ▶ External beacon to provide indication of system state (On/Off)
- ▶ Configurable machine graphic selection
- ▶ Auto zoom feature
- ▶ “Drope zone” indicator to prevent collisions with falling debris

Standards, Tests and Specification

- ▶ Complies with H&S requirements on the machinery directive EN2006/42/EC
- ▶ Designed to meet EN474; BS7262; EN10567; EN13000:2010; EN13844; EN12077; EN62061; EN60204:2006
- ▶ Complies with LOLER requirements for UK lifting
- ▶ EMC EN13309:2010; EN50121-3:2006
- ▶ Tested for vibration, temperature, impact and environmental protection to standards
- ▶ Controller (IO module) tested to IP69k
- ▶ Display tested to IP65
- ▶ Display daylight viewable (650cd/m2)
- ▶ Input voltage 10-32V
- ▶ Power requirements as installed. System off: 2mA; 10V system: 1A; 32V system: 500mA (power

- requirements may vary dependant on hardware configuration)
- ▶ Software design following MISRA development guidelines
- ▶ Operating system independent to ensure SIL2 functionality
- ▶ Operating temperature range -20°C to 65°C
- ▶ Touch button (capacitive) input on display
- ▶ CAN communications protocol
- ▶ M12 connectors
- ▶ USB 2 input for data transfer

Configurator

Item	Description	Suitable for
PME700-2	Demolition stability monitor - 2 piece boom	<ul style="list-style-type: none"> • High-reach demolition excavators
PME700-3	Demolition stability monitor - 3 piece boom	<ul style="list-style-type: none"> • High-reach demolition excavators
PME700-4	Demolition stability monitor - 4 peice boom	<ul style="list-style-type: none"> • High-reach demolition excavators

Consult Prolec to configure systems to specific requirements