

CONTROL MODES NEXT EPSOLUTION

Classic Drive, Master Drive, Hydraulic Cabin and Electric Cabin

PALFINGEREPSILON.COM



STRIPPED BACK TO THE ESSENTIALS

CLASSIC DRIVE — THE LIGHTWEIGHT ALTERNATIVE FROM PALFINGER EPSILON

CONTROL MODES

Precise, easy-to-operate crane control system hinged directly on valve.



JM
Two mechanical joysticks,
two mechanical foot
pedals directly mounted
on valve



4 LMFour mechanical levers, two mechanical foot pedals



5 LMFive mechanical levers, one mechanical foot pedal

STABILIZER CONTROL

Secured by the top seat against unintended activation.



Three levers hydraulically controlled from the top seat



1FMAn additional free function offered by Classic Drive — operation via a directly mounted lever

- Lightweight, robust, tried and tested and reliable
- Distance of seat bucket to controls can be adjusted; seat can be accessed from both sides
- High-quality control valves in single and double-circuit operation for constant pump operation
- EN12999-compliant CE equipment for timber applications (CEH) and recycling applications including high-performance stability control (CERM) available
- External hose guide on crane column without rotary distributor
- Halogen lights as standard; LEDs optional
- Emergency stop, seat contact switch and operating hour counter on top seat

ALIGNMENT OF TOP SEAT



НМ Rear top seat mounted centrally on column



Turned 16° to the left by means of adjustment wedges



Turned 16° to the right by means of adjustment wedges



3

COMFORT PACKAGE



SAFE IN THE SADDLE

MASTER DRIVE THE COMFORT TOP SEAT FROM PALFINGER EPSILON

MULTI-FUNCTIONAL ARMREST

All controls are within reach with the multi-functional armrest.



Changeover switch between crane and stabilizer operation unit, emergency stop, ON/OFF control for stabilizer and ON/OFF control of 1F/2F if selected.



Light control, engine start/stop feature, speed +/-, HPLS ON/OFF if selected, seat heating and signal horn



- Comfortable and ergonomically designed for maximum productivity
- All hydraulic functions routed within crane column via rotary distributor; no hose package positioned on the exterior of the column
- High-quality control valves in single and double circuit operation for constant pump operation as well as single-circuit design for variable pump operation as six-section version mounted on crane column
- Crane operation via ergonomically shaped and servo controlled joysticks
- EN12999-compliant CE equipment for timber applications (CEH) and recycling applications including adaptive high-performance stability control in "Light" (CERHL) or "Full" (CERH) available
- Stabilizer control can be switched ON/OFF from the top seat via electric buttons integrated into the armrests. PVG32 stabilizer valve mounted on slewing cylinder under protective cover
- Comfort package consisting of folding GRAMMER seat with mechanical suspension, adjustable armrests, seat heating, engine start/stop feature, speed +/- (fully cabled up to crane base)
- Seat support can be folded into transport position via pneumatic cylinders, actuated by an electric button on the crane base
- Cable remote control at crane base for stabilizer (KCA) or main boom, outer boom and slewing crane functions (KCHKS) optionally available

CONTROL MODES

Servo controlled joysticks make it easy to work precisely.



JHTwo hydraulic joysticks, two pedals



4LHFour hydraulic linear levers, two pedals



5LH Five hydraulic linear levers, one pedal



EPSHOOD

The newly developed crane operator protection EPSHOOD ensures optimum protection during work. The folding mechanism and technical thermoplastic keep wind, rain and sun away from the operator at all times, ensuring maximum comfort every time.



HORIZONTALLY AND VERTICALLY AIR SUSPENDED COMFORT TOP SEAT

The comfortable, ergonomically shaped seat from the house of GRAMMER including seat heating and weight adjustment options.



MAXIMUM COMFORT AS WELL AS MAXIMUM PROTECTION

CAH CABIN WITH HYDRAULIC SERVO CONTROL FROM PALFINGER EPSILON

CABLE REMOTE CONTROL

Operate the crane comfortably and safely from the crane base.



KCA

Cable remote control at crane base for all stabilizer functions; available with dead man's switch and emergency stop.



KCH

Cable remote control at the crane base for all stabilizer and crane functions (apart from cabin lift); available with dead man's switch and emergency stop. Changeover between stabilizer and crane operation unit included; mode of operation indicated via LEDs.

- All hydraulic functions routed within crane column via rotary distributor
- External hose package on column with electric cables
- High-quality control valves in single and double circuit designs for constant pump operation as well as single-circuit design for variable pump operation as seven-section version mounted on crane column
- Cabin lift can be elevated 1100 mm. ON/OFF control via buttons in cabin
- Stabilizer control can be switched ON/OFF via electric buttons on the cabin operator terminal. PVG32 stabilizer valve mounted on slewing cylinder under protective cover
- Comfort package consisting of seat with pneumatic suspension, RDS radio with CD player, two loudspeakers, interior lighting, windscreen wipers, protective windscreen shutter, adjustable ar seat heating, engine start/stop feature, speed +/- (fully cabled up to crane base) included
- Three LED lights on cabin as standard
- Cabin painted with RAL9003; side door painted with RAL9005
- Front and side door as standard
- Tamtron Standard (TTS) and Tamtron Timber (TTT) weighing system available
- HYDAC vibration damper (SD) for main boom and slewing available
- Yellow warning light on cabin roof (WLG) available
- Water-heating system (WH) with external water hose on column or WEBASTO diesel heating system (DH)
- Air-conditioning system (AC) operated via additional hydraulic function available in combination with variable pump
- One (1F) or two (2F) additional hydraulic functions available at stabilizer valve. ON/OFF operation from the cabin



CONTROL MODES

Servo controlled joysticks make it easy to work precisely.



JH Two servo controlled joysticks



Each with two servo controlled fast pedals



4LH Four hydraulically piloted joysticks

OPERATOR TERMINAL

All functions at a glance clearly arranged in the operator's field of vision.



Tamtron weighing equipment

Notification for 90% utilised capacity, indicator light for inclination, indicator light for main boom and operating hour counter

inergency stop

Crane operation/ _stabilizer operation unit

Windscreen wipers and wash system

12-V socket

-Stabilizer control and cabin lift

Engine start/stop feature and speed +/-

Lighting for cabin and crane

Seat heating and free functions F1/F2

HORIZONTALLY AND VERTICALLY AIR SUSPENDED COMFORT TOP SEAT

The comfortable, ergonomically shaped seat from the house of GRAMMER including seat heating and weight adjustment options.



FOR THE HIGHEST DEMANDS AND MAXIMUM PROTECTION

CAE CABIN WITH ELECTRONIC CONTROL FROM PALFINGER EPSILON

OPERATOR TERMINAL

All functions at a glance clearly arranged in the operator's field of vision.



- All hydraulic functions routed within crane column via rotary distributor
- External hose package on column with electric cables
- High-quality control valve combination consisting of Parker L 90LS and K220 in single-circuit design for variable pump operation as seven-section version mounted on crane column.
- Cabin lift can be elevated 1100 mm. ON/OFF control via joysticks in cabin
- Stabilizer control can be switched ON/OFF via joysticks in cabin. PVG32 stabilizer valve mounted on slewing cylinder under protective cover
- Comfort package consisting of seat with pneumatic suspension, RDS radio with CD player, two loudspeakers, interior lighting, windscreen wipers, protective windscreen shutter, adjustable armrests, seat heating, engine start/stop feature, speed +/- (fully cabled up to crane base) included
- Three LED lights on cabin as standard
- Cabin painted with RAL9003; side door painted with RAL9005
- Front and side door as standard
- HYDAC vibration damper for main boom and slewing as standard
- Tamtron Standard (TTS) and Tamtron Timber (TTT) weighing system available
- Yellow warning light on cabin roof (WLG) available
- Water-heating system (WH) with external water hose on column or WEBASTO diesel heating system (DH)
- Air-conditioning system (AC) operated via additional hydraulic function available in combination with variable pump
- One (1F) or two (2F) additional hydraulic functions available at stabilizer valve.
 ON/OFF operation via joysticks in cabin
- Cabin lift position monitoring system (KLP) available

CABLE REMOTE CONTROL

Operate the crane comfortably and safely from the crane base.



Cable remote control at crane base for all stabilizer and crane functions (except for cabin lift); available with dead man's switch and emergency stop. Changeover between stabilizer and crane operation unit included; mode of operation indicated via LEDs.

CONTROL MODES

Electro-hydraulic joysticks for effortless work



JEMTwo electric
"Mini" joysticks



JEMP Two electric "Mini" joysticks with additional ON/OFF buttons



JELTwo electric
"Large" joysticks



JELP Two electric "Large" joysticks with additional ON/OFF buttons



HORIZONTALLY AND VERTICALLY AIR SUSPENDED COMFORT TOP SEAT

The comfortable, ergonomically shaped seat from the house of GRAMMER including seat heating and weight adjustment options.



EQUIPMENT

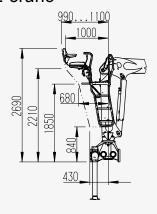
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ESK220E Parker control valve for single circuit operation and electric controls, prepared for variable pump operation.		Parker F130CF control valve for double circuit operation and hydraulic pilot control, prepared for constant pump operation	-	-		-		-		-		-
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HVL Attention: not available in combination with TGR / TUR and KFS! Rear top seat cental mounted on column, by adjustment wedges 16" turned to the left Rear top seat cental mounted on column, by adjustment wedges 16" turned to the right Rear top seat cental mounted on column, by adjustment wedges 16" turned to the right Attention: not available in combination with TGR / TUR and KFS! Z50 FURTHER OPTIONS N7 ATSENITOR: On the addition with a tilt sensor ATSENITOR: Only reading in Germany for CE timber! CP comfort package with seat heating, engine Start/Stop, RPM +/-, complete wired till electric box on crane base IFM one additional free function on CLASSIC DRIVE top seat, operation by directly mounted lever IF One additional free function on PVG32 stabilizer valve, operation by ON/OFF buttons from control stand Additional second function on PVG32 stabilizer valve, operation by ON/OFF buttons from control stand CKCHA Cable control for stabilizer on crane base by ON/OFF buttons from control stand CKCHKS Cable control for stabilizer on crane base by ON/OFF buttons KCH Cable control for CAH cabin for all functions (except cabinifit) on crane base with ON/OFF buttons KCH Cable control for CAH cabin for all functions (except cabinifit) on crane base with ON/OFF buttons KCH Cable control for CAH cabin for all functions (except cabinifit) on crane base with ON/OFF buttons FISH DOD automatic tiltable operator protection. LED 2 In LeD spot lights (2x top seat, 2x spot lights knuckle boom), 2600 Lumen LED 2 In LeD spot lights (2x top seat, 2x spot lights knuckle boom), 2600 Lumen LED 2 In LeD spot lights (2x top seat, 2x spot lights knuckle boom), 2600 Lumen LED 3 In Turnon Standard Weather, weighing device for cabin. Handling via foot pedal on CAE. Tamtron Timber weighing device for cabin. Handling via foot pedal on CAE. Tamtron Timber weighing device for cabin. Handling via foot pedal on CAE. WH Webasto Disse Heating for crane operator cabin. ATC Additional second step for access into cabin To all co			Г	1	_			_			—	
Attention: not available in combination with TGR / TUR and KFS! HVR Rear top seat cental mounted on column, by adjustment wedges 16" turned to the right Attention: not available in combination with TGR / TUL and KFS! N7 ATTENTION: Only required in Germany for CE timber! CP comfort package with seat heating, engine Start/Stop, RPM +/-, complete wired till electric box on crane base IFM one additional free function on CLASSIC DRIVE top seat, operation by directly mounted lever IF One additional free function on PVG32 control valve, operation by ON/OFF buttons from control stand 2F Additional second function on PVG32 stabilizer valve, operation by ON/OFF buttons from control stand Cable control for Atablizer on crane base by ON/OFF buttons from control stand Cable control for main boom, knuckle boom, slewing on the crane base by ON/OFF buttons KCHKS Cable control for Atablizer on crane base by ON, or cable swith ON/OFF buttons KCHCA Cable control for CAL dabin for all functions (except cabnilify) on crane base with ON/OFF buttons KCHCA Cable control for CAL dabin for all functions (except cabnilify) on crane base with ON/OFF buttons CEP SHOOD automatic tiltable operator protection. LED LLED spot lights (EX top seat, 2x spot lights knuckle boom), 2600 Lumen LED 2 X X LED spot lights on knuckle boom. ATTENTION: only for cabline cranes! TTSW Tamtron Standard Weather, weighing decive for MASTER DRIVE. Handling by additional button on joystick/lever. TS Tamtron Standard weather, weighing decive for dabin. Handling via otop deal on CAE. TTT Tamtron Timber weighing device for cabin. Handling via foot pedal on CAE. TTT Tamtron Timber weighing device for cabin. Handling via otop deal on CAE. TTT Tamtron Timber weighing device for cabin. ATTENTION: heated hose routed on exterior of crane column CAC Air condition for cabin crane operator cabin. ACC Air condition for cabin cranes. Air condition is powered by additional hydraulic function.								-		_	_	-
Attention: not available in combination with TGL / TUL and KFS! S50 FURTHER OPTIONS N7 ATTENTION: Only required in Germany for CE timber! CP comfort package with seat heating, engine Start/Stop, RPM +/-, complete wired till electric box on crane base	HVL	Attention: not available in combination with TGR / TUR and KFS!								-		-
ATTENTION: Only required in Germany for CE timber! CP comfort package with seat heating, engine Start/Stop, RPM +/-, complete wired till electric box on crane base IFM one additional free function on CLASSIC DRIVE top seat, operation by directly mounted lever IF One additional free function on CLASSIC DRIVE top seat, operation by ON/OFF buttons from control stand IFM One additional free function on PVG32 control valve, operation by ON/OFF buttons from control stand IFM One additional second function on PVG32 stabilizer valve, operation by ON/OFF buttons from control stand IFM ONE Additional second function on PVG32 stabilizer valve, operation by ON/OFF buttons from control stand IFM ONE Additional second function on PVG32 stabilizer valve, operation by ON/OFF buttons from control stand IFM ONE Additional second function on PVG32 stabilizer valve, operation by ON/OFF buttons from control stand IFM ONE Additional second function on PVG32 stabilizer valve, operation by ON/OFF buttons from control stand IFM ONE Additional second function on PVG32 stabilizer valve, operation by ON/OFF buttons from control stand IFM ONE Additional second function on PVG32 stabilizer valve, operation by ON/OFF buttons from control stand IFM ONE Additional second function on PVG32 stabilizer valve, operation by ON/OFF buttons from control stand IFM ONE Additional second function on PVG32 stabilizer valve, operation should be one of the control for main both stable power for main cylinder and slew in the crane base by ON/OFF buttons IFM ONE Additional second function on PVG32 control by ON/OFF buttons IFM ONE Additional second function for CE timber! IFM ONE Additional s	HVR									-		-
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KCHKS Cable control for main boom, knuckle boom, slewing on the crane base by ON/OFF buttons CABLE CONTROL (Cable control for CAH cabin for all functions (except cabinlift) on crane base with ON/OFF buttons EPSHOOD automatic tiltable operator protection. LED spot lights (2x top seat, 2x spot lights knuckle boom), 2600 Lumen LED 2 x LED spotlights on knuckle boom, ATTENTION: only for cabine cranes! SD Hydac swinging dampers for main cylinder and slewing SLP Substitute hose package TITSW Tamtron Standard Weather, weighing decive for MASTER DRIVE. Handling by additional button on joystick/ lever. TIS Tamtron Standard weighing device for cabin. Handling via foot pedal on CAE. TITT Tamtron Timber weighing device for cabin. Handling via foot pedal on CAE. Handling via additional button on joystick/lever on CAH WH Water heating for crane operator cabin. ATTENTION: heated hose routed on exterior of crane column DH Webasto Diesel heating for crane operator cabin. AC Alir condition for cabin cranes. Air condition is powered by additional hydraulic function.	VCA							4			_	
KCH Cable control for CAH cabin for all functions (except cabinlift) on crane base with ON/OFF buttons				-				+			+	-
EPSHOOD automatic tiltable operator protection. - - - - - - - - -										П	4	
LED LED spot lights (2x top seat, 2x spot lights knuckle boom), 2600 Lumen				_		П				-	\rightarrow	
LED 2 2 x LED spotlights on knuckle boom. ATTENTION: only for cabine cranes! SD Hydac swinging dampers for main cylinder and slewing SLP Substitute hose package TITSW Tamtron Standard Weather, weighing decive for MASTER DRIVE. Handling by additional button on joystick/ lever. TITS Tamtron Standard weighing device for cabin. Handling via foot pedal on CAE. TITT Tamtron Timber weighing device for cabine. Handling by footpedal on CAE. Handling via additional button on joystick/lever on CAH WHH Water heating for crane operator cabin. ATTENTION: heated hose routed on exterior of crane column DH Webasto Diesel heating for crane operator cabin. KLP Cabin lift monitoring for crane operator cabin. AC Air condition for cabin cranes. Air condition is powered by additional hydraulic function. AT2 Additional second step for access into cabin			Г	_				7		-	+	
SD Hydac swinging dampers for main cylinder and slewing - ! - ! - SLP Substitute hose package				_	_			+			_	
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TTT Tamtron Timber weighing device for cabine. Handling by footpedal on CAE. Handling via additional button on joystick/lever on CAH WH Water heating for crane operator cabin. ATTENTION: heated hose routed on exterior of crane column ! DH Webasto Diesel heating for crane operator cabin ! KLP Cabin lift monitoring for crane operator cabin. AC Air condition for cabin cranes. Air condition is powered by additional hydraulic function ATZ Additional second step for access into cabin	TTS	Tamtron Standard weighing device for cabin. Handling via foot pedal on CAE.		-		-						
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KLP Cabin lift monitoring for crane operator cabin				-		-		4		!		
AC Air condition for cabin cranes. Air condition is powered by additional hydraulic function				-		-		+		- !	\neg	
AT2 Additional second step for access into cabin								7	-	T		
				-		-						
=======================================	CSSE	Special sequence control for Scandinavia (Function grab & telescopic arm reversed)									\Box	
WLG Yellow warning light on cabin roof	WLG	Yellow warning light on cabin roof		-		-						

Only equipment relevant for the respective control mode is shown

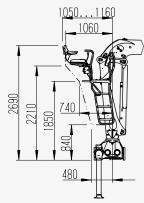
SLEWING RADIUS

Classic Drive (HCDH)

L-crane

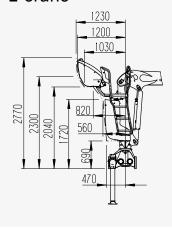


Z-crane

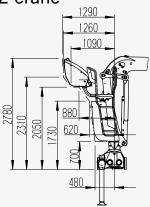


Master Drive (HMDH)

L-crane

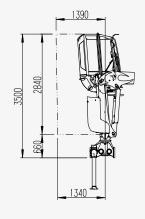


Z-crane

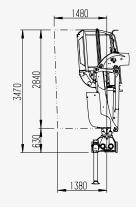


Cabin (CAH & CAE)

L-crane



Z-crane







EPSILON KRAN GMBH

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