PW 32001 | PW 35001-SH



PRODUCT INFORMATION



NEW HIGH PERFORMANCE CRANE MODELS PW 32001 | PW 35001-SH

PALFINGER PW cranes set a benchmark in the material handling industry. Industry leading capacities and service friendly designs offer the highest power-to-weight cranes on the market.

PW 360 - **PW 32001 & PW 35001-SH** (A boom)
PW 380 - (B boom)
PW 400 - (C boom)







TECHNICAL SPECIFICATIONS

The new models incorporate PALFINGER High Performance crane generation features. Serviceability was a core concept in developing the new PW cranes.

PW 32001 (A)	PW 35001-SH (A)
27.8 mt	31.0 mt
201,340 ft. lbs.	224,640 ft. lbs.
43′ 0″	43' 0"
TURNTABLE Bearing	TURNTABLE Bearing
470°	470°
Power Link	Power Link
4,640 psi	5,075 psi
21' 8"	21' 8"
6,742 lbs.	6,742 lbs.
28,910 ft. lbs.	28,910 ft. lbs.
42,700 ft. lbs.	42,700 ft. lbs.
	27.8 mt 201,340 ft. lbs. 43' 0" TURNTABLE Bearing 470° Power Link 4,640 psi 21' 8" 6,742 lbs. 28,910 ft. lbs.

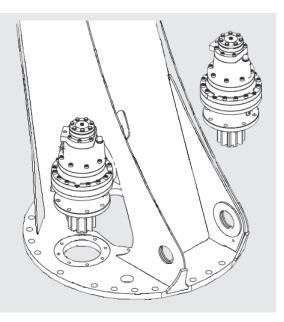
	PW 32001 (B)	PW 35001-SH (B)
Max. Lifting Moment	24.8 mt	27.6 mt
	179,040 ft. lbs.	199,759 ft. lbs.
Max. Hydraulic Outreach	52' 8"	52' 8"
Slewing System	TURNTABLE Bearing	TURNTABLE Bearing
Slewing Range	470°	470°
Linkage System	Power Link Plus	Power Link Plus
Operating Pressure	4,640 psi	5,075 psi
Stabilizer Spread	21' 8"	21' 8"
Weight (FL, R3X, STZS3,4)	7,716 lbs.	7,716 lbs.
Net Slewing Moment	28,910 ft. lbs.	28,910 ft. lbs.
Gross Slewing Moment	42,700 ft. lbs.	42,700 ft. lbs.

	PW 32001 (C)	PW 35001-SH (C)		
Max. Lifting Moment	23.4 mt	26.0 mt		
	168,834 ft. lbs.	188,409 ft. lbs.		
Max. Hydraulic Outreach	61' 0"	61' 0"		
Slewing System	TURNTABLE Bearing	TURNTABLE Bearing		
Slewing Range	470°	470°		
Linkage System	Power Link Plus	Power Link Plus		
Operating Pressure	4,640 psi	5,075 psi		
Stabilizer Spread	21' 8"	21' 8"		
Weight (FL, R3X, STZS3,4)	7,829 lbs	7,829 lbs.		
Net Slewing Moment	28,910 ft. lbs.	28,910 ft. lbs.		
Gross Slewing Moment	42,700 ft. lbs.	42,700 ft. lbs.		

FEATURES

NEW ROTATION SYSTEM

- » Proven TURNTABLE rotation system from the PALFINGER large crane class. Turntable from our 34mt knuckle boom crane.
- » Better durability in poor greasing applications.
- » 51 % increase in slewing torque.
- » Dual drive motors standard.
- » Smooth operation with very low backlash.
- » Minimal movement of hoses in crane column.
- » Ideal hose routing with large radius for increased hose life.
- » Swivel fittings standard at mid-point in column. Prevents hose twisting during slewing. Also allows for easier service.
- » Reduces mounting footprint by 1.8" (45mm). Increased deck space on truck.







NEW

OLD

NEW EXTENSION SYSTEM

Detailed review went into the design of the next generation extension system. Maintenance was the core principal of the design philosophy.







- » New cylinder pack design.
- » New fitting system on cylinder pack.
- » Cylinder pack is easily removed for service by removal of mounting pins only.
- » Maintenance free extension system.
- » Reinforced lifting lug.
- » Outer boom cylinder guard improved to cover radius of piston rod.





NEW OLD

FEATURES CONTROLS

A. RADIO REMOTE CONTROLS

- » Boom specific load chart.
- » Soft grip controls.
- » Prepared for Auxiliary Stabilizers (2x 4 function control valves)
- » NEW: Switch from CRANE mode to OUTRIGGER mode via NEW selector switch (no key required).
- » Bubble level with mirror.
- » Emergency Stop.
- » Available with SCANRECO remote as standard.
- » HKONS Top seat with remote bracket optional.

B. TOP SEAT CONTROLS

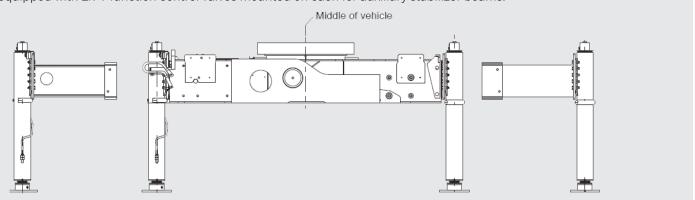
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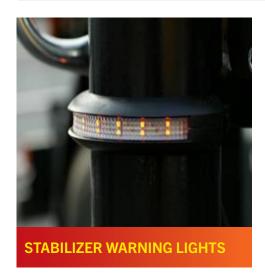




FEATURES SUPPORT

- Hydraulic extendable stabilizer beams standard (R3X) with spread of 21'8".
- Crane equipped with 2x 4-function control valves mounted on each for auxiliary stabilizer beams.





LED warning lights on stabilizer cylin-



The stabilizer plates are tiltable 14° and adjust for optimal ground contact.

PLATES



Stabilizers can be adjusted for optimum ground clearance and penetration.



- 180 degree hydraulic tilting stabilizers (optional)
- Ideal for space savings on installation (tool boxes or oil tank positions)
- Ideal for operators overcoming barriers during crane set-up.

ADDITIONAL FEATURES | OPTIONS

OPTIONAL TRANSPORT SWITCHES

Factory mounted switches to indicate transport postions. Wired to an electrical box for use with an optical or accustic warning signal by installer.

- » Check of boom in transport position switch. (TRAN2)
- » Check of outriggers and stabilizers retracted. (ABSTW)



OPTIONAL ACTIVE OSCILLATION SUPPRESSION (AOS)

- » Loads are held steady, rather than bouncing after abrupt stops.
- » The boom experiences much less shock loading.
- » Novice crane users can operate the crane much smoother and more accurately.
- » Experienced crane users can run the crane faster, with no loss of accuracy.
- » Only available with remote control operation.



U.S. Patent # 6,328,173. Other patents apply.

DOUBLE HOSE CLAMP ON COLUMN

» Improved strength of fastening system with dual clamps on crane column.



- » Hose protection between main and outer boom
- » Prevents premature failure due to abrasion and UV damage.









NEW OLD NEW OLD



NEW MAINTENANCE FREE EXTENSION SYSTEM

- » Industry first Maintenance Free Boom System.
- » High quality automotive style dipped paint process in combination with high quality composite guide pads, offers a one time factory installed grease only.
- » No greasing of the boom extension system required.
- » Smooth operation.
- » Reduced service time and costs.
- » Clean operation and reduces grease dripping on loads.



NEW HOSE TRAY PROTECTION COVER

» Optional - hose tray protection cover available in modern design.



NEW REINFORCED HOSE TRAYS

- Hose trays have been reinforced.
- » Improved strength and more durable.

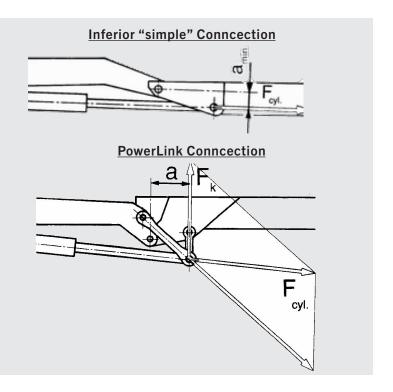


POWERLINK

The PowerLink linkage system is a special connection between the main boom and outer boom used to increase lifting power at awkward boom angles.

A fully unfolded boom with a simple connection suffers from very poor geometry because the distance between the lifting cylinder and hinge points becomes small. This results in a loss of leverage, and the boom loses as much as 70% of its lifting power. The PowerLink system preserves the optimum geometry by keeping the distance between the lifting cylinder and hinge point the same. Lifting power is kept near 100% even when the boom is flat-out.

- » Maximum load can be lifted nearly straight up (load lines)
- » Easier crane operation with constant speed.

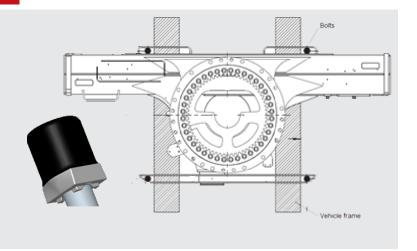


MOUNTING HARDWARE

Standard mounting hardware is 8-bolt kit. (BRI-8)

Optional kits:

- » 8-bolt with coated hardware (rust-free) (BRI-8B)
- » 4-bolt (BRI-4)
- » 4-bolt with coated hardware (BRI-4B)
- » Offers flexibility in mounting configuration.
- » Ideal when chassis components interfere (eg: exhaust, DEF tanks)



COMPETITOR COMPARISON

	COMPETITOR 1	COMPETITOR 2	PW 35001-SH (C)
Crane Weight	11,713 lbs.	N/A	7,829 lbs.
Capacity	2,740 lbs. @ 56' 9"	2,500 lbs. @ 59' 2"	2,620 lbs. @ 56' 9"
			2,505 lbs. @ 59' 2"
			2,450 lbs. @ 61' 0"

FUNCTIONALITY

CRANE HEIGHT

Crane column height has been reduced 4.5" to offset the rising chassis heights. Offering a wider choice in chassis selection.

PAYLOAD

Chassis Payload:

US federal bridge formula with PW 35001-SH (C)

- » 22,700 lbs to 23,250 lbs maximum payload
- » A fully loaded truck could fit 876 sheets of 4'x 8' x 1/2" light-weight board.
- » This load would be 39,250 lbs.

STABILITY

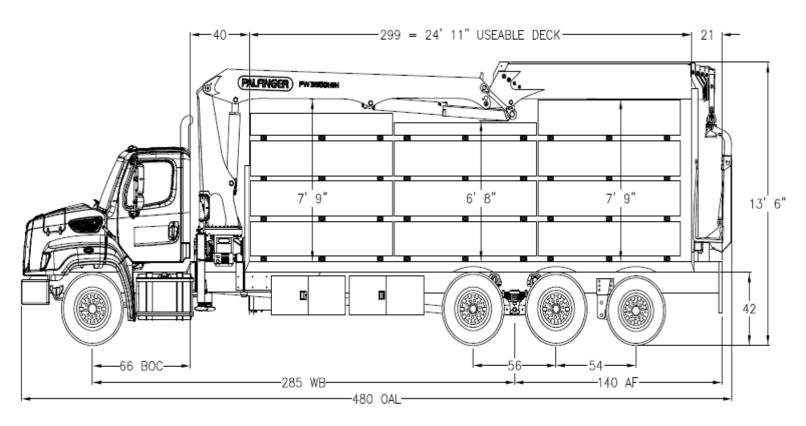
The crane is only as good as the layout and installation. Stability is always at the core of every package.

Example: Freightliner 114SD, 42" height, 20,000 lbs. front, tandem 40,000 lbs. rear with lift.

Subframe & Platform: 24'11" usable platform, 6" subrame, deck cross members build off.

Stability: Chassis unloaded at maximum reach and maximum capacity:

- » 100% stable with BS001 auxiliary stabilizers.
- » 100% stable with 1300 lbs. added in headrest, without auxiliary stabilizers.
- » 90-95% stable without auxiliary stabilizers.





MASTER CLASS: -SH

The most superior control system on the market! The PW 35001-SH crane is controlled by the PALTRONIC 150 control and overload protection system. The following features make this system desired by operator and equipment owners:

- » S-HPLS: automatic +15% capacity with speed reduction
- » Soft-Stop: Main boom, Outer boom and Slewing
- » LCD display on remote handset.
- » Geometry Control: the system automatically reduces load capacities from 60° to 85° angles. In addition, automatically stops increasing boom movement above angles of 85°.





