

Construction Innovation and Technology Fund



Application Guidelines for the Pre-approved Technologies List

Michael Lui

China Ascent Engineering Ltd



Technical specifications EN 12999 HC1 HD5/B3

Max. lifting moment	62.0 mt / 608.0 kNm	448400 ft.lbs
Max. lifting capacity	22000 kg / 215.8 kN	48500 lbs
Max. hydraulic outreach	20.4 m	66' 11"
Max. manual outreach	25.1 m	82' 4"
Max. outreach (with fly-jib)	32.6 m	106' 11"
Slewing angle	continuously variable	
Slewing torque with 1 gear	4.5 mt/44.1 kNm	32560 ft. lbs
Slewing torque with 2 gears	7.0 mt/68,7 kNm	50640 ft. lbs
Stabiliser spread	8,6 m	28' 3"
Fitting space required (std.)	min. 1,56 m/5' 1"	max. 1,71 m/5' 7"
Width folded	2.55 m	8' 4"
Max. operating pressure	365 bar	5293 psi
Recommended pump capacity	from 100 l/min to 120 l/min	26.4 US gal./min 31.7 US gal./min
Dead weight (std.)	5040 kg	11110 lbs

OUR SOLUTION: PALFINGER PK 65002 SH

PALFINGER

- Core Functions:
Technology Adoption
- Technology Used:
 - (1) It complies with latest EN 12999:2011+A2:2018 “Crane – Loader cranes” standard
 - (2) It shall be compiled to Clause 9.2.5 – Crane Standing or supporting conditions - Code of Practice for Safe Use of Mobile Crane, 3rd edition / Labour Department
 - (3) Excellent functions: Continuous Slewing System, Power Link Plus, Low-maintenance extension system, HPSC, S-HPSC PALcom P7, PowerLink cable winch, Functional Design, KTL Coating Technology, AOS, DPS Plus, Soft Stop Function
- Construction Process involved:
Daily Construction Operation that human cannot lift or carry
- Key Improvement in Construction Process:

Safety

HPSC is definitely the system, which is coming closest to reality in comparison to all existing systems on the market. The PALFINGER real data algorithm is here supported by proportional sensors, which offer a fully variable stabilizer positioning.

An stability curve is created, which describes the limits of the stability and at the same time graphically shows the advantages of HPSC in a very clear way.

- Very close approach to the real stability !
- The stability is monitored in an area of 360°.
- In combination with additional stabilizers from Palfinger an efficient overall system is created.
- The sensors are installed inside the outriggers and thus protected against damage, dirt and all kinds of climatic influences.

OUR SOLUTION: PALFINGER PK 6502 SH

Job Reference:

工程名稱 Project Name(s)	種類 Type of project	年份 Year	性質 Nature (試用 Trial / 應用 adoption)	客戶聯絡資料 (電話/電郵) Client contact (Tel. / email)
Logistics support	Contractual lifting job	2016	Adoption	CLP Power Hong Kong Ltd Tsing Yi Depot
Logistics support	Contractual lifting job	2016	Adoption	VINS Transportation Limited +852 - 2713 1713 welltune@gmail.com
Logistics support	Contractual lifting job	2015	Adoption	Welltune Transportation Limited +852 - 2713 1713 welltune@gmail.com
Logistics support	Contractual lifting job	2013	Adoption	Shiu Wing Steel Ltd +852 - 2868 2031 ericng@shiuwingsteel.com
Logistics support	Contractual lifting job	2012	Adoption	Leighton Asia (HK) Limited + 852 2435 7676 kenneth.ho@leightonasia.com



Innovative Features

- Core Technology: latest EN 12999:2011+A2:2018 “Crane – Loader cranes” standard
- Comparison with current practice and popular models:

參數/規格 Parameter/ Specification	此產品 This Product	過往型號 Previous Model	競爭者 Competitor A
產品名稱 Product Name	PK 6502-SH High Performance Loader Crane	PK 37.002 Te2	FR20A.2.28 sbe-dynamic Fast Crane
主要功能 Core Function (主要涵蓋的建造過程 (main construction process involved))	建造過程所用的物料及所產生的廢料的收集及運輸	建造過程所用的物料及所產生的廢料的收集及運輸	建造過程所用的物料及所產生的廢料的收集及運輸
主要規格 1 Key Spec 1	是 Yes <input checked="" type="checkbox"/> / 否 No <input type="checkbox"/> 如是，請證明： If yes, please justify:	2節伸縮，伸縮臂最大外展距離約20.4m	2節伸縮，伸縮臂最大外展距離約21.8m
主要規格 2 Key Spec 2	是 Yes <input checked="" type="checkbox"/> / 否 No <input type="checkbox"/> 如是，請證明： If yes, please justify:	可加裝「夾斗」	可加裝「夾斗」
主要規格 3 Key Spec 3	是 Yes <input checked="" type="checkbox"/> / 否 No <input type="checkbox"/> 如是，請證明： If yes, please justify:	可同時裝「圍保斗」一會安裝在載具上	可同時裝「圍保斗」一會安裝在載具上
主要規格 4 Key Spec 4	是 Yes <input checked="" type="checkbox"/> / 否 No <input type="checkbox"/> 如是，請證明： If yes, please justify:	可以獨立運作，不需要額外配備搬運工人、設備以及圍保斗車	不可以獨立運作，需要額外配備搬運工人
主要規格 5 Key Spec 5	是 Yes <input checked="" type="checkbox"/> / 否 No <input type="checkbox"/> 如是，請證明： If yes, please justify:	適合安裝在3噸(34GVW) 或4噸(39GVW) 貨車上	適合安裝在3噸(34GVW) 或4噸(39GVW) 貨車上
主要規格 6 Key Spec 6	是 Yes <input checked="" type="checkbox"/> / 否 No <input type="checkbox"/> 如是，請證明： If yes, please justify:	自帶一拖運腳，比過往型號帶力大於2.8倍	NIL
主要規格 7 Key Spec 7	是 Yes <input checked="" type="checkbox"/> / 否 No <input type="checkbox"/> 如是，請證明： If yes, please justify:	可安裝於內置吊車，由鋼【預制件】之製成材料 (Modular and prefabricated buildings)	NIL
	是 Yes <input checked="" type="checkbox"/> / 否 No <input type="checkbox"/> 如是，請證明： If yes, please justify:	若果安裝在4噸(39GVW) 貨車上，載運高度100公釐，即可自行吊起預制件 (Modular and prefabricated buildings) 並運送到工地，一舉兩車完成。	NIL

OUR SOLUTION: PALFINGER PK 65002 SH



Adoption Example

- Project for Illustration: : Logistics support
- Work Process: Contractual lifting job
- Year 2015
- Welltune Transportation Ltd / +852-2713-1713



Adoption Example

- Project for Illustration: Logistics support
- Work Process: Contractual lifting job
- Year 2016
- CLP Power



OUR SOLUTION: PALFINGER PK 65002 SH

PALFINGER

Adoption Example (after 2019)

- Project for Illustration: : Logistics support
- Work Process: Contractual lifting job
- Year 2021
- Elevate Crane Truck Services



Adoption Example (after 2019)

- Project for Illustration: Logistics support
- Work Process: Contractual lifting job
- Year 2021
- Elettromeccanica F.Ili Proietti



OUR SOLUTION: PALFINGER PK 65002 SH

PALFINGER

Adoption Example (after 2019)

- Project for Illustration: : Logistics support
- Work Process: Contractual lifting job
- Year 2020
- Industrial Building Cleaning & Maintenance
<https://www.groupevincent.fr/>



Adoption Example (after 2019)

- Project for Illustration: Logistics support
- Work Process: Contractual lifting job
- Year 2021
- Tom Ryan Cartage



OUR SOLUTION: PALFINGER PK 65002 SH

PALFINGER

Benefits – Safety

- Improve Safety by:

- safety tracking/ detection and warning

HPSC is definitely the system, which is coming closest to reality in comparison to all existing systems on the market. The PALFINGER real data algorithm is here supported by proportional sensors, which offer a fully variable stabilizer positioning.

- dangerous work/ working environment eliminated

An stability curve is created, which describes the limits of the stability and at the same time graphically shows the advantages of HPSC in a very clear way.

- manual handling eliminated/ reduced

Excellent functions: Continuous Slewing System, Power Link Plus, Low-maintenance extension system, HPSC, S- HPSC PALcom P7, PowerLink cable winch, Functional Design, KTL Coating Technology, AOS, DPS Plus, Soft Stop Function

PALFINGER LIFETIME SERVICE