

**EAST WEST ENGINEERING**  
**INSTRUCTION MANUAL**

**Type CKV25 & CKV50**  
**CONCRETE KIBBLES**

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**ALL EAST WEST CONCRETE KIBBLES CONFORM TO**  
**AS 1418.1 – 2004, AS/NZS 1554.1:2011, AS 2550.1 – 2011,**  
**AS 2359.1 – 1995, AS 2359.2 – 2013 & AS 3990 – 1993**



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## 1) QUALITY POLICY STATEMENT

East West Engineering is an Australian Owned company in the Sydney suburb of Brookvale. We are Australia's leading manufacturer of forklift attachments, storage, waste containers and environmental protection equipment.

East West Engineering's products are a result of extensive market research into our customer's needs. From the first concept to engineering certification and finally, CAD/CAM manufacturing, all our designs have been rigorously researched and developed.

## 2) GENERAL DESCRIPTION OF PRODUCT

The type CKV25 & CKV50 Concrete Kibbles are suitable for bottom dumping of concrete or equivalent material. The Remote operation allows an unobstructed view by the Operator of the material pour. The gate has been designed for a close fit around the kibble aperture. Forklift pockets have been provided for transport about the work site without load. The interior of the kibble has a smooth surface allowing for easy discharge and quick cleaning.

The type CKV25 Concrete Kibble has a Working Load Limit (WLL) of 6Ton and a unit weight of 1010kg with a capacity for 2.1 cubic metres of material. The type CKV50 Concrete Kibble has a Working Load Limit (WLL) of 12Ton and a unit weight of 1900kg with a capacity for 5.1 cubic metre of material. A painted enamel finish is standard on both types.

Design of type CKV25 & CKV50 Concrete Kibble attachments<sup>1</sup> are in accordance with AS 2550.1 and AS 1418 where relevant. Use of the type CKV25 & CKV50 Concrete Kibbles are restricted to the purpose for which they are designed. EAST WEST ENGINEERING is not liable if this restriction is breached.

Some attachments are manufactured as "Specials" from this standard product. In this situation, design changes may alter the operating procedures for the Special attachment.

If your product type begins with the prefix "J", it will be a Special. Please check with East West Engineering for non-standard instructions specific for your attachment.

Note: The use of the words 'Forklift' & 'Industrial Truck' throughout these instructions both refer to 'Powered Industrial Truck' as defined in AS 2359.1.

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<sup>1</sup> Crane attachments cover the following Crane, Hoists and Winches. Bridge, Gantry and Portal cranes, Tower static and mobile Cranes. Hoists of the Chain, Cylinder, Scaffolding and Wire rope types. Winches of the Creeper, Drum, and Trolley type.

## Type Data

To accurately identify the Concrete Kibble and when ordering parts, please quote the *Type* and *Serial Number*. This information can be found on the compliance plate situated on the Kibble. Please refer *Fig 8.1* and *Table 8.2*, codes "A" and "B" for more information.

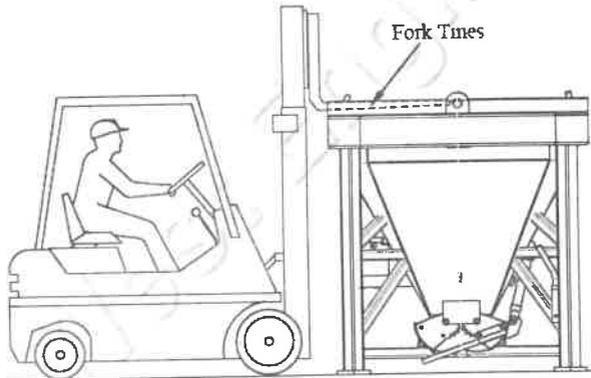


**WARNING:** These Instructions **MUST** be **READ** in **FULL** by the **Crane/Forklift Operator & all Crane Personnel** and all **Operational & Safety Procedures** and **Risk Control Measures** complied with before the use of this Attachment.

## 3) **METHOD OF ATTACHMENT**

### Forklift attachment procedure

Before handling the Concrete Kibble with a Forklift, ensure that the fork arms are suited to the attachment and set to a width that ensure stability of the load.



*Fig. 3.1 (type CKV25 shown)*

To ensure the Concrete Kibble stays on the fork tines when elevated, always back tilt the Forklift mast.

### Crane attachment procedure

A qualified person shall operate the crane and the Concrete Kibble shall be hoisted in a safe manner.

When a crane is used to hoist the Concrete Kibble, attach a Four-leg lifting chain to each of the lifting lugs as shown in *Fig. 3.2* below. Ensure that the sling length provides a maximum leg angle of 60°. If fitted, consult the chain data plate regarding the number of leg slings and maximum angle of the chain sling.

When engaging or disengaging the crane hook, ensure the crane attachment chains are not twisted or tangled. Use of a single fall rope to hoist the crane attachment, may allow the hook to spin and create a dangerous situation. Do not allow the crane hook to rest on or in the Concrete Kibble, Keep the Concrete Kibble in an upright position at all times.

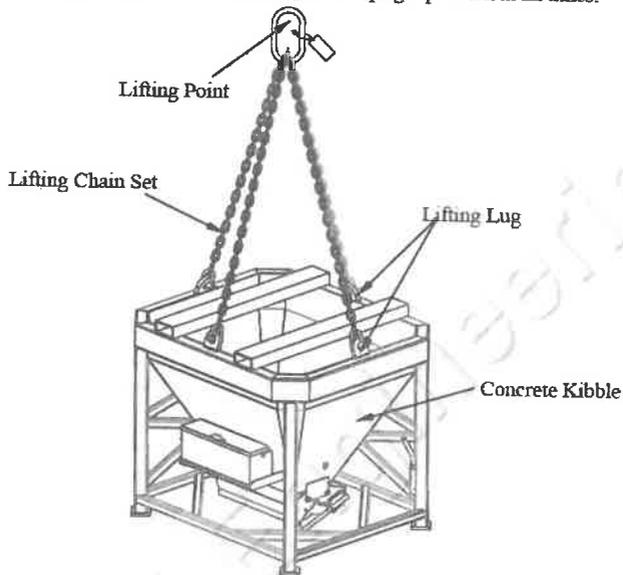


Fig. 3.2 (type CKV25 shown)

#### 4) OPERATIONAL AND SAFETY PROCEDURES

##### Preliminary Safety Checks

A "Competent Person" shall inspect all components on the Concrete Kibble and Crane to ensure they are in safe working order. Do not use the Concrete kibble if any of the components are damaged or not in safe working condition. A "Competent Person" shall inspect the lifting slings, lifting Lugs, Gate mechanisms and chains daily to ensure that they are in safe working order.

The Operator shall check that the Concrete Kibble has been correctly fitted in accordance with these Instructions (refer Section 3), and/or the relevant Crane or Industrial Truck Operator's Manual depending on the operation to be carried out.

All signage must be strictly adhered to and checked to ensure that the compliance plate is not damaged and is legible.

##### General Operating and Safety Procedures

The use of the Concrete Kibble shall be limited to those situations for which it is specifically designed and in accordance with AS 2550.1. All lifting equipment used must meet the relevant Australian Standards including AS 3990.1, AS 3775 and AS 3776.

All operating checks as stated in Section (5) below and as stated in AS 2550.1 and/or AS 2359.2 are to be carried out at the start of shifts or immediately prior to the lifting of loads.

Forklift attachments can alter load centres and reduce the load capacity. The type of load to be handled in addition to the operating conditions must be considered when determining the actual working capacity for each application.

Do not exceed the recommended Crane, Forklift or Concrete Kibble rating.



**WARNING:** Any WLL noted on the Concrete Kibble is a structural rating of the attachment only and makes no claim to the suitability of the Crane/Forklift. Actual load may be restricted to the suitability of the Crane/Forklift. Actual rated working load of the Crane must be obtained from the Crane manufacturer. Actual Forklift capacities must be obtained from the Forklift manufacturer.

Before the Concrete Kibble elevates any load, the Operator shall lift it to the required working height to confirm that all systems function correctly.

Ensure all Risk Control Measures, as outlined in Section (5) and detailed in Appendix A, are complied with before hoisting the Concrete Kibble by Crane or before lifting the Kibble using an Industrial Truck.

East West Engineering Concrete Kibbles shall not be modified in any way which affects the operation or performance except with the prior approval of East West Engineering. After any changes have been affected, appropriate alterations shall be made on the relevant nameplate and markings prior to placing the Concrete Kibble back into service. East West Engineering must be notified of the changes to nameplates and markings with reference to the Concrete Kibble serial number.

#### Operating Instructions

The Concrete Kibble shall normally be operated and have its movements directed by a competent person with a 'WorkSafe' Dogging or Rigging Certificate.

Before loading any material into the Concrete Kibble, ensure the Discharge Gate is fully closed and the Kibble is directly over the dumping site before opening the Discharge Gate.

To open the Discharge Gate, Push both open buttons on the wireless remote, closing the Gate by pushing close button on the wireless remote, when enough material has been poured. Flow control of the material is achieved by the amount the Discharge Gate is opened.



**WARNING:** The concrete **MUST BE released gradually** from the Kibble to prevent the formwork from being overloaded and risking structural damage. The sudden release of concrete from the Kibble may also make the Crane boom whip upwards causing the Kibble to bounce dangerously.

The Concrete Kibble is not designed or certified to convey Personnel. The Operator to ensure that **NO PERSONNEL** rides on or in the Kibble at any time.

The Concrete Kibble must be thoroughly cleaned prior to and after operational use.

## 5) RISK CONTROL MEASURES – SUMMARY

When handling loads, the Risk Control Measures outlined below in Sections 5.1 (for Crane Operations), 5.2 (for Forklift Operations) and 5.3 are to be observed by the Crane/Forklift Operator and Crane Personnel to ensure all identified hazards relative to using this equipment are eliminated or controlled – refer Appendix A for a detailed analysis;

### 5.1 Risk Control Measures – Crane Operations

- A) The Crane Operator's qualifications must conform to the requirements of the relevant regulatory authority. Where applicable, the Crane Operator shall hold a certificate of competency. To operate a particular Crane, the Operator must be authorised by a responsible representative of the Crane used or hiring contractor. Training in the safe use of the Concrete Kibble shall be undertaken before usage. The Crane Operator must not work the Crane unless they are physically and mentally capable. This is in accordance with AS 2550.1 clause 6.2.
- B) Authorised personnel must perform the following pre-checks on the Crane in accordance with the operating manual before the Crane is placed into service. Typically, Crane pre-checks as stated in AS 2550.1 Appendix G covers the following;
- Oil level, fuel levels and lubrication,
  - Condition of ropes, rope terminals, fittings & anchor points, rope drums and sheaves
  - Condition and pressure of tyres where applicable,
  - Drain all water from air reservoirs,
  - Structural checks for loose, damaged or cracked components that may be indicated by rust marks, flaking or marked paint,
  - Check the security and application of counter weights,
  - Load moment system, where fitted is correctly set,
  - Indicator appropriate to the boom or fly-jib length is correctly fitted,
  - Cleanliness of cabin – is it free from grease, oil, rags, tools etc.,
  - Pneumatic and hydraulic systems and their safety devices operate correctly,
  - Operation of the Crane through all motions with particular attention to brakes,
  - Operation of all limit switches, cut out and safety devices.
  - Communications equipment is working correctly and clearly loud enough to be heard,
  - All fire extinguishers are placed in the correct position and are suitable for the particular application and are in working order.

- C) In conformance with AS 2550.1 clause 6.1, the operator shall review the logbook where applicable and be satisfied about the presence of unauthorised personnel on the crane, safe working condition of the crane and safe operation of each of the crane movements. Authorised personnel must carry out any adjustments or alteration needed for safe operation.
- D) Any stabilisers shall be engaged prior to lifting.
- E) Do not exceed the rated working Load of the Crane.
- F) Ensure that all movements of the Crane are carried out under power.
- G) **Do NOT** move the Crane/Kibble unless the safety of persons in the vicinity of the Crane is assured. Be alert to the possibility of trapping or injuring persons in the vicinity of the Crane when handling loads or moving the Crane.
- H) Unless a dangerous situation occurs, follow directions and signals given by an authorised person. Cease any Crane movement if a dangerous situation occurs.
- I) The Operator shall hoist the load vertically and in a smooth manner at slow speeds with minimum acceleration and deceleration.
- J) Sudden stops, jerky or other movements that may cause the load to swing unduly must be avoided. Ensure minimum impact when Crane engages 'end stops'.
- K) Movement of hook/Kibble when out of sight is only permissible when directed by an authorised person such as a dogman, Crane chase spotter or rigger.
- L) The hook/Kibble must be raised sufficiently to avoid collision during horizontal movement. Only when the load is freely suspended is horizontal movement permissible.
- M) When landing the Kibble, avoid developing rope slack.
- N) The Operator must know the location of the main isolation switch and Fire fighting equipment.

## 5.2 Risk Control Measures – Forklift Operations

- A) The Industrial Truck Operator requires a suitable Forklift licence to cover both the Industrial Truck being operated and any attachment that has been fitted. Training in the safe transport of the Concrete Kibble shall be undertaken before usage.
- B) Authorised personnel must perform the following pre-checks immediately prior to the use of the Industrial Truck in accordance with AS 2359.2 Clause 3.1 and 6.4 and corrective action initiated where applicable;
  - Nameplate and markings regarding the Industrial Truck and Attachment capacities are to be read and acknowledged.
  - Condition of lift and tilt systems on the Industrial Truck to be checked,
  - Inspect all tyres for wear, condition and pressure if applicable.
  - Liquid levels of battery cell electrolyte, oils (hydraulic, engine, transmission and brake), cooling water and fuel to be checked,
  - All steering and brake controls, warning devices and lights to be checked for effective operation.
- C) Do not exceed the rated capacity of the Industrial Truck to handle the load.
- D) The Industrial Trucks shall be used on a hard level surface. The area in which the Kibble is to be used shall be assessed as suitable for the task to be undertaken. There should be suitable clear space to safely transport the Kibble and a system developed for handling the load.
- E) Manoeuvre slowly and cautiously when the Kibble is elevated.
- F) Transport the Kibble positioned as low as practicable.
- G) The mast if adjustable shall be back tilted.

- H) Never drag the Kibble horizontally along the ground.
- I) The Operator shall keep hands and feet clear of controls other than controls in use.
- J) Ensure safety features are provided, visible and working effectively.

### 5.3 Risk Control Measures – General Operations

- A) The Concrete Kibble shall normally be operated and have its movements directed by a competent person with a 'WorkSafe' Dogging or Rigging Certificate.
- B) Gain assurance from a responsible person that the Kibble and/or load may be handled safely and that person has provided all information necessary to ensure that risks are eliminated or controlled.
- C) While lifting in an area subject to passing traffic, barriers or warning signs shall be used to prevent any interference.
- D) The Operator shall check the Kibble is securely attached, refer Section (3).
- E) The Operator to ensure the Kibble Discharge Gate has been securely shut before pouring any material into the Kibble, or transporting or lifting the Kibble.
- F) The Operator to ensure the Kibble Chute has been secured in its storage/upright position by the anchor chains prior to transport or lifting of the Kibble.
- G) The Kibble Operator to ensure the Kibble and/or Kibble Chute has been positioned directly over the dumping site prior to opening the Discharge Gate – flow control is achieved by the amount the Discharge Gate has been opened.
- H) The Kibble Operator **MUST be made aware** of the need to release the concrete gradually from the Kibble to prevent the formwork from being overloaded and risk structural damage.
- I) The Kibble Operator **MUST be made aware** that the sudden release of concrete from the Kibble may make the Crane boom whip upwards causing the Kibble to bounce dangerously.
- J) **The Concrete Kibble is not designed or certified to convey Personnel.** The Operator to ensure that **NO PERSONNEL rides on or in the Kibble at any time.**
- K) The Operator shall stay with the Crane/Industrial Truck controls at all times.
- L) The Operator shall keep clear of overhead obstructions and in particular **MAINTAIN RELEVANT CLEARANCE OF ELECTRICAL CONDUCTORS.**
- M) Before any load is hoisted, the Operator shall lift the Kibble unladen to the required working height to confirm that all systems are functioning correctly.
- N) The Kibble Operator to ensure the unit is thoroughly cleaned after completion of operational use.
- O) Ensure there has been no unauthorised interference or alteration to the equipment that may cause risk.
- P) Ensure regular maintenance, testing and inspections are carried out and recorded in accordance with the relevant Crane and/or Industrial Truck Manuals and these instructions (refer Section 7), and corrective action initiated where applicable.
- Q) Ensure the instructions of East West Engineering are followed.
- R) If any of the equipment becomes unsafe, stop all usage until the risk is eliminated or controlled.



**WARNING:** Failure to observe the above Risk Control Measures and those outlined in Appendix A could result in **SERIOUS INJURY or DEATH.**

6) PARTS LIST

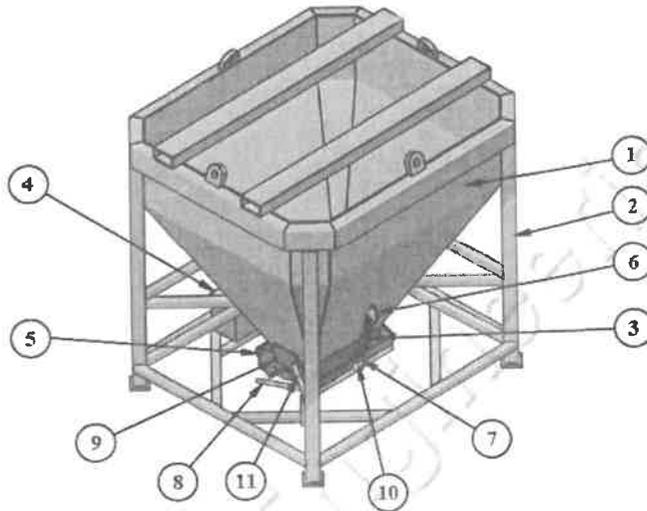


Fig. 6.1 (type CKV25 shown)

Item	Description	CKV25	CKV50
1	Hopper Assembly	CKV25-04	CKV50-04
2	Kibble Frame Assembly	CKV25-02	CKV50-02
3	Hydraulic Cylinder	SLM_2" x 8" Hydraulic Cylinder	SLM_2" x 8" Hydraulic Cylinder
4	Battery Box Assembly	BP-01	BP-01
5	Pouring Chute Assembly	CKV25-05	CKV50-05
6	Upper Cylinder Plate	CKV25-16	CKV50-16
7	Lower Cylinder Plate	CKV25-17	CKV50-17
8	Handle Assembly	CKV50-11	CKV50-11
12	Metric Bolt (G8.8), Washer & Nyloc Nut	M18 x 65 Long	M18 x 65 Long
13	Metric Bolt (G8.8), Washer & Nyloc Nut	M20 x 65 Long	M20 x 65 Long
14	Metric Bolt (G8.8), Washer & Nyloc Nut	M20 x 50 Long	M20 x 50 Long

Table 6.2

## 7) MAINTENANCE

Regular maintenance including Testing, Inspection and Cleaning should be carried out on the Kibble to reduce the risk of potential hazards arising. In particular, thorough cleaning after operational use is a must to prevent the Discharge Gate, Handle and/or Chute from jamming as well as making identification of damage easier. The Kibble should be cleaned and visually inspected by a "Competent Person" under adequate lighting conditions, before each shift, to ensure all components are functioning correctly and are free from any noticeable wear or damage, particularly at any load bearing or highly stressed points. If components are considered worn or damaged, or if safety charts or labels are damaged or illegible, the Kibble should be taken out of service and East West Engineering or an "Authorised Person" contacted for advice. Periodic testing may be required if any damage is noted, as this could be an indication of abuse or overloading. Keep maintenance records to ensure safety checks are carried out.

## 8) COMPLIANCE PLATE INFORMATION

<b>EAST WEST ENGINEERING</b>					
22 CLEARVIEW PLACE, BROOKVALE NSW AUSTRALIA					
PHONE: (02) 9938 0844 FAX: (02) 9938 0855					
TYPE	"A"		WEIGHT	"D"	kg
YM	"B"		SERIAL No.	"E"	
WLL	"C"	kg	VOLUME	"F"	m <sup>3</sup>
THE CAPACITY OF THE CRANE AND ATTACHMENT COMBINATION SHALL BE COMPLIED WITH.					

Fig. 8.1

A	Product Type	Refer "A", Table 8.2
B	Year of Manufacture	Individually stamped
C	Working Load Limit	Refer "C", Table 8.2
D	Dry Weight of the unit	Refer "D", Table 8.2
E	Serial Number	Individually stamped
F	Volume	Refer "F", Table 8.2

COMPLIANCE PLATE MARKING						
Type	"A"	"B"	"C"	"D"	"E"	"F"
CKV25	CKV25	YM	6000	1010	Serial No	2.1
CKV50	CKV50	YM	12000	1900	Serial No	5.1

Table 8.2

9) CERTIFICATION INFORMATION

## Certificate

### Type CKV25 & CKV50 Concrete Kibbles

We certify that the type CKV25 & CKV50 Concrete Kibbles are rated to 6000kg & 12000kg Working Load Limit (WLL) respectively and are designed and fabricated strictly in accordance with relevant Australian Standards including those listed below –

AS/NZS 1554.1: 2011	Structural Steel Welding – Welding of Steel Structures
AS 1418.1 – 2004	Cranes – General Requirements
AS 2550.1 – 2011	Cranes – Safe Use, General Requirements
AS 2359.1 – 1995	Powered Industrial Trucks – General Requirements
AS 2359.2 – 2013	SAA Industrial Truck Code – Operation
AS 3990 – 1993	Mechanical Equipment – Steelwork
AS 4991 – 2004	Lifting Devices

Signed on behalf of EAST WEST ENGINEERING,

  
Ron King  
**MANAGING DIRECTOR**

## 10) TERMS OF TRADE, CONDITIONS OF SALE AND WARRANTY STATEMENT

1. East West Engineering (EWE) products are to be used only as indicated. Misuse or misapplication may cause failure resulting in possible property damage or bodily injury.
2. It is the obligation of the user to ensure EWE products are used in accordance with appropriate Codes and System requirements.
3. All liability for EWE products performance is disclaimed and the warranty will be voided if any of the following conditions exist:
  - 3.1) the product is used beyond the published or stated rate load limit. Note: all ratings are for static conditions and do not account for dynamic loading such as wind, water or seismic loads,
  - 3.2) the product is not properly installed per published or stated instructions,
  - 3.3) the loading to the product is not vertical,
  - 3.4) the product is deformed or stressed in any way during fitting or installation,
  - 3.5) the product is used in a corrosive environment.
4. All safety regulations required by the user must be observed.
5. EWE products at the time of dispatch are warranted to be free of defects in material or workmanship. **NO OTHER WARRANTY EXPRESSED OR IMPLIED SHALL EXIST IN CONNECTION WITH THE SALE OR USE OF EWE PRODUCTS.** Claims for errors, shortages, defects or non-conformities ascertainable upon inspection must be made in writing within 15 days after buyer's receipt of products. All other claims must be made to EWE within 12 months of the date of shipment for products hydraulically operated and within 12 months for products without hydraulics. Products claimed nonconforming or defective must upon EWE's request promptly be returned for inspection. Claims not made as provided above and within the applicable time period will be barred. EWE shall in no event be responsible if the products have not been used in accordance with the specifications and/or recommended procedures. EWE will, at its option either repair or replace nonconforming or defective products for which it is responsible or return to buyer their purchase price. The foregoing states buyer's exclusive remedy for any breach of EWE warranty and for any claim, whether sounding in contracts, tort or negligence for loss or injury caused by the sale or use of any product. Without limiting the generality of the foregoing EWE shall in no way be responsible for any loss of business or profits, downtime or delay, labour, repair or material cost or any similar or dissimilar consequential loss or damage incurred by the Buyer.
6. Examine goods immediately upon receipt and advise any damage or shortage to carriers and ourselves within 15 days, otherwise no claim whatever will be considered. Provided advice is given within the prescribed time, we will make good any shortage and will repair or replace free of charge goods damaged in transit where we are responsible for delivery of the goods.
7. If goods are not received within 14 days from receipt of invoice please advise us in writing.
8. If any error is discovered in this invoicing please notify supplying branch at once for correction.
9. Property and Payment – By acceptance of delivery and retention of the goods it is acknowledged that the property of the goods remains with EWE and that legal title thereto will not pass until payment is made but that nevertheless the goods are at your risk after delivery. In the event that payment is not made within 30 days of delivery, or other agreed terms, full licence and authority is given to EWE to enter any premises where the goods are stored and to recover possession of them. In the event of the sale of the goods prior to payment, the proceeds of sale belong to EWE.
10. Terms of Payment – Unless credit has been arranged strictly net cash; if credit has been arranged payment must be made by the 25<sup>th</sup> day of the month, following the month appearing in the date on the front of this invoice.
11. East West Engineering reserves the right to alter specifications, designs and price without notification