



# KKB ENGINEERING BERHAD

(26495-D)



Cert. No. 401125



“SUPPLIER OF FIRST CHOICE”

## Vision

A successful and diversified steel related international business enterprise.

## Mission

1. To be "Supplier of First Choice" of Customers.
2. To have consistent "Fair and Equitable Return of Investment" for Shareholders.
3. To progress through continuous advancement on Technology, Innovation and Training.
4. To be "A Preferred Place of Work" of Employees.
5. To be a good Corporate Citizen, who is committed to a high standard of protection of Health, Safety and Environment (HSE) at all time.

## Experience, Expertise And Technological Excellence

KKB Engineering Berhad (KKBEB), a public company listed on the 2nd Board of the Kuala Lumpur Stock Exchange, is one of Malaysia's specialized engineering and manufacturing companies. With a dedicated and strong workforce of some 450 personnel comprising engineers, technicians and support, the company offers a diversified range of products and services to cater for the present activities of KKBEB Group as follows:

1. Steel Fabrication
2. Civil Construction
3. Hot-Dip Galvanising
4. LPG Cylinders Manufacturing
5. Steel Drum Manufacturing
6. uPVC Roofing Sheets Manufacturing
7. Steel Pipes Manufacturing



## LPG Cylinders Design And Manufacturing

KKBEB's modern plant is semi-automated in order to achieve a higher degree of productivity and quality finished cylinders. Finished cylinders can be supplied complete, either with Compact or POL valves. KKBEB achieved ISO 9001 Certification by Lloyd's Register Quality Assurance (United Kingdom) for Design and Manufacture of LPG Cylinder since 1996 and has continuously strived towards technological advancement.

Teamwork is the philosophy and the main focus of our production and business success. A combination of experienced Managers, skilled engineers, material controllers, quality control personnel and supervisors, working together to achieve efficiency and a high quality product on time for all customers.



## Manufacturing Process Highlights

- KKBEB's Cylinders are manufactured from hot-rolled steel coils by automated Zig-Zag Blanking process so as to achieve a greater consistency and quality material preparation.
- PLC Controlled Deep Drawn Press manufactures upper and lower domes.
- PLC Controlled Trimming and Jogging machine trims and joggles upper and lower domes with consistent quality and output.
- Heat treatment is carried out in continuous furnaces thereby ensuring uniform and controlled treatment.
- All attachment weldings are done using Metal Inert Gas (MIG) process for better weld quality using Artificial Intelligent Robot for consistent output and non-stop welding.
- 100% Hydrostatic Testing is carried out automatically on all cylinders using testing equipment to detect any weld and surface leak by trained operators, quality control and inspection.
- Surface preparation for Zinc coating is done on an automated grit blasting machine using airless centrifugal impeller type grit blasting process for better cleanliness and surface roughness.
- The zinc spray metallizing process is carried out through a controlled and automated process for a more uniform spray and better adhesion quality.
- Primer and finish paint used are of stoving oven quality type with specification for better hardness and abrasion resistance.
- Valves are fixed onto finished cylinders using an automatic valving machine for greater reliability whilst achieving safety consideration.
- 100% Pneumatic testing is carried out to detect any leak between bung and valve thread, weld leak and leak from the safety-relief portion of the valve .
- The 100% weighing of the empty cylinder is carried out using calibrated and approved machine for greater tare weight requirement and accuracy.
- All Logo and Markings are done aesthetically by spraying, silk screening or stenciling processes for better clarity and aestheticity.



Deep-Drawing Process



Trimming and Jogging Process



Robotic Welding Process (MIG) by Artificial Intelligent Robot.



Automatic Cir-Seam Welding Process by Sub-Merged Arc Welding

## Quality Control

All LPG cylinder which bears "kkb" logo undergo a stringent, systematic quality control process on in-coming material, in-process checking, testing and final inspection before dispatching from our plant. Since 1999 KKBEB have also been certified as a CLASS 1 LPG CYLINDER MANUFACTURING PLANT by SHELL INTERNATIONAL, LONDON and is subjected to a twice yearly audit to meet all technical standards and quality requirements. KKBEB aims to achieve total customer satisfaction and has adopted Total Quality Management approach which is regularly re-inforced through Management Review Meeting involving personnel at all level since 1996. Various Statistical Process Control (SPC) techniques are used to minimize rework to ensure a better quality finished product.



## Design Control

As an ISO 9001 Certified Division of KKBEB, we customize LPG cylinders design to clients requirements for orders with sufficient quantity. Our Engineering and Quality Assurance Department are fully equipped with international and national codes, engineering database and technical datasheet which are periodically updated and controlled, is supported by a pool of qualified engineers, skilled technicians and trained draughtsman.

## Domestic market

Existing domestic client include Shell Malaysia, Petronas Dagangan Berhad, Esso Malaysia Berhad and Mobil Oil Malaysia Sdn Bhd.

## Export market

We have exported to Sri Lanka-Shell Gas Lanka Limited under ISO 4706 Design Code and is currently involved with other international tender bids and global enquires.

## Product Specifications

Product Code	Diameter (mm)	Type of cylinder	Material specification	Overall height (mm)	Water capacity (litre)	Type of valve	Remark
KL-12	302	Domestic	JIS 3116-SG26/30	580	26.2	Compact	
KL-14	320	Domestic	JIS 3116-SG26/30	605	30.4	Compact	
KL-14A	320	Domestic	JIS 3116-SG26/30	605	30.8	Compact	
KL-50V	370	Industrial	JIS 3116-SG30	1280	108	Compact	
KL-50L	370	Industrial	JIS 3116-SG30	1280	108	POL	

**KKBEB also offers design and customisation to client's requirements for orders with sufficient quantity. Kindly refer to [ENQUIRIES](#):**



LPG cylinders of 14 kg capacity loaded into 40' FCL container for shipment within Malaysia.



## **KKB Group Of Companies**

### **KKB Engineering Berhad** (Co. No. 26495-D)

#### **HEAD OFFICE**

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|--------------------------------------|----------------------|
| 1. STEEL FABRICATION                 | (ISO 9002 CERTIFIED) |
| 2. HOT-DIP GALVANISING               | (ISO 9002 CERTIFIED) |
| 3. STEEL DRUM MANUFACTURING          | (ISO 9002 CERTIFIED) |
| 4. STEEL PIPES MANUFACTURING         | (ISO 9002 CERTIFIED) |
| 5. LPG CYLINDERS MANUFACTURING       | (ISO 9001 CERTIFIED) |
| 6. uPVC ROOFING SHEETS MANUFACTURING |                      |
| 7. CIVIL CONSTRUCTION                |                      |

#### **ENQUIRES:**

##### **LPG CYLINDER MANUFACTURING DIVISION**

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