Polyware®

penguin®

GREEN RESOURCES, GREEN MINDS, LIVING WATER

30th ANNIVERSARY

WE SUPPORT

SUSTAINABLE DEVELOPMENT GOALS

CONTENTS

1. About Us

Our Core Value: Waterful 03
Polyware At A Glance 04
Social Responsibility 06

2. Areas of Expertise

Water Utilities 07
Biogas 07
Cable Ducting 08
Mining 08
Industry Application 09
Agriculture & Aquaculture 09

3. Our Offerings

Our Products Are Made To Last 10
Hassle Free Solutions 11
Tailor-Made Piping Solutions 12

4. Our Assurance

Zero Interruptions for Decades 13
Research & Development (R&D) 14
Tested & Verified 15
Joints Delivered Worldwide 16

5. Our Presence

Our Global Distribution Network 18
Globally Successful Projects 20
Waterful School & Manufacturing 22
Sales & Marketing Hub 24

OUR CORE VALUE

WATERFUL

Appreciate • Believe • Committed



Our Vision

To be a benchmark in water quality for a healthy life while sustaining the natural ecosystem.

- **Green Resources**
- **Greener Minds**
- **Living Water**



Business Policy

Together we energise and preserve life through water supply solutions. Towards greener earth with efficient management of clean water.

Customer Service Policy

To share and grow together towards happy and healthy **PARTNERCHISE®**

We Care • We Share • We Grow

Our Mission

We are committed to become the leader of green water solutions by maximising all resources and integrating supply chain processes in the industry.



Polyware® AT A GLANCE

30 Years of Water Innovation

1996	16,188 m²	1,000+	40+	300+
Founded in Ipoh, Malaysia	Production Space	Types Polyethylene (PE) Pipe Fittings	Countries of Global Export Markets	Containers of Annual Export Volume

Company Foundation

Polyware was established in Ipoh, Malaysia in 1996 by a team of entrepreneurs, engineers, and mould specialists with extensive industry experience.

Comprehensive Product Range

Polyware manufactures more than 1,000 types of PE pipe fittings, covering mechanical fittings, electrofusion fittings, butt fusion systems, and socket fusion solutions.

Integrated Manufacturing

Today, all operations are centralised at Polyware's manufacturing facility in Kawasan Perindustrian Pengkalan, covering 16,188 m² of production space.

Global Market Reach

Polyware exports to over 40 countries worldwide, shipping more than 300 containers annually.



Scan to Explore

5 Jointings Available

- Mechanical
- Butt Fusion
- Electro Fusion
- Socket Fusion
- Customise Piping



Our Corporate Logo

Polyware®

Official logotype.

Pŵ

An abbreviation of logotype.

Our Brands

PENGUIN MASTER

ISO Standard Mechanical Jointing System suitable for pipe PE 80 & PE 100.

PENGUIN SMART

Advanced Mechanical Jointing System with improved Quality, Design and Performance.

penguin®



POLYFUSE

A high-quality PE pipeline system suitable for sustaining high pressure with low maintenance cost.

POLYFUSE®



International Partner

HÜRNER, Germany

Regional technical support appointee for HÜRNER Germany (Plastic Welding Technology Company)



HÜRNER
SCHWEISSTECHNIK

Social Responsibility

As a thermal plastic piping systems manufacturer, we pledged towards non-revenue water (NRW) awareness and corporate social responsibility programs which align to our vision on Green Resources, Green Minds and Living Water.



Environment

Water is one of the most important natural resources for humans. However, 70% of the planet's accessible freshwater is used for agricultural activities. In order to let more people understand the importance of water saving, Persatuan Kebajikan Lim Hock Chiang has organised a series of Environment Awareness Campaign.



Life Education

It is a vital part of education as it leads us to have true understanding of ourselves, our inner heart and understanding the relationship between ourselves with others. We also clarify the meaning and the values of life.



Community

As we are also part of local community, we raise water saving awareness to public and work together to use water more wisely. Starting from year 2015 until current, we have organised a series of activities.

Areas of Expertise

Water Utilities

Conservatively expected to last 50-100 years by the Plastic Pipe Institute, Polyethylene pipelines have been exceeding their designed service life. Our PE pipeline systems have been used by our customers in transportation of potable water and domestic wastewater on the surface and below the ground.

Biogas

Biogas is assisting to meet the needs of the present demand for safe and ecological energy supply and makes reasonable application of organic waste materials as a renewable and adaptable provider of electricity. Thus the construction of biogas plants for sustainable energy is progressively becoming significant. We are currently supplying our biogas PE pipeline systems to countries in Southeast Asia.

Cable Ducting

The general purpose of PE pipeline systems in cable ducting applications is to identify and provide mechanical protection to fragile cables like fiber optic, coaxial and other electrical cables against moisture, chemical or even animal in some cases, for fast and efficient electrical power transmission and communication industries.

Mining

In mining industry, Polyethylene may be the best material that can survive in this chemically aggressive environment and installation conditions. The uses of our PE pipeline systems in this application range from typical water management, such as tunnel or sewer, to process related application and transportation.

Industry Application

We offer a wide variety of PE Pipeline systems for transporting industrial liquids, with fittings, valves and special components which are crucial in this field of application.

Agriculture & Aquaculture

Efficient water management is essential for sustainable agriculture and aquaculture operation, Our PE pipeline systems are widely used in irrigation networks, fertigation systems, water supply, and aquaculture infrastructure. Engineered for durability, they provide excellent resistance to corrosion. UV exposure, and harsh marine environments, These features ensure reliable water flow, stable aquatic conditionsm and long-term operational efficiency for modern farming and fish cultivation.

Our Products Are Made To Last

Our reinforced thermoplastic pipeline systems are designed for durability, flexibility, reliability, and maintenance-free performance. Above all, we give you a peace of mind. Our products are strong, light, sustainable and fast to install.

50+ Years
Long Service Life

PE100+
Virgin Material

Variety of Sizes
from 20 - 630 mm

Hassle Free Solutions

Polyware's PE pipeline solutions offer clear advantages over steel and other flexible piping systems, delivering durable, reliable, and long-lasting performance.

We provide end-to-end solutions across the complete water cycle, energy and power distribution, electrical transmission, telecommunications networks, and a wide range of industrial applications.

Our expertise is field-proven and nationally recognised. Since 2004, Polyware has been appointed by SIRIM Malaysia as a member of the national standards certification committee for MS 1058: Part 3: 2006 (PE fittings).

Supported by continuous innovation, Polyware holds more than 10 industrial designs and over 30 registered trademarks worldwide, reinforcing our commitment to quality and brand integrity.

penguin®



Tailor-Made Piping Solutions

While we supply high-quality HDPE pipes, our true strength lies in creating complete, custom-built piping systems. From designing and engineering bespoke molds to producing the final pipe products, we deliver a fully integrated solution.

Zero Interruptions For Decades

One of our earliest projects was Phnom Penh Water Supply Authority (PPWSA), Cambodia since year 1997. It has remained in service since then without interruption.

R&D

We love to be creative and innovative. With a can-do attitude, we are able to design, develop and customise new products. It is our lifetime commitment to introduce new technologies, yet affordable solutions to all our customers.

Tested & Verified

Our Material and Product Performance Testing Lab is equipped with various state-of-the-art machinery and equipment. All our products are tested to ensure conformance with PE pipe fitting specifications and compliance with international standards.

1 Material Tested in Accordance with ISO 9080



Oxidation Induction Time Tester
EN ISO 113574-6



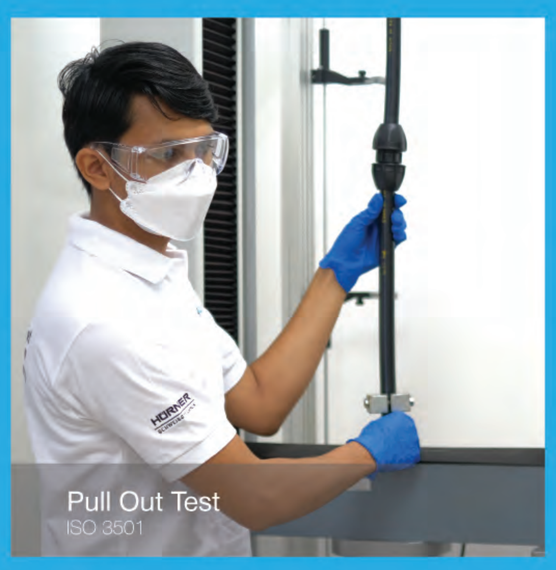
Melt Flow Rate Test Machine
EN ISO 1133-1

2 Product Performance Test in Accordance with ISO 17885, ISO 4427, BS EN 12201, MS 1058

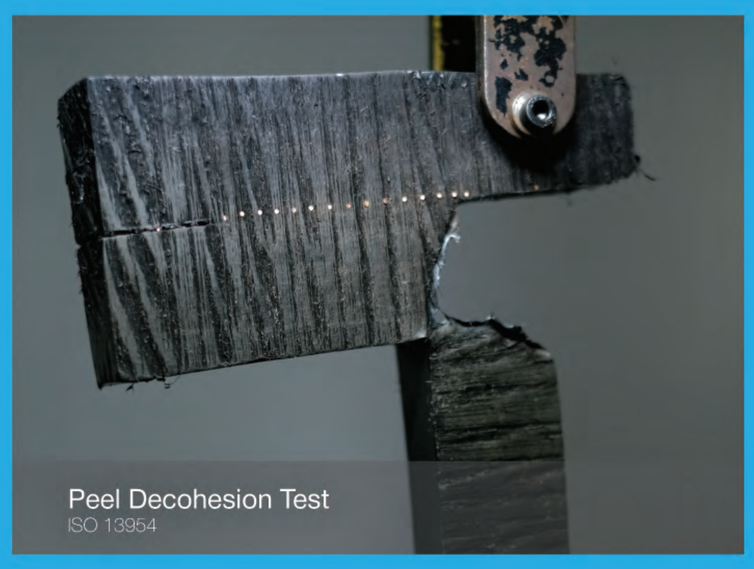

Crushing Decohesion Test
ISO 13955



SCITEQ Pressure Test Machine
ISO 1167


Pull Out Test
ISO 3501


Bending Test
ISO 3503


Peel Decohesion Test
ISO 13954

3 O Ring Test in Accordance with AS 1646


O Ring Test
AS 1646

One of the leading PE pipeline system

2,000,0

JOINTS DELIVER

Certified by

30 Years

In The Thermoplastics Piping System Solution Industry

providers in Southeast Asia

penguin

POLYFUSE®

000,000

ED WORLD WIDE

WATERMARKS CERTIFICATION MALAYSIA

Suruhanjaya Tenaga
Energy Commission

PRODUCT CERTIFICATION TRANS

STANDARDS MALAYSIA ACCREDITED
ACB 041



2.2 Million mechanical joints testing performed

3,800 fusion joints testing performed for 1,000 hours

At least 2,200 cases involve in worldwide water supply subject

20mm-630mm comprehensive product scalability

Our Global Distribution Net

Europe

- Hungary
- Poland
- Czech Republic
- Spain
- France
- Italy



Polyware was awarded the **Malaysia Export Excellence Award (Merchandise Category)** by the Ministry of International Trade and Industry (MITI), recognising its outstanding export performance since 2005.

South America

- Bolivia

Africa

- South Africa
- Tanzania
- Seychelles Island
- Maldives Island
- Mauritius
- Kenya
- Libya

Middle East

- Oman
- Jordan
- Iran
- Lebanon
- Cyprus
- United Arab Emirates (Dubai)

Asia

- China
- Hong Kong
- Taiwan
- Pakistan
- Sri Lanka
- Korea

04

05

06

02

07

We Are Here

Headquarters & Manufacturing:
Ipoh, Perak

Sales & Marketing Hub:
Kuching, Sarawak

Sales & Marketing Hub:
Semenyih, Selangor

Southeast Asia

- Malaysia
- Indonesia
- Philippines
- Cambodia
- Vietnam
- Myanmar
- Thailand
- Singapore
- Laos
- Brunei

Pacific Ocean

- Australia
- New Zealand
- Fiji Island

twork

Malaysia

- Kuala Lumpur
  - Sepang Gold Coast
  - Gamuda Klang Valley Mass Rapid Transit (KWMRT) project
  - MRT Station project (MMC Gamuda)
- Pahang
  - Bertam Valley, Cameron Highlands
  - Tanah Rata, Cameron Highlands
  - Plot 32cde, 16ab, 50 g3, plot50
- Sarawak
  - Beluru Watermains
  - SESCO Central Store, Kuching
  - Rural Water Supply Department (Jabatan Bekalan Air Luar Bandar, JBALB)
  - Public Works Department (Jabatan Kerja Raya,JKR) Project U/A Stores, Tanah Puteh
  - Pan Borneo
- Penang
  - Malaysia Palm Oil Mill (Biogas, Nibong Tebal)
  - Penang Water Supply Corporation (Perbadanan Bekalan Air Pulau Pinang, PBAPP)
- Perak
  - Perak Water Board (Lembaga Air Perak, LAP), Kuala Kangsar
- Terengganu
  - Kuala Terengganu Palace
- Johor
  - Ranhill SAJ Sdn. Bhd.

Cambodia

- Phnom Penh Water Supply Authority (PPWSA)
  1997 - present
- Rehabilitation project fund supported from World Bank/ ADB Project/ JICA Project - present
- Kampot Sumitomo expansion of Water Supply System
  2017 - present
- Extension of Chamcar Morn Water Production Facilities & Distribution
  2017 - present

Myanmar

- Work with local PE pipe producer
  2014 - present

Brunei

- Water Services Board of the Public Works Department (JKR)
  2011 - present

Indonesia

- PDAM Palembang Medan, Jakarta, Bandung, Bogor projects & waterwork
  2006 - present
- Air Titra Batam (ATB) project
  2003 - present
- AETRA Jakarta
  2010 - present
- PALYJA Jakarta
  2012 - present

Vietnam

- Haiphong Water Supply Authority projects
  2006 - present
- Hue district projects
  2007 - present
- Saigon Water Corporation (SAWACO) project
  2017 - present

Philippines

- Maynilad Waterwork
  2003 - present

Laos

- Work with Nampapa Waterwork
  2009 - present

Globally Successful Projects

China

- Supports infrastructure & mining development projects
  2020 - present

Jordan

- Supplied through Jordan customer for United Nations reconstruction project in Iraq
  2005

Hong Kong

- Hong Kong Disneyland
  2003
- Hong Kong International Airport (KIA), flushing system
  2006

Bolivia

- Work with Aguatuya Foundation water project
  2006 - present

Headquarters & Manufacturing

Ipoh, Perak

Sales & Marketing Hub
Semenyih, Selangor

Sales & Marketing Hub
Kuching, Sarawak


NCC Solutions Sdn. Bhd.
DIMILIKI OLEH: NCC SOLUTIONS SDN. BHD. (1285590-W)
PIPELINE
SYSTEM
SOLUTIONS
PROVIDER
POLYFUSE
PENGUIN
Polyware
HÜRNER
We are your
Piping & Pipeline
Collaborative
and Integration
Solutions Partner.
FITTING FOR
MOLLY
PAUL

Polyware®

YOUR PE PIPELINE SYSTEM SOLUTIONS PROVIDER

Polyware Sdn. Bhd. (408370-M)

PT285794,
Persiaran Perindustrian Pengkalan 16,
Kawasan Perindustrian Pengkalan,
31500 Ipoh, Perak
Tel: (605) 323 2788

customerservice@polyware.com.my

polyware.com.my Polyware Sdn Bhd polyware_marketing polyware_marketing

penguin POLYFUSE® HÜRNER SCHWEISSTECHNIK

03.26