T.E.M. Casting Products (TCP) Sdn Bhd was established on 12 June 1980 and started its operation on a small factory located at Batu Kawan, Penang. In the early development, the factory was only operated by 20 people.

Over the years, TCP has experienced unprecedented changes, progress, and achievements, marking tremendous growth in the domestic market. TCP has also established itself as a renowned ductile iron and cast iron manufacturer in the Malaysia foundry community.

In 1997, TCP expanded its business by building a new factory on a five-acre land in Krian Industrial Park at Parit Buntar, Perak. This marks yet another milestone of TCP, consistently committing to excellent product realisation, competitive pricing, and the best after-sales services to provide satisfaction to our customers.
Our factory is installed with the latest state-of-the-art production facilities, utilising cutting edge technology to manufacture and deliver excellent products to meet our customers’ requirements. We go through a stringent technological process of designing the ideal solutions, and customising them accordingly.

Process Design
Mould-Making
Sand Blending
Core
Moulding
Pouring
Short-Blasting
Machining
Inspection
We have been optimising our production techniques and development facilities by investing in the latest R&D technology. Bulk-buying ingredients, economics of scale, and efficient production values ensure that we produce high quality products at minimal costs and at a significantly greater speed.

With the latest system, our factory now has the production capacity of 12,000 tonnes per annum. Our current workforce comprises of more than 150 employees.
By going through a proper process of inspection and quality control, we are able to produce products that meet international standards while keeping the price competitive, both locally and globally.

- Material Inspection
- Rapid Analysis Before Pouring
- Microstructure Analysis
- Spectrum Analysis by Luminescence & Special Analyser
- Tensile Strength Inspection
- Hardness Test
- Outside-Size Measurement

**Metallurgical**

- Grey Cast Iron
- Ductile Iron
- Polished
- Etched Nital 2%
- Polished
- Etched Nital 2%
We have invested in a fully automatic moulding machine line, complete with a stand reclamation system. The comprehensive and advanced equipment has since been insuring our product quality.

Among the casting products that we manufacture are:

- Flow Control Equipment Parts
- Construction & Scaffolding Accessories
- Boiler Parts
- Pipeline Accessories
- Automotive Parts
- Brass Water Pumps
- Marine Parts
- Manhole Covers
construction & scaffolding accessories

Adjust Handle Nut

- Adjust Handle Nut TM35-6P
- Adjust Handle Nut 29-30 mm
- Adjust Handle Nut 36-38 mm
- Adjust Handle Nut 28 mm
- Adjust Handle Nut 32 mm
- Adjust Handle Nut 48 mm

Formwork Clamp

- Formwork Clamp
- Hexagon Nut 50 mm

Hexagon Nut

- Hexagon Nut

Water Stop

- Water Stop

Prop Nut

- Prop Nut 315 gm
- Prop Nut Heavy Duty

Stay Bolt Nut

- Stay Bolt Nut (1/2", 5/8", 3/4", 1")

Wing Nut

- Wing Nut 20 mm
- Wing Nut 90 mm
- Wing Nut 100 mm 3W
- Wing Nut D15 2W

Manhole Cover

- 3E Manhole Cover 840 x 840 x 150 mm
- Manhole Cover Kumbahan 840 x 840 x 100 mm
- Manhole Cover 710 x 710 x 50 mm
- Manhole U-Step 1110 x 820 x 150 mm

Prop Nut Heavy Duty

- Heavy Duty Prop Nut
- Wing Nut D15 2W

T.E.M. Casting

- T.E.M. Casting
- 1110 Casting
- 7E Manhole Cover 1110 x 820 x 150 mm
- 7E Manhole Cover 840 x 840 x 150 mm
- 3E Manhole Cover 840 x 840 x 150 mm
boiler accessories

- **Cone & Vane**
- **Boiler Baffle**
  - Boiler Baffle Plate
  - Boiler Baffle Support
- **Grate Bar**
  - Grate Bar RGB CL175-435
  - Grate Bar RGB CL200-435
  - Grate Bar RGB OP175-435
- **Fire Grate**
- **Fire Bar**
  - Fire Grate WC760L
  - Fire Grate WC1000L
  - Fire Bar 1000L
  - Fire Grate WC1008L
  - Fire Grate WC1125L
  - Fire Bar 1220L

handwheels/ castor wheels

- **Cast Iron Wheel**
  - Cast Iron Wheel 3"
  - Cast Iron Wheel 4"
  - Cast Iron Wheel 5"
  - Cast Iron Wheel 6"
  - Cast Iron Wheel 8"

automotive parts

- **FMS Bracket**
  - Bracket C
  - Bracket SE
brass parts

Bottom Valve

Brass Bush & Nut

Brass Flange

Brass Water Pump

Brass Pump Cover

Brass Impeller
### Grey Iron Standard Comparison

<table>
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<th>Min. Tensile Strength (N/mm²)</th>
<th>Min. 0.2% Proof Stress (N/mm²)</th>
<th>Min. Elongation (%)</th>
<th>Brinell Hardness (HBW)</th>
<th>China GB</th>
<th>ASTM</th>
<th>JIS</th>
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### Ductile Iron Standard Comparison

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