Product Description
Penerangan Produk

The project is made to deliver the fabrication of a new type of GMAW nozzle as it is changing the flow of gas during GMAW process. The flow of gas is depend through the different number of hole of the nozzle to make a shielding gas pattern to protect weld bead from Oxygen. Different number of hole created a different speed of velocity. If the number on the hole is decreased, the velocity of the nozzle will increased. The material that were used for nozzle is brass since it is easy to fabricate and the cost for brass is lower than the current material use for nozzle. Therefore it can reduce the costing to make the nozzle. The nozzle can reduce the consumption of shielding gas.

Problem & Causes
Masalah & Punca

- Conventional nozzle is unsuitable for welding outdoors
- Movement of shielding gas during the process created porosity
- Increasing the shielding gas output will increase the cost and it may affect the weld bead

Originality & Novelty
Keaslian & Novelti

- WASTE TO WEALTH
- 30-45 % reduce wasted shielding gases

Eco- Friendly Aspect
Aspek Mesra Alam Sekitar

- Less smoke from welding.
- Ergonomic
- Friendly user

Application & Market Potential
Aplikasi & Potensi Pasaran

- Won 1 Gold Medal

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