

# Refined, Sharp and Competitive

**No concept comes into reality without mold & die. On the other hand, with a pair of excellent modes, you can make your own goose that lays golden eggs.**

The mold & die industry is an important cornerstone in the development of the electronics industry in Taiwan. As nanotechnology gradually became a trend, many manufacturers were caught in a technical bottleneck. MIRDC's assistance apparently not only helped to create new industrial values, but also reinforced the competitiveness of Taiwan's industries. One of the most successful cases is the development of the magnesium alloy casing industry.

In recent years, the design of 3C electronic products has been developed to be light, slim, good-looking and fashionable. With the advantages of being lightweight and the lowest proportion, magnesium alloy soon became the best material for metal casing. During the early stages, however, Taiwanese manufacturers were unable to increase the die casting yield rate while they tried to develop a magnesium alloy. MIRDC hence utilized its R&D resources to assist manufacturers in a technical breakthrough and raised the die casting yield rate up to more than 80%. In this way, the leading positions of the Hon Hai Precision Industry Company Ltd. and Catcher Technology were established in the further development of the magnesium alloy casing industry. At the same time, the applications of downstream

products successfully extended into the smartphone and mobile devices markets.

The panel industry is another successful case. Light Guide Panel(LGP) production machines, used for manufacturing key panel components, originally relied on Japanese suppliers. Each cost more than NT\$ 30 million. In order to reduce purchase costs, the Radiant Opto-Electronics Corporation teamed up with MIRDC to develop equipment machines and successfully reduced the cost by NT\$ 8 - \$10 million each. This collaboration gave Radiant a saving of several hundred million dollars.

The mold industry is the fundamental capital of every industry. It creates tens or hundreds times of value to related industries. Looking into the future, the Taiwanese mold industry must aim towards a high precision level, as seen in the optics industry, and the medical industry, etc. The ratio of manpower allocated to design should increase to more than 40%. In the long run, design and R&D capabilities will be the key to winning the battle in the mold industry and to surpass the low-price strategy of China and ASEAN countries.