



OVERVIEW

Optidrive IP55 keeps out coolant and metal dust.

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- leading edge design and technology
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COMPANY

COMPLETION PRODUCTS PTE LIMITED

Reducing installation cost in manufacturing operations

Tuas, Singapore

The Optidrive Plus 3^{GV} IP55 variable speed drive has provided significant installation cost savings in two Far east manufacturing organisations. Pipe drilling at Completion Products Pte Limited, based in Tuas, and hard disk manufacturing at an engineering plant in Singapore, involving multiple drilling and deburring processes, have both reported successes with the implementation of the Optidrive Plus 3^{GV} IP55.

For variable speed drive applications where dirt, dust, water and pollution are present the use of a protective cabinet can add enormously to the cost of drive installation. The washdown duty Optidrive IP55 / NEMA12 enclosure drive has been designed to resist low-pressure water, dust, dirt and chemicals and features a rugged industrial 40°C ambient rating for hot and tough applications.

Systems Integration

LHF Engineering of Singapore are the systems integration specialist responsible for installing the Optidrive Plus 3^{GV} IP55 in the computer hard-disk case manufacturing plant, where precision control of the drilling operations was paramount. The cases are subsequently put through a deburring process where the edges of the component are smoothed by a metal brush.

In the application at Completion Products, multiple, simultaneous pipe drilling is undertaken in an environment where coolant can frequently splash onto the variable speed drives.

The Optidrive Plus 3^{GV} IP55 was able to meet all of the control parameters required, including the need for extremely short acceleration and deceleration times in the drilling operations. The drive has also proved to be highly successful in withstanding the high humidity and coolant splash.

The large amounts of metal dust generated during deburring, which creates an environment that is normally extremely hostile to electronic devices, has similarly posed no problems for the Optidrive IP55.

Over 100 Drives Supplied

Over 100 IP55 Optidrive variable speed drives have now been supplied for these two applications. These include switched versions that offer local start-stop and speed adjustment and hence provide excellent operational flexibility.

The drives were supplied by Invertek Drives Far East, based in Singapore.



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