

> CASE STUDY

HOLOPHANE PROVIDE HIGH MAST LIGHTING FOR PORT OF NIGG EXTENSION



HMAO (High Mast Advanced Optic)



Challenge

With over 900 meters of deep water quayside, the Port of Nigg caters for some of the largest vessels in operation today and is a vital facility for the renewable energy sector and the North Sea oil and gas industry. The harbour comprises an industrial multi-user facility providing manufacturing and support services to a range of energy sectors.

Solution

In early 2015, the Port of Nigg undertook an extensive £20 Million redevelopment project, which involved the resurfacing of the entire length of the Quayside front and the addition of the new West Finger Jetty. For the new West Finger Jetty, Holophane supplied 52 **HMAO** (High Mast Advanced Optic) LED luminaires with a combination of 6 head and 10 head frames assembled on 30 metre masts.

The **High Mast** system provided the ideal solution for the lighting of the busy yard where space is at a premium and the number of masts needed to be kept to a minimum. **PrismaLED** glass refractor technology is utilised with HMAO luminaires to accurately control the light output, reduce glare and deliver exception vertical illumination whilst also maximising column spacing. The optical assembly is rotatable for on-site alignment making installation simple and ensuring the light output is directed to the right areas and the weight of the luminaires distributed evenly over the headframe.



The PrismaLED technology ensured that residents of a nearby town were not adversely affected but glare or light pollution from the site, an issue that existed with the previous lighting.

An advanced thermal management system ensures long product life and to achieve this the gear housing draws heat away from the critical components to keep the drivers and LEDs cool. The low static glass utilised in the optical assembly works in conjunction with the flow of heat around the refractor to achieve a self-cleaning effect further reducing the need to maintain the product and keeping running costs to a minimum throughout the life of the installation.

The combination of tight optical control, wide spacing and long luminaire life with very low maintenance costs makes the Holophane Highmast system the perfect choice for Nigg Quay.