

Demag KBK Multi Crane System for Engine Block Machining Application.

Features/Benefits Provided:

- 18 individual work cells can be in serviced simultaneously
- Safe and easy handling of loads up to 1100 lb.
- Engine blocks can be moved easily and precisely by hand.



The Opportunity

When automobile manufacturer Nissan needed a way to safely move engine blocks into position for machining a Demag KBK Enclosed Track Crane System was selected. To meet peak production requirements the ability to handle up to 18 blocks at the same time was required.

The Solution

The engines blocks are delivered by forklifts to a designated drop off area in front of each machine. In order to move the block from this point and load it into the machine, KBK II, 5 meter (16'-5") Single Girder Crane Bridges were selected. The articulating design insured that the bridge rolled easily, without binding, making precise positioning easy. The bridges were suspended from a single set of KBK II Runways with a length of 50 meters (165'). Hangers for the runway were securely attached to the overhead structure without welding or drilling via clamping brackets and were easily height adjustable via threaded rods. Demag Electric Chain Hoists with two lifting speeds were supplied and powered via a flat cable festoon system. Operators in each work cell were now free to lift and move the engine blocks into position whenever they required.

Wrap Up

■ By attaching to overhead structure, no floor columns were required to support the system, insuring that forklift traffic was not obstructed.

■ Without the need to ever wait for a crane bridge to become available the productivity of each work cell was maximized.

■ The two speed Demag Chain Hoist with a main speed of 32 feet per minute and a creep speed of 8 feet per minute allowed the blocks to be handled safely with speed and precision.

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