



BLUMENBECKER

WE DELIVER SOLUTIONS

AUTOMATION TECHNOLOGY ENGINEERING INDUSTRIAL TRADE **INDUSTRIAL SERVICE** TECHNICS

REFERENCE // Construction and installation of a double-girder bridge crane // Mitsubishi HiTec Paper Europe



CLIENT:



Mitsubishi HiTec Paper
Europe GmbH
Niedernholz 23
33699 Bielefeld

PROJECT COMPLETED BY:

Blumenbecker Krananlagen Hamm GmbH
Rathenastr. 12
59067 Hamm
T: +49 2381 94302-12
F: +49 2381 94302-10
mhamm@blumenbecker.com

COMMISSION:

To design, build and install a bridge crane with two synchronised hoisting units

Execution: July to October 2013

CRANE TECHNOLOGY TO THE VERY HIGHEST STANDARDS

New-builds, installation and final inspection, refits and overhauls, testing and servicing: Blumenbecker is your partner for crane systems of all makes and types. We do not just service your crane – we can also fit a completely new automation system. Our specialist engineers can answer all your crane stability and safety questions. We can inspect your crane track and provide advice on crane applications. Contact us for the right solution every time.

MITSUBISHI HITEC PAPER EUROPE GMBH

Mitsubishi HiTec Paper Europe GmbH is a subsidiary of the Japanese-owned Mitsubishi Paper Mills and a member of the Mitsubishi Group. The company is a leading international manufacturer of specialised coated papers and its expertise as a high-quality paper-maker is successfully combined with unrivalled production facilities. The manufacturing plants at Bielefeld and Flensburg produce about 180,000 tonnes of specialised paper goods a year, mainly in the form of thermal-printer paper, labels and stickers and digital imaging paper.

THE COMMISSION

Fitting the paper rolls to the production machines called for a crane with two synchronised hoisting units with a lifting capacity of five tonnes each for smooth and even lifting and lowering operations. The crane installation was also to be designed for full access to all points.

CONTRACT SCOPE

The difficult installation environment ruled out using a standard crane unit. The crane location was on the first floor of the building and the new crane could only be installed via an opening in the floor. Each of the main crane components therefore had to be designed with this in mind.

The limited space presented a real challenge in terms of workplace accessibility and component dimensions. Blumenbecker Krananlagen Hamm therefore designed and built a special crane bridge to overcome these problems.

After undergoing trials in Hamm the crane was disassembled into its individual components, painted and shipped to Bielefeld. The old crane unit was dismantled, and its replacement installed, during a four-day production stoppage in October 2013.

FACTS AND FIGURES:

- | crane type: double-girder bridge crane
- | lifting capacity/span width/lifting height: 10,000 kg/5.30 m/6.00 m
- | crane weight (including trolley/trolleys): approx. 4,000 kg
- | main girder: HEB200 Mat235
- | load support structure classification: DIN 15018 H2B4
- | number of hoists: 2 identical units
- | crane gauge: 5,300 mm
- | load bearing capacity: 10 t
- | access: fully walkable
- | hoisting gear classification: FEM M5 (2 m)
- | lifting speed (rapid): 5.00 m/min
- | part-load operation: 7.50 m/min

SPECIAL EQUIPMENT:

- | overload protection
- | NovaMaster Basic
- | NovaMaster SWP
- | NovaMaster Tandem
- | speed sensor on lifting motor

