Highest accuracy for the smallest dosage

MCPI has always used HBM load cells in its high-precision filling scales for powder, because they are the best choice for the speed and accuracy requirements. Thanks to the PW25 easy-to-clean load cell, the French company can now design hygienic systems as well.

In addition to filling systems for dosing by means of spraying, MCPI also offers microdosing systems with special accuracy. The load cell is an important element of these systems. HBM is vitally important for MCPI’s strategy in this area, says Pierre Mosca: “HBM supplies almost all our analog load cells, and it’s been that way practically since we first started developing filling scales. In addition to the quality of their products, we appreciate their customer focus in both technical and business matters.”

Traceable, dynamic weighing
MCPI has observed the trend in the market over the years toward ever higher requirements for accuracy. Today MCPI filling scales cover a dosing range from 20 mg to 20 kg with a resolution of up to 0.1 mg. HBM load cells meet the accuracy requirements of MCPI. The company also appreciates the fact that HBM load cells are ‘easy to care for’ – their performance remains constant over their entire service life. MCPI therefore recommends not making any compromises in purchases: "Rely on quality. You won’t regret it."

Easy to clean and handle
Filling systems are often intended for working with different products and for processes with strict hygiene requirements. That means the filling device needs to be cleaned thoroughly and regularly.

The PW25 "easy-to-clean" load cell from HBM offers a great advantage for MCPI in this respect: “Unlike liquids and solid substances, powder easily settles anywhere and remains in place. That makes it more difficult to protect the systems. It’s also more complicated to clean them. Because the PW25 does not require any protective measures, it was considerably easier to design the filling system,” explains Pierre Mosca.

The easy-to-clean PW25 load cell

MCPI spreader with two type PW25 load cells

www.hbm.com/hygienic
Work is also easier now for the employee responsible for cleaning after every product change. With a smooth housing made of stainless steel, the PW25 can be cleaned with solvents, water, or even jets of water (degree of protection IP68/IP69K).

The PW25 load cell also offers an additional advantage. It tolerates high overloads up to ten times its maximum capacity. “The actual dosing process, with the product fed in gradually, does not pose any risk whatsoever of destroying the load cell. However, overload tolerance does represent a significant advantage for assembly/disassembly and of course also for cleaning,” emphasizes Pierre Mosca.

Future precision
However, the load cell, with its maximum capacity of 10 or 20 kg and accuracy class C3MR (3000 verification intervals), cannot be used in all microdosing applications. MCPI is very strongly represented in this sector and Pierre Mosca says he can count on HBM:

“It is our experience that HBM has always actively pursued ongoing development toward greater accuracy for our business throughout the past ten years of our business relationship. We are confident that HBM will develop a series of easy-to-clean load cells that will address the demand for smaller maximum capacities with greater accuracy.”