



All eyes on

WFL Robotic Solutions

by WFL Millturn Technologies

WFL Millturn Technologies has always been involved in the area of automation. From articulated robots to gantry loaders, every system combined with a MILLTURN brings a high-tech element and a breath of fresh air into the automation of WFL's machinery.

The acquisition of FRAI Elektromaschinenbau GmbH in October 2018 represents another step towards innovation in complete machining, paving the way for a digital future.



Flexible robotic solutions – tailor-made for your needs

At FRAI, the vast majority of high-grade industrial robot systems are built with KUKA as a systems partner. Other brands can, however, be used at the customer's request. The wide range of robots offered by KUKA enables optimal concept creation for workpiece weights between 0.5 and 1000 kg. The robots can also be installed

permanently on the floor, overhead or on an additional longitudinal axis.

Gantry loaders for machine tool automation – customer-specific design

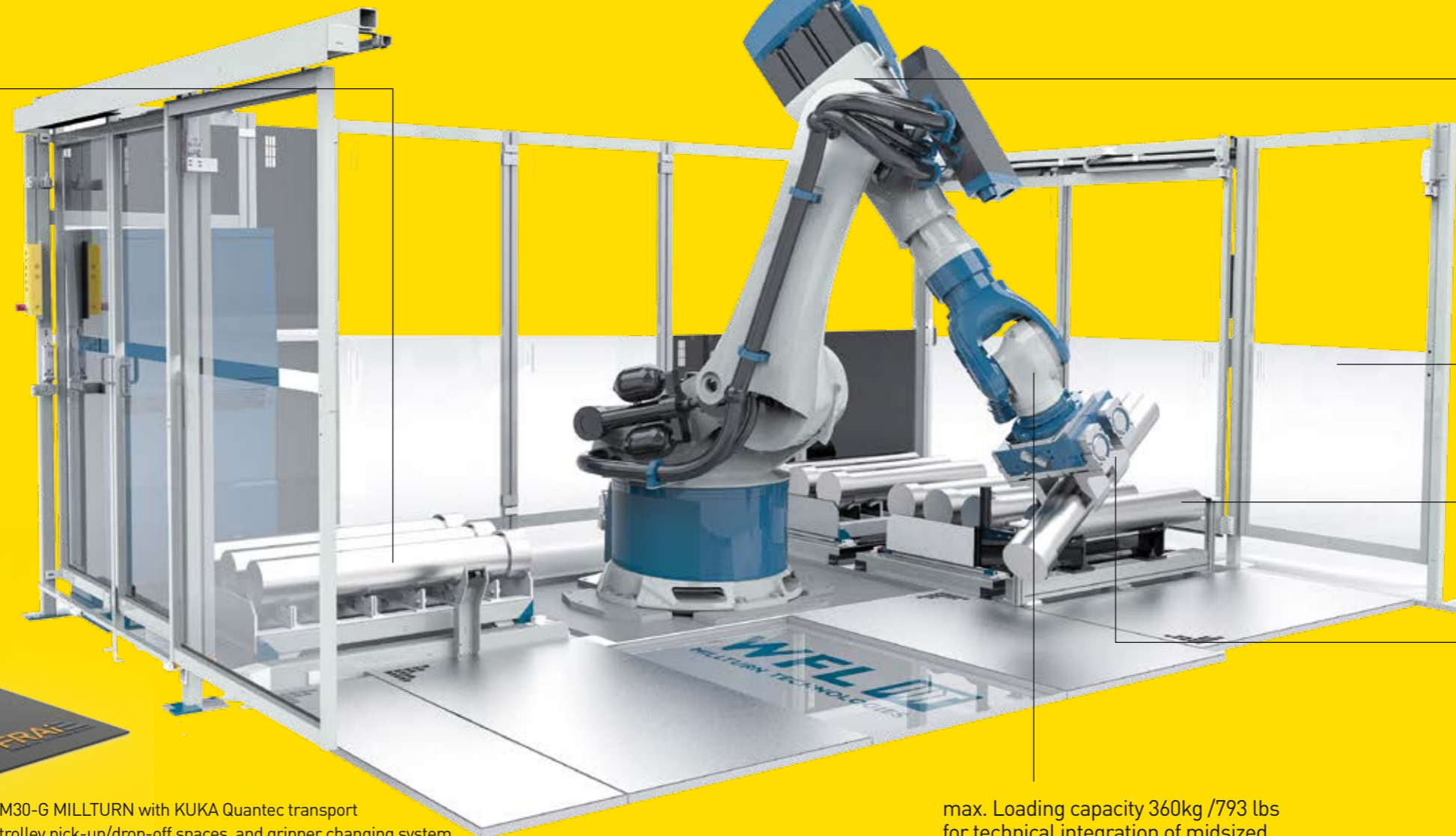
Modular gantry loaders can be used to create economical automation solutions that combine the advantage of outstanding accessibility with a low space requirement.

Workpiece storage tailored to the range of parts and integrated into the material flow

Different demands will be placed on the storage system depending on the range of work-pieces, batch size, cycle times, and the customer's expectations in terms of flexibility and automation times for the production facility.

Pallet systems

It's not just the sophisticated collaboration between MILLTURN and robots that provides a quick and easy way of supplying raw materials, it's also the unique loading system. The tailor-made pallet system is monitored using a sensor that's synced to the machine, meaning it's always ready to load the machine with raw materials or to remove the finished parts. Stackable pallet systems can also be supplied and a variety of different types are available.



KUKA KR510

Automated cell

Position and length control

Gripper
(Gripper range 75-220mm / 2.95-8.66 in)

The gripper is a key automation element, which greatly influences system efficiency. It functions as an interface to the workpiece, and is often exposed to coolant, dust and chips.

M30-G MILLTURN with KUKA Quantec transport trolley pick-up/drop-off spaces and gripper changing system, nominal load 120 kg, Rated working radius 2896mm

max. Loading capacity 360kg /793 lbs for technical integration of midsized MILLTURNS, e.g. M65 MILLTURN

