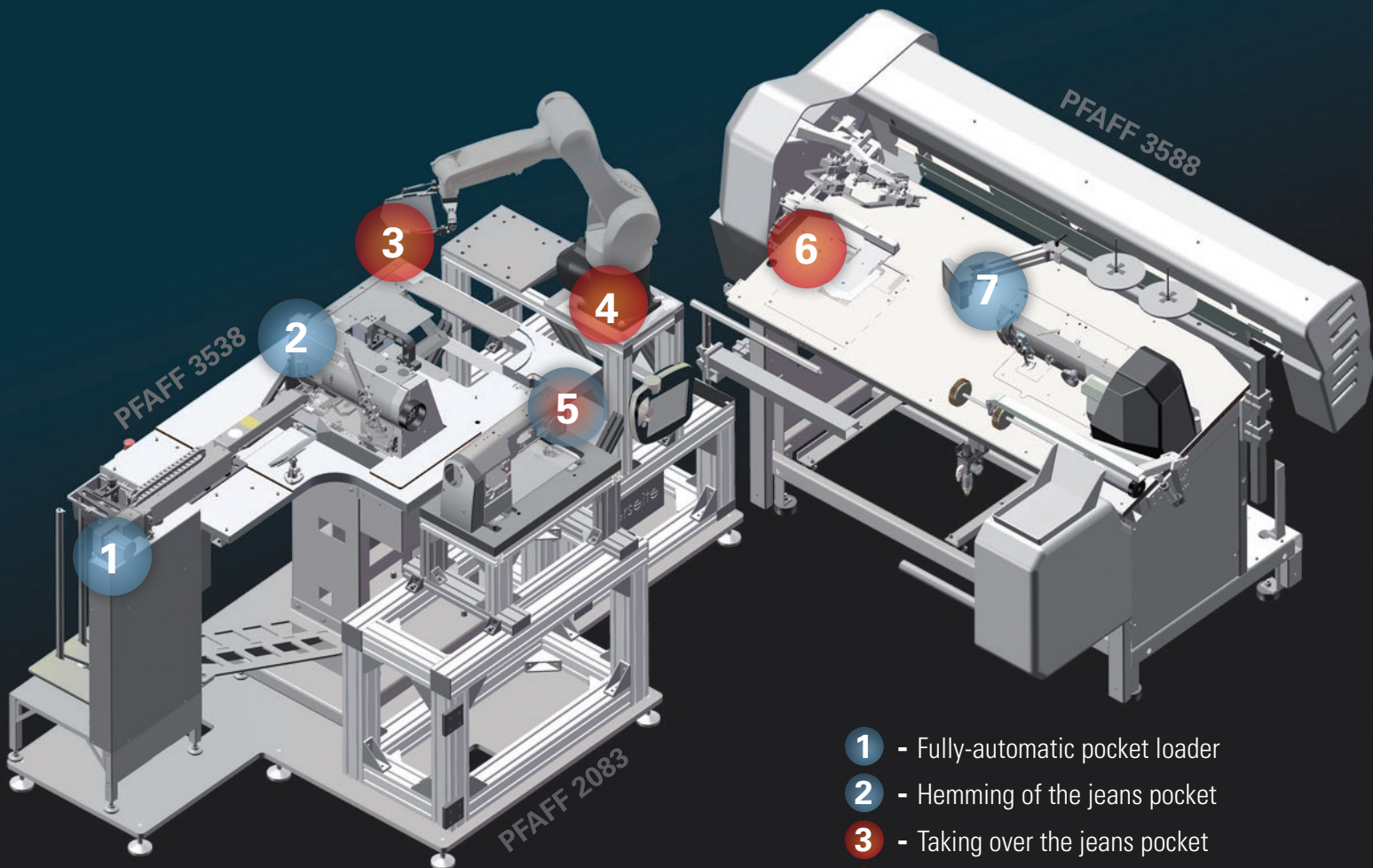


Robotics case study

of a robotic system for automated processing JEANS POCKETS

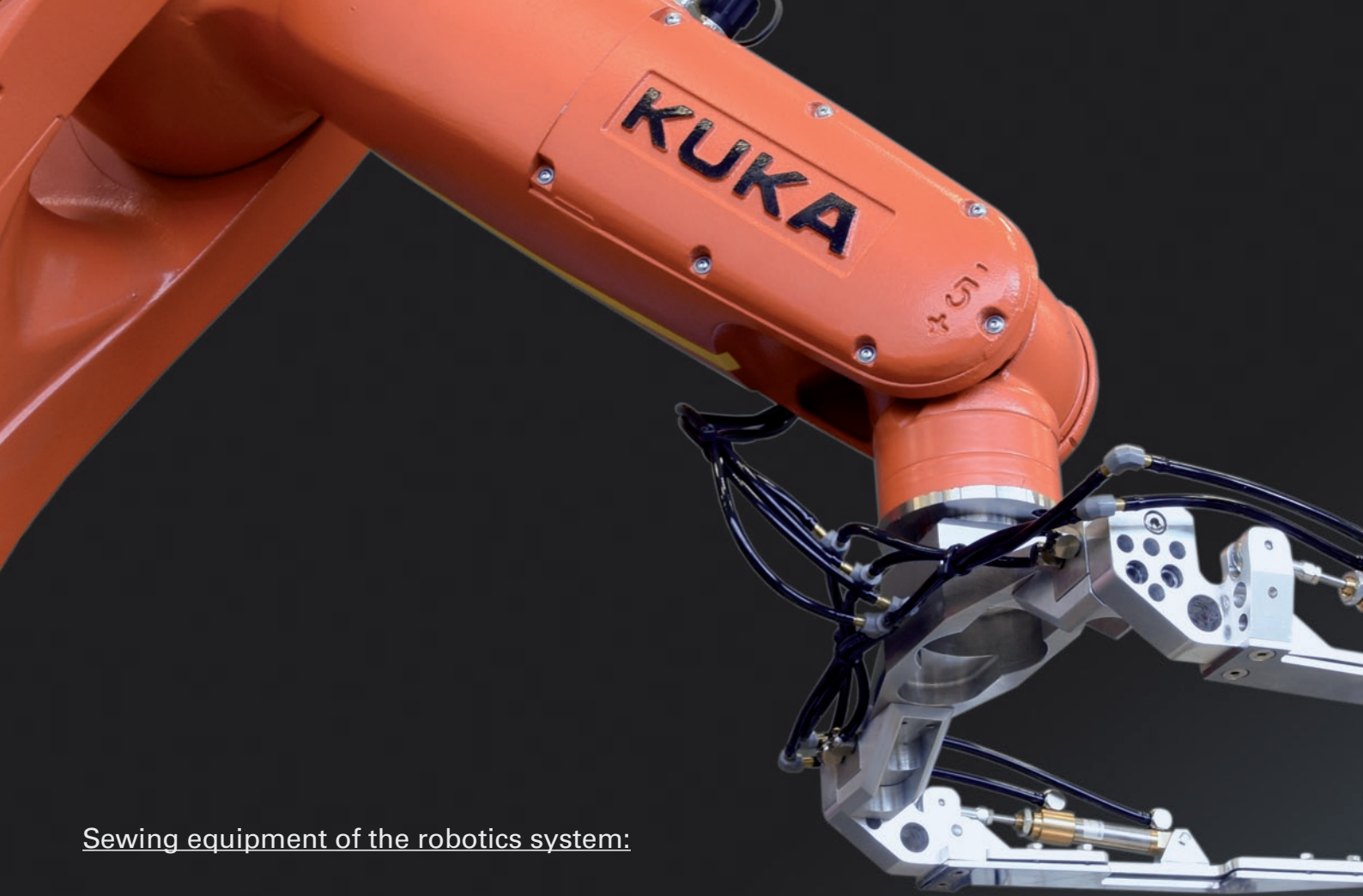
Sewing competency by PFAFF INDUSTRIAL and handling know-how by KSL come together in a robotics case study for the 3 key applications of processing jeans pockets. Using the latest and most precise robot and control technology, entire processes are automated and operator interference is reduced to a minimum.

New and trendsetting of this robotics case study: The placement (insertion + removal) AND the automatic seam tracking (curved seam) is realized with ONE robot cell.



- Action by the machine
- Action by the robot unit

- 1 - Fully-automatic pocket loader
- 2 - Hemming of the jeans pocket
- 3 - Taking over the jeans pocket
- 4 - Feeding to the high-speed seamer
- 5 - Attaching the fancy seam on the pocket (guidance by the robot unit)
- 6 - Feeding to the CNC pocket setter unit
- Fixing the jeans pocket into the clamp
- 7 - Attaching the jeans pocket



Sewing equipment of the robotics system:



PFAFF 3538

Pocket hemmer with fully-automated pocket loader

Application:

Hemming of the jeans pockets



PFAFF 2083

Single-needle lockstitch high-speed seamer with drop feed

Application:

Attaching the fancy seam on the jeans pocket



PFAFF 3588

Programmable CNC automatic pocket setter

Application:

Automatic creasing and attaching of pockets with one machine