



consulting

## Technical services

# Collaborative robot risk analysis

Based on requirements from ISO/TS 15066 & ISO 10218

Risk assessments are the starting point to any machine safeguarding initiative, even when the application involves inherently safe by design equipment such as a collaborative robot. It is important to note that the use of an inherently safe collaborative robot does not automatically equate to a safe application. This is because the application as a whole must be evaluated which includes the environment, scope of work defined for the robot and human operator, material being handled, etc. Let TÜV Functional Safety Engineers from **tec.nicum** perform a collaborative robot risk analysis, based on the requirements referenced in ISO/TS 15066:2016 and ISO 10218:2012 to help ensure you are utilizing your collaborative robot safely.



### Report Details

Any hazard that is found during the analysis will be assigned a Hazard Rating Number (HRN). This number is based on four areas of selection:

- LO – Likelihood of Occurrence
- FE – Frequency of Exposure
- DPH – Degree of Possible Harm
- NP – Number of People

### Report Deliverable

Data from our risk analysis software will be extracted and provided as a PDF document containing details of each machine evaluated. This report will provide all hazards identified, an HRN according to the hazard, corresponding pictures, and control measures where applicable.

For more information regarding the collaborative robot risk analysis or our other Engineering Services, please contact:

#### Schmersal USA

115 E Stevens Avenue, Suite 208, Valhalla, NY 10595  
Tel: 888-496-5142 | salesusa@schmersal.com  
[www.schmersalusa.com/service/tecnicum-engineering-services](http://www.schmersalusa.com/service/tecnicum-engineering-services)

#### Devin Murray

tec.nicum Services Manager  
Tel: 914-419-3731  
[dmurray@schmersal.com](mailto:dmurray@schmersal.com)

**tec.nicum**  
Schmersal Group