

3 Product description

3.1 Overview of the robot system

A robot system (>>> Fig. 3-1) comprises all the assemblies of an industrial robot, including the manipulator (mechanical system and electrical installations), controller, connecting cables, end effector (tool) and other equipment.

The industrial robot consists of the following components:

- Manipulator
- KUKA Sunrise Cabinet robot controller
- KUKA smartPAD control panel
- Connecting cables
- Software
- Options, accessories



Fig. 3-1: Overview of robot system

- 1 Connecting cable to the smartPAD
- 2 KUKA smartPAD control panel
- 3 Manipulator
- 4 Connecting cable to KUKA Sunrise Cabinet robot controller
- 5 KUKA Sunrise Cabinet robot controller

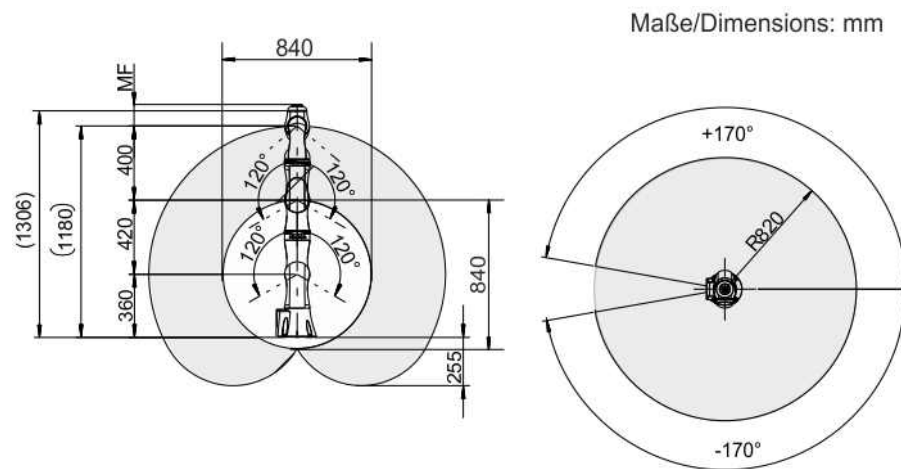


Fig. 4-4: Working envelope, LBR iiwa 14 R820



The height of the LBR iiwa depends on the media flange mounted on it. The dimensions of the media flange can be found in the Media Flange documentation.

4.3.3 Payloads, LBR iiwa 14 R820

Payloads

Rated payload	14 kg
Rated mass moment of inertia	0.3 kgm ²
Rated total load	14 kg
Rated supplementary load, base frame	0 kg
Maximum supplementary load, base frame	-
Rated supplementary load, rotating column	0 kg
Maximum supplementary load, rotating column	-
Rated supplementary load, link arm	0 kg
Maximum supplementary load, link arm	-
Rated supplementary load, arm	0 kg
Maximum supplementary load, arm	-
Nominal distance to load center of gravity	
L _{xy}	40 mm
L _z	44 mm

Load center of gravity P

For all payloads, the load center of gravity refers to the distance from the face of the mounting flange on axis A7.