

EcoRP E/L033i & E/L133i

Painting Robots in Modular Design

The 3rd generation of Dürr robots has a modular design. The **EcoRP E/L033i** and **EcoRP E/L133i** models with their 6-axis kinematics can be used for both painting and opening doors and hoods. Depending on the painting task, they are mounted on an **EcoRail X** traversing axis (**EcoRP E/L133i**) running above or below or installed stationary inside the spray booth without a rail (**EcoRP E/L033i**).

The modular concept was consistently implemented in the 6- and 7-axis kinematics (**EcoRP E043i**). The only difference between the variants is the additional rotary axis in the main arm. The otherwise identical components simplify spare parts management, save storage costs and facilitate maintenance work.

Quick-release fasteners facilitate the removal of the panels and provide very effective access for replacing the integrated pneumatic, control or high-voltage components. The color changer and dosing pump are mounted on the robot's front arm, thereby permitting rapid color changes with little paint loss and low flushing-agent consumption.

HIGHLIGHTS



Flexible arrangement in the spray booth
– Top or bottom
– Sloping hanging or standing
– Stationary or driven

Large work zone

Short arm 1 for interior painting possible

Integrated application technology

Integrated hose guide

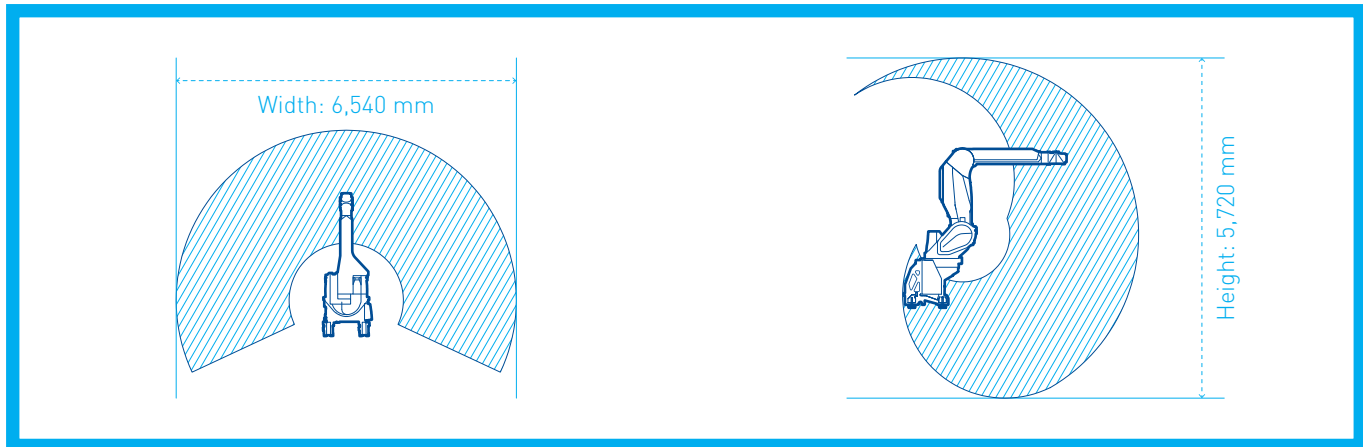
Maintenance-friendliness and easy accessibility to the integrated components

Less maintenance required

Maximum availability and life span

Technical Data

EcoRP E/L033i & E/L133i



L-Variant **EcoRP L033i**

PAINTING ROBOT – EcoRP E133i, EcoRP L133i, EcoRP E033i, EcoRP L033i

	Work zone	Max. speed
Axis 1 – Rotation of the robot	EcoRP E +/- 90° EcoRP L +/- 115°	115°/s
Axis 2, Arm 1 – Swiveling of the vertical arm (1,250 mm)	EcoRP E -55°/+110° EcoRP L -145°/+43°	115°/s
Axis 2, Arm 1 – Swiveling of the vertical arm (1,000 mm)	EcoRP E -35°/+110° EcoRP L -125°/+32°	115°/s
Axis 3 – Swiveling of the horizontal arm	-66°/+80°	115°/s
Axis 4 – hand axis	Individual +/- 720° max. in total +/- 540°	540°/s
Axis 5 – hand axis		
Axis 6 – hand axis		
Moving axis EcoRail X (optional)	max. 20 m	1.2 m/s
Max. TCP speed	2 m/s	
Max. TCP acceleration	8 m/s ²	
Positioning repeat accuracy	+/- 0,1 mm	
Empty weight (with application components)	ca. 830 kg	
Arm lengths	Arm 1: 1,250 mm / 1,000 mm · Arm 2: 1,726 mm	
Work zone (hand axis flange)	Height: 5,720 mm · Width: 6,540 mm	
Power for door handling/hood handling	200 N	
Loading at arm 1 and 2	je 30 kg	
Explosion protection	ATEX category 2, 3 FM approval for Class 1, Div 1	

Subject to change. The information in this brochure solely contains general descriptions and performance features, which may vary in specific cases of application. The desired performance features are only binding if they have been agreed upon explicitly at the conclusion of the contract. © Dürr 2019