

Arm robot

DCR-1300-10-6

DCR industrial robots can work almost anywhere and automate a wide range of tasks. They allow operators to do what they do best: creating and working together.

Easy to use, safe and reliable.

Implementation as well in small workshops than in larger factories.

Production of low to high runs of simple parts on small and medium-sized press brakes.

Plug, Set and Work



Main features

For the User

- One single CNC controlling both the robot and the press brake.
- Easy, user-friendly and significant time saving programming. The robot program is automatically generated from the bending program of the CNC.
- Perfect synchronization in real time between the press brake and the robot throughout the whole bending process.
- Major gains in production with higher productivity working in 2 shifts or even 24/7 production possible.
- Fast return on investment e.g. low investment and higher capacity without increasing the number of machines.
- With the help of the offline software (option), a 3D simulation before production can avoid unnecessary collision.

For the OEM

- Cybelec supplies the complete package e.g. the VisiTouch numerical control, the Infranor arm robot, software licenses and calibration tools.
- Precise mounting of the robot arm in front of the press brake is made easy by following Cybelec clear instructions.
- Very simple wiring between the CNC and the robot via EtherCAT fieldbus.
- Simple and accurate set-up and calibration thanks to autotuning.
- Full support from Cybelec, for example, to analyze the parts that can or cannot be manufactured.

Characteristics:

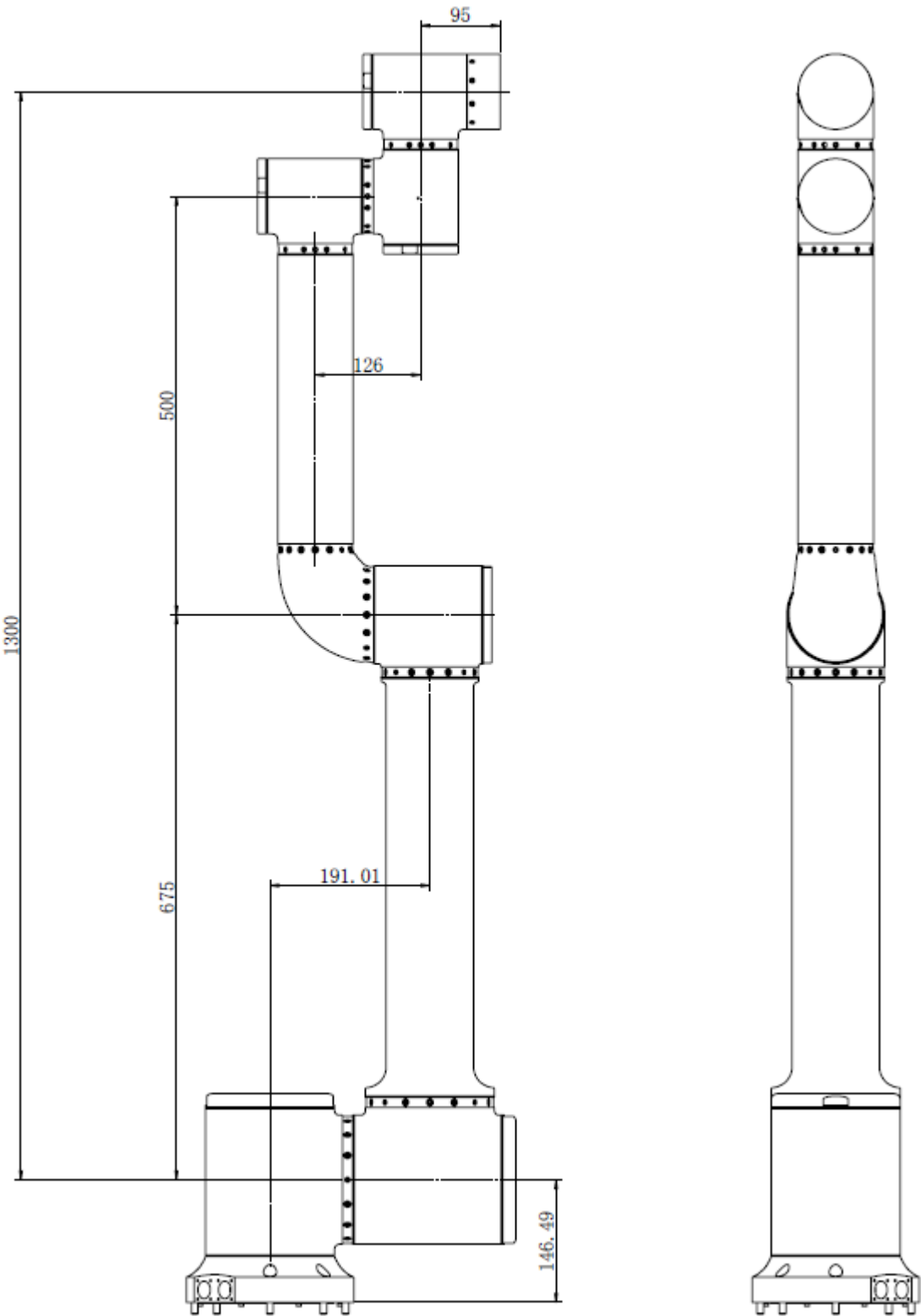
- Payload: 10 kg
- Reach length: 1300 mm

Technical Characteristics

DCR-1300-10-6	
Weight	38 kg
Payload	10 kg
Reach	1300 mm
Degrees of freedom	6
Repeat positioning accuracy	+/- 0,03 mm
IP class	IP54
Sensors	Six-dimensional torque sensor
I/O	2 Inputs 2 Outputs
End actuator velocity	<2m/s
Field bus	EtherCAT
Voltage	48V DC
Installation	Floor-mounted, inverted, cantilevered

Axis	Working range	Maximum speed
Joint 1	+/- 180°	125°/s
Joint 2	+/- 180°	125°/s
Joint 3	+/- 180°	125°/s
Joint 4	+/- 180°	180°/s
Joint 5	+/- 180°	180°/s
Joint 6	+/- 180°	180°/s

Dimensions



Structure



Calibration tools

Name	Description	File	
Robot Tool Holder	Interface part for DCR-1300-10 robot head and tools	Robot_Grip_Holder vB1.step	
Grip Index	Index pin for Grip Holders	Grip_Index vB0.step	
Die Calibration Tool	Calibration tool for pressbrake. Tool mounted on the die to calibrate the press plan	Die_assembly vB0.step	
Mobile Calibration Plate	Calibration plate for calibration/loading station and turning station	Calibration_plate_mobile vB1.step	
Calibration Sensor Including its USB cable	3D Touch probe sensor to calibrate the robot. Including its USB cable		
USB Endoscope Camera	Endoscope camera USB Help the operator to position the robot on the calibration tool. Cable length: 5m.		

Ordering information

Robot DCR including 48VDC power supply, without controller

DCR-1300-10-6	Payload 10 kg, Reach 1300 mm
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Software license for bending application

OFT-RAR	Arm robot control plugin (require 6 or 7 axes licenses)
OFT-VST-RB	PC offline VisiTouch software robot for bending

Calibration kit

RBT-SK-A	Robot calibration kit
	Including - Robot Tool Holder - Grip Index - Die Calibration Tool - Mobile Calibration Plate - USB Calibration Sensor - USB Endoscope Camera