

periplast
extrusion expertise



EXTRUBOT®

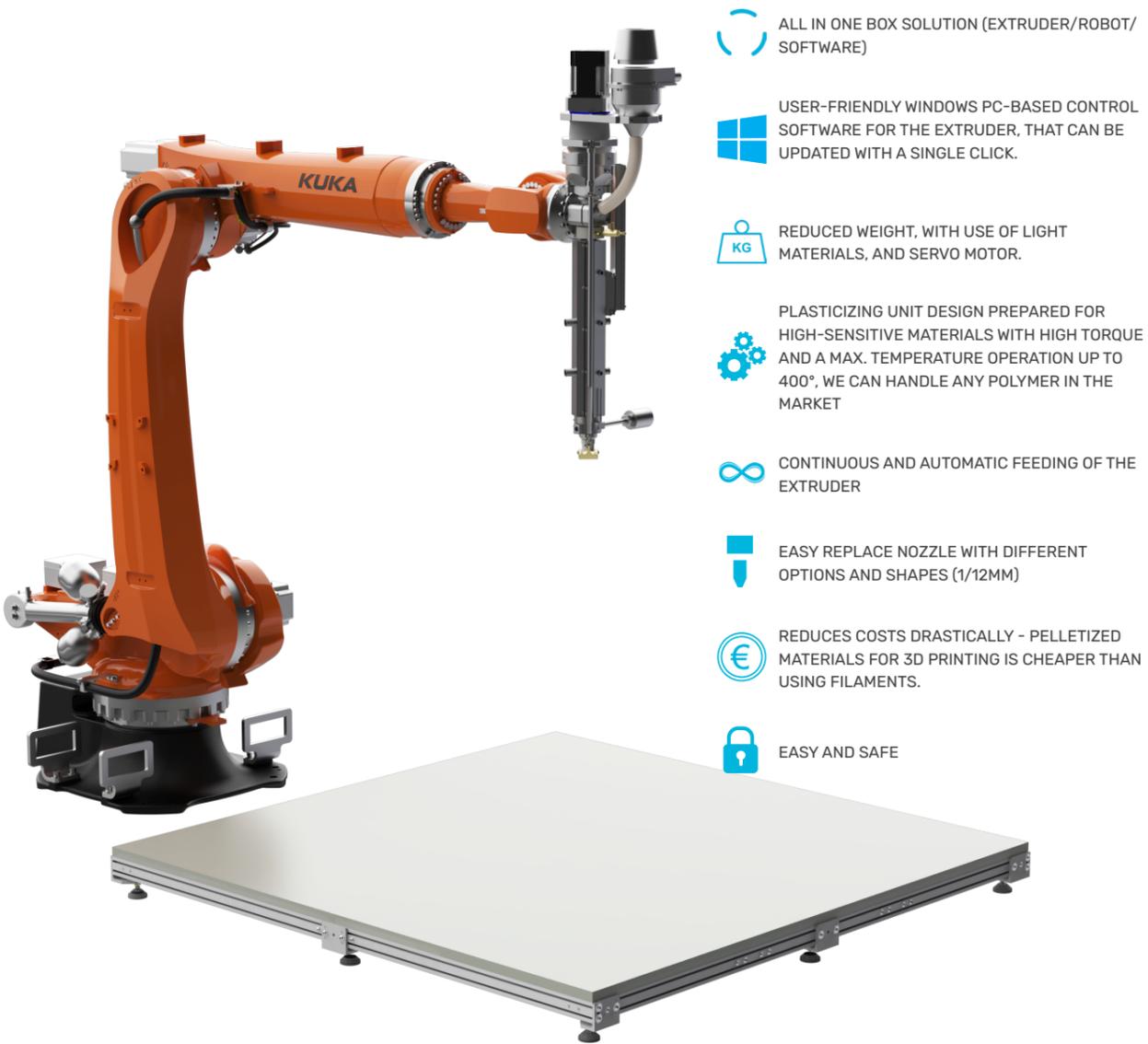
FOR PRINTING LARGE OBJECTS USING PLASTIC PELLETS

www.periplast.pt

ABOUT EXTRUBOT

Periplast is an extruder manufacturer for more than 30 years. We are experts in manufacturing small pellets extruders like Ø20 / Ø25 / Ø30 (co-extruders). We re-engineered these extruders and gave them a ROBOT life, creating our first 3d pellet extruder our new EXTRUBOT®

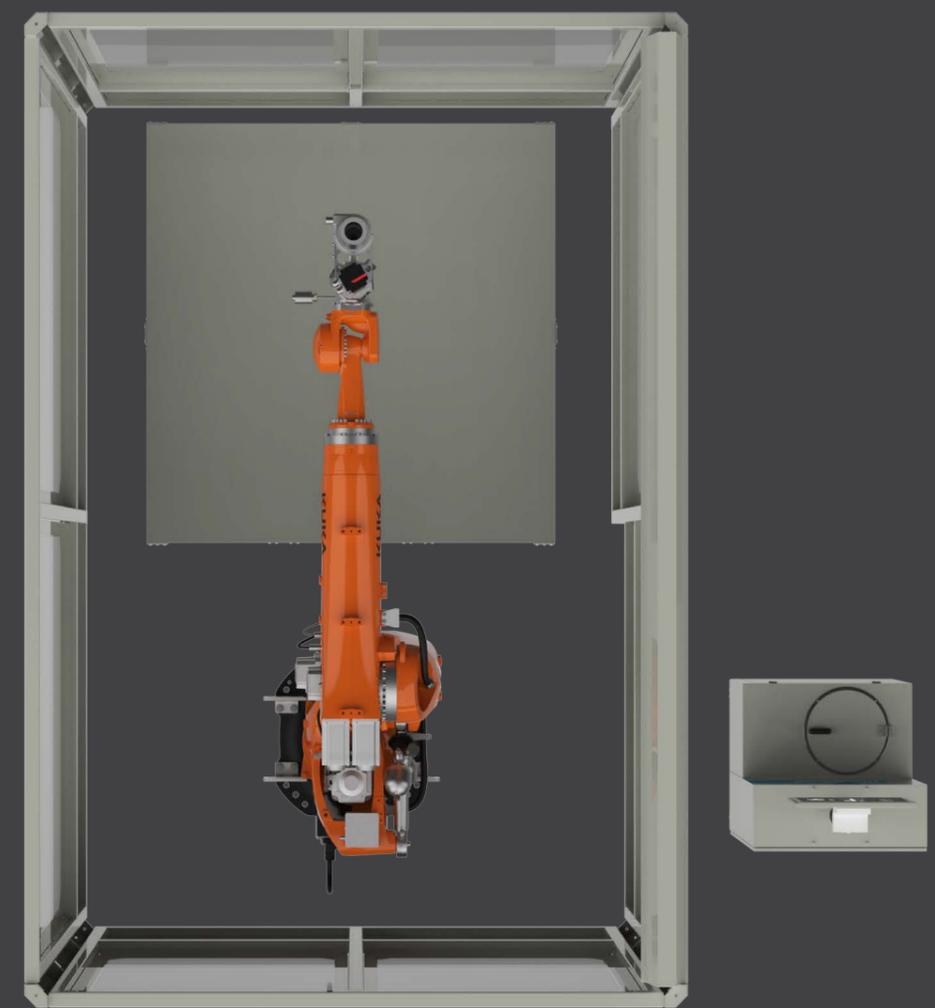
EXTRUBOT® DESIGN PRINCIPLES:



-  ALL IN ONE BOX SOLUTION (EXTRUDER/ROBOT/ SOFTWARE)
-  USER-FRIENDLY WINDOWS PC-BASED CONTROL SOFTWARE FOR THE EXTRUDER, THAT CAN BE UPDATED WITH A SINGLE CLICK.
-  REDUCED WEIGHT, WITH USE OF LIGHT MATERIALS, AND SERVO MOTOR.
-  PLASTICIZING UNIT DESIGN PREPARED FOR HIGH-SENSITIVE MATERIALS WITH HIGH TORQUE AND A MAX. TEMPERATURE OPERATION UP TO 400°, WE CAN HANDLE ANY POLYMER IN THE MARKET
-  CONTINUOUS AND AUTOMATIC FEEDING OF THE EXTRUDER
-  EASY REPLACE NOZZLE WITH DIFFERENT OPTIONS AND SHAPES (1/12MM)
-  REDUCES COSTS DRASTICALLY - PELLETIZED MATERIALS FOR 3D PRINTING IS CHEAPER THAN USING FILAMENTS.
-  EASY AND SAFE

FEATURES

-  THERMALLY INSULATED PROTECTIONS
-  PRECISE SERVO MOTOR
-  HEATING ZONES TO CONTROL EXTRUDER AND TOOLING W/ THERMOCOUPLES
-  RECIPES FOR DIFFERENT MATERIALS (SPEED, ZONE TEMPERATURE, HEATING BED TEMPERATURE, COOLING)



-  HIGH GRIP - PRINTING SURFACE
-  MATERIAL TRANSPORT DISTANCE: 10 METER
-  COMMUNICATION WITH THE ROBOT USING MASTER/SLAVE ETHERCAT PROTOCOL - OR DIGITAL/ANALOG SIGNALS

EXTRUDER SOFTWARE

PC-Base multi touch Screen (Extrusion Controller), designed for industrial extruders, giving you full control of the EXTRUBOT®



- ✔ Temperature Settings (Two Setpoints)
- ✔ Alarm log
- ✔ Different recipes for each product.
- ✔ Logging of the temperature, Drive speeds, Recipes and Operator Data

EXTRUDER MODEL

	Ø25x25D
SCREW	Ø25
BARREL ZONES	3
COOLING ZONES	3
SCREW (rpm)	150
OUTPUT (Kg/h)	12*
WEIGHT	40

* PP+ 30% Glass Fiber



EXTRAS:

- ✔ Nozzle close for zero leaking
- ✔ Punch roller
- ✔ Graphics and data record with SQL integration

ROBOT

We have teamed up with robot manufacturers to make the user experience easier and more reliable

Today we can supply the complete set:

- ✓ Robot
- ✓ Extruder
- ✓ Extruder feeding
- ✓ Software for controlling both
- ✓ Using Ethernet/IP protocol, we can connect both machines, having a two-way feedback.
- ✓ With our software integration we provide simple operation with import for major 3d softwares like Solidworks/Inventor/Fusion using *.STL files
- ✓ Integrated Dryer



FEEDING

ALL IN ONE - AUTOMATIC FEEDING

Our Integrated electric panel, computer, material storing and conveying is one solution for a complete and easy extruder operation, with up to 8 hours of printing without feeding.

- ✓ Continuous work only possible with the automatic feeding
- ✓ Material Storage >25KG
- ✓ Warning for low raw material
- ✓ Steady flow of plastic pellets to the extruder with a 10 meters hose
- ✓ Optional: Small Dryer for raw material





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