

Horizon

RD-4055

Rotary Die-cut System

**Simple, high quality,
compact rotary Die-cut system.**



Improve your die cutting process!
 Easy change over and simple operation.
 Allows flexibility across a wide range of products.



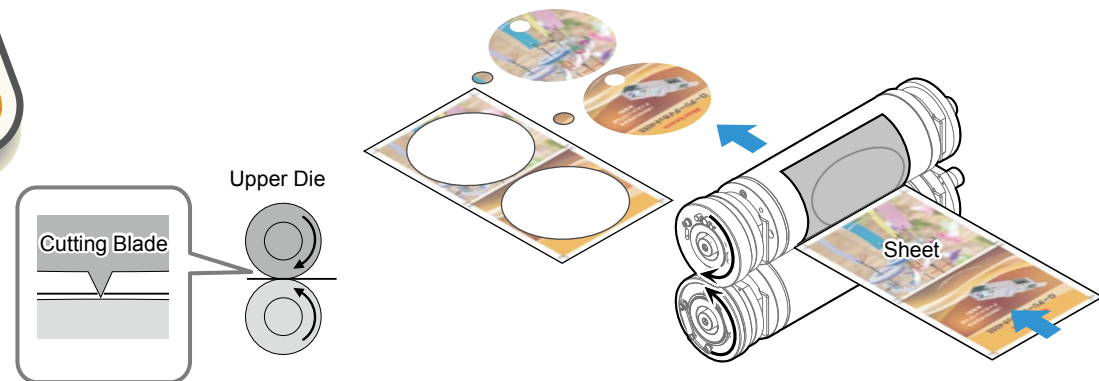
Features

- 1. Rotary Die-cut System (Max. 400 x 550 mm / 15.74" x 21.65")** - Rotary Die-Cutter designed to meet the growing demand for short run product.
- 2. Flexible substrate** - Die-cut, Crease, Perforation, Slit, Hole punch and round corner in various substrates up to 0.5 mm / 0.019" (only for die cutting) thickness for digital and offset printed sheets.
- 3. One pass processing** - Feeding, die cutting and separating are achieved in one pass at a speed of 6,000 cycles per hour.
- 4. Save the cost of making die** - Uniquely designed servo motor controlled "Repeat Register" feature allows multiple-up applications from single-up die to minimize die cost.
- 5. Simple and easy operation** - Reduces costly labor steps and increases productivity with easy setup and operation versus steel rule or mechanical dies.

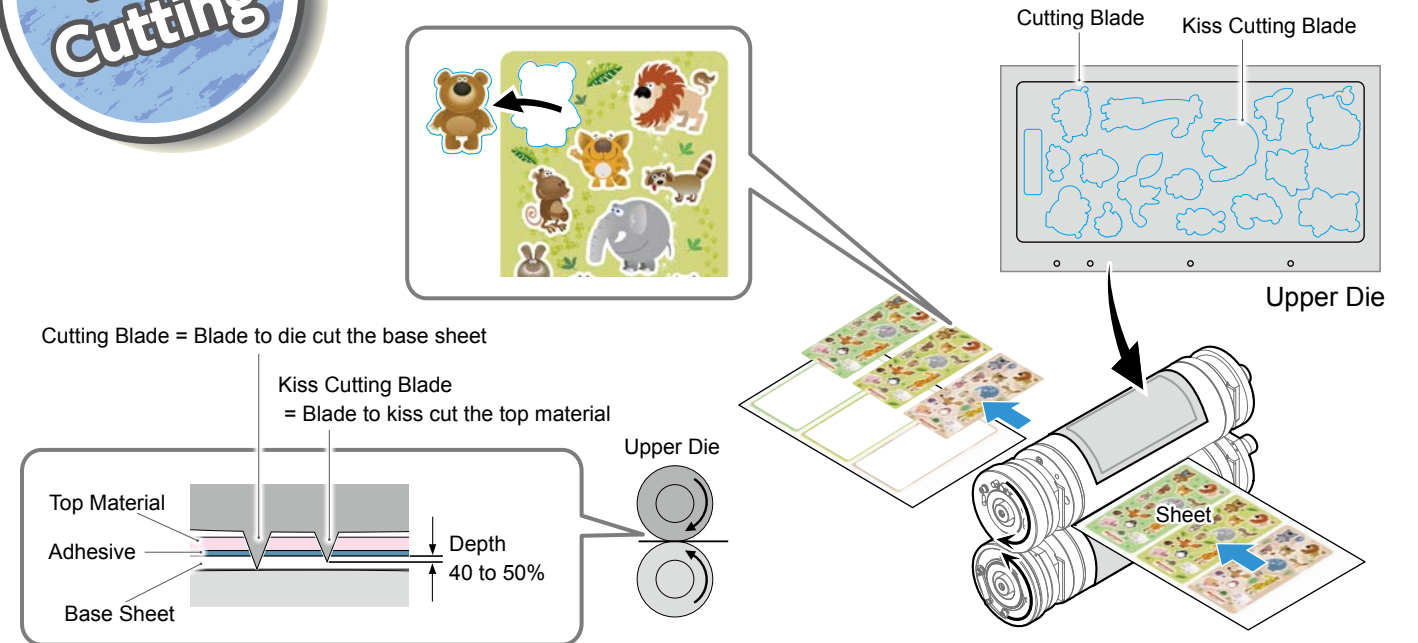
Rotary Die-cut System RD-4055 Features



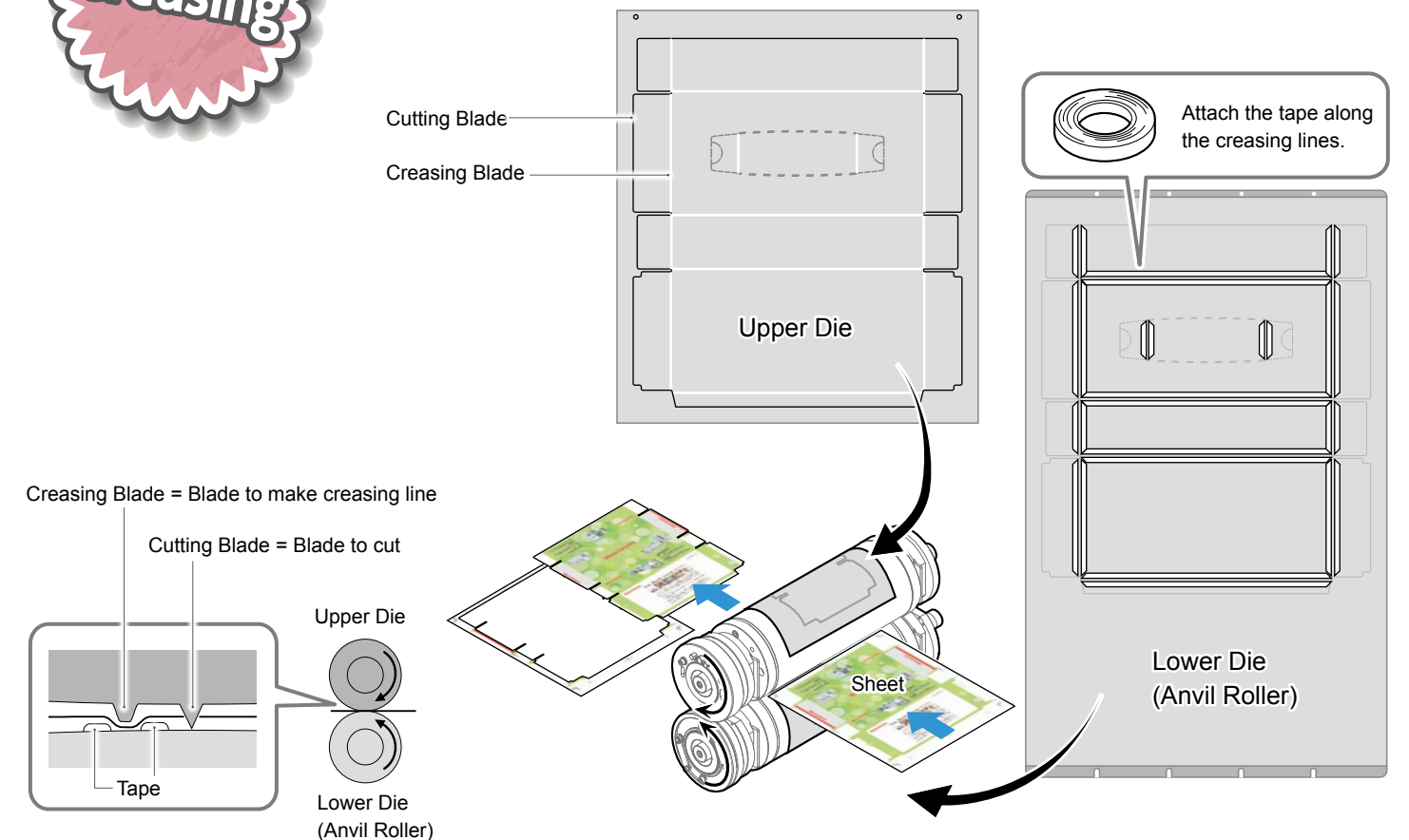
The sheet passes between the upper die and the lower anvil roller to cut.



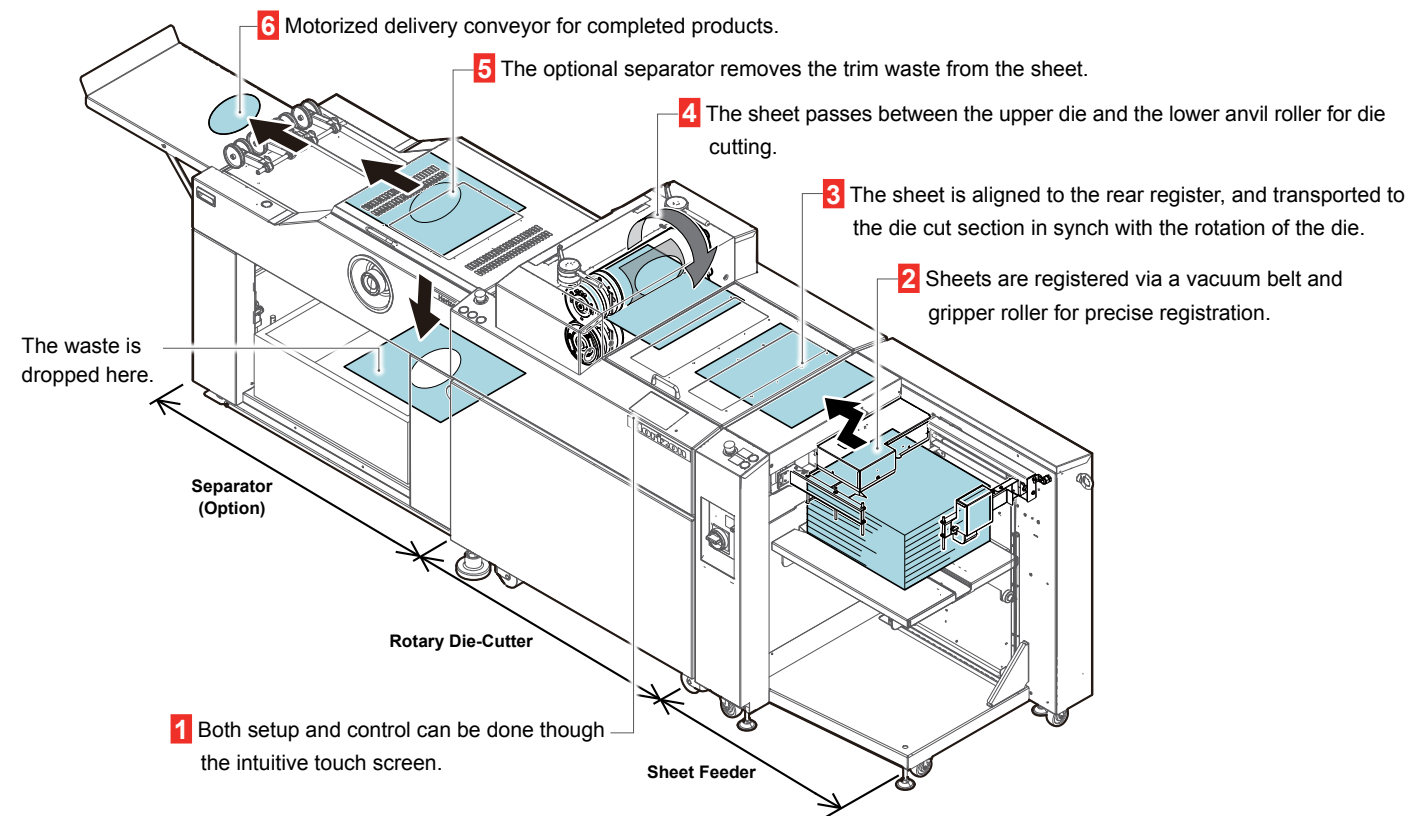
Die-cutting and kiss-cutting can be performed at the same time by using a die which has two different blade heights. RD-4055 is ideal for making stickers and labels.



Creasing can be achieved to avoid image cracking. Suitable for boxes, pocket folders and greeting cards which require an additional folding process after die cutting.



Sheet Flow of RD-4055



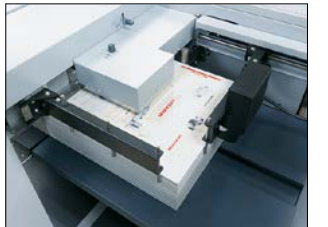
1 Operation Console

Both setup and control can be done through the intuitive touch screen. After setting upper and lower die, the system can be set up by simply inputting sheet size and product size. The graphical illustrations on the screen are simple and easy to understand.



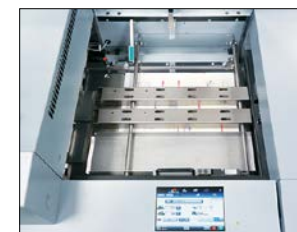
2 Feed Section

Vacuum belt feeding enables superior feeding with easy setup and operation. An ultrasonic sensor is used for double feed detection on a wide range of substrates.



3 Transport Section

Sheets are registered by vacuum belt and position is firmly secured with gripper rollers for high quality finish. Servo motor driven gripper rollers ensure the die cut position without effecting processing speed.



4 Die Cutting Section

Rigid magnetic upper roller and solid lower anvil roller ensure high quality die cutting. Uniquely designed die cutting section enables easy and quick die setting. Both 0.6 mm and 0.8 mm / 0.0236" and 0.0315" thickness of flexible die plates can be used.



5 Separator Option

The separator removes the waste from the finished product and delivers it to the waste bin. Air cylinder driven separator pins and air jets can be used depending on size of the waste.



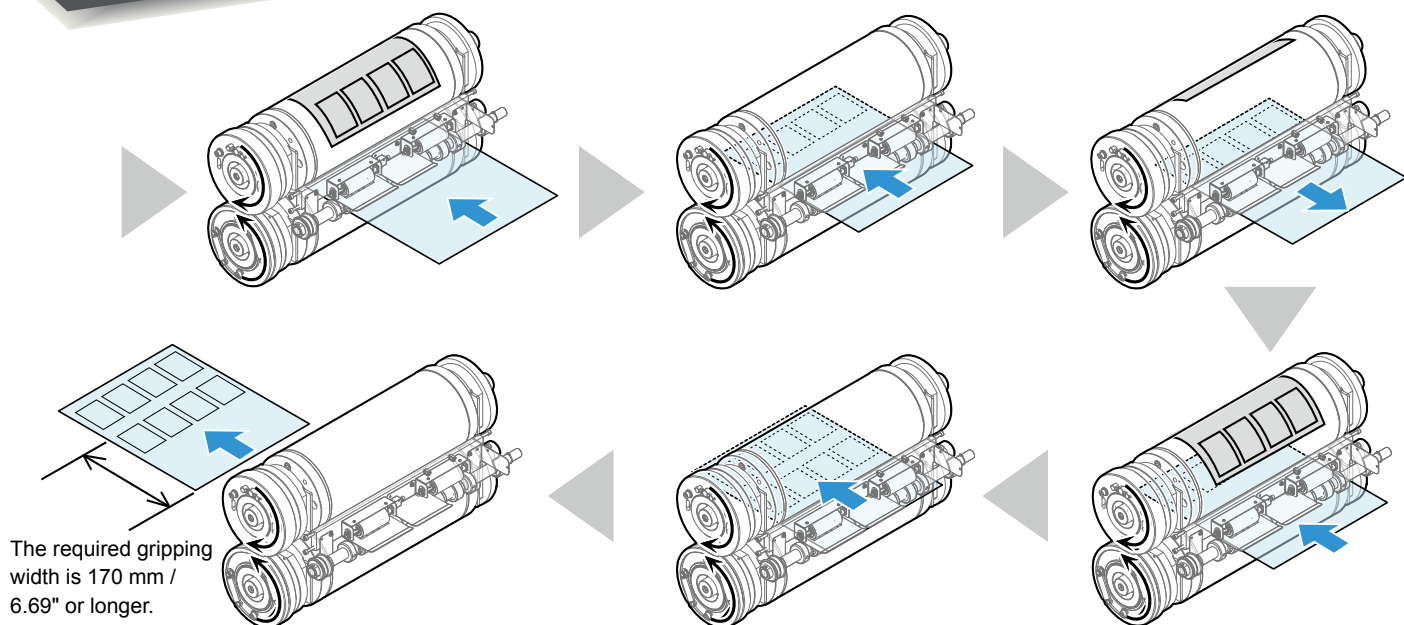
6 Delivery Section Supplied with the Separator

Finished products are delivered on the motorized conveyor. Intermittent conveyor movement maximizes the continuous operation in a small space. Gap can be adjusted depending on the size of the product for easy handling.



Reduce die cost
Repeat function

Repeat register function enables the running of multiple up imposed applications with a smaller die to reduce die cost. Up to 5 repeats in a single pass.



Machine Dimensions (Unit: mm / inch)

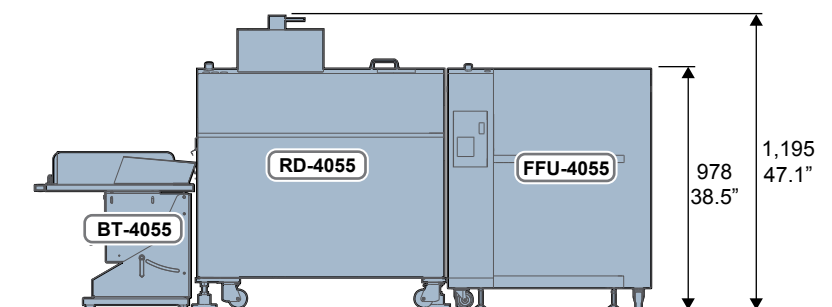
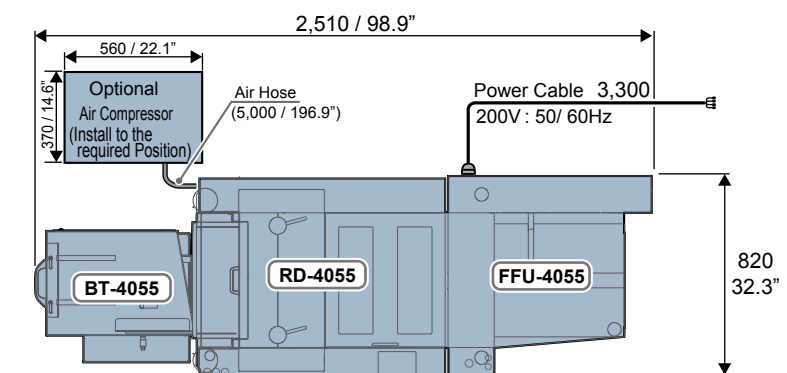
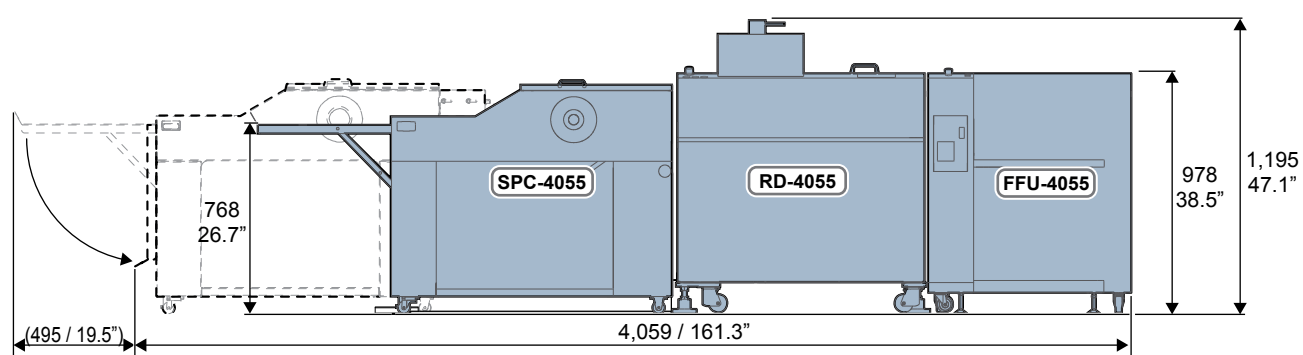
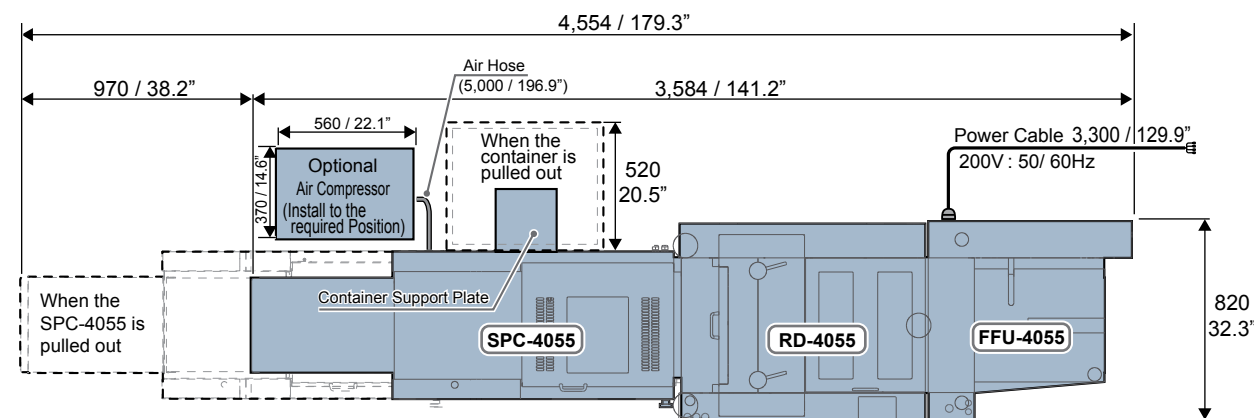
Provide 700 mm / 27.6" of space around the machine.
This space is necessary for machine access and operation.



Machine Configuration	
Unit Name	Model Name
Sheet Feeder	FFU-4055
Rotary Die-Cutter	RD-4055
Separator	SPC-4055
Receiving Tray	BT-4055

Receiving Tray BT-4055

Simple receiving tray in case separator is not used. The cut product and waste are delivered together.




Prepare the compressor to meet the following specifications.

Specifications for Compressor with Separator	
Output	0.75 kW or more
Required Pressure	0.5 MPa
Control Pressure	0.6 MPa or more

Prepare the compressor to meet the following specifications.

Specifications for Compressor with Receiving Tray	
Output	0.2 kW or more
Required Pressure	0.5 MPa
Control Pressure	0.6 MPa or more

RD-4055 Specifications			
Sheet Feeding System	Vacuum Belt Feed		
Sheet Size (Before processing)	Max. 400 x 550 mm / 15.74" x 21.65" Min. 200 x 275 mm / 7.88" x 10.83"		
Finished Size *The size may be limited depending on shape and sheet weight range.	 Width x Length	With separator	Max. 376 x 526 mm / 14.8" x 20.7" Min. 50 x 80 mm / 1.97" x 3.15"
		Without separator (with nick)	Max. 376 x 526 mm / 14.8" x 20.7" Min. Depending on die shape
Processed Material	Normal paper, Coated paper, Cardboard		
Material Thickness	127.9 to 400 gsm Die Cutting : Max. 0.5 mm / 0.019" Creasing : Max. 0.4 mm / 0.015"		
Feeder Pile Height	500 mm / 19.68"		
Upper Cutting Blade Height	0.6 mm or 0.8 mm / 0.0236" or 0.0315"		
Production Speed	6,000 cycles per hour		
Voltage/Frequency	Single Phase 200 to 240 V, 50 / 60 Hz		
Machine Dimensions	With Separator (FFU-4055+RD-4055+SPC-4055) W3,584 x D820 x H1,195 mm / W141.2" x D32.3" x H47.1"		
	Without Separator (FFU-4055+RD-4055) W2,510 x D820 x 1,195 mm / W98.9" x D32.3" x H47.1"		

Options

Lower Die Tool Kit LDK-4055	This kit includes the necessary tools and materials to help for preparing the lower die efficiently.
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*The machine design and specifications are subject to change without any notice.

Horizon

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