

# Syntron® Outside Track Bowls

The Outside Track (O.T.) Bowl is most commonly recognized for use in applications requiring moderate-to-high feed rates, multiple lines of feed, or where intricate tooling is required to properly orient the part.

Homer City Automation craftsmen create an outside track bowl by taking a basic stainless steel bowl core and adding an outside track and return pan. The outside track portion houses all of the specialized tooling needed to bring the part to its desired orientation. Parts that are incorrectly positioned fall from the track into the return pan for re-circulation. Correctly oriented parts advance to the discharge.

Because every application is unique, an appropriate bowl diameter, tooling technique and track design will be selected to obtain your desired feed rate and orientation.

## Versatile Pitch Designs

Homer City Automation manufactures the O.T. Bowl with two different inside track pitches; a standard track pitch as well as a low track pitch (pitch refers to the vertical distance between part tracks on the inside of the bowl).

Most applications use our standard track pitch, however there are applications where a low pitch is beneficial. The pitch is contingent upon the size, shape, weight and general condition of the part, along with its profile. Parts that require a low bowl stroke to obtain orientation generally favor a



*Syntron® outside track bowls are ideal for applications requiring intricate tooling to orient parts.*

low-pitch design. Parts that tend to coast backward when being fed, or parts with minimal contact surface are also examples.

Special pitches can be provided if required.

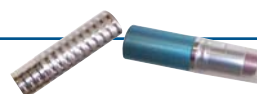
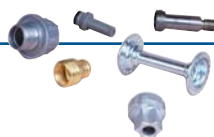
## Additional Features

Constructed of 304 stainless steel, the Outside Track Bowl features a minimum-to-maximum discharge height that is generally pre-determined based on the degree of tooling required to obtain the desired part orientation and feed rate.

If your application requires high feed rates, O.T. Bowls can be designed with multiple lines of feed, with each

line completely tooled to correctly orient the part. Once the lines are oriented, the parts converge back to one line of feed to produce extremely high feed rates.

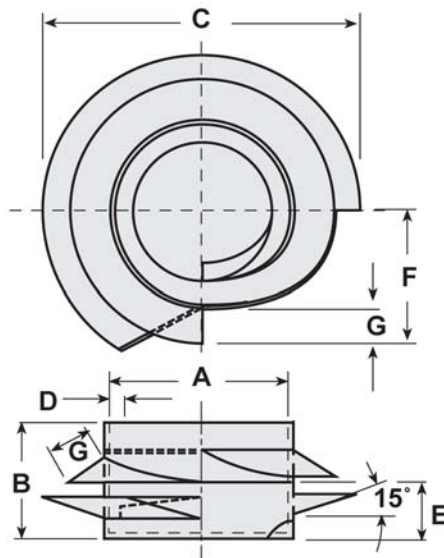
Optional bowl linings are available for noise reduction, enhanced part feeding and abrasive parts handling applications.



Recommended Core and Drive and Bowl Model	Bowl Description	A Bowl Diameter	B Bowl Height	C Bowl Diameter w/ O. T.	D Track Width	E Discharge Height w/ O. T.		F Centerline Bowl to Discharge	G Outside Track Width	Approx. Bowl Weight (lbs)	Max Part Dimension
						Min	Max				
<b>EB-112-A</b> 10SW12 - OT 10SW14 - OT	Std. Track Pitch	10	6 <sup>3</sup> / <sub>4</sub>	15 <sup>1</sup> / <sub>4</sub>	<sup>3</sup> / <sub>4</sub>	3 <sup>5</sup> / <sub>8</sub>	4 <sup>5</sup> / <sub>8</sub>	7 <sup>1</sup> / <sub>8</sub>	2	13	<sup>1</sup> / <sub>2</sub>
	Low Track Pitch	10	6 <sup>15</sup> / <sub>16</sub>	--	<sup>7</sup> / <sub>8</sub>	3 <sup>3</sup> / <sub>8</sub>	5 <sup>1</sup> / <sub>8</sub>	--	--	13	<sup>1</sup> / <sub>2</sub>
<b>EB-132-A</b> 12SW16 - OT 12SW16 - OT	Std. Track Pitch	12	7 <sup>15</sup> / <sub>16</sub>	19 <sup>1</sup> / <sub>8</sub>	1	4	5	9 <sup>1</sup> / <sub>8</sub>	3	19	<sup>3</sup> / <sub>4</sub>
	Low Track Pitch	12	7 <sup>1</sup> / <sub>2</sub>	--	1	3 <sup>3</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>8</sub>	--	--	19	<sup>3</sup> / <sub>4</sub>
<b>Legacy (UM-15-S)</b> 12SW16 - OT 12SW16 - OT	Std. Track Pitch	12	7 <sup>15</sup> / <sub>16</sub>	19 <sup>1</sup> / <sub>8</sub>	1	4	5	9 <sup>1</sup> / <sub>8</sub>	3	19	<sup>3</sup> / <sub>4</sub>
	Low Track Pitch	12	7 <sup>1</sup> / <sub>2</sub>	--	1	3 <sup>3</sup> / <sub>4</sub>	5 <sup>5</sup> / <sub>8</sub>	--	--	19	<sup>3</sup> / <sub>4</sub>
<b>EB-162-A</b> 15SW20 - OT 15SW20 - OT	Std. Track Pitch	15	9 <sup>3</sup> / <sub>8</sub>	23 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	29	1 <sup>1</sup> / <sub>2</sub>
	Low Track Pitch	15	9	--	1 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	--	--	29	1 <sup>1</sup> / <sub>2</sub>
<b>Legacy (UM-15-L)</b> 15SW20 - OT 15SW20 - OT	Std. Track Pitch	15	9 <sup>3</sup> / <sub>8</sub>	23 <sup>5</sup> / <sub>8</sub>	1 <sup>1</sup> / <sub>4</sub>	4 <sup>3</sup> / <sub>4</sub>	6 <sup>1</sup> / <sub>4</sub>	11 <sup>1</sup> / <sub>8</sub>	3 <sup>1</sup> / <sub>2</sub>	29	1 <sup>1</sup> / <sub>2</sub>
	Low Track Pitch	15	9	--	1 <sup>1</sup> / <sub>4</sub>	4 <sup>1</sup> / <sub>8</sub>	6 <sup>3</sup> / <sub>8</sub>	--	--	29	1 <sup>1</sup> / <sub>2</sub>
<b>EB-192-A</b> 18SW32 - OT 18SW24 - OT	Std. Track Pitch	18	10 <sup>3</sup> / <sub>4</sub>	29	2	5 <sup>1</sup> / <sub>4</sub>	7 <sup>1</sup> / <sub>4</sub>	13 <sup>1</sup> / <sub>8</sub>	4	41	2
	Low Track Pitch	18	10 <sup>7</sup> / <sub>8</sub>	--	1 <sup>1</sup> / <sub>2</sub>	5	7 <sup>5</sup> / <sub>8</sub>	--	--	41	2
<b>EB-222-A</b> 21SW36 - OT 21SW28 - OT	Std. Track Pitch	21	12 <sup>3</sup> / <sub>16</sub>	32 <sup>3</sup> / <sub>4</sub>	2 <sup>1</sup> / <sub>4</sub>	5 <sup>1</sup> / <sub>4</sub>	8 <sup>1</sup> / <sub>4</sub>	14 <sup>5</sup> / <sub>8</sub>	4	59	3
	Low Track Pitch	21	12 <sup>1</sup> / <sub>8</sub>	--	1 <sup>3</sup> / <sub>4</sub>	5 <sup>3</sup> / <sub>8</sub>	8 <sup>3</sup> / <sub>4</sub>	--	--	59	3
<b>EB-252-A</b> 24SW44 - OT 24SW32 - OT	Std. Track Pitch	24	13 <sup>3</sup> / <sub>8</sub>	37 <sup>3</sup> / <sub>4</sub>	2 <sup>3</sup> / <sub>4</sub>	5 <sup>3</sup> / <sub>4</sub>	9	17 <sup>1</sup> / <sub>8</sub>	5	75	4
	Low Track Pitch	24	13 <sup>3</sup> / <sub>4</sub>	--	2	5 <sup>7</sup> / <sub>8</sub>	9 <sup>1</sup> / <sub>2</sub>	--	--	75	4
<b>EB-322-A</b> 30SW48 - OT 30SW40 - OT	Std. Track Pitch	30	16 <sup>3</sup> / <sub>4</sub>	45 <sup>3</sup> / <sub>4</sub>	3	7 <sup>3</sup> / <sub>4</sub>	11 <sup>3</sup> / <sub>8</sub>	21 <sup>1</sup> / <sub>8</sub>	6	109	6
	Low Track Pitch	30	16 <sup>5</sup> / <sub>8</sub>	--	2 <sup>1</sup> / <sub>2</sub>	6 <sup>5</sup> / <sub>8</sub>	11 <sup>1</sup> / <sub>2</sub>	--	--	109	6

**EB-372-A**

Consult factory for recommended bowl size.



Clockwise and counter-clockwise bowls are available.