Part Name Quantity Dimensions Ref. PART#

Base 1 160 mm x 190 mm x 7 mm

Main drive shaft diameter: 6.5 mm

Platform support dowel pin diameter: 5 mm

Platform supports 2 15 mm x 19 mm x 115 mm 7

Platform supports - crankshaft 2 15 mm x 19 mm x 115 mm

Crankshaft diameter: 5 mm

Platform support dowel pins\* 8 Diameter: 5 mm, Length: 15 mm 21

Small gears 2 Diameter: 48 mm, Thickness: 7 mm 3

Small gear dowel pins\* 8 Diameter: 5 mm, Length: 40 mm 2

Main drive shaft diameter: 6.5 mm

Large gear 1 Diameter 88 mm, Thickness 7 mm 6

Large gear dowel pins\* 16 Diameter: 5 mm, Length: 25 mm 5

Crankshaft diameter: 5 mm

Crankshaft 1 Diameter: 5 mm, Length: 170 mm 9

Crankshaft spacer 1 Diameter: 18 mm, Height: 20 mm 15

Crankshaft: 5 mm

Main drive shaft 1 Diameter: 6.5 mm, Length: 175 mm 10

Main drive shaft holder 1 Diameter: 16 mm, Height: 7 mm 14

Main drive shaft diameter: 6.5 mm

Handle 1 10 mm x 10 mm x 35 mm 18

Handle dowel pin diameter: 5 mm

Handle dowel pin 1 Length: 30 mm, Diameter: 5 mm 18

Plastic Spacer 1 Diameter: 7 mm, Height: 4.5 mm 19

Crankshaft diameter: 5 mm

Lower platform 1 Diameter: 155 mm, Thickness: 7 mm

Main drive shaft diameter: 6.5 mm

Platform support dowel pin diameter: \_\_\_\_ mm

\*Note: Select an appropriate dowel pin diameter from the dowel pin diameter size table.

Part Name Quantity Dimensions Ref PART#

Ring 1 Outer diameter: 155 mm

Inner diameter: 108 mm

Thickness: 5 mm

Inner Platform 1 Diameter: 96 mm, Thickness: 7 mm

Main drive shaft diameter: 6.5 mm

Pushing drum 1 Diameter: 30 mm, Thickness: 29 mm 12

Main drive shaft diameter: 6.5 mm

Pushing drum dowel pins\* 4 Diameter: 5 mm, Length: 35 mm 13

Mast\*\*\* 1 Diameter: 15 mm, Length: 181 mm 20

Main drive shaft diameter: 6.5 mm

Canopy support dowel pin diameter: 5 mm

Mast collar 1 Diameter: 46 mm, Thickness: 5 mm 16

Mast diameter: 15 mm

Mast support\*\*\* 3 Thickness: 4.5 mm 17

Canopy rim\*\* 1 Width: 10 mm, Thickness: 3 mm 4

Canopy\*\* 1 Thickness: 0.5 mm

The sweeping width of the canopy is constrained by

the length of the canopy support dowel pins.

Canopy support dowel pins\* Diameter: \_\_\_\_ mm 11

1 Length: 85 mm

2 Length: 105 mm

1 Length: 115 mm

1 Length: 120 mm

2 Length: 130 mm

Screw eye 4 Outer diameter: 10 mm, Height: 20 mm, 8

2 mm diameter rod

\*Note: Select an appropriate dowel pin diameter from the dowel pin diameter size table.

\*\*Note: Both canopy and canopy rims can be modeled together as one part.

\*\*\*Note: A 3-View Drawing is provided for this part.

Dowel Pin Diameter Size Table

4.0 mm

4.5 mm

5.0 mm

5.5 mm

6.0 mm

6.5 mm

7.0 mm

Select an appropriate size dowel diameter for the application/part.

For example, the main crankshaft is 6.5 mm, make sure all the parts the main crankshaft passes through has a 6.5 mm diameter hole. One part that is missing this dimension is the pushing drum. Since the main crankshaft passes through this part, it needs a 6.5 mm hole throughout.