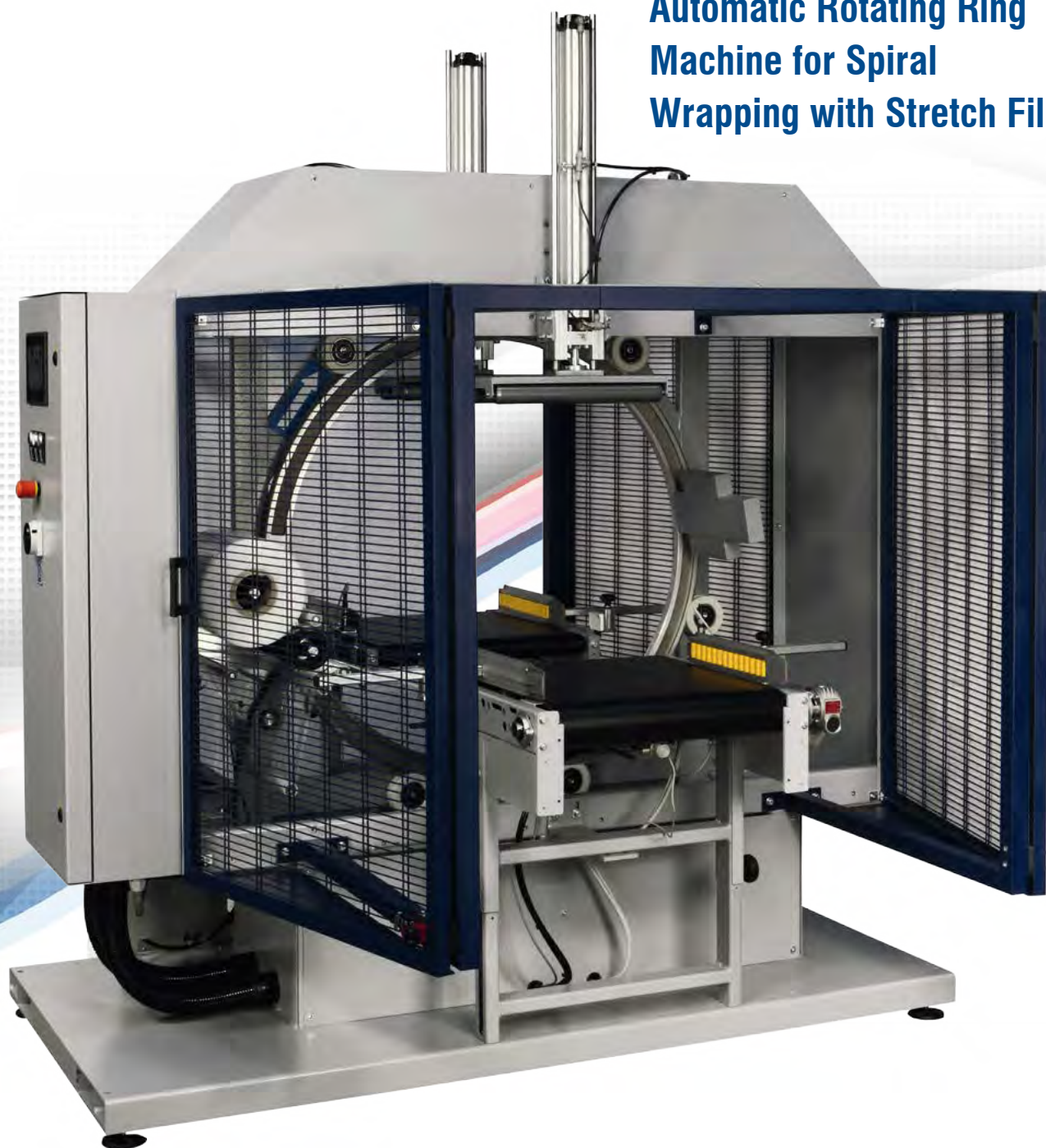


ORBIT

Automatic Rotating Ring
Machine for Spiral
Wrapping with Stretch Film



ROBOPAC 

overview

ORBIT

Our Orbit line provides high-speed and high-performance on entry level horizontal machines that can be added to existing to work cells or integrated lines.

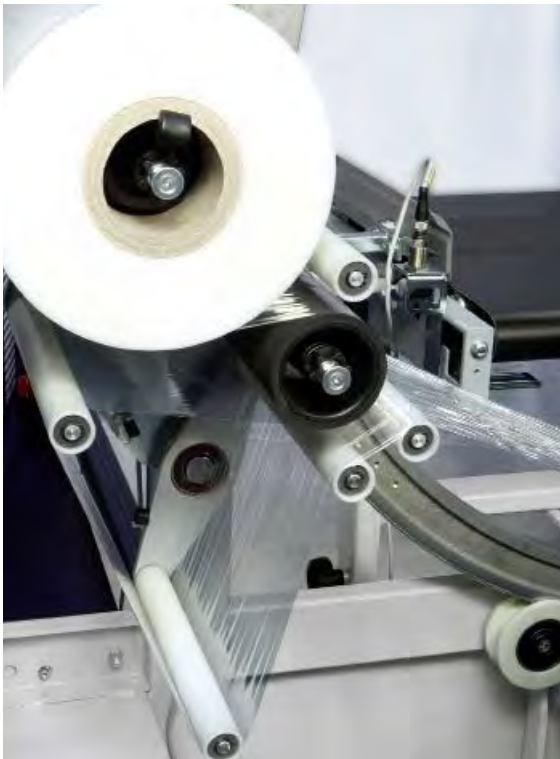
ORBIT is a rotating ring machine for spiral stretch wrapping of elongated products. The machine is equipped with electro-welded mesh safety guards to protect the operator during operation.

All Orbit machines are equipped with safety options that adhere to rigorous European safety standards.

Units are available in a variety of power supplies and with different product sealing devices. This versatility allows our Orbit Range machines to quickly and easily adapt to different product types, shapes and sizes and makes them the ideal solution for almost any application.

Robopac leads the industry with innovative products and solutions. The new Orbit machines prove that we are committed to providing you with the best machines combined with the latest technology. Our engineers wouldn't allow us to do it any other way.

safety



ROBOPAC understands the importance of plant safety in today's manufacturing environment. Our engineers have incorporated features designed to reduce possible injuries while maintaining the highest possible output.

Every unit features electro-welded mesh doors that provide easy access for machine maintenance. Each door is equipped with a safety microswitch that prohibits machine operation if open to guarantee operator safety.



Specifications

- **Power Transmission:** Belt Driven Rotation
- **Max. Rotation Speed (RPM):** 160
- **Wrapping Cycle:** Fully Automatic, Banding, or Head-Tail Only
- **Powered Conveyors for Infeed & Outfeed:** 24"
- **Pneumatic Pressure Units for Infeed & Outfeed:** Standard
- **Pneumatic Cold Cutting & Clamping Unit:** Standard
- **Pre-Stretch:** Friction Roll
- **Constant Film Tensioning:** Yes
- **Power Supply Voltage:** 480 V, 3 PH
- **Installed Power:** 1.2 HP
- **Working Pressure:** 90 PSI
- **Film Width:** 5"
- **Maximum Ext. Diameter:** 8"
- **Core Diameter:** 3"



ORBIT

Orbit 4

Advantages

- ✓ Ideal for processing wood moldings
- ✓ Ideal for processing aluminum & plastic extrusions
- ✓ Ideal for processing textiles & carpets
- ✓ Ideal for processing pvc pipe
- ✓ Minimum Maintenance
- ✓ Field Proven Technology
- ✓ Built for Rugged Operations
- ✓ Safe & Simple Operation
- ✓ Doesn't Cause Product Damage
- ✓ Warranty/Extended Warranty
- ✓ Conveyor Infeed & Outfeed
- ✓ Automatic Cycle Start
- ✓ Icon Driven Color Touchscreen

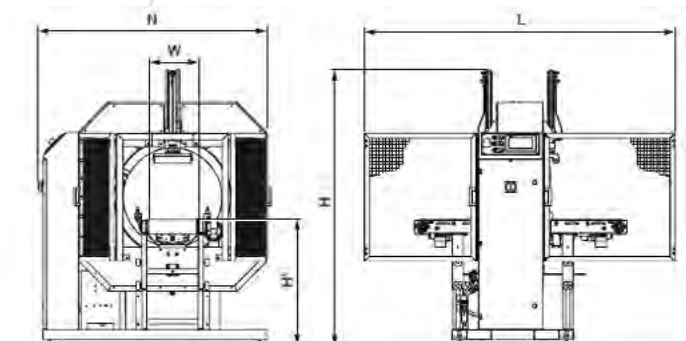
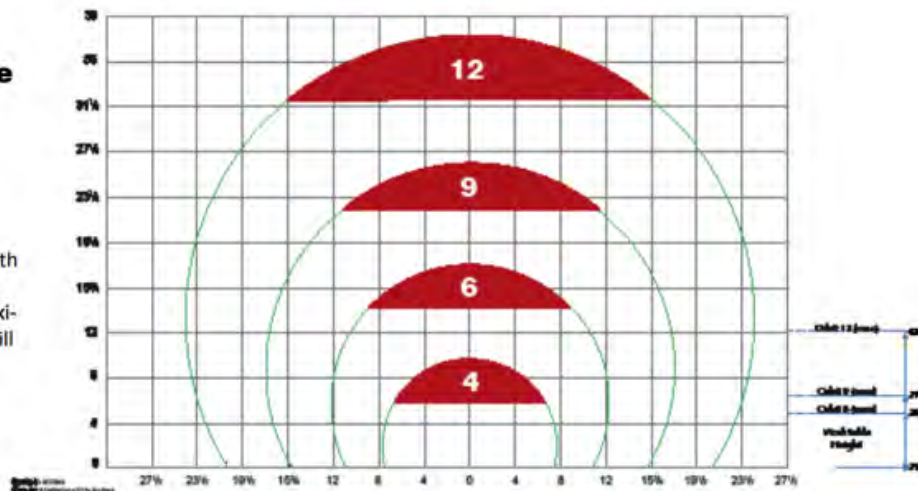
Layouts & Wrapping Dimensions

Workable Wrapping Area

Minimum Workable Dimensions

Orbit 6: 2¼" x 2¼"
Orbit 9: 3½" x 3½"
Orbit 12: 6" x 6"

Dimensions refer to infeed with conveyor belts on rollers. For other types of conveyors, maximum workable dimensions will be provided by Robopac.



Specifications

- **Power Transmission:** Belt Driven Rotation
- **Max. Rotation Speed (RPM):** 120
- **Wrapping Cycle:** Fully Automatic, Banding, or Head-Tail Only
- **Powered Conveyors for Infeed & Outfeed:** 24"
- **Pneumatic Pressure Units for Infeed & Outfeed:** Standard
- **Pneumatic Cold Cutting & Clamping Unit:** Standard
- **Pre-Stretch:** Friction Roll
- **Constant Film Tensioning:** Yes
- **Power Supply Voltage:** 480 V, 3 PH
- **Installed Power:** 1.5 HP
- **Working Pressure:** 90 PSI
- **Film Width:** 5"
- **Maximum Ext. Diameter:** 8"
- **Core Diameter:** 3"



ORBIT

Orbit 6

Advantages

- ✓ Ideal for processing wood moldings
- ✓ Ideal for processing aluminum & plastic extrusions
- ✓ Ideal for processing textiles & carpets
- ✓ Ideal for processing pvc pipe
- ✓ Minimum Maintenance
- ✓ Field Proven Technology
- ✓ Built for Rugged Operations
- ✓ Safe & Simple Operation
- ✓ Doesn't Cause Product Damage
- ✓ Warranty/Extended Warranty
- ✓ Conveyor Infeed & Outfeed
- ✓ Automatic Cycle Start
- ✓ Icon Driven Color Touchscreen

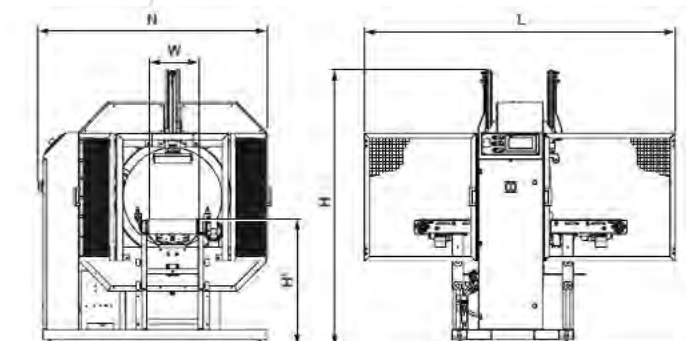
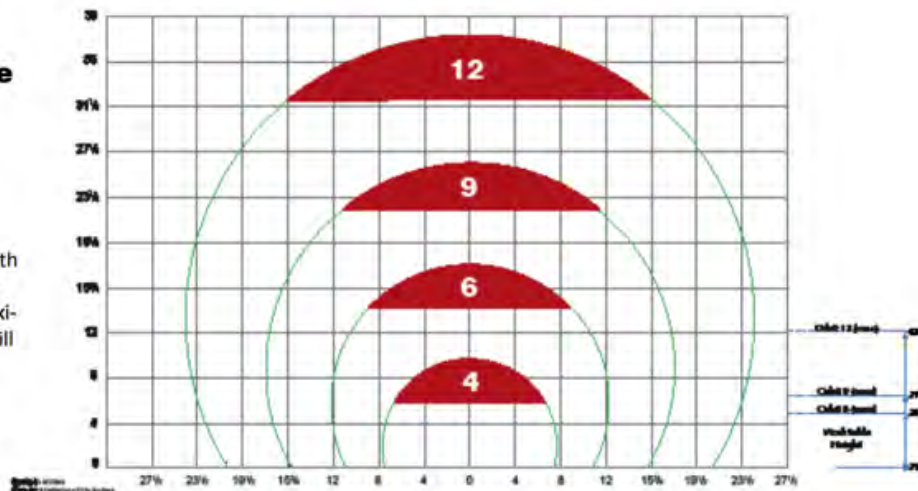
Layouts & Wrapping Dimensions

Workable Wrapping Area

Minimum Workable Dimensions

Orbit 6: 2¼" x 2¼"
Orbit 9: 3½" x 3½"
Orbit 12: 6" x 6"

Dimensions refer to infeed with conveyor belts on rollers. For other types of conveyors, maximum workable dimensions will be provided by Robopac.



Specifications

- **Power Transmission:** Belt Driven Rotation
- **Max. Rotation Speed (RPM):** 75
- **Wrapping Cycle:** Fully Automatic, Banding, or Head-Tail Only
- **Powered Conveyors for Infeed & Outfeed:** 24"
- **Pneumatic Pressure Units for Infeed & Outfeed:** Standard
- **Pneumatic Cold Cutting & Clamping Unit:** Standard
- **Pre-Stretch:** Friction Roll
- **Constant Film Tensioning:** Yes
- **Power Supply Voltage:** 480 V, 3 PH
- **Installed Power:** 1.5 HP
- **Working Pressure:** 90 PSI
- **Film Width:** 5"
- **Maximum Ext. Diameter:** 8"
- **Core Diameter:** 3"



ORBIT ORBIT 9

Advantages

- ✓ Ideal for processing wood moldings
- ✓ Ideal for processing aluminum & plastic extrusions
- ✓ Ideal for processing textiles & carpets
- ✓ Ideal for processing pvc pipe
- ✓ Minimum Maintenance
- ✓ Field Proven Technology
- ✓ Built for Rugged Operations
- ✓ Safe & Simple Operation
- ✓ Doesn't Cause Product Damage
- ✓ Warranty/Extended Warranty
- ✓ Conveyor Infeed & Outfeed
- ✓ Automatic Cycle Start
- ✓ Icon Driven Color Touchscreen

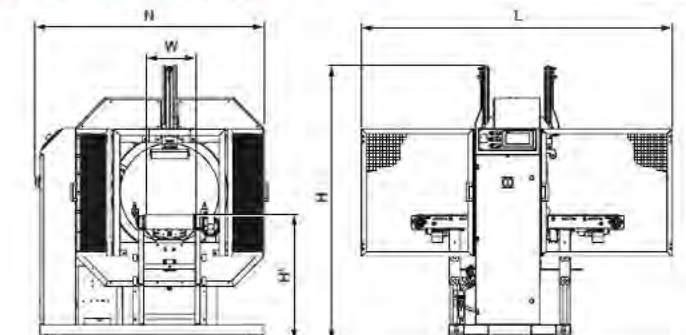
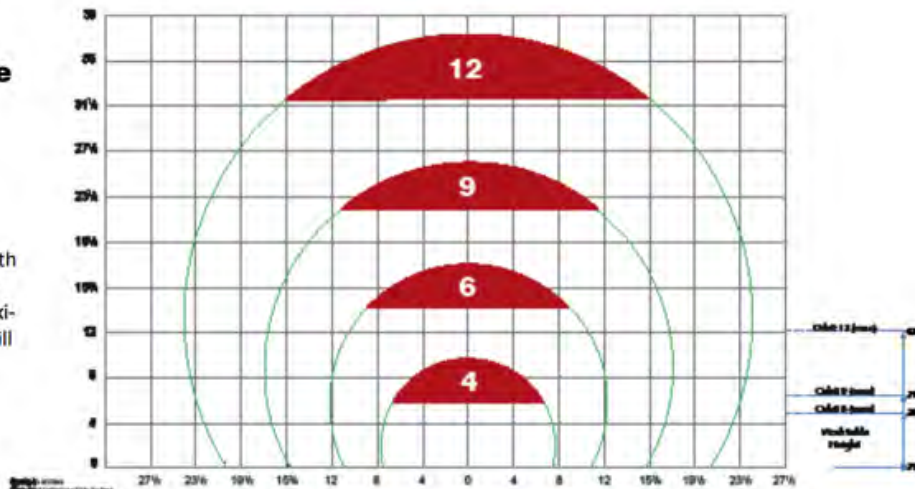
Layouts & Wrapping Dimensions

Workable Wrapping Area

Minimum Workable Dimensions

Orbit 6: 2¼" x 2¼"
Orbit 9: 3½" x 3½"
Orbit 12: 6" x 6"

Dimensions refer to infeed with conveyor belts on rollers. For other types of conveyors, maximum workable dimensions will be provided by Robopac.



Specifications

- **Power Transmission:** Belt Driven Rotation
- **Max. Rotation Speed (RPM):** 58
- **Wrapping Cycle:** Fully Automatic, Banding, or Head-Tail Only
- **Powered Conveyors for Infeed & Outfeed:** 33.5"
- **Pneumatic Pressure Units for Infeed & Outfeed:** Standard
- **Pneumatic Cold Cutting & Clamping Unit:** Standard
- **Pre-Stretch:** Friction Roll
- **Constant Film Tensioning:** Yes
- **Power Supply Voltage:** 480 V, 3 PH
- **Installed Power:** 2.5 HP
- **Working Pressure:** 90 PSI
- **Film Width:** 10"
- **Maximum Ext. Diameter:** 10"
- **Core Diameter:** 3"



ORBIT

Orbit 12

Advantages

- ✓ Ideal for processing wood moldings
- ✓ Ideal for processing aluminum & plastic extrusions
- ✓ Ideal for processing textiles & carpets
- ✓ Ideal for processing pvc pipe
- ✓ Minimum Maintenance
- ✓ Field Proven Technology
- ✓ Built for Rugged Operations
- ✓ Safe & Simple Operation
- ✓ Doesn't Cause Product Damage
- ✓ Warranty/Extended Warranty
- ✓ Conveyor Infeed & Outfeed
- ✓ Automatic Cycle Start
- ✓ Icon Driven Color Touchscreen

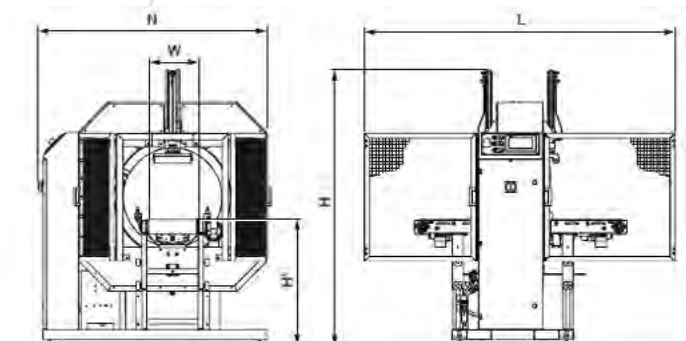
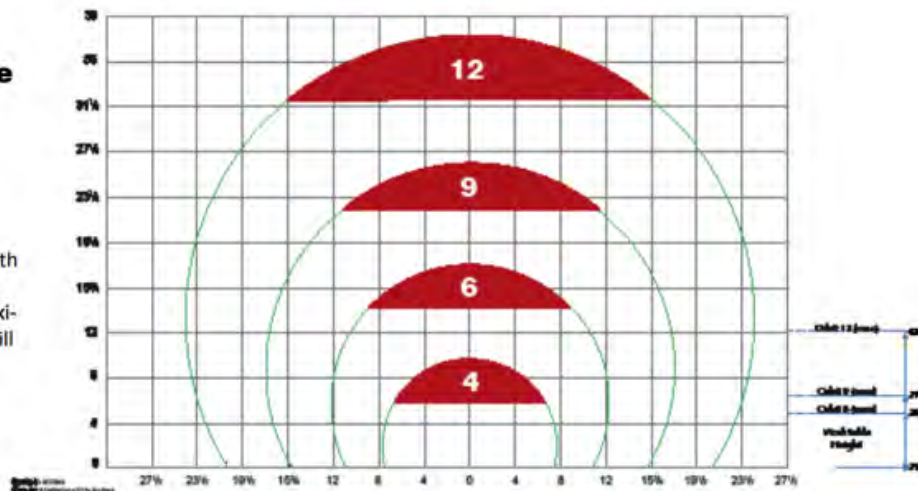
Layouts & Wrapping Dimensions

Workable Wrapping Area

Minimum Workable Dimensions

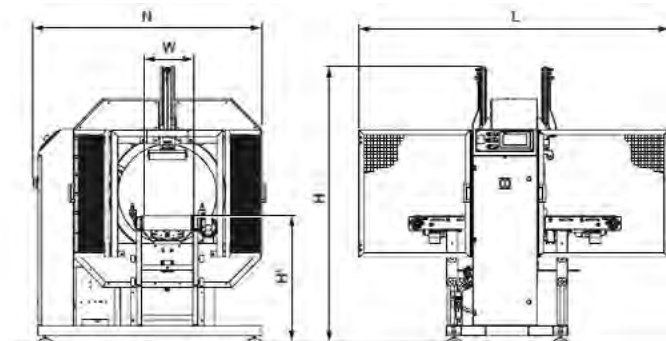
Orbit 6: 2¼" x 2¼"
Orbit 9: 3½" x 3½"
Orbit 12: 6" x 6"

Dimensions refer to infeed with conveyor belts on rollers. For other types of conveyors, maximum workable dimensions will be provided by Robopac.



specifications

Technical Features				
Machine	Orbit 6	Orbit 9		Orbit 12
Model		5	10	
Belt Driven Rotation	●	●	●	●
Max. Rotation Speed (RPM)	120	75	60	58
Fully Automatic Wrapping Cycle	●	●	●	●
Infeed and Outfeed Powered Conveyors	600	600	600	850
Pneumatic Pressure Unit Infeed and Outfeed	●	●	●	●
Pneumatically Operated Cold Cutting and Clamping Unit	●	●	●	●
Spool Unit with Frictioned Roll	●	●	●	●
Constant Film Tensioning	●	●	●	●
Power Supply Voltage: 400 V 3Ph+N 50/60 Hz	●	●	●	●
Installed Power kW	1.1	1.1	1.1	2
Working Pressure: 6±1 bar	●	●	●	●
Compressed Air Consumption NI/Cycle	5	9.4	10.8	14.3
Film				
Film Width (in)	2"-5"	2"-5"	2"-10"	2"-10"
Spool Max. External Dia. (in)	8"	8"	10"	10"
Core Diameter (in)	3"	3"	3"	3"
Machine Dimensions				
Length (in)	78"	85"	85"	88"
Width (in)	57.5"	75.5"	75.5"	92.5"
Height (in)	69"	86"	86"	106"
Height' (in)	31.5"-36"	31.5"-37.5"	31.5"-37.5"	31.5"-43"



Dimensions				
Machine	Orbit 6	Orbit 9		Orbit 12
Model		5	10	
L	78"	85"	85"	88.25"
N	57.5"	75.5"	75.5"	92.5"
H	69"	86"	86"	106.25"
H ¹	31.5"/36"	31.5"/37.5"	31.5"/37.5"	31.5"/43.25"
W	12"	19.5"	19.5"	32"

innovative features



Pneumatic Top Platens

Infeed and outfeed units automatically adjust to ensure proper stabilization of the product. The length of the run can be adjusted manually, if needed, to compensate for products of varying height.



Ring

Single-cast aluminum ring provides strength and reliability.



Automatic Cut and Clamp Unit

Highly reliable, dual rod cut and clamp system fully automates the wrapping process.



Guides

Infeed and outfeed skid side guides can be manually adjusted to better center products of variable widths. Idle rollers allow products to convey smoothly during the entire wrapping process.

color touch screen



The new 7-inch, 65,000 colour touch screen provides complete control of all processes with the touch of a finger. Accurate, easy to understand controls are displayed on every screen allowing for quick and simple operation. Store up to 20 unique, user-defined wrapping programs.

Adjustments capable via touchscreen:

Parameters

- Number of wraps
- Wrapping start time
- Wrapping end time

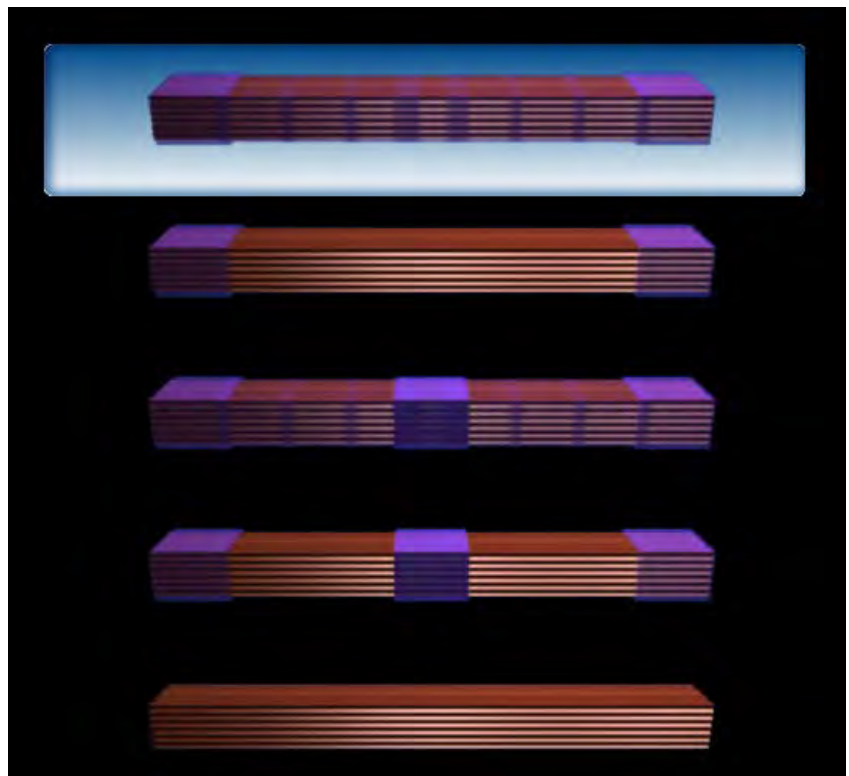
Cycles

- Total Wrapping
- Head and tail wrapping
- Band wrapping
- Wrapping with reinforcement
- By-pass



Pushbutton commands

- Emergency/Stop push button
- Reset button
- Start cycle button
- Stop cycle button



Wrapping Menu

Color display clearly shows available wrapping options. The touch-screen makes selecting a wrapping pattern simple and provides immediate visual confirmation of selected pattern.

wrapping dimensions

Workable Wrapping Area

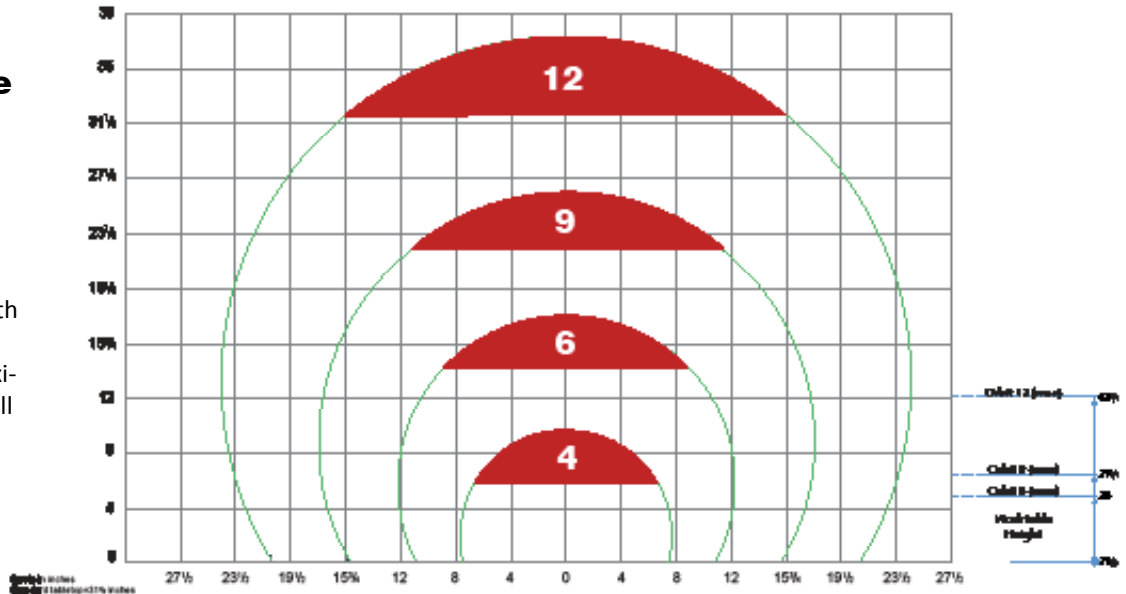
Minimum Workable Dimensions

Orbit 6: 2¾" x 2¾"

Orbit 9: 3½" x 3½"

Orbit 12: 6" x 6"

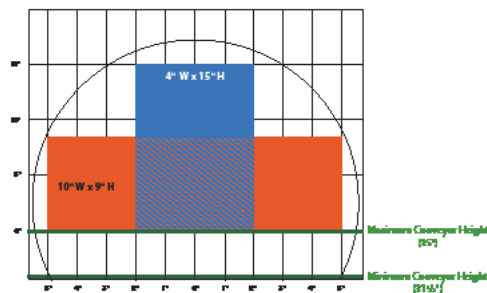
Dimensions refer to infeed with conveyor belts on rollers. For other types of conveyors, maximum workable dimensions will be provided by Robopac.



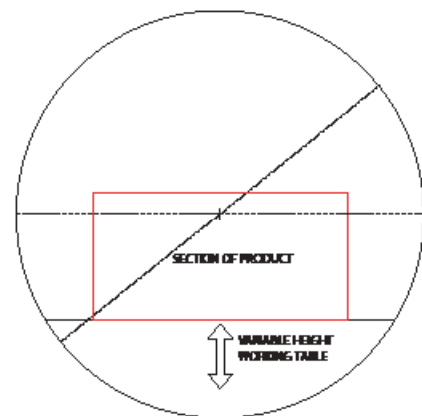
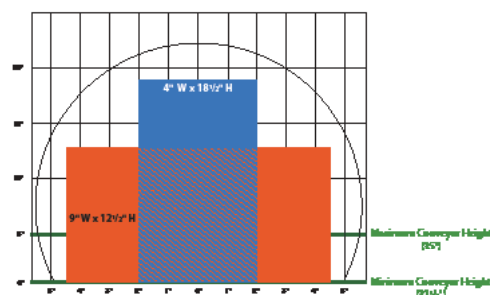
Maximum product width and height dimensions directly affect each other. As the maximum product width increases the maximum product height decreases; as well, when the maximum product width decreases the maximum product height increases as the charts above show. Adjusting the conveyor height also affects the maximum height and width of the product. Orbit machines allow you to adjust the height of the conveyor, except the Orbit 4, which is fixed.

Robot 6 Wrapping Limits

Maximum Conveyor Height



Minimum Conveyor Height



Optimal Wrapping Condition

For best results while wrapping the load, the center of the Orbit rotating ring must fall within the product profile as shown. Orbit machines allow you to adjust the height of the conveyor, except the Orbit 4, which is fixed.