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Ingersoll Rand Industrial Technologies provides products, services and solutions that enhance our customers' energy efficiency, productivity and operations. Our diverse and innovative products range from complete compressed air systems, tools and pumps to material and fluid handling systems and environmentally friendly microturbines. We also enhance productivity through solutions created by Club Car®, the global leader in golf and utility vehicles for businesses and individuals.

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Ergonomic Lift Assist Devices



Safety. Comfort. Efficiency.

Let Ingersoll Rand give your productivity a lift.

When it comes to durability and reliability, Ingersoll Rand stands alone.

Our NEW ergonomic lift assist devices are built to last and engineered to meet or exceed all ANSI specifications for safety and quality.

Our safety interlock feature, ergonomic design, and intuitive controls ensure safe and efficient material handling, reducing operator fatigue and repetitive strain injuries. These versatile lift assist devices are ideal for easy handling of a wide range of objects in manufacturing applications.

Clamp lift assist devices are a versatile way to handle:

- ▶ Boxes
- ▶ Trays
- ▶ Containers
- ▶ Totes

Vacuum devices offer superior grip on NON-POROUS surfaces such as:

- ▶ Sheet metal
- ▶ Plastics
- ▶ Glass
- ▶ Formica

For vacuum lifting of corrugated cardboard and boxes, please contact your sales representative. Ingersoll Rand can also provide solutions customized to meet your specific application and ultimately lift your bottom line.

Safety: Once the device is fully engaged, a safety interlock, indicated by an air gauge and a green signal, prevents accidental release of the load

Productivity: Improve productivity through more effective pickup, orientation, transfer, and positioning

Reduced part damage: Material quality is protected with positive secure gripping and pickup/setdown

Durability: Designed to the ASME B30.20 specification for Below-the-Hook Lifting Devices

Ergonomic design: Uses the same comfortable grip control handle as the popular ZA Series balancers



Easy: Single-handed controls for up/down movement as well as vacuum or clamp on/off

Vacuum Device Specifications

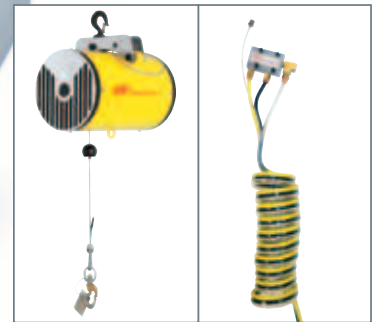
Model	Cup Center Line Dimensions		Lift Capacity			Cup Diameter	Cup Material	Weight
	Minimum	Maximum	@ 15 inHg	@ 20 inHg	@ 25 inHg			
ZV1S	N/A	N/A	60 lb	80 lb	100 lb	6" long lip	Neoprene	20 lb
ZV4S	12" x 12"	39" x 39"	180 lb	240 lb	300 lb	6" short lip	Urethane	50 lb

Clamp Device Specifications

Model	Clamp Opening (clamped / unclamped)		Lift Capacity			Clamp Pad Size	Clamp Pad Material	Weight
	Minimum	Maximum	@ 60 psi	@ 80 psi	@ 100 psi			
ZC2S	16" / 20"	38" / 42"	60 lb	80 lb	100 lb	4.5" x 6"	Urethane	50 lb

Each lift assist device comes with three 3/8" push-to-lock hose fittings for air supply, and one 5/32" push-to-lock hose fitting for safety interlock control. Balancer, hose assembly, and manifold sold separately.

Progress is *greener* with Ingersoll Rand



If integrating with an Ingersoll Rand balancer, order "BW" style balancer and manifold kit BW-EZKIT, pictured above.

ZV45



Versatile: Cup arms extend and rotate through 60 degrees each for maximum application flexibility

ZV15



ZC25



Versatile: Arms extend from 16 to 42 inches, with a 4-inch stroke for maximum application flexibility