



# Vacuum Technology



Engineering  
GREAT Solutions

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## Engineering GREAT solutions through people, products, innovation and service

IMI Precision Engineering is a world-leader in fluid and motion control. Building close, collaborative relationships with our customers, we gain a deep understanding of their engineering needs and then mobilize our resources and expertise to deliver distinctive products and solutions.

Wherever precision, speed and engineering reliability are essential, our global footprint, problem-solving capability and portfolio of high performance products enables us to deliver GREAT solutions which help customers tackle the world's most demanding engineering challenges.

> **Reliability**

We deliver and support our high quality products through our global service network.

> **High performance products**

Calling on a world-class portfolio of fluid and motion control products including IMI Norgren, IMI Buschjost, IMI FAS, IMI Herion, IMI Maxseal and Bimba.

We can supply these singly, or combined in powerful customised solutions to improve performance and productivity.

> **Partnership & Problem Solving**

We get closer to our customers to understand their exact challenges.

# Industry-Leading Support

Thousands of solutions.  
Endless configurations.  
Infinite applications.

- > Online part configuration – extremely customizable products with a wide variety of options
- > Access to an expansive 2D/3D cad file library online
- > Real-time price, availability and delivery information
- > Manufacture to the strictest standards with ISO 9001 certification
- > Our experienced application engineers will size and select the optimum vacuum product for you, eliminating the guesswork – saving you time and money
- > Not sure if vacuum technology will work? Send samples of your most challenging material handling problems to us and our vacuum experts will find a solution and send a video of the results

*Efficient*

*High performance*

*Durable*

*Reliable*



# Cutting-Edge Technology

- > High performance, efficient, and reliable vacuum pumps that operate in adverse conditions where others fail
- > Most comprehensive and diverse line of vacuum products to meet your manufacturing and automation requirements
- > Custom, modified products and end-of-arm tooling, available in special sizes, shapes and materials



## Venturi Vacuum Pumps



### Features & Benefits

- > Safe operation—high flow and strong holding force
- > High productivity—powerful vacuum up to 28" Hg [948mbar]
- > Compact and lightweight—modular design speeds installation
- > Reliable—operates trouble-free:
  - > Straight-through design, non-clogging
  - > No moving parts to wear or clog
  - > No maintenance
  - > No downtime

### Models



← *NVP Series  
Modular venturi*



← *NJ Series  
Rugged venturi*



← *NRTM  
Multi-stage  
replacement*

## Variable Flow Venturi Vacuum Pumps



### Features & Benefits

- > Adjustable vacuum level and flow rate:
  - > Powerful vacuum up to 25" Hg [847mbar]
  - > High flow, up to 120 SCFM [3398 LPM]
- > Energy efficient—customer controlled; high performance to air consumption ratio
- > Safe operation:
  - > No electricity needed at the pump
  - > No heat generated
- > Reliable—operates trouble-free:
  - > Straight-through design, non-clogging
  - > No maintenance

### Models



← *NVDF 100  
2.0 SCFM maximum  
vacuum flow*



← *NVDF 375  
30.0 SCFM maximum  
vacuum flow*



← *NVDF 750  
120.0 SCFM maximum  
vacuum flow*



## Adjustable Air Amplifiers/Blowers



### Features & Benefits

- > Field adjustable for individual applications
- > Holds porous materials securely
- > Easy to install—compact and lightweight
- > Energy efficient, unlike regenerative blowers that must run continuously
- > Reliable and durable – operates trouble-free:
  - > Ideal for adverse operating conditions
  - > No moving parts to wear
  - > Straight-through design, non-clogging
  - > No downtime

### Models



NCDF 200-EPT25  
16 SCFM maximum  
exhaust output



NCDF 750H  
140 SCFM maximum  
exhaust output



NCDF 2000H  
390 SCFM maximum  
exhaust output

## Material Conveying Pumps



### Features & Benefits

- > Application versatility
- > Efficient—instant on and off, low operating costs
- > Fast response—installs close to vacuum point
- > Easy to install—connect tubing to the vacuum and exhaust ports, and supply compressed air
- > Safe operation—no electricity needed at the pump
- > Reliable and durable—operates trouble-free:
  - > Ideal for adverse operating conditions
  - > No moving parts to wear or clog
  - > No maintenance

### Models



NDF 40-12  
4.00" bore material  
conveying pump



NDF 25-12-110-RI  
Aggregate  
conveying pump



NDF 5-6-FD-ST8  
Liquid conveying pump

## End-Of-Arm Tooling



### Features & Benefits

- > Standard and customs available
- > Integrate vacuum pumps, suction cups, spring levelers, fittings, and manifolds
- > Modular, lightweight, compact components
- > T-Slot fraction or metric compatible
- > Modular components – minimal design time
- > Easy set-up, simple connections, and fast installation
- > Integrates with existing plant equipment for quick tool changes, minimal downtime

### Models



*NVSL*  
Light duty  
spring leveler



*NMB*  
Mounting  
block



*NSLB40 Series*  
Heavy duty  
spring leveler

## Vacuum Cups & Fittings



### Features & Benefits

- > Wide range of sizes 0.09" to 2.75" in diameter
- > Dual durometer for long wear and excellent sealing
- > FDA-approved material
- > Metal detectable avoids contamination in food processing
- > Flat and bellows cups available to provide flexibility
- > Non-contact vacuum pads
- > Round and oval cups available

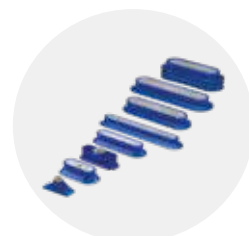
### Models



*NVCD Series*  
Dual durometer



*NNCVP*  
Non-contact  
vacuum pad



*NVC Series*  
Oval cups

IMI Precision Engineering operates four global centers of technical excellence and a sales and service network in 50 countries, as well as manufacturing capability in the USA, Germany, China, UK, Switzerland, Czech Republic, Mexico, Brazil, and India.

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z8786BR en/06/18

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*Engineering  
GREAT  
Solutions*

A curved arrow pointing downwards from the text 'Engineering GREAT Solutions' towards the list of IMI brands.

 **IMI NORGREN**

 **IMI BUSCHJOST**

 **IMI FAS**

 **IMI HERION**

 **IMI MAXSEAL**

For further information, scan this QR code or visit  
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