Heavy-duty construction, longer pump life and trouble-free operation.

316 stainless steel impellers standard up to 20 HP
No metal-to-metal contact
Low noise levels – only 75-80 dBA
External bearings that don’t come into contact with process gas stream

Consider one of the Best Solutions available…

The **Titan** Oil-sealed Liquid Ring Vacuum Pump System

Maintenance professionals know that liquid-sealed vacuum pump systems have many advantages over dry pump systems. However, water-sealed systems have several high-maintenance factors to manage and control, such as high water usage, corrosion and contaminated waste water. Oil-sealed systems do not have these problems.

General advantages of liquid-sealed systems:
• More reliable
• Safer
• Quieter
• Lower maintenance

Special advantages of oil-sealed systems:
• No water usage
• No contaminated waste-water
• No corrosion or scaling
• Operating temperature 150º - 175ºF
• 10,000 hour oil-change interval

Special advantages of DEKKER **Titan** systems:
• Patented DK-6 and DK-7 air/oil separators
• Air-cooled design eliminates cooling water
• Specially formulated Vmaxol seal-fluid compatible with styrene
• Micro-processor standard
• Optional Variable Frequency Drive

Vacuum pumps and systems for these and other key applications:
• Blending
• Calibrating Tables
• CNC Routers
• Conveying
• Degassing
• Extruding
• Pelletizing
• Thermoforming

Plastics Manufacturing Solutions

Call DEKKER: The Experts in Vacuum Solutions at 888-925-5444 for application expertise.
The main issue with vacuum pumps in the plastic industry is life span. High temperatures, product carryover and contamination cause rapid pump failure. Pumps need to be replaced often and when this happens, work may temporarily stop.

At DEKKER, we believe that is not acceptable. We supply pumps and design vacuum systems that work with your environment and are so confident in their performance that we offer the longest warranties in the vacuum industry.

**Reliable Performance, Maximum Efficiency, Custom Solutions**

We understand that the requirements in the plastics industry can be so unique that the products you manufacture’s life span will be affected by even the smallest change in the environment. Our engineers are vacuum specialists who will consider all of the parameters that contribute to vacuum performance, economy, and longevity.

One consultation with our vacuum experts will demonstrate the DEKKER difference. We will find a vacuum solution that performs as specified for a much longer life span to assure you of a rapid payback on investment due to reduced downtime and decreased maintenance or repair costs.

We have engineered DEKKER pumps and systems to perform in the plastic industry’s extreme operating conditions to improve the bottom line by:

- **Improving Safety**
- **Stabilizing Vacuum Levels**
- **Reducing Operating Costs**

We will find a vacuum solution that performs as specified for a much longer life span to assure you of a rapid payback on investment due to reduced downtime and decreased maintenance or repair costs.

One consultation with our vacuum experts will demonstrate the DEKKER difference. We will find a vacuum solution that performs as specified for a much longer life span to assure you of a rapid payback on investment due to reduced downtime and decreased maintenance or repair costs.

**THE DEKKER VACUUM SOLUTIONS APPROACH**

1. **Application assessment**
2. **Baseline evaluation**
3. **Solutions presentation**

**The Best Vacuum Solutions for Plastics Manufacturing Applications**

**High-Efficiency Liquid Ring Vacuum Pumps**

Available in single-stage capacities ranging from 4 to 1,200 CFM and scavenging from 10 to 800 CFM. For larger capacities please seek advice on our Titan-X series pumps up to 750 CFM.

- 316 stainless steel impeller is standard for single-stage pumps up to 10 HP
- Designed for heavy-duty applications
- Sturdy bearing pedestal
- Manufactured to ISO 9001 standards
- Low operating noise level
- Heavy-duty bearings mounted external to the pumping chamber
- Features single-face mechanical seals as standard
- Virtually no maintenance is required

- Pumps are available in different materials to suit your application
- Capable of handling saturated gas mixtures
- Capable of handling limited amounts of liquids
- Only one moving part
- Can operate using various seal-fluids

**APPLICATIONS:** Pelletizing, Conveying, Blending/Moisture Removal, Degassing, Extruding, Calibrating Tables/Rotary Frying, CNC Routers

**Water-Sealed Liquid Ring Vacuum Pump Systems**

Capacities ranging from 15 - 750 CFM Uses water as the seal-liquid. Designed for:

- No recovery systems

Our most economical package design for applications where plenty of water is available to be discharged and water contamination is not a problem.

**Partial recovery systems**

- Designed for: (Capacities ranging from 15 - 39,000 CFM) Uses water as the seal-liquid. Available in a wide choice of materials
- Heavy-duty pump design requires minimum maintenance
- Capable of handling limited amounts of liquids
- Capable of handling saturated gas mixtures
- Virtually no maintenance is required
- Heavy-duty bearings mounted external to the pumping chamber
- Low operating noise level
- Manufactured to ISO 9001 standards
- Sturdy bearing pedestal
- Designed for heavy-duty applications

**APPLICATIONS:** Pelletizing, Conveying, Blending/Moisture Removal, Degassing, Extruding, Calibrating Tables/Rotary Frying, CNC Routers

**High-Efficiency Liquid Ring Vacuum Pumps & Systems**

(Capacities ranging up to 1,200 CFM) Titan-X series features:

- A rugged, high-quality industrial system, offering years of trouble-free operation
- Designed for heavy-duty applications
- Improved oil-free separator eliminates oil carry-over concerns
- The only pump on the market with a full 3-year warranty!
- Extended life seal-fluid is not used as a sludge. Change interval is not critical, resulting in a minimum of 10,000 hours of continuous operation
- Extremely low operating noise level makes this system desirable in sensitive work areas
- Continuous operation over the full vacuum range without overheating
- Carry-over of minimal amounts of liquid does not cause damage to the internal parts of the pump
- Air-cooled design is standard with water cooling available at no extra charge
- Optional Variable Frequency Drive, providing lower power consumption

**APPLICATIONS:** Pelletizing, Conveying/Blending/Moisture Removal, Degassing, Extruding, Calibrating Tables/Rotary Frying, Thermoforming, CNC Routers

**Rotary Vane Vacuum Pumps and Systems**

- **Lubricated single-stage pumps** with an integrated closed loop oil-recirculation system, in capacities ranging from 2 – 710 CFM
- **Dry (oil-free) pumps** extremely reliable for many industrial applications with a powerful built-in centrifugal fan (above 12 CFM) providing efficient cooling, in capacities ranging from 2 – 100 CFM.
- **High vacuum pumps** operating in the pressure range of 7.5 x 10⁻¹ down to 7.5 x 10⁻⁶ Torr (total final pressure unless otherwise specified), in capacities ranging from 2 – 12 CFM
- **Systems** for many industrial applications are available in single and multiplex configurations, as tank-mounted, base-mounted or tank-mounted.

**APPLICATIONS:** Pelletizing, Conveying/Blending/Moisture Removal, Degassing, Extruding, Calibrating Tables/Rotary Frying, Thermoforming, CNC Routers

**Titan series**

**DuraVane**
Your Factory Doesn’t Work, Unless Your Vacuum Pumps Work…

The DEKKER Vacuum Solutions Approach

1. Application assessment
2. Baseline evaluation
3. Solutions presentation

THE DEKKER VACUUM SOLUTIONS APPROACH

In offering same-day shipping of most standard parts, DEKKER maintains an extensive domestic and global network of authorized service centers. DEKKER offers a complete range of accessories and carries a comprehensive inventory of pumps and parts. For emergency repairs, DEKKER takes pride in assuring you of a rapid payback on investment due to reduced downtime and decreased maintenance or repair costs.

We have engineered DEKKER pumps and systems to perform in the plastic industry’s most exacting operating conditions to improve the bottom line by:

- Reducing Operating Costs
- Reducing Operating Sound Levels
- Lowering Maintenance Costs
- Improving Product Consistency
- Stabilizing Vacuum Levels
- Improving Safety
- Improving Reliability
- Reducing Downtime

We will find a vacuum solution that performs as specified for a much longer life span to assure you of a rapid payback on investment due to reduced downtime and decreased maintenance or repair costs.

Water-Sealed Liquid Ring Vacuum Pump Systems

- Capacities ranging from 15 - 350 CFM
- Uses water as the seal-liquid

No recovery systems

- Can operate using various seal-fluids
- Only one moving part
- Capable of handling saturated gas mixtures
- Pumps are available in different materials to suit your application
- Virtually no maintenance is required
- Features single-face mechanical seals as standard
- Heavy-duty bearings mounted external to the pumping chamber
- Sturdy bearing pedestal
- Designed for heavy-duty applications

All AquaSeal systems feature:

- Single-stage pumps with an integrated closed loop oil-recirculation system, in capacities ranging from 2 – 710 CFM
- Dry (oil-free) pumps extremely reliable for many industrial applications with a powerful built-in centrifugal fan (above 12 CFM) ensuring efficient cooling, in capacities ranging from 2 – 100 CFM
- High vacuum pumps for operating in the pressure range of 7.5 x 10-4 down to 7.5 x 10-5 Torr final pressures unless otherwise specified, in capacities ranging from 2 – 12 CFM
- Systems for many industrial applications are available in simple and multiple configurations, as tank-mounted, base-mounted or tank-mounted

APPLICATIONS: Conveying, Blending/Moisture Removal, Degassing, Extruding, Calibrating Tables/Rolling, PVC Reactors

The Best Vacuum Solutions for Plastics Manufacturing Applications

Rotary Vane Vacuum Pumps and Systems

Available on:

- Lubricated single-stage pumps with an integrated closed loop oil-recirculation system, in capacities ranging from 2 – 710 CFM
- Dry (oil-free) pumps, extremely reliable for many industrial applications with a powerful built-in centrifugal fan (above 12 CFM) ensuring efficient cooling, in capacities ranging from 2 – 100 CFM
- High vacuum pumps for operating in the pressure range of 7.5 x 10-4 down to 7.5 x 10-5 Torr final pressures unless otherwise specified, in capacities ranging from 2 – 12 CFM
- Systems for many industrial applications are available in simple and multiple configurations, as tank-mounted, base-mounted or tank-mounted

APPLICATIONS: Conveying, Calibrating Tables/Rolling, Thermoforming, PVC Reactors

Call DEKKER, The Experts in Vacuum Solutions at 888-925-5444 for application expertise.

DEKKER offers a complete range of accessories and carries a comprehensive inventory of pumps and parts. Our engineers are vacuum specialists who will consider all of the parameters that contribute to vacuum performance, economy, and longevity.

One consultation with our vacuum specialists will demonstrate the DEKKER difference. We will find a vacuum solution that performs as specified for a much longer life span to assure you of a rapid payback on investment due to reduced downtime and decreased maintenance or repair costs.

We have engineered DEKKER pumps and systems to perform in the plastic industry’s most exacting operating conditions to improve the bottom line by:

- Reducing Operating Costs
- Reducing Operating Sound Levels
- Lowering Maintenance Costs
- Improving Product Consistency
- Stabilizing Vacuum Levels
- Improving Safety
- Improving Reliability
- Reducing Downtime

We will find a vacuum solution that performs as specified for a much longer life span to assure you of a rapid payback on investment due to reduced downtime and decreased maintenance or repair costs.

Water-Sealed Liquid Ring Vacuum Pump Systems

- Capacities ranging from 15 - 350 CFM
- Uses water as the seal-liquid

No recovery systems

- Can operate using various seal-fluids
- Only one moving part
- Capable of handling saturated gas mixtures
- Pumps are available in different materials to suit your application
- Virtually no maintenance is required
- Features single-face mechanical seals as standard
- Heavy-duty bearings mounted external to the pumping chamber
- Sturdy bearing pedestal
- Designed for heavy-duty applications

All AquaSeal systems feature:

- Single-stage pumps with an integrated closed loop oil-recirculation system, in capacities ranging from 2 – 710 CFM
- Dry (oil-free) pumps extremely reliable for many industrial applications with a powerful built-in centrifugal fan (above 12 CFM) ensuring efficient cooling, in capacities ranging from 2 – 100 CFM
- High vacuum pumps for operating in the pressure range of 7.5 x 10-4 down to 7.5 x 10-5 Torr final pressures unless otherwise specified, in capacities ranging from 2 – 12 CFM
- Systems for many industrial applications are available in simple and multiple configurations, as tank-mounted, base-mounted or tank-mounted

APPLICATIONS: Conveying, Calibrating Tables/Rolling, Thermoforming, PVC Reactors
Our Factory Doesn't Work, Unless Your Vacuum Pumps Work…

DEKKER offers a complete range of vacuum pumps and systems designed specifically for many industrial applications. For over 50 years, DEKKER has been the recognized leader in the industry and is the only manufacturer to provide an integrated approach to vacuum solutions. DEKKER offers a complete range of accessories and carries a comprehensive inventory of pumps and parts. For emergency repairs, DEKKER takes pride in offering same-day shipping of most standard parts. DEKKER maintains an extensive domestic and global network of authorized service centers.

Reliable Performance, Maximum Efficiency, Custom Solutions

We understand that the requirements of the plastics industry can be unique to the products you manufacture. That’s why we offer custom solutions developed specifically with your application in mind. Our engineers are vacuum specialists who will consider all of the parameters that contribute to vacuum performance, economy and longevity. One consultation with our vacuum experts will demonstrate the DEKKER difference. We will find a vacuum solution that performs as specified for a much longer life span to assure you of a rapid payback on investment due to reduced downtime and decreased maintenance or repair costs.

We have engineered DEKKER pumps and systems to perform in the plastic industry’s extremely operating conditions to improve the bottom line by:

- Reducing Operating Costs
- Reducing Operating Sound Levels
- Lowering Maintenance Costs
- Improving Product Consistency
- Stabilizing Vacuum Levels
- Improving Safety
- Reducing Downtime

We supply pumps and design vacuum systems that work in your environment and are so confident in their performance that we offer the longest warranties in the vacuum industry.

High-Efficiency Liquid Ring Vacuum Pumps

Available in single-stage capacities ranging from 4 to 120 CFM and scavenging from 12 to 400 CFM. For larger capacities please see below our Titan-AK series pumps up to 250 CFM.

- 316 stainless steel impeller is standard for single-stage pumps up to 10 HP
- Designed for heavy-duty applications
- Sturdy bearing pedestals
- Manufactured to ISO 9001 standards
- Low operating noise level
- Heavy-duty bearings mounted external to the pumping chamber
- Features single-face mechanical seals as standard
- Virtually no maintenance is required
- Pumps are available in different materials to suit your application
- Capable of handling hazardous gas mixtures
- Capable of handling limited amounts of liquids
- Only one moving part
- Can operate using various seal fluids

APPLICATIONS: Pelletizing, Conveying, Blending/Moisture Removal, Degassing, Electroforming, Calibrating Tables/Press/Painting, CNC Routers

Water-Sealed Liquid Ring Vacuum Pump Systems

Capacities ranging from 15 - 975 CFM Uses water as the seal liquid. Designed for:

- No recovery systems

Our most economical package design for applications where plenty of water is available to be discharged and water contamination is not a problem.

Full recovery systems

For applications where water contamination is a problem but water saving features are desired. Part of the water discharged by the system is re-circulated, resulting in a reduction of 30-50% water usage.

- No recovery systems
- Partial recovery systems
- Full recovery systems

For applications where water contamination is not a problem but water saving features are desired. Part of the water discharged by the system is re-circulated, resulting in a reduction of 30-50% water usage.

 Oil-Sealed Liquid Ring Vacuum Pumps & Systems

(Capacities ranging from 1 to 1,000 CFM) Vmax systems feature:

- A rugged, high quality industrial system, offering years of trouble-free operation
- Designed for heavy-duty applications
- Heavy-duty bearings
- Heavy-duty impellers
- Adjustable for operation over a wide range of conditions
- Fluids are available in various materials
- Fully automatic operation
- Control valves and instrumentation are available for fully automatic operation
- Heavy-duty pump design requires minimum maintenance
- Available in a wide choice of materials
- Custom designs according to customer’s specification are a DEKKER specialty

APPLICATIONS: Pelletizing, Conveying, Blending/Moisture Removal, Degassing, Electroforming, Calibrating Tables/Press/Painting, CNC Routers

DuraVane Rotary Vane Vacuum Pumps and Systems

Available on:

- Lubricated single-stage pumps with an integrated closed loop oil-recirculation system, in capacities ranging from 2 – 710 CFM
- Dry (oil-free) pumps extremely valuable for many industrial applications with a powerful built-in centrifugal fan (above 12 CFM) ensuring efficient cooling, in capacities ranging from 2 – 100 CFM
- High vacuum pumps for operating in the pressure range of 7.5 x 10-6 Torr down to 7.5 x 10-10 Torr initial final pressures (otherwise specified), in capacities ranging from 2 – 12 CFM
- Systems for many industrial applications are available in simple and multiplex configurations, as stack-mounted, base-mounted or tank-mounted

APPLICATIONS: Conveying, Calibrating Tables/Paint/Painting, Thermoforming, CNC Routers

Call DEKKER: The Experts in Vacuum Solutions at 888-925-5444 for application expertise.
• 316 stainless steel impellers standard up to 20 HP
• No metal-to-metal contact
• Low noise levels – only 70-80 dBA
• External bearings that don’t come into contact with process gas stream

Consider one of the Best Solutions available…

**The **T**i**TAN** Oil-sealed Liquid Ring Vacuum Pump System

Maintenance professionals know that liquid-sealed vacuum pump systems have many advantages over dry pump systems. However, water-sealed systems have several high-maintenance factors to manage and control, such as high water usage, corrosion and contaminated waste water. Oil-sealed systems do not have these problems.

**General advantages of liquid-sealed systems:**
- More reliable
- Safer
- Quieter
- Lower maintenance

**Special advantages of oil-sealed systems:**
- No water usage
- No contaminated waste-water
- No corrosion or scaling
- Operating temperature 150º - 175ºF
- 10,000 hour oil-change interval

**Special advantages of DEKKER** systems:
- Patented DX-5 and DX-7 air/oil separators
- Air-cooled design eliminates cooling water
- Specially formulated Vmaxol seal-fluid compatible with styrene
- Micro-processor standard
- Optional Variable Frequency Drive

### Vacuum Pump Systems

- **Titan** Single and Two Stage Liquid Ring Vacuum Pumps
  - 6-2,080 CFM
- **Maxima-C** Large Capacity Conical Liquid Ring Vacuum Pumps
  - 17 to 1,280 CFM
- **Maxima-K** Large Capacity Conical Liquid Ring Vacuum Pumps
  - 1,000 to 39,000 CFM
- **DuraVane** Lubricated and Dry Rotary Vane Vacuum Pumps
  - 2.7 to 15 CFM
- **Hull Vac** Rotary Piston Vacuum Pumps
  - 17-210 CFM
- **ChemSeal** Vacuum Pump Systems
  - 15-1,020 CFM
- **Aquaseal** Water-Sealed Vacuum Pump Systems
  - 15-3,080 CFM
- **Large Capacity** Vacuum Pumps
  - 1,500 to 39,000 CFM
- **Large Capacity Conical** Liquid Ring Vacuum Pumps
  - 1,000 to 22,000 CFM

**GOLD STANDARD SUPPORT**
Your Knowledge-Backed Guarantee. Need help sizing a vacuum pump? Having application problems? With over 100 years of combined experience, we’ve made it our business to know your needs as well as our systems capabilities. With DEKKER, you get a team of vacuum experts dedicated to helping you resolve system challenges, streamline processes and optimize results.

Maintenance, service and repair so you keep operating at maximum efficiency.
Heavy-duty construction, longer pump life and trouble-free operation.

- 316 stainless steel impellers standard up to 20 HP
- No metal-to-metal contact
- Low noise levels – only 70-80 dBA
- External bearings that don’t come into contact with process gas stream

Consider one of the Best Solutions available…

The **Titan** Oil-sealed Liquid Ring Vacuum Pump System

Maintenance professionals know that liquid-sealed vacuum pump systems have many advantages over dry pump systems. However, water-sealed systems have several high-maintenance factors to manage and control, such as high water usage, corrosion and contaminated waste water. Oil-sealed systems do not have these problems.

**General advantages of liquid-sealed systems:**
- More reliable
- Safer
- Quieter
- Lower maintenance

**Special advantages of oil-sealed systems:**
- No water usage
- No contaminated waste-water
- No corrosion or scaling
- Operating temperature 150º - 175ºF
- 10,000 hour oil-change interval

**Special advantages of DEKKER**
- Patented DX-5 and DX-7 air/oil separators
- Air-cooled design eliminates cooling water
- Specially formulated Vmaxol seal-fluid compatible with styrene
- Micro-processor standard
- Optional Variable Frequency Drive

Vacuum pumps and systems for these and other key applications:
- Blending
- Calibrating Tables
- CNC Routers
- Conveying
- Degassing
- Extruding
- Pelletizing
- Thermoforming

GOLD STANDARD SUPPORT

Your Knowledge-Backed Guarantee. Need help sizing a vacuum pump? Having application problems? Whether it’s old or new, DEKKER TEAM is equipped with the tools, experience and resources to solve your challenges. Streamline processes and optimize results.

Maintenance, service, and repair so you keep operating at maximum efficiency.

Call DEKKER: The Experts in Vacuum Solutions at 888-925-5444 for application expertise.