

WIWA High Performance Airless Paint Spraying Equipment for Large Surfaces, High-Build Coatings and Automatic Coating Systems:

HERKULES



ATEX 94/9/EG

HERKULES – The new series of high-performance equipment designed for heavy corrosion protection under tough operating conditions, such as in the marine and offshore industries.

For high-viscosity coating materials		
Pressure ratio	Output*	Model
75: 1	275 (16.78)	35075 R
61: 1	275 (16.78)	35061 R
57: 1	360 (21.97)	48057 R
46: 1	360 (21.97)	48046 R

For medium- and low-viscosity materials, as well as paint circulation systems		
Pressure ratio	Output*	Model
36: 1	550 (33.56)	60036 R
28: 1	550 (33.56)	60028 R

* per cycle in ccm (cu. in.)
R = corrosion resistant

State-of-the-art robust WIWA airless pump technology featuring high to extremely high pressure ratios and huge output rates to meet the industry's top quality standards.



New dimensions in efficiency:

- Power, perfection and precision
- Efficient coating of large surfaces
- Top performance levels even under extremely difficult operating conditions
- Use of several guns possible even with very long hoses
- Minimum wear and tear
- Quick maintenance and easy assembly



With cart



With cart lift

The new
WIWA HERKULES Series
for the toughest demands

MAXIMUM PERFORMANCE

With the new HERKULES Series, WIWA's internationally successful airless pump program achieves new dimensions in performance.

WIWA HERKULES high-performance pumps prove their profitability and quality day after day in heavy corrosion protection and other tough applications.

Pressure ratios of up to 75:1 and output rates of up to 550 ccm (33.56 cu. in.) per cycle put WIWA's HERKULES pumps at the top of airless paint spraying market worldwide.

Environmental regulations requiring lower solvent usage and the growing need for efficient, high-build coatings are placing continuously increasing demands on paint spraying equipment.

WIWA has designed the HERKULES series especially for processing extremely viscous, thixotropic and abrasive materials.

Materials which may have been non-sprayable or sprayable only under certain circumstances can now be processed easily using these pumps.

**WIWA –
True value for your money**

- Robust design
- High operational safety
- Easy maintenance
- Long service life

Main areas of application for the HERKULES Series

The extremely high performance ratings of WIWA HERKULES pumps make them ideal for use in shipyards, the offshore oil industry, structural and fire protection, automatic painting lines and other large projects requiring top performance levels and dependability.

For operation in unfavourable ambient temperatures or with materials requiring higher temperatures, the WIWA HD 3500 fluid heater (capable of operating at pressures up to 450 bar/6525 psi) is available as an accessory for all HERKULES units.

Depending on tip sizes and hose lengths, several spraying guns can be used simultaneously.

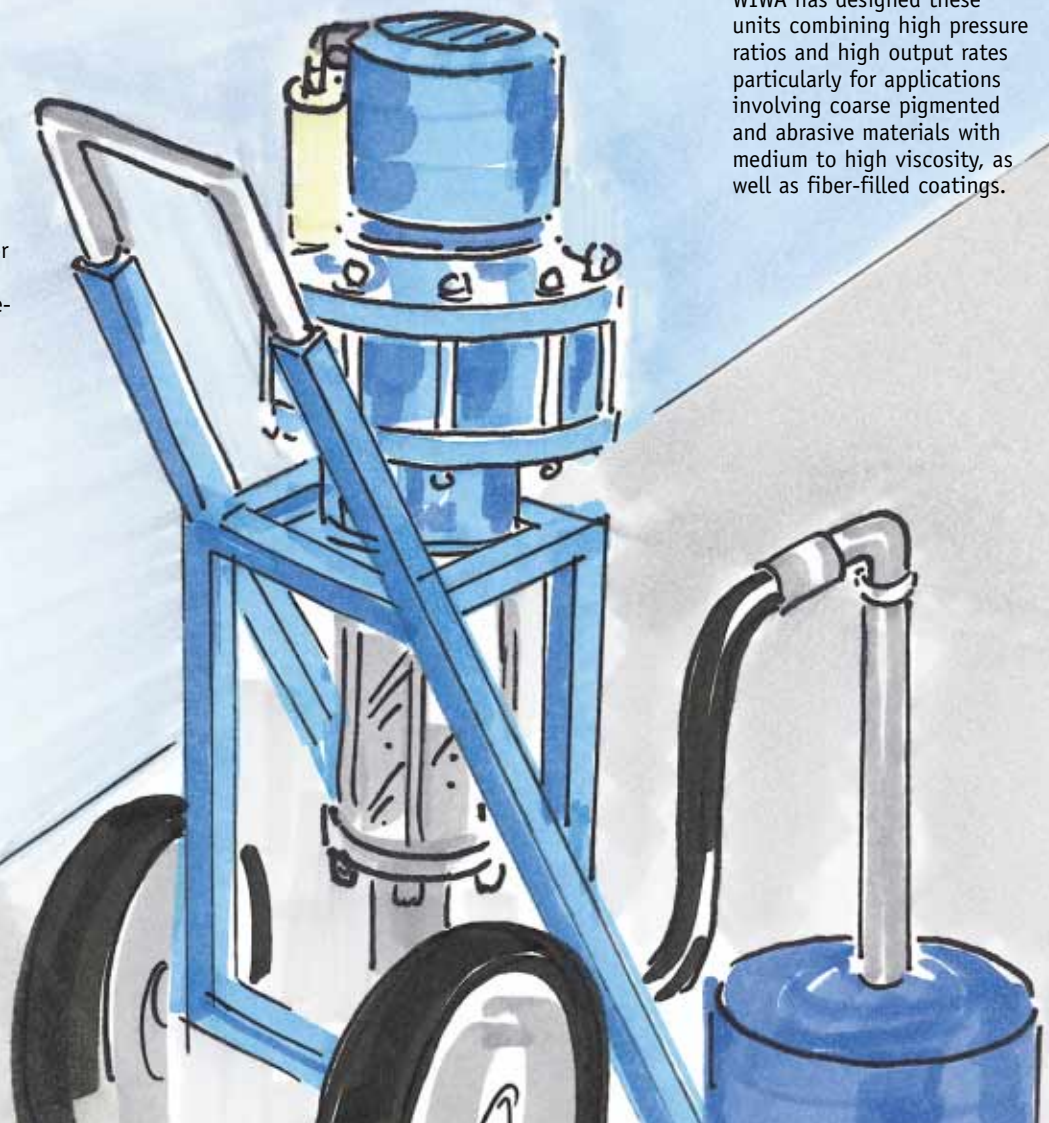
WIWA HERKULES 35075 and 35061

These two models feature extremely high pressure ratios and are especially suited for highly viscous and solvent-free coatings with a high concentration of solids.

Their pressure capacity allows operation even with low in-bound air pressures or a temporary loss of pressure in the air supply.

WIWA HERKULES 48057 and 48046

WIWA has designed these units combining high pressure ratios and high output rates particularly for applications involving coarse pigmented and abrasive materials with medium to high viscosity, as well as fiber-filled coatings.



HERKULES – Superlative performance

- High volume output increases productivity
- High-build coatings
- Able to handle multiple guns
- Economical due to robust design and high durability
- Can be operated with hose lengths in excess of 100 m / 328 ft.
- Can be operated even when faced with low inbound air pressures
- Ideally suited for automatic painting lines and paint circulation systems

WIWA HERKULES 60036 and 60028

Impressive output rates of 550 ccm (33.56 cu. in.) per cycle make these two units ideal for use in automatic and manual paint circulation systems and painting lines.



Simultaneous feeding of several guns ensures efficiency.

Fields of Application for WIWA HERKULES Pumps

We suggest:	35075	35061	48057	48046	60036	60028
Model	35075	35061	48057	48046	60036	60028
Pressure ratio	75:1	61:1	57:1	46:1	36:1	28:1
Max. free-flow output, l/min (US gallon/min)	35 (9.24)	35 (9.24)	48 (12.68)	48 (12.68)	60 (15.58)	60 (15.58)
Output per double stroke, ccm (cu. in.)	275 (16.78)	275 (16.78)	360 (21.97)	360 (21.97)	550 (33.56)	550 (33.56)

Areas of Application:	35075	35061	48057	48046	60036	60028
Fire protection	–	–	●	●	●	–
Large surfaces	●	●	●	●	●	●
Ship coating	●	●	●	●	●	●
Steel and hall construction	●	●	●	●	●	●
Railcar construction	●	●	●	●	●	●
Offshore industry	●	●	●	●	○	–
Industrial coatings	●	●	●	●	●	–
Structural and corrosion protection	○	○	●	●	●	–
Insulation	●	●	●	●	●	○
Paint supply systems	–	–	–	●	●	●
Automatic coating systems	●	●	●	●	●	●

Material to be sprayed:	35075	35061	48057	48046	60036	60028
Glassflake	–	●	●	●	○	○
Anti-fouling	●	●	●	●	○	○
Cold Bitumen	●	●	●	○	○	○
Low-solvent and solvent-free paints	●	●	●	○	○	○
Materials with short fibers	–	●	●	●	●	○
Sprayable paints and lacquers	●	●	●	●	●	●
Two component and tar/epoxy paints*	●	●	●	●	○	○
Abrasive materials (zinc silicate, etc.)	–	–	○	●	●	●
Flame protection materials	–	○	●	●	●	○
Insulated, high-build materials	–	–	○	●	●	○

* high-viscosity and coarsely pigmented

● very suitable ○ suitable – unsuitable

THE WIWA HERKULES SERIES
 for maximum performance
 and durability
 under the hardest conditions

POWER, PERFECTION AND

Top performance to solve your requirements.

WIWA's extensive experience world-wide is something to depend on.

Well-conceived designs, carefully selected quality raw materials and high-precision production methods are the cornerstones of WIWA's world-renowned quality and reliability.

The HERKULES high-pressure pump

The efficiency of a high-pressure pump is put to the test in daily usage. As with all WIWA products, durability and easy maintenance are characteristic features of HERKULES pumps.

Wear and tear are minimized due to high rates of output and low stroke speeds, even when working with large tip sizes and materials with high solids content.

- Double-acting pump with long strokes and secured packings.
- Maintenance-free, low-noise air motor with patented de-icing device.
- Equipped standard with air maintenance unit R 1" in a robust metal version.
- Faster flushing with innovative pump design.
- A closed lubrication chamber separates the air motor from the fluid pump. The lubricant prevents paint from drying onto the piston rod and protects the packings.
- Able to handle high-viscosity materials due to large valve and fluid passages.
- Spring-loaded, self adjusting packings reduce wear and tear and maintenance.
- Above average durability due to hard-chromed dual pistons, tungsten carbide valve plates and high-grade steel valve balls.
- A double filter system helps prevent down-time.
- Noise levels are kept to a minimum with the optimized control system and the large muffler.



An integrated air maintenance unit virtually eliminates icing of the air motor.



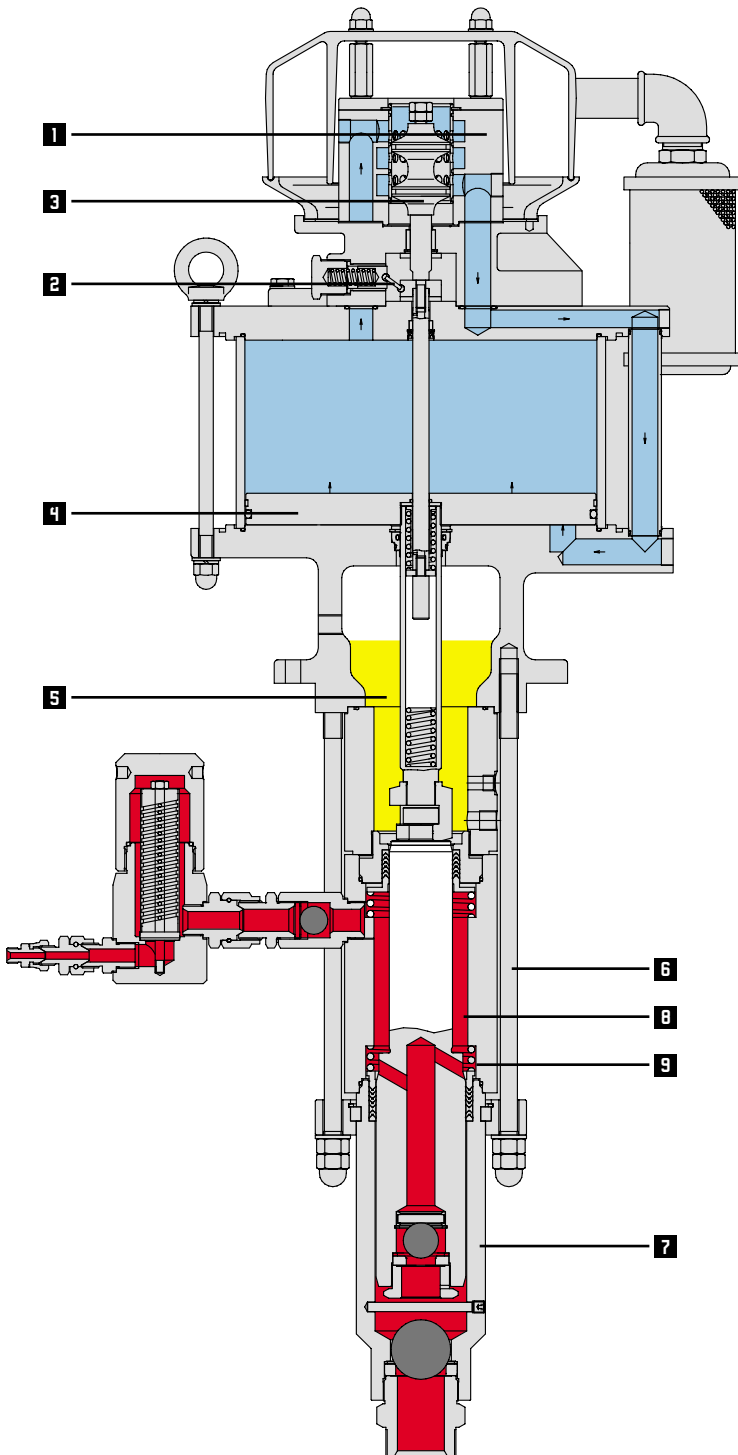
High pressure filter



Maintenance-free, low-noise air motor.

PRECISION

Design Features of the HERKULES Series



Air Motor:

- 1** Due to the small number of individual components, the motor is easy to assemble and disassemble.
- 2** The toggles are well visible, and therefore easy to install.
- 3** Pulsation is controlled by the high change-over speed on the air motor.
- 4** Variable performance ratings are possible by changing the diameter of the piston in the air motor.

Lubrication Chamber:

- 5** A closed lubrication chamber separates the air motor from the fluid pump. Due to the closed design, no foreign objects, such as blasting material, can enter the pump system from the outside. Furthermore, the lubricant prevents paint from drying onto the piston rod and protects the packings.

Fluid Pump:

- 6** Quick assembly and disassembly.
- 7** Precision guides ensure simple and exact alignment of all components, as well as less wear and tear.
- 8** Large openings and extra large fluid passages minimize pressure loss.
- 9** Better rinsing due to extra large fluid passages and short packing retention springs.

- Maintenance-free, low-noise air motor
- Easy servicing due to the small number of individual components
- Flexible adaptation for different performance requirements
- Pulsation is controlled by the high change-over speed on the air motor.
- Top performance in output and operating pressure
- Less wear and tear due to spring supported, self-regulating packings
- Easy assembly ensures quick maintenance

WIWA AIRLESS PAINT SP EQUIPMENT – HERKULES

We have the best solution for each application!

Whether working in the offshore, shipbuilding or booth construction industries – you can always depend on WIWA's HERKULES Airless Paint Spraying Units to deliver optimum performance.

Suction hoses and suction pipes for different paint container sizes and viscosities.

Suction filter and suction sieve for different pigment sizes.

Mounting kit – Agitator for continuous agitating of zinc paints and other fast settling extenders.

Order No.: 0642709



With a robust cart made of rectangular tubing.

Technical Data:	For highly abrasive materials		For materials of medium to high viscosity		For automatic coating and paint circulation systems	
	35075	35061	48057	48046	60036	60028
Model	35075	35061	48057	48046	60036	60028
Max. free-flow output, l/min. (US gallon/min.)	35 (9.24)	35 (9.24)	48 (12.68)	48 (12.68)	60 (15.85)	60 (15.85)
Pressure ratio	75:1	61:1	57:1	46:1	36:1	28:1
Output per cycle, ccm (cu. in.)	275 (16.78)	275 (16.78)	360 (21.97)	360 (21.97)	550 (33.56)	550 (33.56)
Max. input air, bar (psi)	6 (87)	7 (101.5)	7 (101.5)	8 (116)	8 (116)	8 (116)
Max operating pressure, bar (psi)	450 (6525)	427 (6191.5)	399 (5785.5)	368 (5336)	288 (4176)	224 (3248)
Piston diameter of air motor, mm (inch)	333 (13.1)	300 (11.8)	333 (13.1)	300 (11.8)	333 (13.1)	300 (11.8)
Piston stroke of air motor, mm (inch)	120 (4.72)	120 (4.72)	120 (4.72)	120 (4.72)	120 (4.72)	120 (4.72)
Version	R	R	R	R	R	R
Pump with cart and maintenance unit R1" (3-piece)*	0641375	0641376	0641377	0641378	0642026	0642025
Pump with cart lift and maintenance unit R1" (3-piece)*	0641729	0641728	0641731	0641730	0642028	0642027
Pump with wall bracket and maintenance unit R1" (3-piece)*	0642037	0642036	0642039	0642038	0642031	0642030
„ready-to-Spray“ accessory kit	Nr. 05		Nr. 04		Nr. 04	

RAYING SERIES

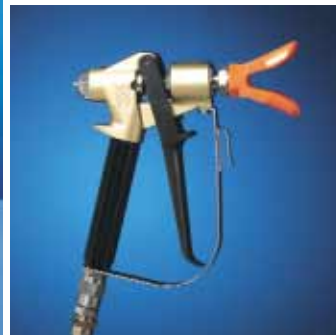


HERKULES –
The most powerful airless
high-pressure pumps
world-wide

- New dimensions in surface coverage efficiency
- Astounding performance capacity even when using extremely long hoses
- A quality product designed for efficient continuous use
- Long service life



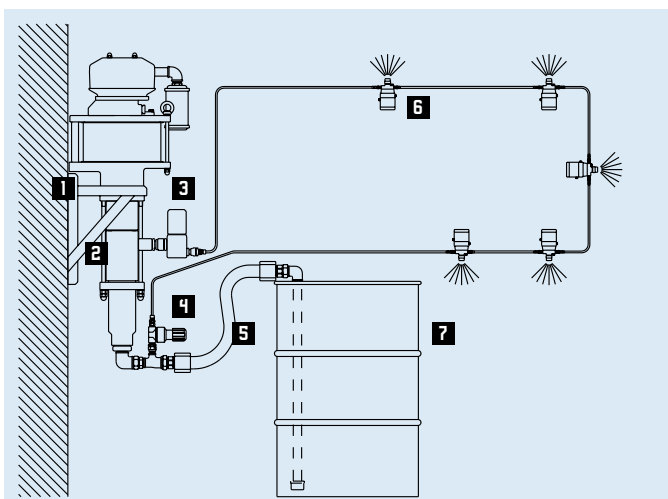
With **cart lift** and direct suction for materials of extremely high viscosity.



Different **accessory sets** are available for ready-to-spray versions.



Mounting kit for Hot Spray
Extremely viscous coating materials can be heated to ensure better results and reduce solvent use with the WIWA fluid heater.



Flow Diagram:

- 1 Wall Bracket
- 2 High-Pressure Pump
- 3 High-Pressure Filter
- 4 Back Pressure Regulator
- 5 Suction Hose
- 6 WIWA Airless Automatic Gun
- 7 200 liter drum (55 gallon)



**Spray Technology
Fluid Handling**

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FAST PER FAX

Experience and versatility are the basis of success.

50 years of experience in the field of spray technology, coatings and fluid handling, as well as excellent service, ensure overall security for WIWA's customers.

Continuous development and the extensive know-how of WIWA's qualified employees make the versatility of the WIWA program possible.

Get to know WIWA's wide range of products:

- WIWA PROFIT – portable, low-cost spraying equipment for trade and industry
- WIWA PHOENIX – the new series for trade and industry with maximum performance and minimum costs
- WIWA SUPER – well-known for its ruggedness and durability
- WIWA PROFESSIONAL – the new series for heavy corrosion protection with an especially diverse program for all sorts of industrial coatings

- WIWA DUOMIX 140/230 – compact and versatile plural component spraying systems for paint or foam applications
- WIWA DUOMIX 300/333 – reliable, high-performance plural component spraying equipment in use worldwide for heavy corrosion protection applications
- WIWA AIR COMBI – for extremely fine finishes using the environmentally friendly Air-Combi technology
- WIWA Hot Job spraying equipment – fast curing, fantastic surfaces
- WIWA ZINC SILICATE – special airless spraying equipment for water – or solvent-based zinc silicate coatings
- WIWA Extrusion Pumps
- WIWA Injection equipment for structural preservation
- WIWA Low Pressure Pumps for the handling of all materials capable of flowing
- Specially designed equipment based on each customer's specific needs

Name _____

Company _____

Street _____

Postal Code/Town _____

Phone _____

Fax _____

E-mail _____

Date _____

I am interested in WIWA products. I request:

- Information on the equipment marked at the left.
- Your complete catalog.
- An appointment for a personal consultation.
- Information on equipment suited for my application(s):

We would be pleased to provide you with a detailed offer covering all WIWA equipment and related accessories.

Your local distributor is: