

WIWA Extrusion Pumps for low- to high-viscosity and pasty materials

# VULKAN THE POWER SERIES

**VULKAN –**  
The tried and tested  
WIWA Extrusion Pump  
for transfer, metering and  
application of adhesives,  
sealants and insulating  
materials.

The WIWA VULKAN Extrusion Pump program includes 22 pumps in six performance classes with diverse outputs and pressure ratios, making it one of the most extensive series worldwide.

Output per cycle up to 680 ccm

Pressure ratios from 16:1 to 94:1

Available in  
N = Carbon steel version  
R = Corrosion-resistant version

An equally wide ranging accessory program, including for example floor mounts, single-post and twin-post ram units in various sizes, follow plates and follow covers in all sizes and versions, as well as heating elements and other accessory kits round out the program.



## The tailored suit from the rack

- Based on the widely diversified pump and accessory program, an ideal combination can be produced for almost every application.
- Through modular design and the internationally proven WIWA unit construction system, additional customer requirements can easily be accommodated.
- Special solutions for coatings processes are a further service of the WIWA technical department.

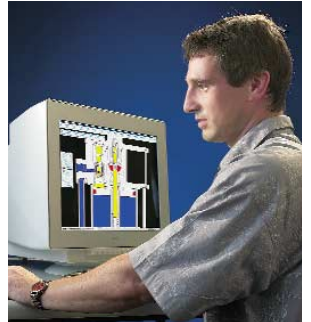


## THE ADVANTAGES AT A GLANCE

# UNIQUELY VERSATILE

### Robust and well thought-out. Versatile in application

Supplying work stations, robots and other application systems or ring mains with multiple dispensing stations are typical uses for the VULKAN Extrusion Pump Series. Depending on the viscosity of the transferred medium, the VULKAN Extrusion Pump can be outfitted with a ram unit or twin-post lift and follow plate or follow cover. A constant flow of material is assured through large material passages and the equal pressure and output in the upward and downward strokes. Due to the robust and sturdy design, the pumps of the VULKAN-Series have proven themselves in difficult tasks such as pumping high-viscosity materials over long distances. Further uses include the filling of pails, drums and bulk containers, as well as cartridges. With the modern design using the proven WIWA unit construction system and the extensive range of accessories, it is possible to offer the optimal and most economical solution for each area of application.



## Design Features of the WIWA VULKAN Series

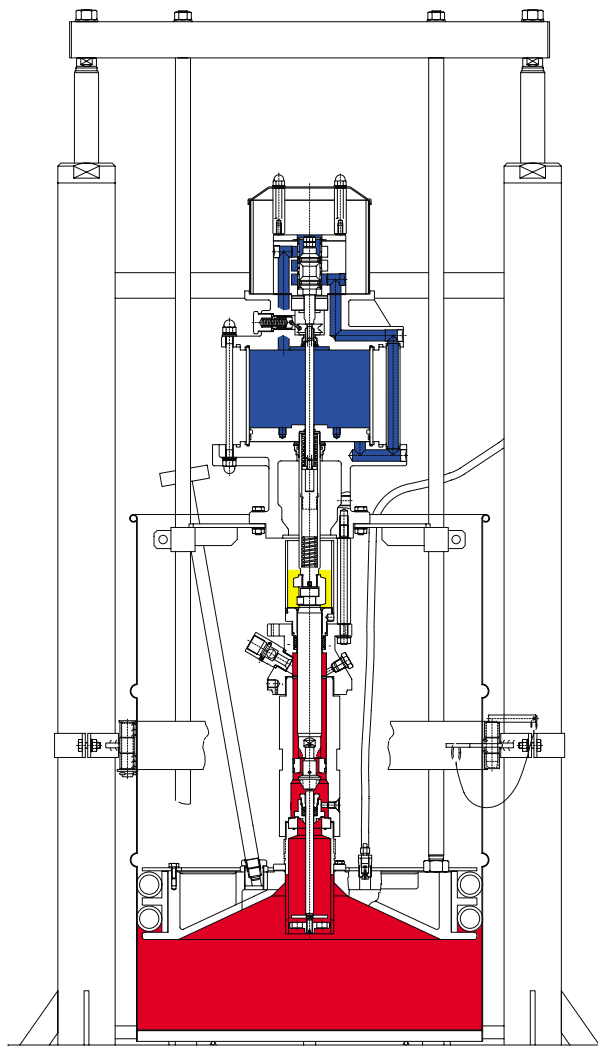
### Air Motor:

- Pulsation is minimized by the high changeover speed of the air motor
- Quicker maintenance and easier assembly due to the use of fewer components

### Fluid Pump:

Less pressure loss with high viscosity materials due to large material passages

- The scoop-feed technique enables the pumping of low- to high-viscosity materials
- Precision guiding ensures simple and exact alignment of parts, as well as less wear and tear
- Seals in the threaded connections prevent them from sticking and ease disassembly
- Large material passages for high output with minimal pressure loss
- Carbon steel and corrosion resistant versions
- Hard chromed pistons and pressure cylinder



■ Compressed air    ■ Lubricant    ■ Pumping medium

### THE PLUS POINTS:

- Maintenance-free, low-noise air motor
- Closed lubricant chamber separates the air motor and fluid pump. The lubricant prevents caking of the material on the piston and prolongs the life of the packings
- Pulsation is minimized by the high changeover speed of the air motor
- High operating pressures are suitable for the pumping of high-viscosity materials over longer distances
- Easy assembly provides for quicker maintenance
- Equal output and pressure for upward and downward strokes ensures constant material flow rate
- Diverse sealing systems and materials for differing applications

# VULKAN EXTRUSION PUMPS

Through modular design, an optimal solution is offered for every application

TECHNICAL DATA	
Pressure Ratio:	16 : 1 to 94 : 1
Output per Cycle:	49 to 680 ccm
Max. Operating Pressure:	128 to 474 bar
Max. Air Inlet Pressure:	8 bar

The WIWA Extrusion Pumps of the VULKAN Series are supplied in many versions with ram units, on lift trolleys or with floor mount for material supply from bulk containers and with extensive accessories for high flexibility and constant production parameters.

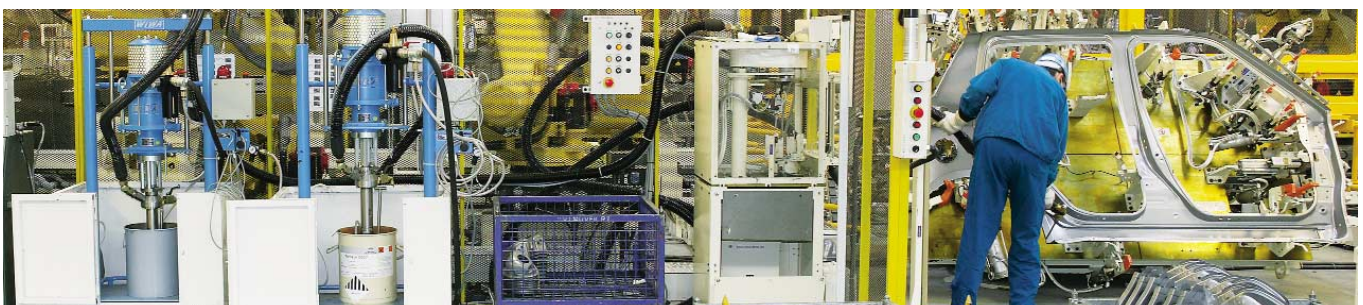


## AREAS OF APPLICATION

- Automobile industry
- Machine and vehicle manufacture
- Railcar manufacture
- Aircraft industry
- Marine- and offshore industry
- Wind energy
- Wood- and furniture industry
- Printing
- Window and door manufacture
- Manufacture and processing of silicon products
- Production lines in the chemical industry
- Processing adhesives and polyurethanes
- Lubricant technology (oil and grease transfer systems)
- Application of undercoating
- Spray and coating technology
- Manufacture and processing of paints and lacquers
- Transfer of raw materials for the production of adhesives, sealants and other chemical products
- Cartridge filling systems

## PUMPING MATERIAL AND PROCESSING MEDIA

- Adhesives and glues
- PVC and other sealing materials
- Grease and lubricants
- Printing inks
- Bitumen and undercoating
- Pasty coatings and other medium- to high-viscosity materials
- Sealants
- Mastics
- Silicones
- Butyls
- Urethanes
- Epoxies
- Acrylics



With over 50 WIWA Extrusion Pumps, Suzuki has realized an automated process which allows the fully automatic bonding of diverse components to form a complete auto chassis.

## PERFORMANCE DATA

# WIWA-VULKAN

For the transfer, metering and application of low- to extremely high-viscosity materials



Double ram system with automatic switchover

### SPECIAL SOLUTIONS

#### WIWA Dual Ram System

At Suzuki in Hungary, the Dual Ram System has been employed with much success.

An automatic switchover provides for activation of the second Ram Unit upon complete emptying of the drum, ensuring a constant flow of material at all times.

The process must not be interrupted to change drums, since the pumps are automatically switched to the full drum.

### Performance data for the WIWA VULKAN Extrusion Pumps

Model	Air motor diam. (mm)	Pressure ratio	Output @ 60 cycles/min (liters/min.)	Output per cycle (ccm)	Max. air inlet pressure (bar)	Max. operating pressure (bar)	Version*/ Order no.	
							N	R
49.16	85	16:1	2,9	49	8	128	0642739	----
49.25	105	25:1	2,9	49	8	200	0642735	----
49.45	140	45:1	2,9	49	8	360	0642734	----
78.16	85	16:1	4,6	78	8	128	0640831	0640832
78.25	105	25:1	4,6	78	8	200	0640833	0640834
78.45	140	45:1	4,6	78	8	360	0640835	0640836
78.94	200	94:1	4,6	78	5	470	0640837	0640838
134.15	105	15:1	8,0	134	8	120	0640839	0640840
134.27	140	27:1	8,0	134	8	216	0640841	0640842
134.54	200	54:1	8,0	134	8	432	0640843	0640844
134.73	230	73:1	8,0	134	6,5	474	0640845	0640846
269.13	140	13:1	16,1	269	8	104	0640847	0640848
269.27	200	27:1	16,1	269	8	216	0640849	0640850
269.36	230	36:1	16,1	269	8	288	0640851	0640852
269.62	300	62:1	16,1	269	6,5	403	0640853	0640854
521.14	200	14:1	31,2	521	8	112	0641680	----
521.19	230	19:1	31,2	521	8	152	0642320	----
521.32	300	32:1	31,2	521	8	256	0642321	----
521.40	333	40:1	31,2	521	8	320	0642322	----
680.14	230	14:1	40,8	680	8	112	0641708	0642455
680.24	300	24:1	40,8	680	8	192	0642323	0642752
680.30	333	30:1	40,8	680	8	240	0642324	0642753

## The extensive product range of our economical standard system for industrial solutions

<b>WIWA VULKAN Extrusion Units complete with:</b>	
Single-post ram unit –ESR 0375/60 (0.375 to.) and follow plate (280-355 mm) for small and medium supply containers up to 60 L and pump as follows: Order no.:	
EX 78.16N	0642345
EX 78.25N	0642346
EX 78.45N	0642347
EX 134.15N	0642365
EX 134.27N	0642366
EX 78.16R	0642430
EX 78.25R	0642431
EX 78.45R	0642432
EX 134.15R	0642433
EX 134.27R	0642434
Single-post ram unit –ESR 0375/216 (0.375 to.) for small, medium and large supply containers with follow cover (280-571.5 mm) and pump as follows: Order no.:	
EX 78.16N	0642371
EX 78.25N	0642372
EX 78.45N	0642373
EX 134.15N	0642374
EX 134.27N	0642375
EX 78.16R	0642435
EX 78.25R	0642436
EX 78.45R	0642437
EX 134.15R	0642438
EX 134.27R	0642439
Twin-post ram unit –ZSR 030- (0,3 to.) and follow plate (280-355 mm) for small and medium supply containers up to 60 L and pump as follows: Order no.:	
EX 78.16N	0642377
EX 78.25N	0642378
EX 78.45N	0642379
EX 78.94N	0642380
EX 134.15N	0642334
EX 134.27N	0642335
EX 134.54N	0642336
EX 134.73N	0642337
EX 78.16R	0642402
EX 78.25R	0642405
EX 78.45R	0642408
EX 78.94R	0642411
EX 134.15R	0642413
EX 134.27R	0642416
EX 134.54R	0642418
EX 134.73R	0642420
Twin-post ram unit –ZSR 075- (0.75 to.) and follow plate (up to 571.5 mm) for supply containers up to 216 L and pump as follows: Order no.:	
EX 78.16N	0642381
EX 78.25N	0642382
EX 78.45N	0642383
EX 78.94N	0642384
EX 134.15N	0642338
EX 134.27N	0642339
EX 134.54N	0642340

EX 134.73N	0642341
EX 269.13N	0642330
EX 269.27N	0642331
EX 269.36N	0642332
EX 269.62N	0642333
EX 521.14N	0642326
EX 521.19N	0642327
EX 521.32N	0642328
EX 521.40N	0642329
EX 680.14N	0642342
EX 680.24N	0642343
EX 680.30N	0642344
EX 78.16R	0642403
EX 78.25R	0642406
EX 78.45R	0642409
EX 78.94R	0642412
EX 134.15R	0642414
EX 134.27R	0642417
EX 134.54R	0642419
EX 134.73R	0642421
EX 269.13R	0642422
EX 269.27R	0642424
EX 269.36R	0642426
EX 269.62R	0642428
Mobile ram unit -H 030/R- (0,3 to.) and follow plate (280-355 mm) for small and medium supply containers up to 60 L and pump as follows: Order no.:	
EX 78.16N	0642367
EX 78.25N	0642368
EX 78.45N	0642369
EX 78.94N	0642370
EX 78.16R	0642401
EX 78.25R	0642404
EX 78.45R	0642407
EX 78.94R	0642410
Floor mount for bulk supply containers (tanks, containers, etc.) and pump as follows: Order no.:	
EX 269.13N	0642351
EX 269.27N	0642352
EX 269.36N	0642353
EX 269.62N	0642354
EX 521.14N	0642355
EX 521.19N	0642356
EX 521.32N	0642357
EX 521.40N	0642358
EX 680.14N	0642359
EX 680.24N	0642360
EX 680.30N	0642361
EX 269.13R	0642423
EX 269.27R	0642425
EX 269.36R	0642427
EX 269.62R	0642429

# THE WIWA VULKAN ACCESSORY

Optimum Process Results with the Proper Accessory Equipment

## WIWA Ram Units for precise and orderly transfer from supply containers and fast container changes



Twin-post Ram Unit ZSR250 (2.5 to.)



Mobile Twin-post Ram Unit with regulator and automatic shut-off

Twin-post Ram Units for small supply containers up to 216 L capacity and 280-571.5 mm inside diameter

Twin-post Ram Units ZSR	
Model	Order No.
ZSR250 (2,5 t)	0642750
ZSR075 (0,75 t)	0634941
ZSR030 (0,3 t)	0640830

Twin-post Ram Units on mobile cart for small supply containers up to 60 L capacity and 280-355 mm inside diameter

Mobile Twin-post Ram Units	
Model	Order No.
H250/R (2,5 t)	0644756
H075/R (0,75 t)	0647510
H030/R (0,3 t)	0640882



Single-post Ram Units with Regulator

Single-post Ram Unit 0.375 to. for small supply containers up to 60 L capacity and 280-355 mm inside diameter

Single-post Ram Units ESR	
Model	Order No.
ESR0375/216 (0,375t)	0640009
ESR0375/60 (0,375t)	0640604

All Ram Units shown can be supplied in free-standing or mobile version .



Air Maintenance Units	
Model	Order No.
G 1/2"	0629947
G 1"	0623261

## WIWA Follow Plates and Follow Covers

Prevents suction air pockets for constant fluid output. Additionally, protects the material from dust, moisture and hardening through contact with air.



Standard Follow Plate for 216 L Drum



Standard Follow Plate for small supply containers up to 355 mm inside diameter



Heated Follow Plate for 216 L Drum

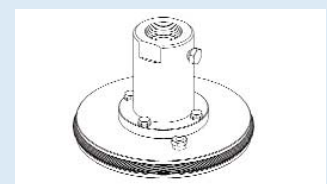
Follow Plate for 216 L Drum with double seal ring

### Optional:

- Reinforced double seal ring
- Double Wiper Ring
- Teflon Coating
- Heating for all Follow Plates w/ various performance levels

### Follow Plates for small containers from 20 to 60 L capacity

Model	Order No.
ø 280 mm	0639937
ø 282 mm	0641706
ø 283 mm	0642469
ø 285 mm	0640624
ø 287 mm	0640573
ø 295 mm	0642905
ø 300 mm	0642908
ø 315 mm	0639894
ø 328 mm	0642020
ø 350 mm	0642694
ø 355 mm	0641616



Minimum Residue Follow Plates in flat version for small containers

Follow Plate for 216 L Drum	
Model	Order No.
for 216 L Drum standard	0644762
for 216 L Drum elec.heated	0646505

Minimum Residue Follow Plate for small containers	
Model	Order No.
ø 280 mm	0644154
ø 284 mm	0643916
ø 285 mm	0644101
ø 285,7 mm	0643896

Standard version in aluminium. Optionally supplied in stainless steel.

# PROGRAM

Customer requests for special solutions are a WIWA specialty.



Standard Follow Plate for 30 kg Container

Standard Follow Cover for 20 kg to 80 kg Container	
Model	Order No.
for 20 kg container (ø 270-305 mm)	0642176
for 30 kg container (ø 300-330 mm)	0646422
for 60 kg container (ø 330-360 mm)	0646434
for 80 kg container (ø 360-385 mm)	0646143



Follow Cover for 216 L Drum standard version

Follow Cover for 216 L Drum	
Modell	Order No.
for 216 L	0607819



Minimum Residue Follow Cover for containers up to 60 L capacity

Minimum Residue Follow Cover for 20 L to 60 L	
Model	Order No.
ø 205-235 mm	0646740
ø 270-300 mm	0647007

## Extrusion Guns



Extrusion guns for high viscosity, extrudable material, for example thermoplasts, elastomers, silicones, greases, adhesives and glue. Max. operating pressure: 500 bar. Tip sizes: see table

Extrusion guns and Swivels	
Model	Order No.
Extr. gun	0631299
Swivel (straight)	0631300
Swivel (Z-link)	0631301

## Floor Mount

For connecting Extrusion Pumps to tanks, bulk supply containers, etc.

Order No.: 0646362 (for SKP 680/120)



## Heated hoses



## Drum holding ring



Drum holding ring for precise positioning

## Drum holder ring (216 L Drum)

Model	Order No.
for 216 L drum for ZSR075	0634949

## Drum Level Indicator



- Drum empty – shut down. Automatic shutdown when container is empty

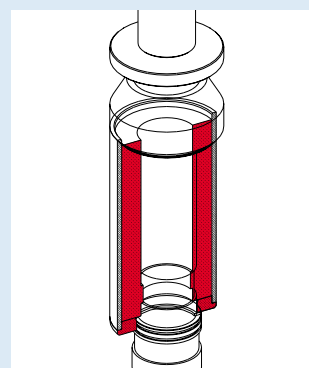
## Switchover Device



- Automatic switching for dual ram systems for uninterrupted processing of material
- Two-hand operation for safety

## Special Accessories

### Heated pumps



Electrical pump heating upon request

Tip diameter in mm	1,0	1,5	2,0	2,5	3,0	3,5	4,0	5,0	6,0	10,0
Order No.	0631129	0631130	0631131	0631132	0631133	0631134	0631135	0631136	0631137	0631138



**Spray Technology  
Material Transfer**

**WIWA**  
Wilhelm Wagner GmbH & Co. KG  
Gewerbestraße 1-3  
P.O.B. 29  
35631 Lahnau, Germany

E-Mail: info@wiwa.de  
Internet: www.wiwa.de

Telephone: +49 (0) 64 41/6 09-0  
Telefax: +49 (0) 64 41/6 09-50/-58

# THE WIWA EQUIPMENT PROGRAM



**WIWA Airless Paint Spray Equipment  
in every performance class**



**WIWA AirCombi / Air Assisted Lacquering Units**



**WIWA Hot Job Airless Hot Spray Equipment**



**WIWA DUOMIX  
Plural Component Spray Equipment**



**WIWA Material Transfer Pumps**



**WIWA Injection Equipment  
WIWA Plural Component  
Injection Equipment**



**WIWA Airless and Air Combi  
Paint Spray Guns**

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

Your local distributor is: