PUSH-OFF TECHNOLOGY

FOR TRUCKS

OVER 25 YEARS OF FLIEGL PUSH-OFF TECHNOLOGY

Fliegl
BAU- & KOMMUNALTECHNIK

09/26

THE ORIGINAL
FLIEGL PUSH-OFF TECHNOLOGY

Reliable since 1998.

A milestone

For many years, Fliegl has been known for innovative, practical transport solutions. Our proven push-off technology has been an integral part of the Fliegl product range since 1998 and is used worldwide for a wide variety of transport applications.

A story of innovation, courage, hard work, and consistency

The Fliegl name stands for quality, reliability, and a pioneering spirit in vehicle manufacturing. What began in 1975 as a small family business has grown into a globally respected partner in vehicle and machinery manufacturing.

Fliegl Bau- und Kommunaltechnik (Fliegl Construction and Municipal Technology) develops and manufactures high-performance vehicle solutions for professional use in construction and municipal applications. Together with Fliegl Agrartechnik (Fliegl Agricultural Technology) and Fliegl Dosiertechnik (Fliegl Dosing Technology), Fliegl Bau- und Kommunaltechnik (Fliegl Construction and Municipal Technology) is based at the company's 30-hectare site in Mühldorf. Around 450 employees work there using state-of-the-art manufacturing methods to develop innovative, practical solutions. For more than 45 years, this has resulted in push-off vehicles, water tanks, dump trailers, and concrete mixing technology that are recognized worldwide for quality, reliability, and cost-effectiveness.

MODELS AT A GLANCE

The right trailer for every application

ASS Stone semi-trailer

Designed for transporting bulk materials across a wide range of applications. The ASS Stone family combines the load capacity of semi-trailers with the advantages of push-off technology.

ASW Stone truck body

ASW Stone truck bodies make it possible to transport bulk materials even in the most challenging environments. The push-off system ensures complete and safe unloading in any situation.

ASS Gigant high-volume push-off trailer

ASS Gigant semi-trailers stand out for their high load capacities and excellent unloading times when transporting lightweight bulk materials. They also offer the unique ability to compress certain loads, allowing the full payload capacity to be utilized even with bulky materials.

Wiesel attachment

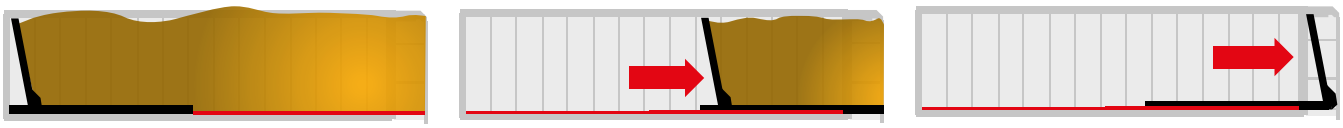
The Wiesel gives Fliegl Stone push-off systems an extremely precise and safe unloading function without limiting unloading speed.

STILL TIPPING, OR ALREADY PUSHING OFF?

The Fliegl push-off system

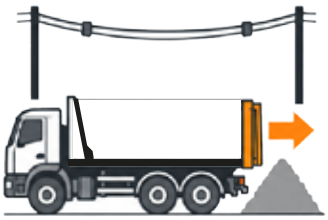
Fliegl push-off system benefits at a glance

Simple and effective for asphalt transport



- Fast and controlled unloading
- Robust mechanism for exceptional push-off force
- Reliable and simple push-off mechanism
- Minimal maintenance requirements

Safe operation under overhead obstacles



Excellent stability

Complete unloading

THERMALLY INSULATED BODIES

the specialist for road construction

Thermally insulated body features at a glance

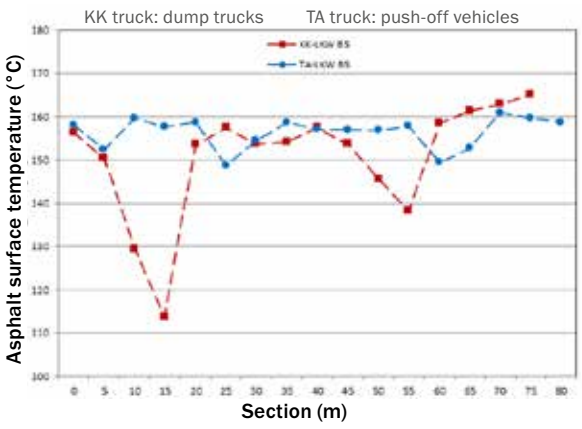
- Side walls, floor, front wall, and tailgate with at least 70 mm of insulation
- Thermally insulating
- Moisture-resistant
- Shock- and vibration-resistant
- Temperature-stable for continuous operation above 200 °C

Vehicles with push-off technology

> **“Push-off vehicles significantly reduce the risk of cold spots in the asphalt and provide a more uniform temperature distribution by feeding the material to the paver in successive slices”**

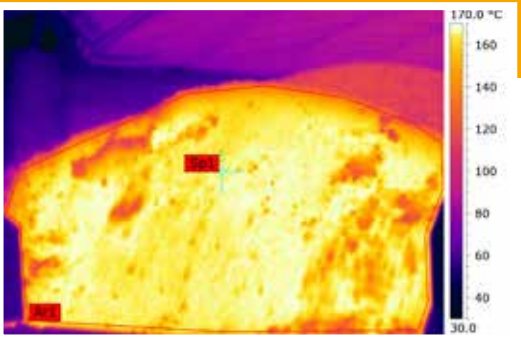
Recommended for use by the BMVI

Vehicles with push-off function

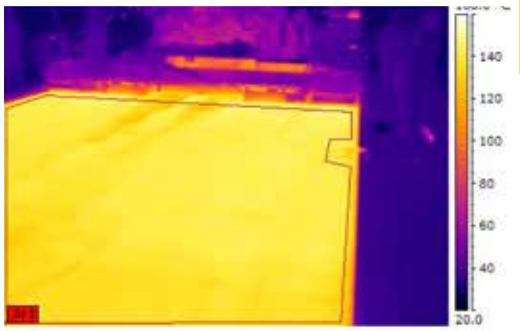


Several studies* have found more uniform asphalt mix temperatures. In particular, the noticeable temperature drop that occurs when a new vehicle docks with the paver is significantly lower with push-off vehicles.

*For more information: Vienna University of Technology, Institute of Transportation, Research Center for Road Engineering. (2015). Asphalt Temperature from Mixing Plant to Paving: Construction-Site Temperature Measurements and Asphalt Technology Investigations (Project No. D230 0615 4003 / 15406). Municipal Department 28, City of Vienna.



Temperature profile during unloading with a thermally insulated push-off body



Uniform asphalt temperature after paving with a thermally insulated push-off body

Continuous mixing throughout the entire unloading process

- High and consistent paving quality for a longer service life of asphalt surfaces
- Optimal and uniform asphalt mix temperatures during delivery and transfer to the paver
- More uniform temperature distribution reduces the risk of cold spots and associated quality losses
- Uniform aggregate size distribution ensures compliance with the specified gradation
- Reduced bitumen hardening and embrittlement, as well as lower bitumen aging, due to lower production temperatures
- Clean and complete unloading of the body

Robust, powerful, and built for demanding transport applications, the ASS Stone is a high-performance semi-trailer featuring Fliegl's proven push-off technology. Whether transporting rocks, crushed stone, gravel, or soil, even heavy and demanding loads can be moved safely and unloaded in a controlled manner.

During unloading, the vehicle remains stable while the hydraulic push-off wall reliably pushes the material out through the rear. This allows the ASS Stone to combine high load capacity with safe and efficient unloading, making it ideal for demanding construction and transport applications.

Why the ASS Stone?

Heavy loads. Safe push-off unloading. The ASS Stone brings Fliegl's proven push-off technology to a versatile semi-trailer. Even heavy bulk materials can be unloaded quickly and in a controlled manner without tipping. This provides excellent stability and makes the ASS Stone a strong solution for demanding transport and construction-site applications.

PUSH-OFF SEMI-TRAILER
ASS STONE

ASS Stone benefits at a glance

- The push-off system provides excellent stability even on slopes and difficult terrain
- Safe unloading, even under overhead obstacles
- Fast and complete unloading with no residue left behind
- Robust, wear-resistant body designed for heavy-duty use

Technical specifications	ASS 372 Mega	ASS 272 Stone		ASS 372 Stone			ASS 378 Stone		
	7229	7229	7240	7229	7240	7260	8729	8740	8760
Side wall height (mm)	1290	1290	1400	1290	1400	1600	1290	1400	1600
Approx. volume in m³* lightly heaped/level	24 (21,5)	24 (21,5)	26 (23,5)	24 (21,5)	26 (23,5)	29 (26,5)	28,5 (26)	30,5 (28)	35,5 (32,5)
Permissible gross weight in t	40/44	40/44		40/44	50	50		50	
Body length in mm	7230	7230			7230			8730	
Inside body width in mm	2370	2370			2370			2370	
Number of axles	3	2			3			3	
Minimum oil requirement in l	30,5	30,5			30,5			43	

Ausstattung	ASS 372 Mega	ASS 272 Stone		ASS 372 Stone			ASS 378 Stone		
	7229	7229	7240	7229	7240	7260	8729	8740	8760
Sliding tarp	Standard	Optional			Optional			Optional	
Thermal insulation	Standard	Optional			Optional			Optional	
Paver brake	Standard	Optional			Optional			Optional	
Backup camera	Standard	Optional			Optional			Optional	

Other body sizes and payload configurations available upon request
*Lightly heaped volume: Note: The load volume may be slightly reduced when equipped with a sliding tarp

Robust, versatile, and built for demanding projects, the ASW Stone combines Fliegl's proven push-off technology with the demands of modern road use. Whether transporting crushed stone, gravel, rocks, or soil, even heavy loads can be moved safely and unloaded in a controlled manner.

The ASW Stone push-off system gives your truck excellent stability in any terrain. A robust body is designed to handle even the coarsest materials, while the powerful push-off system ensures fast unloading. Whether on the road or at the jobsite.

Why the ASW Stone truck body?

No compromises: The ASW Stone combines maximum durability and flexibility without sacrificing payload capacity. The ASW Stone truck body adds only minimal weight while significantly expanding the vehicle's range of applications. From the quarry to the jobsite, the ASW Stone is ready for almost any challenge.

ASW STONE
TRUCK BODY

ASW Stone truck body benefits at a glance

- High stability and safety, even on side slopes
- Fast, safe unloading without tipping
- Low load center of gravity for improved handling
- Low loading height for easier loading
- Complete unloading even with sticky materials
- No reduction in payload capacity

Body length in mm →

Body height in mm ↓ Available variants	4730	5230	5730	6230
1150	13.5 (12.2)	15 (13.7)	16.5 (15)	18 (16.3)
1290	15 (13.7)	17 (15.2)	18.5 (16.8)	20 (18.3)
1400	16.5 (14.9)	18 (16.5)	20 (18.2)	–

Heaped volume (water capacity) in m³

ATTACHMENTS

Wiesel Compact

The Wiesel Compact enables precise unloading from push-off vehicles, for example when filling narrow trenches or wheelbarrows. At the push of a button, operators can switch between unloading through the tailgate and the side discharge. An integrated cover also allows normal push-off unloading without having to remove the Wiesel. The fully thermally insulated housing provides additional protection against heat loss. A holder at the front of the body also allows the discharge chute to be stored in a space-saving manner. This makes it possible to unload all types of bulk materials flexibly and precisely where needed.

Precise discharge into wheelbarrows or trenches

Stowing the unit during transport

Direct unloading into the paver possible

Discharge chute swivels 180°

Storage compartment for accessories

Wiesel

In addition to precise unloading, the Wiesel also offers extended reach. The discharge arm can be controlled by remote control, allowing precise material placement at the jobsite. This makes it possible to unload all types of bulk materials accurately over a greater distance.

ACCESSORIES

Pro-Save control system

All trailer functions can be operated by remote control

Electric sliding tarpaulin

The Cramaro tarp system secures the load and helps prevent heat loss during asphalt transport.

Pneumatically folding underride guard

Ready for paver operation at the push of a button.

Thermal package

Fliegl Isotherm

High-quality insulation for asphalt with a thermal conductivity of 0.028 W/(m·K)

temperature indicators

Thermometers integrated into the side walls allow quick checks of the temperature of the transported material.

Material guide plates

Plates on the tailgate ensure reliable material transfer to the paver without spillage.

HIGH-VOLUME PUSH-OFF TRA
ASS GIGANT

for waste management companies

Powerful and efficient, the ASS Gigant offers fast unloading cycles and high-volume capacity for your transport needs. Its powerful push-off system allows even loads of more than 60 m³ to be unloaded in a very short time. The ASS Gigant can also compact lightweight materials using its push-off mechanism, helping ensure economical transport. Tailored to your requirements, the ASS Gigant is available in various lengths and heights, with either a steel or aluminum body.

Why the ASS Gigant?

Massive volume – rapid unloading: Thanks to its unique ability to compact the load, very high loading volumes are possible, allowing the vehicle's full payload capacity to be utilized. In addition, the entire load can be unloaded within one minute, significantly reducing downtime and making transport cycles more efficient.

ASS benefits at a glance

- Fast unloading in minimal time
- Consistent and complete unloading
- Safe operation inside buildings and in confined spaces
- Versatile for wood chips, pellets, recycled materials, and much more
- Available in aluminum and steel versions for different requirements

ILER

Technical specifications	ASS 388 Gigant Steel/aluminum	ASS 398 Gigant Steel/aluminum	ASS 3108 Gigant Steel/aluminum	ASS 3118 Gigant Steel/aluminum	ASS 3125 Gigant Steel/aluminum
Number of axles	3	3	3	3	3
Body length incl. tailgate in mm	8800	9800	10800	11800	12500
Body width in mm	2380	2380	2380	2380	2380
*Volume with 2000 mm side wall in m³ *Volume with 2300 mm side wall in m³	39 45	43.5 50.5	48.5 56	53 61.5	56.5 65.5
Platform height with standard tires, approx. in mm	1400	1400	1400	1400	1400
Oil volume required/drawn from the tank	27.4	28.8	44.3	46.2	48.1

Equipment	ASS 388 Gigant Steel/aluminum	ASS 398 Gigant Steel/aluminum	ASS 3108 Gigant Steel/aluminum	ASS 3118 Gigant Steel/aluminum	ASS 3125 Gigant Steel/aluminum
Radio remote control	Standard	Standard	Standard	Standard	Standard
Galvanized side wall	Standard	Standard	Standard	Standard	Standard
Painted side wall	Optional	Optional	Optional	Optional	Optional

*Without compaction

FLIEGL BAU- UND KOMMUNALTECHNIK GMBH

Bürgermeister-Boch-Str. 1
D-84453 Mühldorf am Inn
Phone.: +49 8631 307-382
E-Mail: baukom@fliegl.com
fliegl-baukom.de