



**echeuch**  
TECHNOLOGY FOR CLEAN AIR

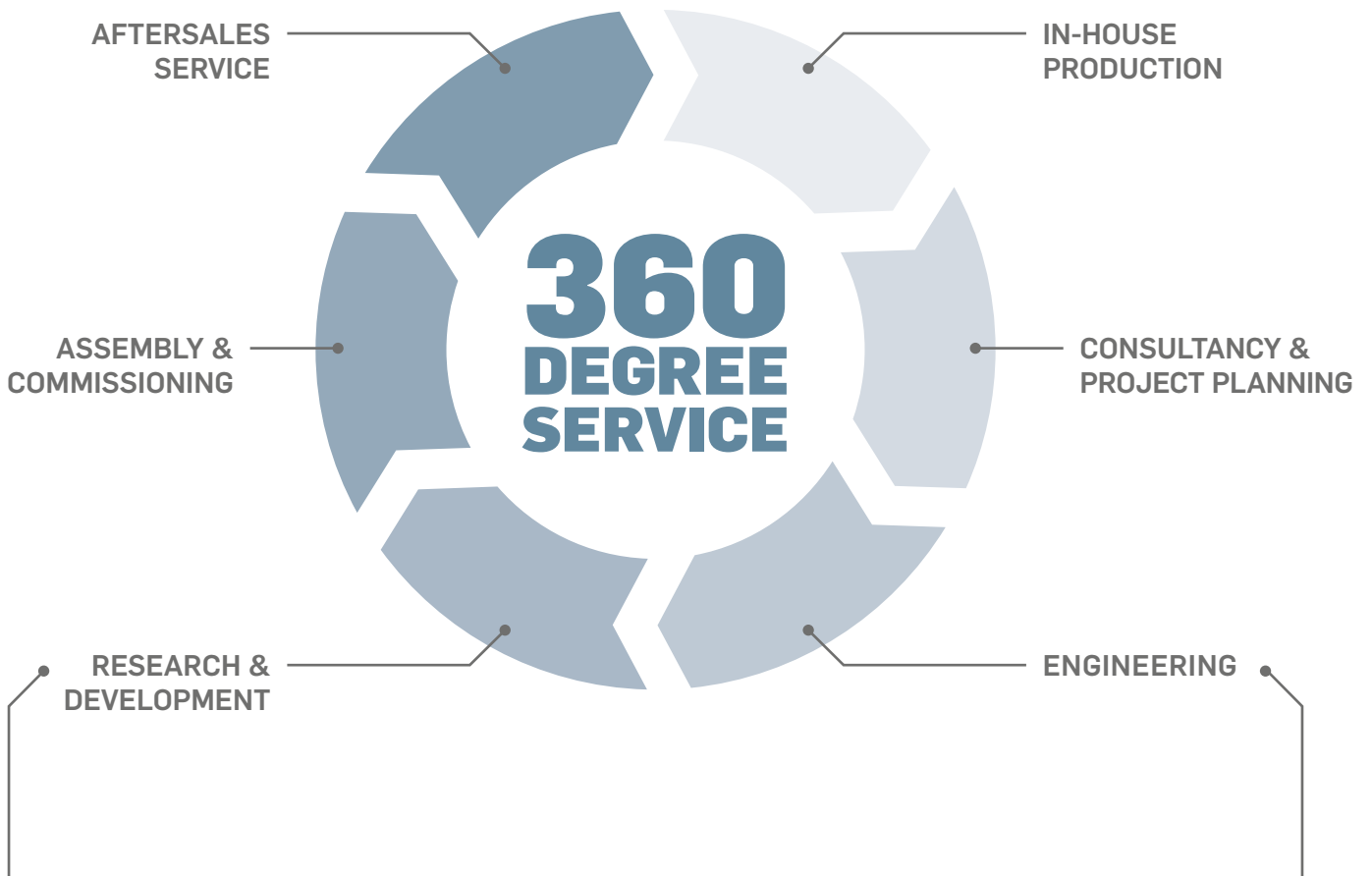
# SCHEUCH MATERIALS HANDLING TECHNOLOGY

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FOR RELIABLE MATERIAL TRANSPORT

# THE NUCLEUS OF SUCCESS

YOUR ONE-STOP SHOP



## INNOVATION CENTER

In our technology center at Scheuch's headquarter in Auroldmünster, Austria, we develop product solutions in line with your requirements. Thanks to our engineering expertise, we find the best configuration foundations for the components in your plants.



## PROCESS EXPERTISE

With our many years of experience in plant manufacturing, we develop the right solution to suit your specific needs. Your requirements are our objectives!





CHEMICAL /  
PHARMACEUTICAL

WOOD /  
WOOD BASED PANELS



PLASTICS

DISCHARGING – BLOCKING –  
DECOUPLING – CONVEYING – DOSING



# OPERATING WORLDWIDE

MINERALS  
Cement, limestone,  
industrial minerals

METAL

## AT HOME IN ALL INDUSTRIES

We provide an international network which ensures direct contact with our customers around the world. Our local specialists and partners speak your language and are fully familiar with local customs.



FOODSTUFFS /  
ANIMAL FEED



RECYCLING



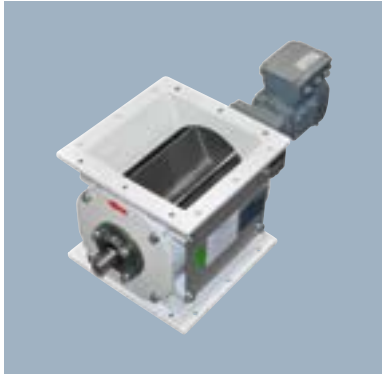
## SCHEUCH...

- has already installed over 25,000 bulk goods systems worldwide
- produces more than 3000 bulk goods components per year
- employs over 1000 members of staff worldwide
- has a network with locations all over the globe
- carries out research and development with its own technical centre in Auroldmünster (Austria)

ENVIRONMENTAL  
TECHNOLOGY

# TAILOR-MADE TECHNOLOGIES

## ROTARY VALVES MADE BY SCHEUCH

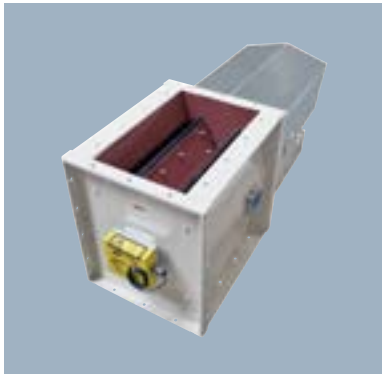


### ROTARY VALVE IN CAST CONSTRUCTION – TYPE ZSG

For free-flowing dusts with both hard and fine graining

**Design:** casing made from grey cast iron, with optional hard chrome-plated casing bore, full-blade rotor as standard in grey cast iron or made from wear-resistant steel

**Throughput volume:** 7.5 to 15 m<sup>3</sup>/h\*



### WELDED ROTARY VALVE IN LIGHT-DUTY CONSTRUCTION – TYPE ZSL

For free-flowing dusts, high-volume chips, light fibres

**Design:** casing in screwed construction, rotor blades with elastic sealing lips

**Throughput volume:** 35 to 9122 m<sup>3</sup>/h\*



### WELDED ROTARY VALVE IN HEAVY-DUTY CONSTRUCTION – TYPE ZSS

For free-flowing dusts with both hard and fine graining, as well as for non-metallic chips

**Design:** casing in solid welding construction made from high-strength steel; casing hard chrome-plated; wear-resistant rotor made from steel, with adjustable strips as standard design

**Throughput volume:** 25 to 830 m<sup>3</sup>/h\*



### WELDED CUTTING ROTARY VALVE IN SOLID CONSTRUCTION – TYPE ZSM

For free-flowing dusts and high-volume wood chips

**Design:** casing in solid welding construction made from high-strength steel; shearing blades in inlet and outlet of the valve; rotor made from wear-resistant steel with hardened cutting edges

**Throughput volume:** 120 to 2625 m<sup>3</sup>/h\*

\* at 100% fill level

# APPLIED EXPERTISE

## ROTOR DESIGNS FOR ROTARY VALVES



Rotor with double metal sealing strip



Rotor with rubber sealing lip

### ADDITIONAL MODELS

- Full-blade rotor with chamber reduction
- Cutting rotary valve with blade strip
- Rotor with double wear strip
- Rotor with full blade



### SPECIAL SOLUTIONS

- Stainless-steel design
- Hot gas design up to 400°C
- Custom wear-resistant concepts
- Pressure-shock-proof design
- ATEX design – devices and protective systems
- ATEX protective system (ignition-resistant and flame-resistant)
- Gas flushing to protect the shaft seal



## ROTARY VALVES PERFORMANCE OVERVIEW

PERFORMANCE DATA OF VALVES				
	zsg	zsl	zss	zsm
THROUGHPUT VOLUME AT 100% FILL LEVEL IN m³/h	7.5–15	35–9122	25–830	137–2625
MAX. CONVEYED MATERIALS TEMPERATURE IN °C	80	80	80	80
MAX. PRESSURE DIFFERENCE IN mbar	800	80	800	800
ROTOR DESIGNS				
	zsg	zsl	zss	zsm
METAL SEALING STRIP	optional	-	optional	-
WEAR STRIP	optional	-	Standard	-
RUBBER SEALING LIPS	optional	Standard	optional	-
FULL BLADE ROTOR	Standard	-	optional	Standard
ACCESSORIES				
	zsg	zsl	zss	zsm
CASING BLADE – INLET SIDE	-	-	optional	Standard
WEAR PLATE – INLET SIDE	-	-	optional	-
SPEED CONTROL	optional	optional	optional	optional
REPAIR SWITCH ON DEVICE	optional	optional	optional	optional
SIDE PLATE VENTILATION	-	-	optional	optional
SUPPORTING FRAME	optional	optional	optional	optional
SPECIAL DESIGN				
	zsg	zsl	zss	zsm
HARD CHROME-PLATED CASING BORE	optional	-	Standard	Standard
HOT GAS DESIGN UP TO MAX. °C	200	-	200	200
PROTECTIVE SYSTEM (DIRECTIVE 2014/34/EU)	-	optional	optional	optional
SPECIAL MATERIAL ON REQUEST	-	optional	optional	optional
INSTALLATION IN ATEX ZONE 22 (II 3D)	optional	optional	optional	optional

# A VARIETY OF SOLUTIONS

## PRODUCT PORTFOLIO SCHEUCH SCREW CONVEYORS



PIPE SCREW



TROUGH SCREW



SPECIAL DESIGN:  
DUAL-DISCHARGE SCREW AT 1200 m<sup>3</sup>/h



### SPECIAL SOLUTIONS:

- Custom wear-resistant concepts
- Custom design of loading and unloading
- ATEX design
- Stainless-steel design
- Filter trough screw
- Step screw conveyor up to 30°
- Screws can also be used as mixers and coolers

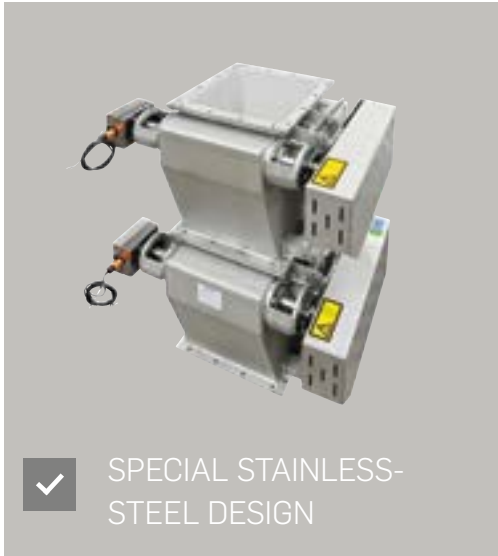
PERFORMANCE DATA OF SCREWS	Pipe screw	Filter trough screw	Trough screw
THROUGHPUT VOLUME AT 100% FILL LEVEL IN m <sup>3</sup> /h	0.25-610	0.25-610	0.25-610
MAX. CONVEYED MATERIALS TEMPERATURE IN °C	250	250	250
MAX. PRESSURE DIFFERENCE IN mbar	400	400	400
NOMINAL DIAMETER IN mm	200-1000	200-1000	200-1000

# HIGHEST PERFORMANCE AND AVAILABILITY

## DOUBLE PENDULUM FLAPS IN A VARIETY OF DESIGNS

Pendulum flaps are used for the continuous dosing, blocking and discharging of bulk materials.

The flexible structure of the Scheuch pendulum flaps enables reliable channelling and separation of free-flowing bulk materials out of and into pressure-difference chambers (e.g. filter systems). These are actuated pneumatically, electrically or mechanically.



SPECIAL STAINLESS-STEEL DESIGN



PENDULUM FLAPS PERFORMANCE DATA	pkg/dpkg	dpkp	dpkm
THROUGHPUT VOLUME AT 100% FILL LEVEL IN m <sup>3</sup> /h	0.25-610	2.4-15	2.4-10.8
MAX. CONVEYED MATERIALS TEMPERATURE IN °C	250	250	250
MAX. PRESSURE DIFFERENCE IN mbar	50	50	50
NOMINAL DIAMETER IN mm	250-315	250-500	250-500

## ROTATING FLAP SCREW

ROTATING FLAP SCREW PERFORMANCE DATA	dk
THROUGHPUT VOLUME AT 100% FILL LEVEL IN m <sup>3</sup> /h	5.9-8.6
MAX. CONVEYED MATERIALS TEMPERATURE IN °C	80
MAX. PRESSURE DIFFERENCE IN mbar	1000
NOMINAL DIAMETER IN mm	Ø 256

ADDITIONAL PRODUCTS FROM THE SCHEUCH PRODUCT RANGE FOR CONVEYING AND DISCHARGING SYSTEMS:

DOSAGE DEVICES – EMPTYING STATIONS  
INJECTORS – AIR SLIDES

# scheuch

TECHNOLOGY FOR CLEAN AIR

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