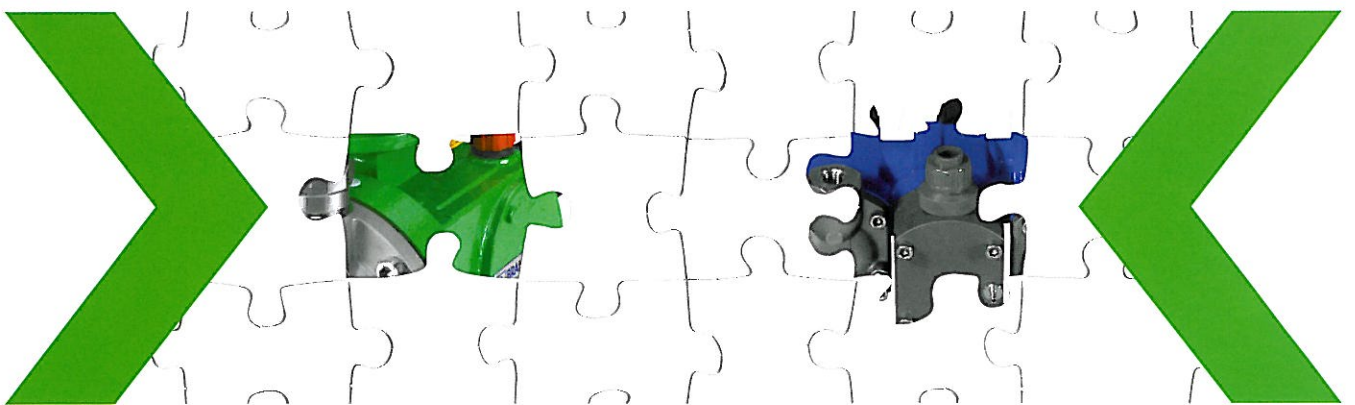


## ProCam Smart



A Solution fit for your Processes

**motralec**

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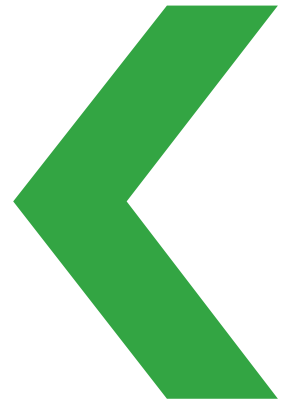
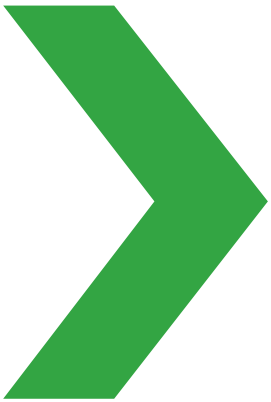
**SPX**<sup>®</sup>



# Smart Standard

With ProCam Smart Bran+Luebbe offers a high quality, economic pump for the customer with less demanding applications.

For basic dosing pump duties and a “Smart” economic solution, select **ProCam Smart**.



Performance is not compromised as the pump range uses the well proven ProCam design to achieve long lasting reliable operation, as expected from all Bran+Luebbe pumps.

Standardisation means not only low investment, but as most of the components are identical and interchangeable, spares can be minimized leading to low storage cost and high availability.

# Smart Series



ProCam Smart DS 15



ProCam Smart DS 50



ProCam Smart DS 200



ProCam Smart DS 500

## Flow Rate and Pressure

ProCam Smart Type	max. flowrate* (l/h) stroke frequency min <sup>-1</sup>				max. pressure bar	connections	Motor power kW 230/400 V
	50	72	100	144			
<b>DS 15</b>	5	7,5	10	15	20	G 3/8"	0,18
<b>DS 50</b>	17,5	25	35	50	10	G 3/8"	0,18
<b>DS 200</b>	70	100	140	200	10	G 1/2"	0,55
<b>DS 500</b>	175	250	350	500	6	G 1"	0,75

\* Values at 100% volumetric efficiency

## Article Number (please use when ordering)

ProCam Smart Type	stroke frequency min <sup>-1</sup>			
	50	72	100	144
<b>DS 15</b>	440234	440233	440232	440231
<b>DS 50</b>	440238	440237	440236	440235
<b>DS 200</b>	440242	440241	440240	440239
<b>DS 500</b>	440246	440245	440244	440243

# Smart Applications

## ProCam Smart in Energy Production

### Applications

Chemical degassing  
Oxygen scavenging  
Corrosion inhibition  
Caustification  
Decarbonizing

### Metered fluids

Hydrazine, Levoxine, Helamin  
Hydrazine, Levoxine, Helamin  
Hydrogin peroxide (H<sub>2</sub>O<sub>2</sub>), Helamin  
Ammonia (NH<sub>3</sub>)  
Lime

## ProCam Smart in Water and Sewage Treatment

### Applications

Flocculation  
Fluorodizing  
pH-control

Oxidation

### Metered fluids

Activated Silica (SiO<sub>2</sub>)  
Fluorides  
Caustic (NaOH)  
Lime  
Sulphuric Acid (H<sub>2</sub>SO<sub>4</sub>)  
Potassium Permanganate (KMnO<sub>4</sub>)

## ProCam Smart in the Food and Beverage Industry

### Applications

CIP – Cleaning  
Colouring of food  
Flavouring  
Soft Drinks

### Metered fluids

NaOH, Nitric acid (HNO<sub>3</sub>)  
Food certified colors  
Fragrances, Essences,  
Fragrances, Essences, Oils, Water

## ProCam General applications

Chemical Industry  
Textile Industry  
Paper Industry and Wood Processing  
Plastic and Building Chemicals



# The ProCam Smart

the economic multipurpose alternative.

## Applications:

- General purpose metering pump for standard harmless as well as harmful fluids
- Economic alternative by standardisation without loss of performance

## Advantages:

- Hermetically closed pump design
- Diaphragm head with mechanically operated PTFE double-diaphragm
- Diaphragm status control by hose nipple

## Applications:

- Municipal water treatment
- Energy production
- General applications in the chemical industry



## Materials

### (product wetted parts)

- Stainless Steel

## Pump connections

- ID- Thread DIN ISO 228

## Pump gear

- Robust cast iron gearbox
- Metallic gear components

## Stroke adjustment

- Manual

## Type of gear

- Integrated worm- wheel/ -shaft reduction

## Lubrication

- Splash lubrication

## Drive

- Fixed speed
- Standard IEC motors, IP 55

## Operating Pressure / Flowrate

- Diaphragm pump heads: up to 20 bar
- Flow rate: up to 500 l/h

# The ProCam

our flexible solution for more demanding requirements.

## Applications:

- Flexible metering pump for all liquids and more demanding requirements
- Easy to fulfill customer requirements. Building block system including useful options including customer specific documentation

## Advantages

- Hermetically sealed pump design
- Diaphragm head with mechanically operated PTFE double-diaphragm
- Diaphragm status control

## Applications

- Adjustable to formulations by using the building block system
- Chemical / petro-chemical industry
- Food and beverage industry
- Pharmaceutical / cosmetic industry
- Energy production

## Additional designs:

- ProCam-plunger pumps
- ProCam Sanitary
- ProCam Hygienic (EHEDG)



## Materials

### (product wetted parts)

- Stainless Steel
- Plastic (PVC, PP and PVDF)

## Pump connections

- ID- Thread DIN ISO 228 (standard)
- Flange DIN / ANSI (optional)
- NPT (optional)
- Food connection DIN 11851 (optional)
- SMS (optional)

## Diaphragm status control

- Hose nipple (standard)
- Pressure gauge (optional)
- Pressure switch, EEX i (optional)

## Pump gear

- Robust cast iron gearbox
- Metallic gear components

## Stroke adjustment

- Manual (standard)
- Electric motor (optional)
- Electric motor with integrated controller Input / output signal 0 – 20 mA (optional)

## Flexible building block system

- Multiple pumps with up to 6 pump heads by combining matching gear / pump head units

## Type of gear

- Integrated worm- wheel/ -shaft reduction

## Lubrication

- Splash lubrication

## Drive

- Fixed speed
- Variable speed drive
- Execution for hazardous areas

## ATEX Certification

- Zone 1: CE Ex II 2G c IIB T4 (also applicable for plastic pumpheads)
- Zone 2: CE Ex II 3G c IIC T4

## Operating Pressure / Flow rate

- Diaphragm pump heads: up to 20 bar / up to 3000 l/h
- Plunger pump heads: up to 80 bar / up to max 60.5 l/h

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**PROCESS EQUIPMENT**



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