

PCM X-GUARD

› PROTECT YOUR
DOWNSTREAM EQUIPMENT
AND INVESTMENTS

www.pcm.eu





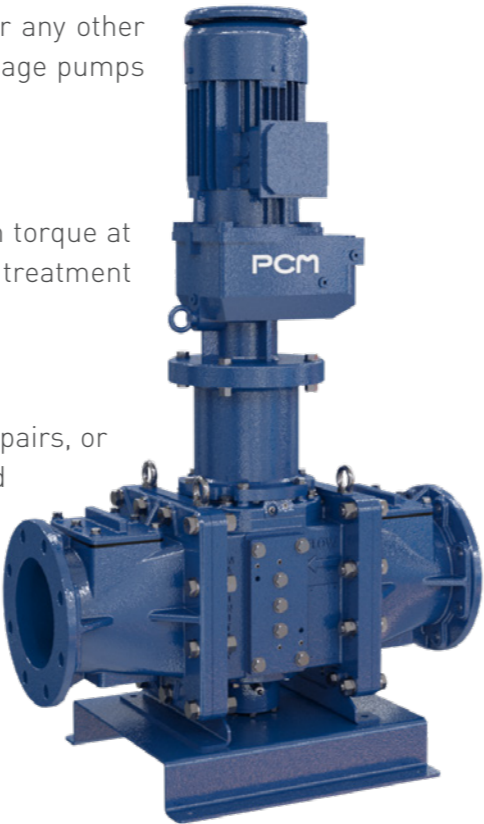
PCM X-GUARD

THE NEW ULTIMATE IN-LINE GRINDER TO SHRED SOLID PIECES IN FLUIDS BEFORE THEY CAN DAMAGE YOUR DOWNSTREAM EQUIPMENT

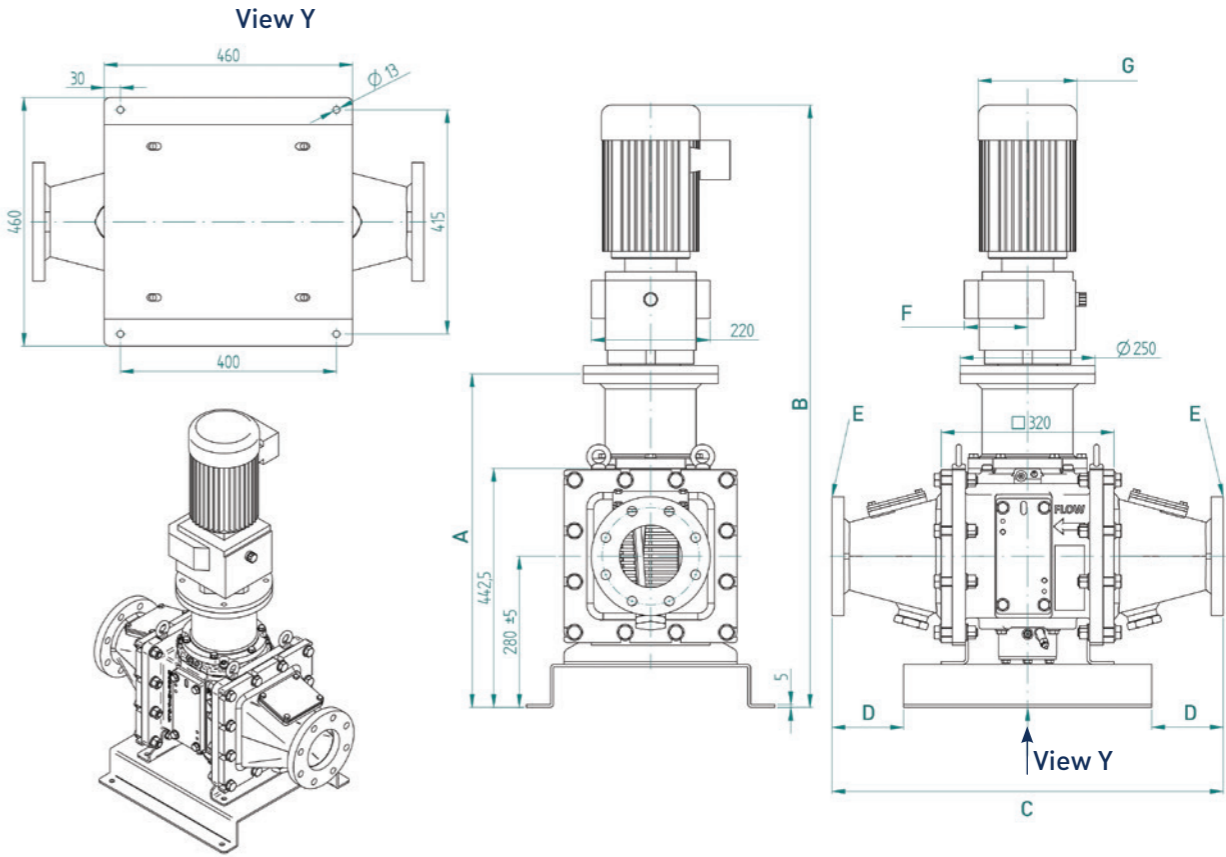
The PCM X-Guard in-line grinder reduces tough wastewater solids to fine particles. It grinds and shreds rags, pieces of wood, plastics, or any other solid or semi-solid pieces that could otherwise clog valves, damage pumps or any other downstream treatment equipment.

Its cartridge cutter system, extremely robust and delivering high torque at low rotational speeds, is ideal for improving the performance of treatment and dewatering equipment for sludge or highly charged fluids.

PCM X-Guard prevents from costly damages, time consuming repairs, or unplanned maintenance operations. Furthermore, PCM X-Guard can contribute to a better performance of the sludge treatment or dewatering equipment in helping to better precondition the sludge.



CONSTRUCTION

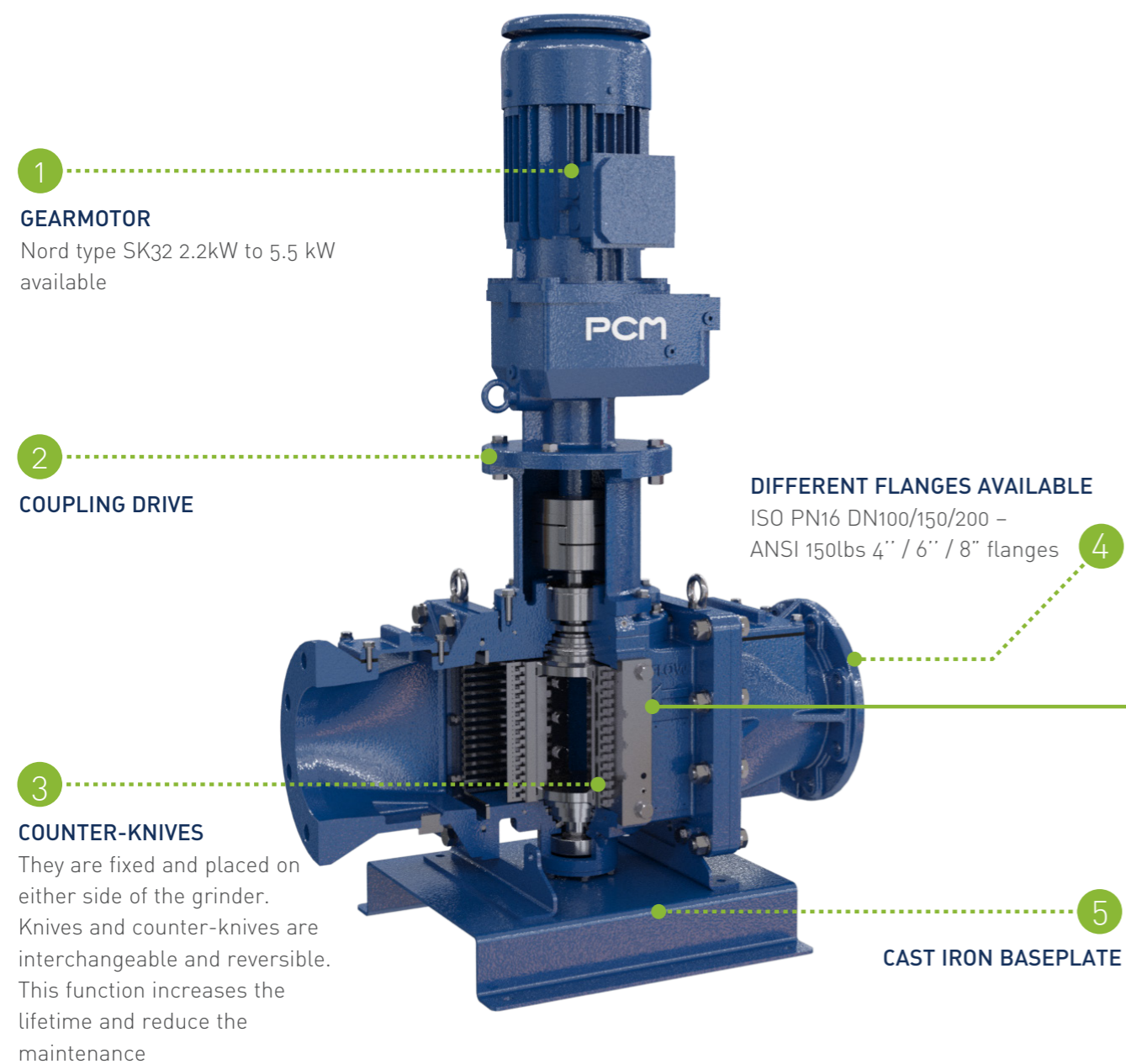


	Capacity	A	B	C	D	E	F	G
Gearmotor 2.2 kW	up to 15 l/sec (54m³/h)	617.5 mm	1166.1 mm	724 mm (+/- 5)	132 mm	DN100/DIN2501/PN16 / ANSI 150lbs 4"	117.1 mm	Ø 183 mm
Gearmotor 3 kW	up to 20 l/sec (72m³/h)	617.5 mm	1166.1 mm	724 mm (+/- 5)	132 mm	DN100/DIN2501/PN16 / ANSI 150lbs 4" / DN150/DIN2501/PN16 / ANSI 150lbs 64" / DN200/DIN2501/PN16 / ANSI 150lbs 8"	117.1 mm	Ø 183 mm
Gearmotor 4 kW	up to 40 l/sec (144m³/h)	637.5 mm	1258 mm (+/- 5)	732 mm (+/- 5)	136 mm	DN100/DIN2501/PN16 / ANSI 150lbs 4" / DN150/DIN2501/PN16 / ANSI 150lbs 64" / DN200/DIN2501/PN16 / ANSI 150lbs 8"	144 mm	Ø 218 mm
Gearmotor 5.5 kW	up to 65 l/sec (234m³/h)	637.5 mm	1311 mm	732 mm (+/- 5)	136 mm	DN150/DIN2501/PN16 / ANSI 150lbs 64" / DN200/DIN2501/PN16 / ANSI 150lbs 8"	155 mm	Ø 256 mm

AVAILABLE INSTALLATION



PCM X-GUARD CONSTRUCTION

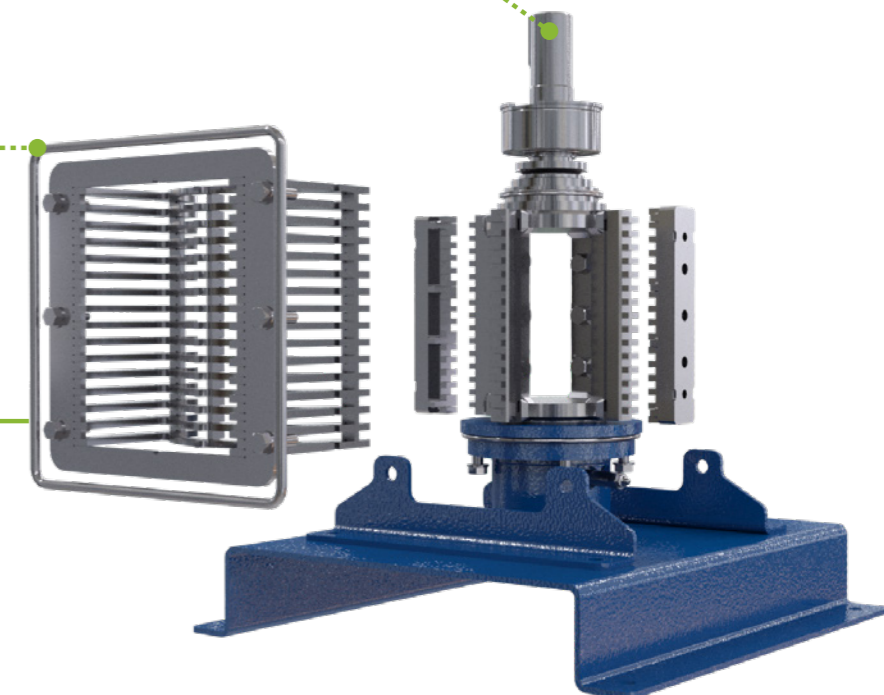


6 **ROTARY KNIVES**

The four knives allow an efficient shredding and decrease the head losses. Thanks to these rotary knives the grinder can accept large particles and reduce them to 5-6 mm.

7 **KNIVES CAGE**

It allows to hold back the large particles to grind them properly and to guarantee the pump safety.

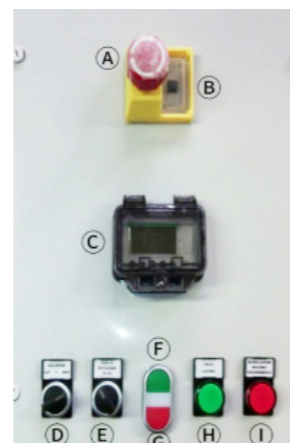


ACCESSORIES

Option

- Anti-clogging autoreverse control through control panel and automation - 190 mm square entry

- A:** Emergency stop
B: On/off switch
C: Window for checking and modifying PLC parameters
D: Manual/ automatic operation switch
E: Motor rotation inverter switch
F: Start
G: Stop
H: Machine operation indicator light
I: Machine operation indicator light



ADVANTAGES

High cutting performance

- Particles reduced to 5-6 mm
- High torque / low speed
- Heat treated steel cutters
- 4 knives increase the grindind frequency: fewer missed particles in the fluid, more efficient grinding

Low impact on hydraulics

- Less than 0.5 bar head loss

Simple maintenance

- Single shaft design
- Cutter's cartridge design
- Slide inspection hatch
- Knives and counter knives interchangeable, reversible and removable

Large choice of drive and flanges

- Bearing drive mounting with elastic coupling: 4 power choices
- Variety of flanges: optimized adaptability to customer's pipe

INDUSTRIES AND APPLICATIONS



› BIOMASSE

Animal and vegetal waste, supermarkets waste...



› WASTE WATERS

Alternative to two stage screening, pump stations, septage receiving, grease receiving, primary scum, primary secondary sludge, RAS (Return Activated Sludge), WAS (Waste Activated Sludge), dewatering equipment protection, heat exchanger protection, pump protection



› COMMUNITIES

Waste water processing



› MINING

Clothes, rags



› AGRICULTURE

Food destruction, preconditioning organic waste for composting, manure processing



› FRUITS & VEGETABLES WASTES

Long fibers, pulps, stones



› MEAT & FISH WASTES

Animal wastes, bones, long fibers, pulps