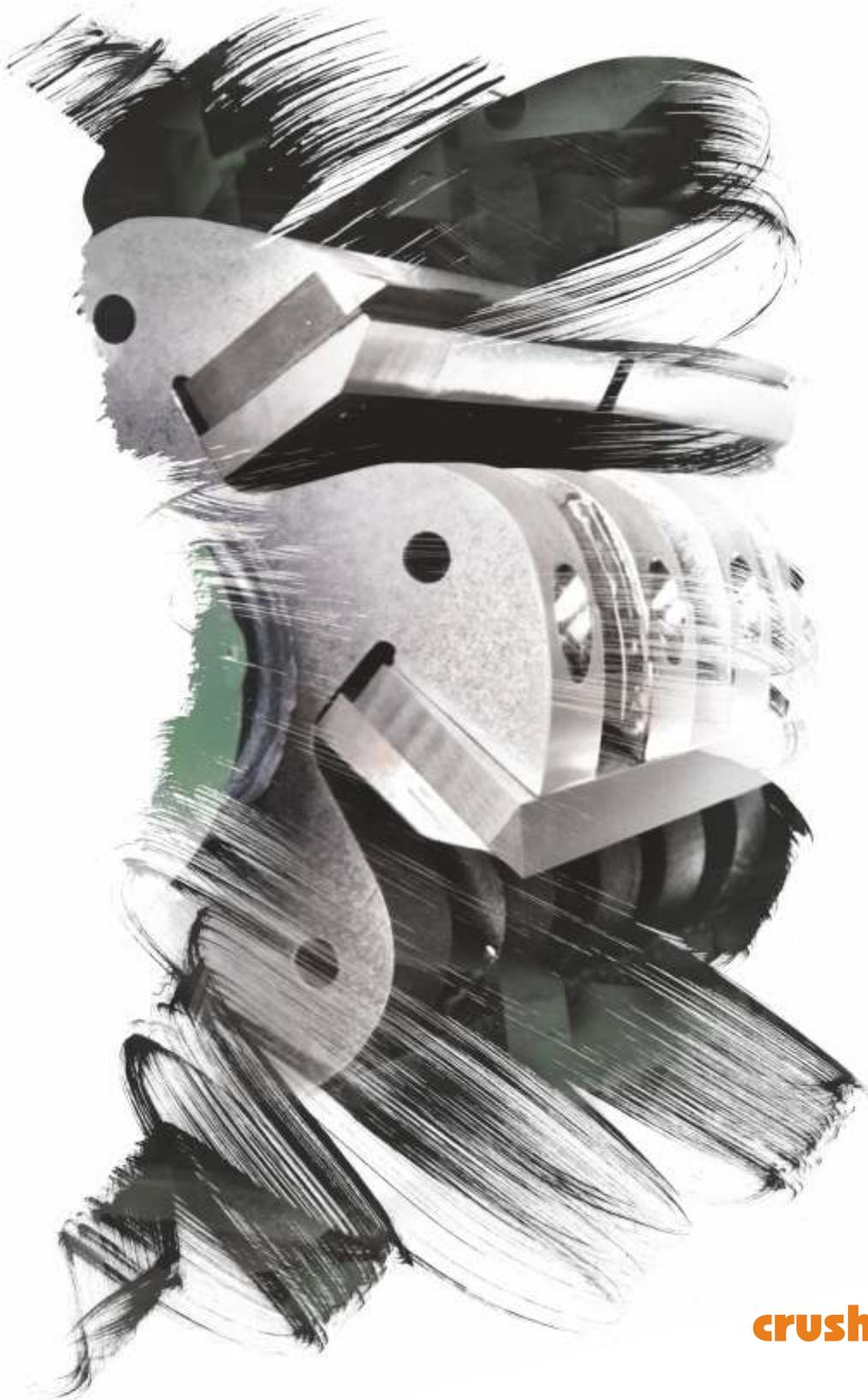


# crushmaster

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GRANULATORS AND SHREDDERS



[crushmaster.com](http://crushmaster.com)



## **RANGE OF MACHINES**

A SERIES – BESIDE THE PRESS GRANULATORS

Type: A 15 · A 25 · A 35

G SERIES – ECONOMICAL GRANULATORS

Type: G 25 · G 50 · G 75

H SERIES – ECONOMICAL GRANULATORS

Type: H 50 · H 75 · H 100

S SERIES – HIGH PERFORMANCE GRANULATORS

Type: S 60 · S 70 · S 100

Q SERIES – SINGLE SHAFT SHREDDERS

Type: Q 60 · Q 80 · Q 110 · Q 140 · Q 170



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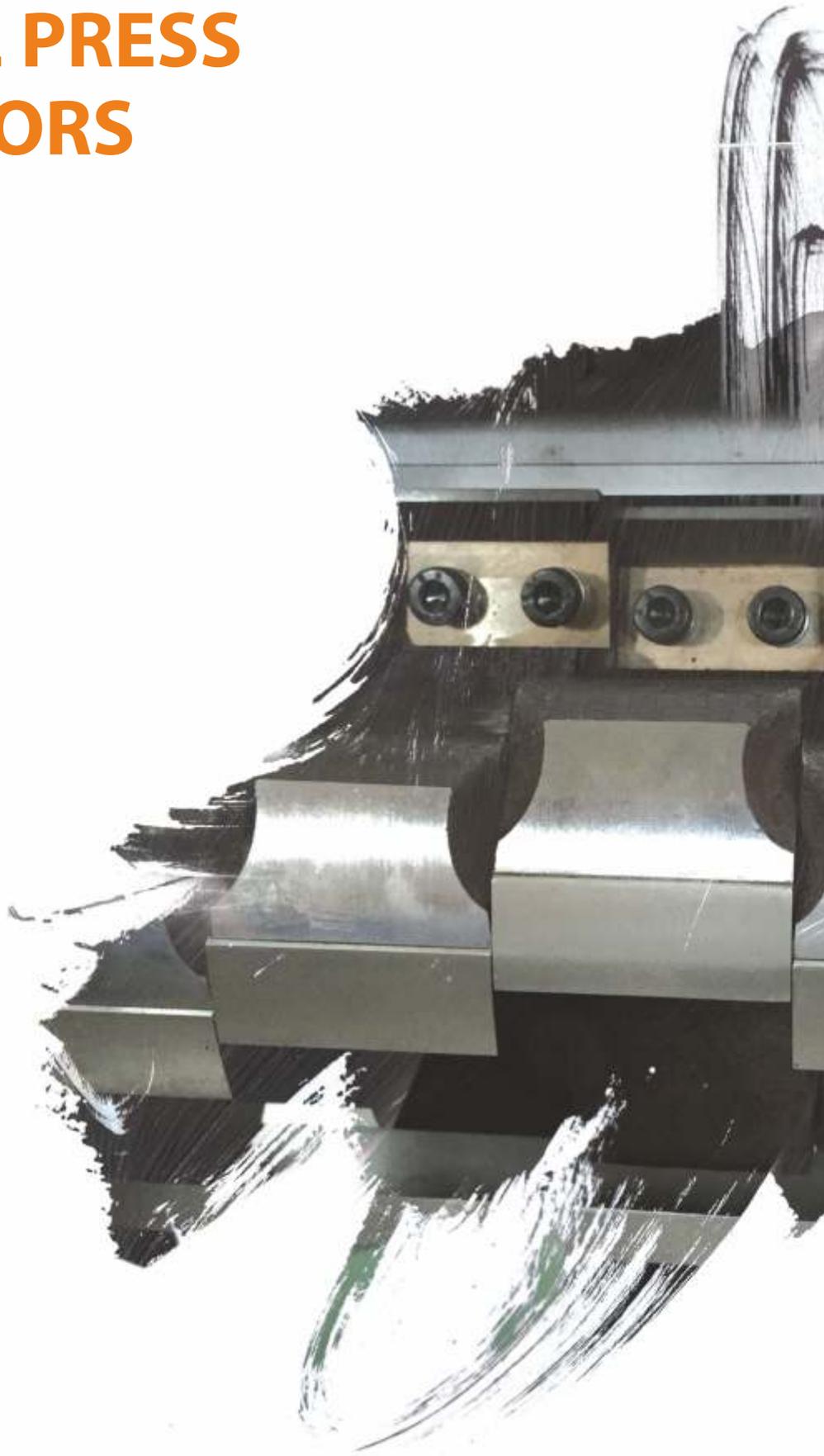
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#### **ABOUT CRUSHMASTER**

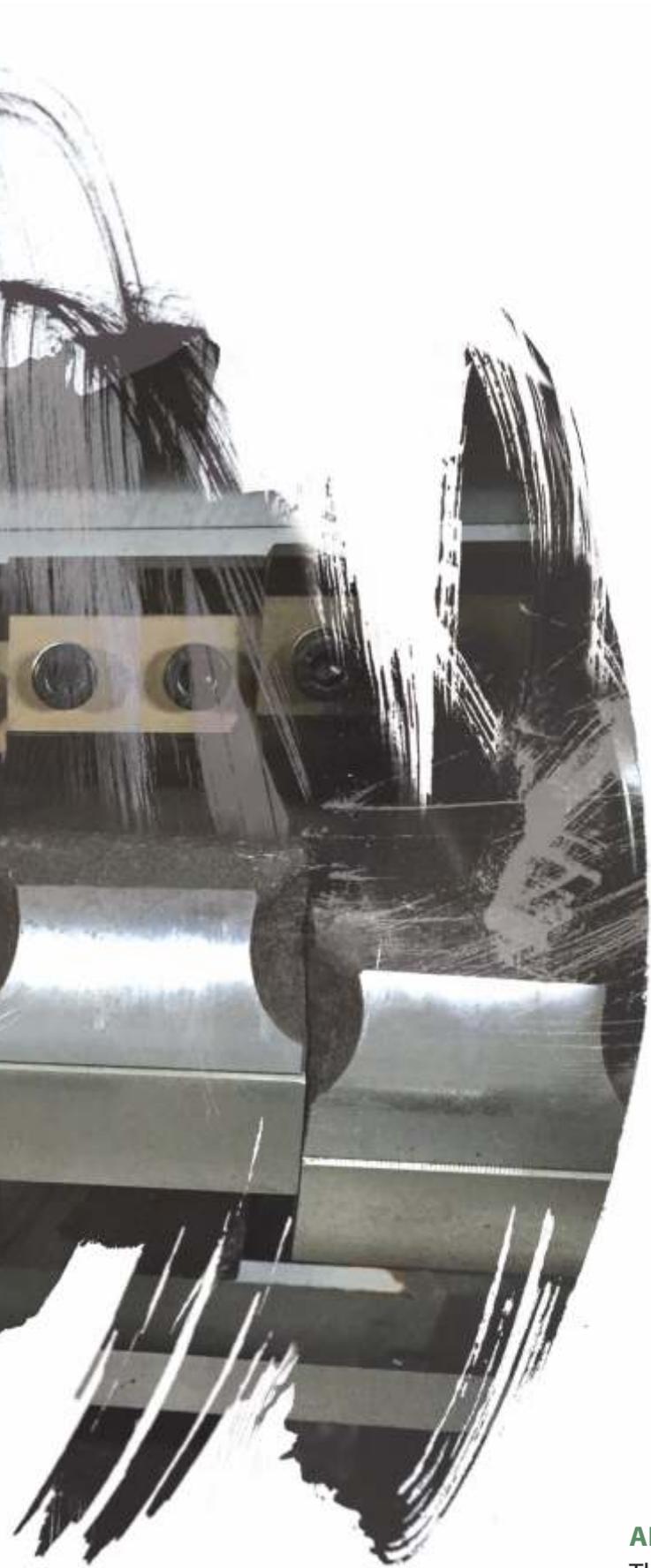
Crushmaster offers modern no frills recycling technology based on research and experience. Crushmaster covers the field of beside the press machines, medium central granulators and light duty shredders.

**crushmaster** is your first choice in dependable and solid machines, built to perform their duty on a day-to-day basis in a tough environment.

# A SERIES – BESIDE THE PRESS GRANULATORS



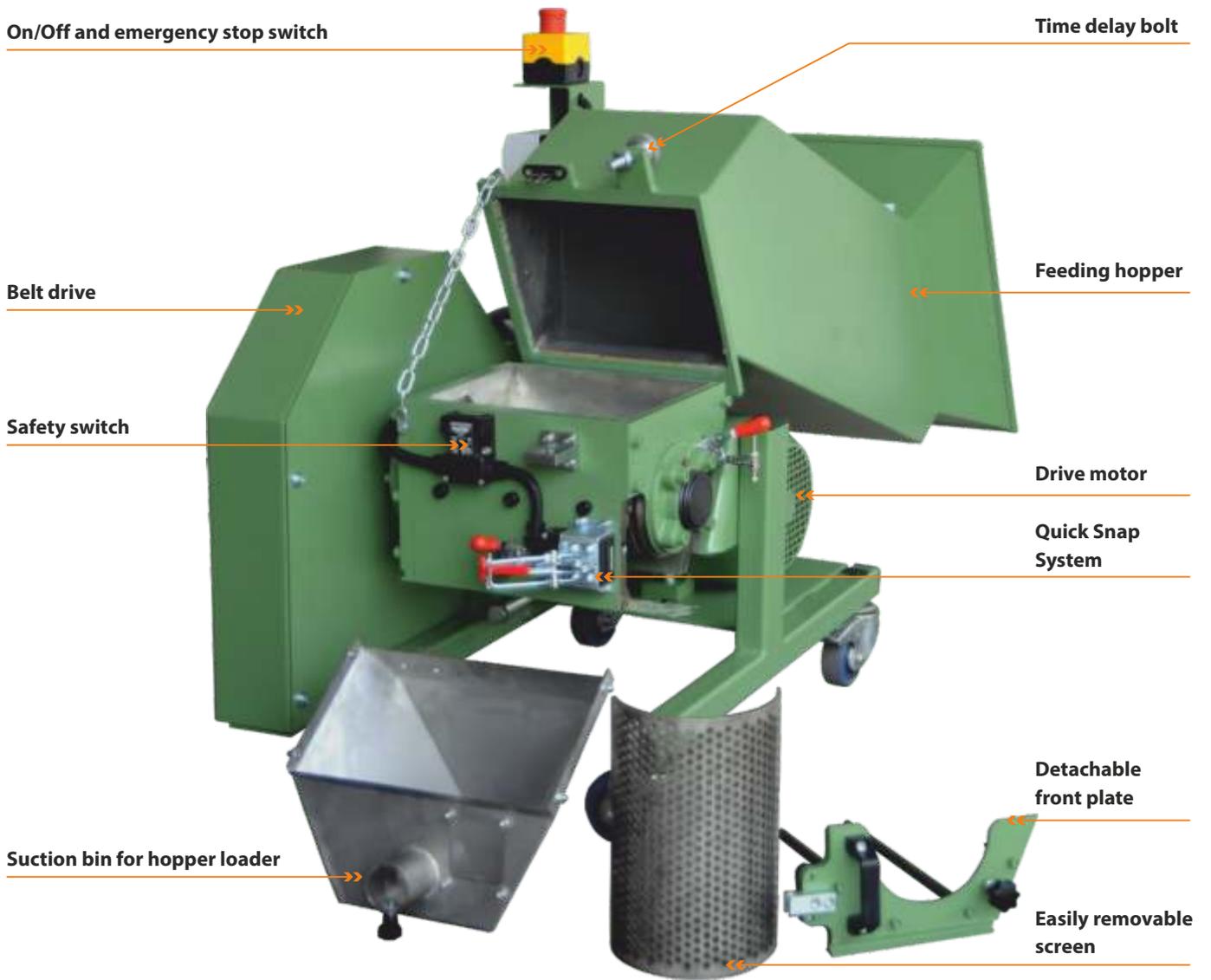
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### **APPLICATIONS**

The A series slow speed granulators are mainly used in injection and blow molding processes as beside the press machines to grind runners and sprues. The resulting granules are then immediately reintroduced into the production process.

# TECHNICAL DESCRIPTION



# A SERIES – BESIDE THE PRESS GRANULATORS

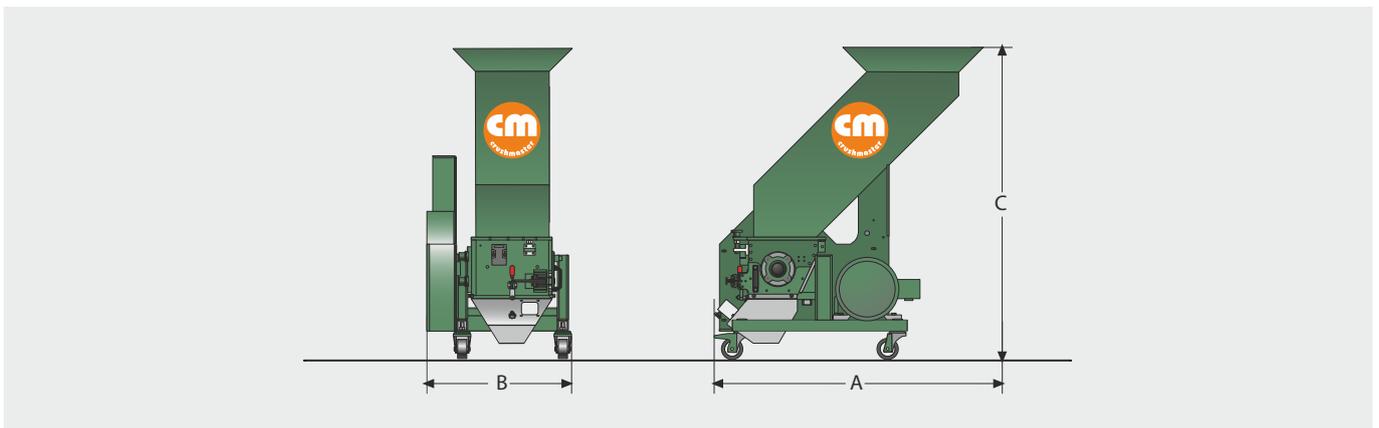


## GENERAL DESCRIPTION

The slow speed granulators in the A series feature a staggered 150 mm diameter rotor with widths ranging from 150 to 350 mm. The rotor is driven by a belt drive. The low rotor speed reduces the noise level and creates less dust while grinding. The special design knives of the A series can be sharpened easily and do not need adjustment afterwards. The material is fed via a sound absorbing feed hopper. They are mounted on either low or high level base frames with matching suction bins or bag filling adapters. Quick snap fasteners and hand screws make access to the machine for maintenance and cleaning fast and easy.

## ADVANTAGES

- » The curvature of the specially profiled rotor knives ensures a constant cutting radius after resharpening thus maintaining the original cutting gap. Awkward knife adjustment is no longer necessary.
- » Staggered rotor blades create an individual blade cut thus increasing the cutting torque. All of the machines in this series are therefore suitable for grinding more solid materials and thicker walled sprues.
- » The Quick Snap System allows the lower front plate section to be easily removed for granulator cleaning. The lower front plate section is held in position by two sturdy lever clamps.

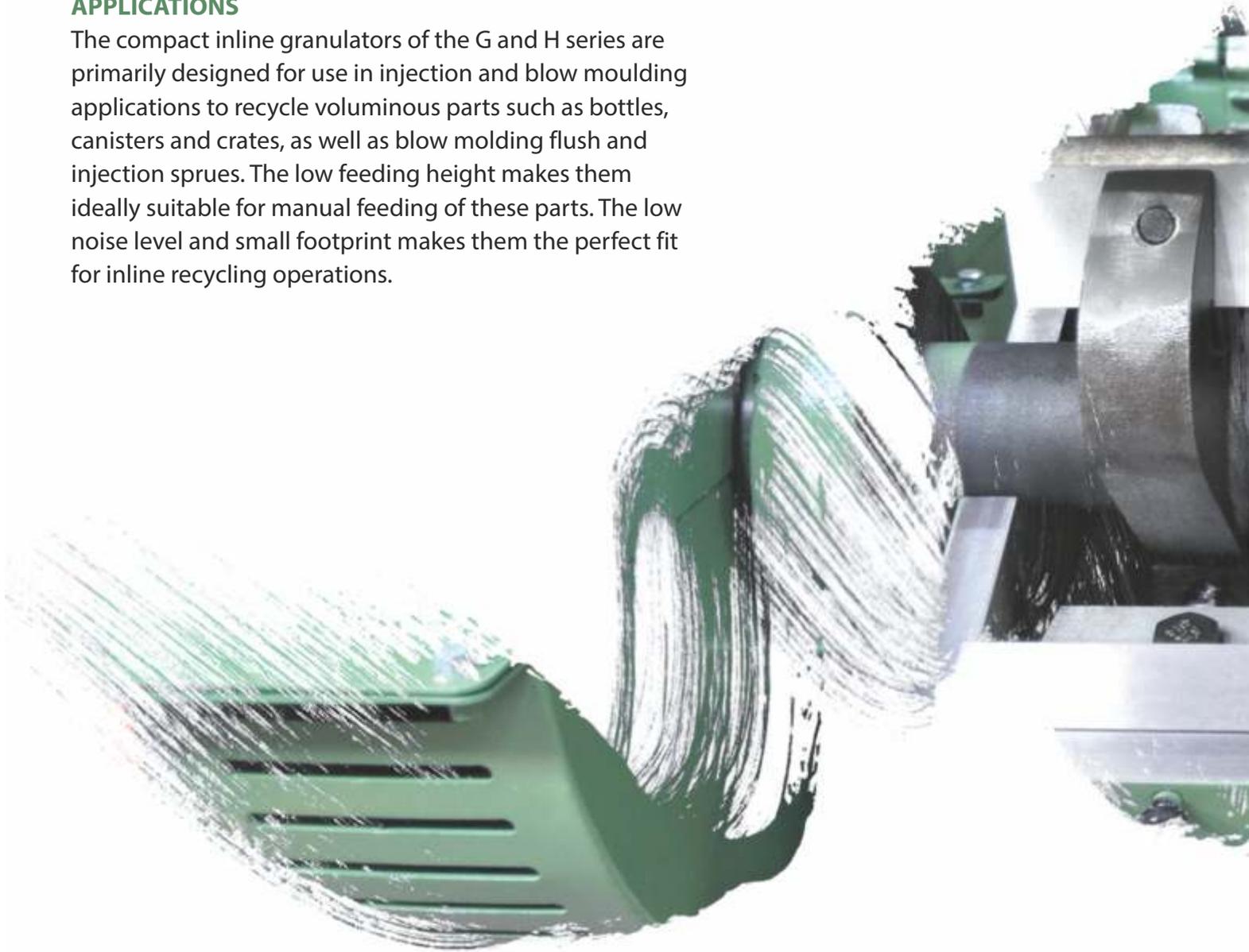


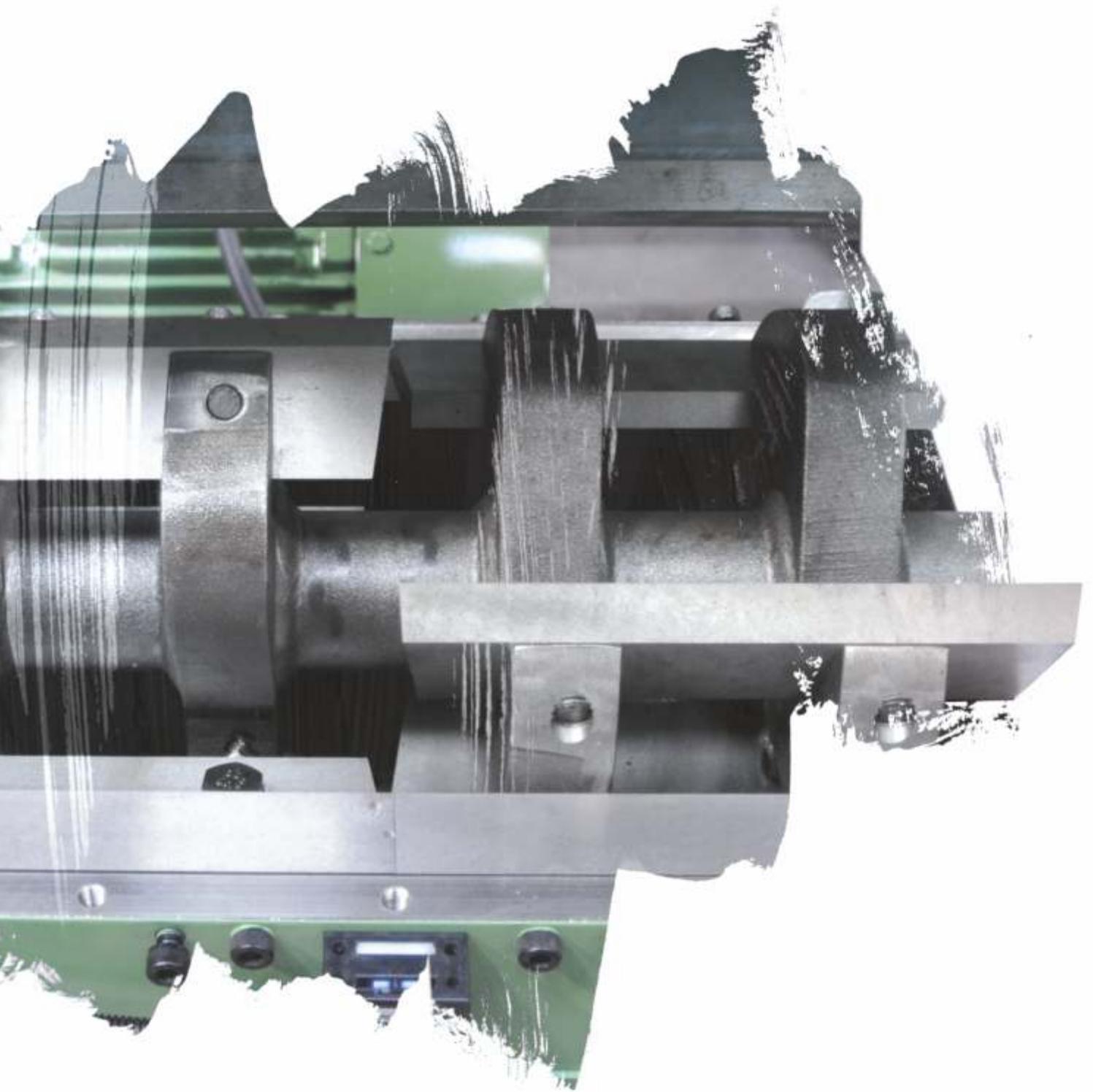
A Series		A 15	A 25	A 35
Rotor speed rotor	(rpm)	160	160	190
Rotor diameter	(mm)	150	150	150
Width of the rotor	(mm)	150	250	350
Drive capacity	(HP)	2	3	4
Number of rotor- / stator knives	(pcs)	9 / 2 (4 cutting edges)	15 / 2 (4 cutting edges)	21 / 2 (4 cutting edges)
Feed opening	(mm)	513 x 336	513 x 439	513 x 535
Opening cutting chamber	(mm x mm)	150 x 150	150 x 250	150 x 350
Weight	(approx. kg)	110	120	140
<b>Dimensions (Low execution)</b>				
Width A	(mm)	974	974	974
Length B	(mm)	423	519	616
Height C	(mm)	1162	1162	1162

# G SERIES AND H SERIES – ECONOMICAL GRANULATORS

## APPLICATIONS

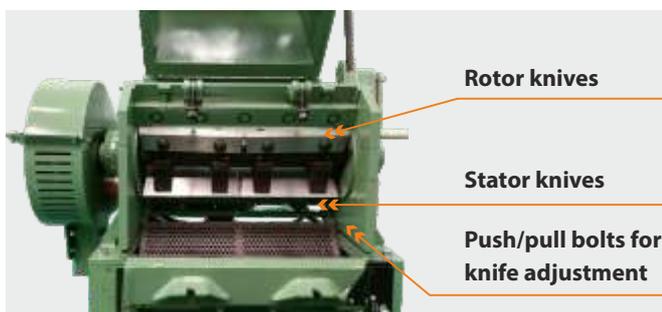
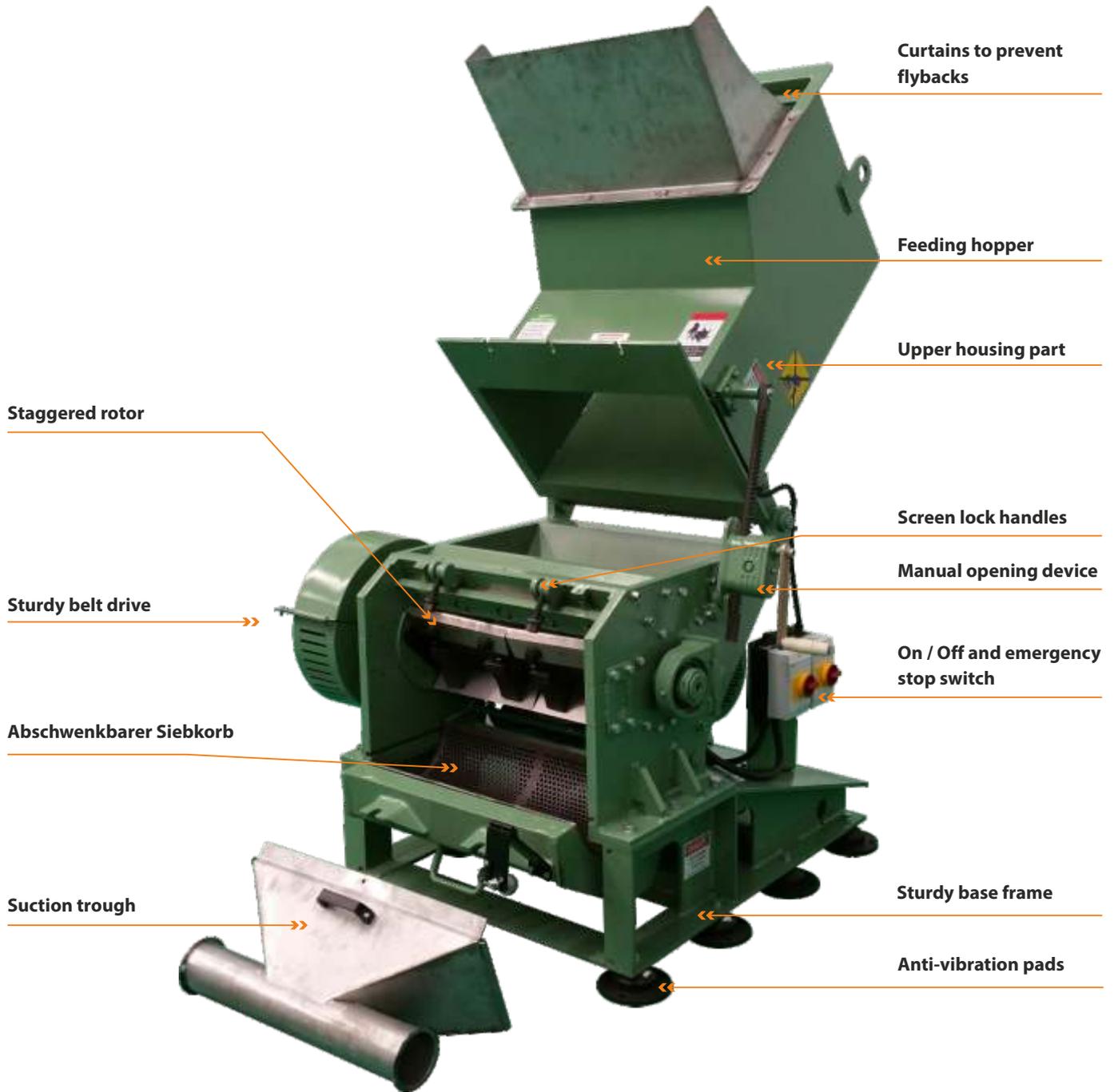
The compact inline granulators of the G and H series are primarily designed for use in injection and blow moulding applications to recycle voluminous parts such as bottles, canisters and crates, as well as blow molding flush and injection sprues. The low feeding height makes them ideally suitable for manual feeding of these parts. The low noise level and small footprint makes them the perfect fit for inline recycling operations.





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# TECHNICAL DESCRIPTION



# G SERIES AND H SERIES – ECONOMICAL GRANULATORS



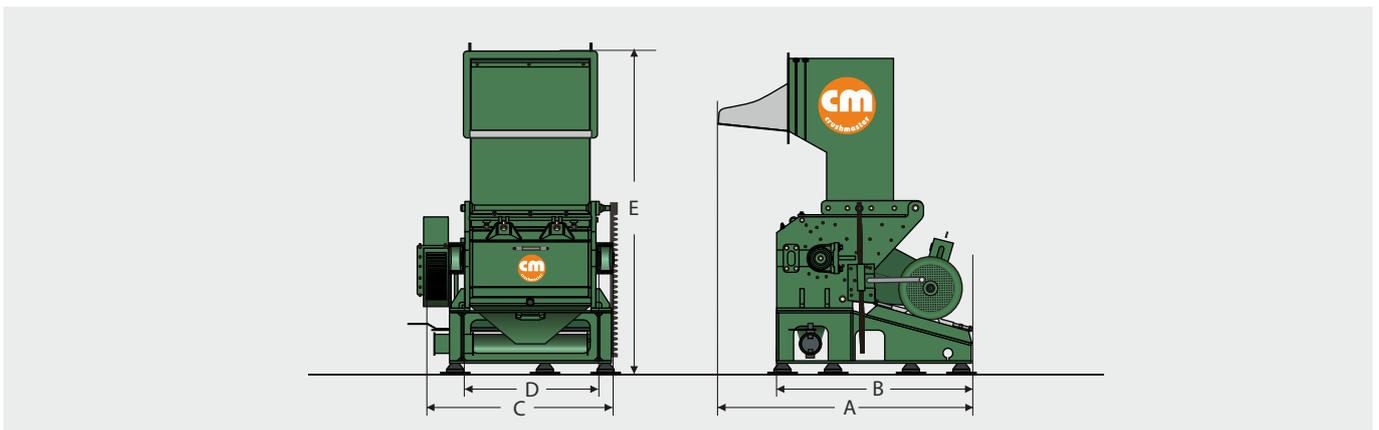
## GENERAL DESCRIPTION

The economical granulators of the G and H series are available in two rotor diameters, 250 and 400 mm with widths ranging from 300 to 1000 mm.

The G series feature an open F rotor while the H series rely on a heavier S rotor. The curved and highly tangential backwall of the cutting chamber ensures an aggressive ingestion while also avoiding blockages. The rigid design makes them dependable units and includes advanced standard features such as replaceable wear plates. The rotor and stator knives are adjusted outside of the machine to reduce downtime for maintenance.

## ADVANTAGES

- » Compact design, small footprint
- » All knives are adjusted outside of the machine in a jig to reduce downtime for maintenance
- » Aggressive infeed due to curved backwall of the cutting chamber
- » Large screen area for high throughput rates
- » Modern V-cut technology creates a high-quality regrind while reducing energy consumption and noise



G and H Series		G 30	G 45	G 60	H 60	H 100
Rotor diameter	(mm)	250	250	250	400	400
Rotor width	(mm)	300	450	600	600	1000
Drive capacity	(HP)	10	15	20	30	40
Rotor knives	(pcs)	3 x 1	3 x 1	3 x 2	3(5) x 2	3(5) x 2
Stator knives	(rows)	2	2	2	2	2
Feed opening	(mm)	340 x 300	340 x 450	340 x 600	490 x 590	490 x 990
<b>Dimensions</b>						
Length A	(mm)	1207	1207	1348	1348	1348
Length B	(mm)	860	860	1000	1120	1120
Width C	(mm)	870	1020	1165	1177	1577
Width D	(mm)	440	684	834	816	1216
Height E	(mm)	1712	1712	1712	1914	1914

# S SERIES – HIGH PERFORMANCE GRANULATORS



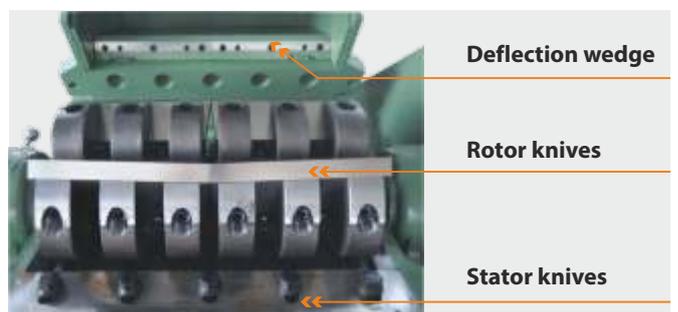
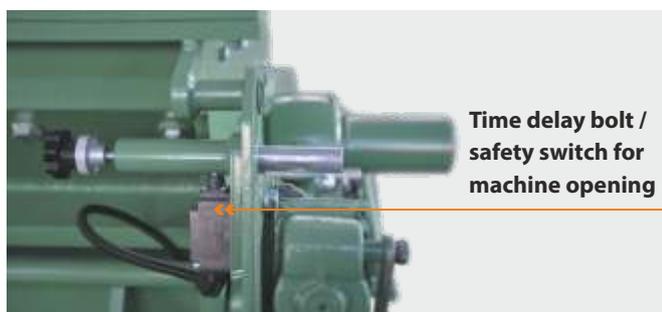
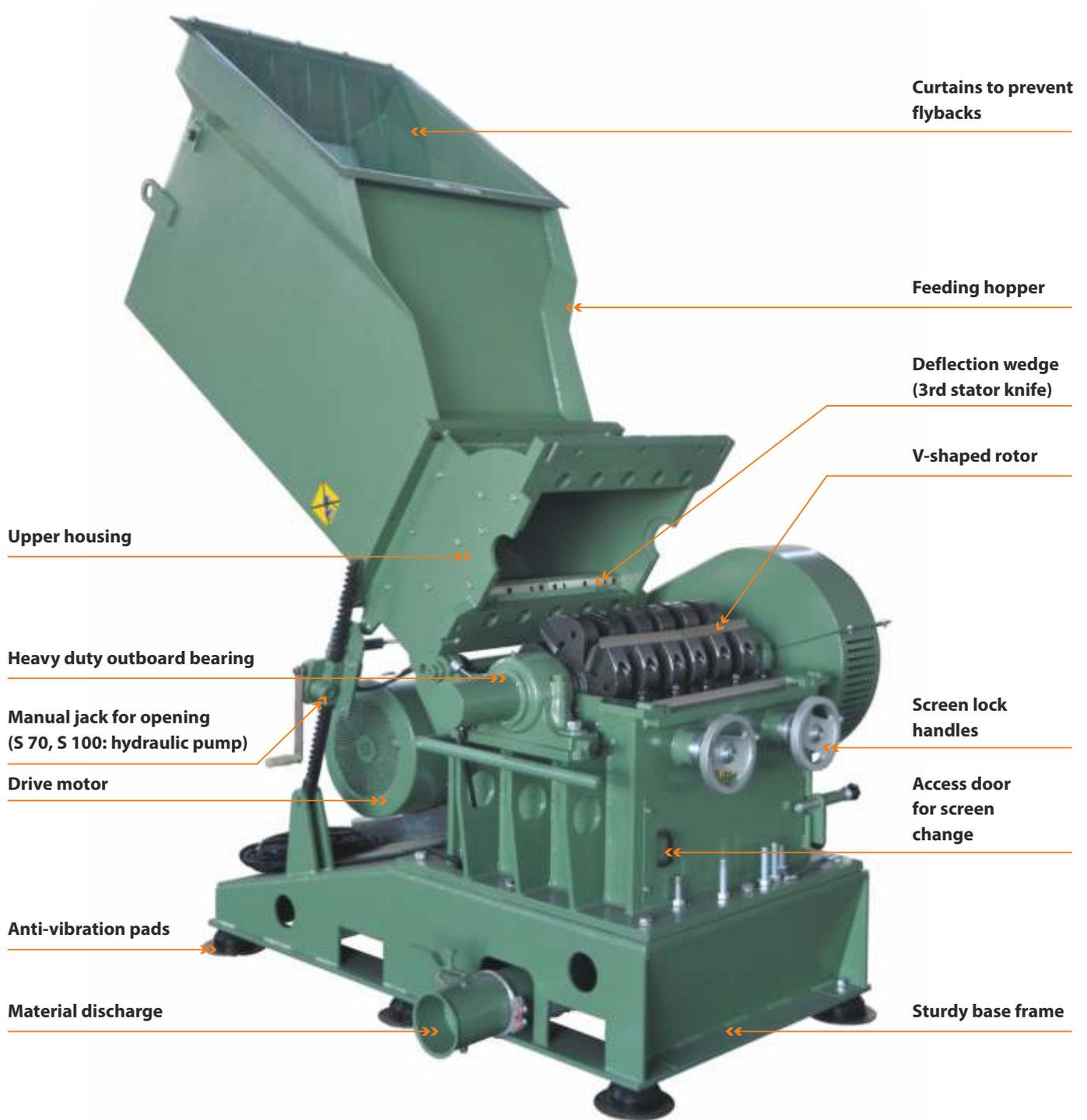


## APPLICATIONS

The S series granulators are mainly used as large central granulators for in house recycling applications to process large thick walled parts in one step or as a second step granulator after a shredder to achieve higher throughput rates.

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# TECHNICAL DESCRIPTION



# S SERIES – HIGH PERFORMANCE GRANULATORS

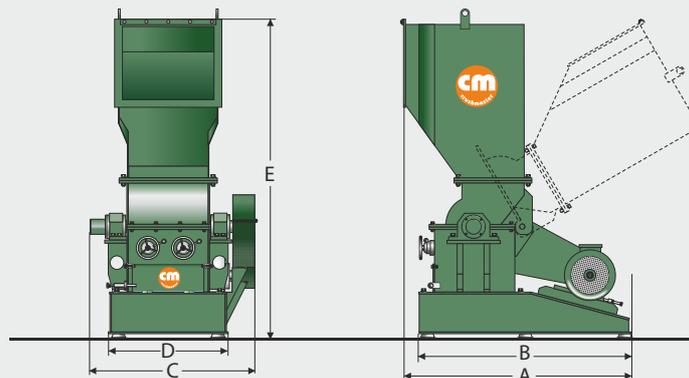


## GENERAL DESCRIPTION

The high performance granulators of the S series offer widths ranging from 600 to 1000 mm with a diameter of 400 and 560 mm. The completely welded heavy steel construction is designed to withstand the most demanding and universal applications. Rotor bearings, knife mounts and rotor shaft are oversized. The standard V-cut creates a high quality regrind with a very low percentage of fines in the output material. The removable third stator blade (optional) is acting as a deflector wedge and allows the machine to be quickly adjusted to different application scenarios. Other standard features include easily adjustable knives as well as outboard bearings reducing the risk of contamination.

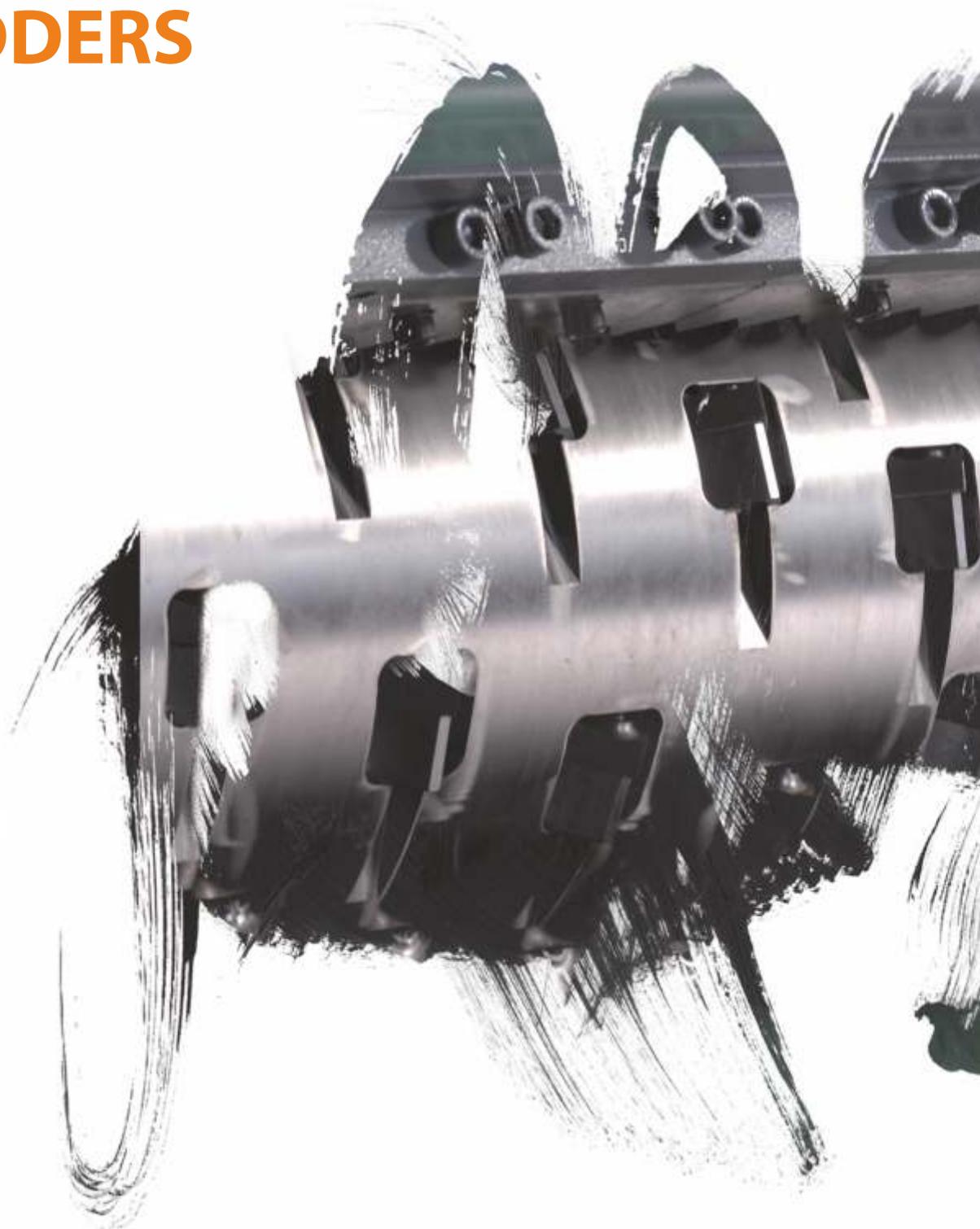
## ADVANTAGES

- » The easily removable deflector wedge acts as a third stator blade and can be used to adjust the aggressiveness of the rotor at the first cutting point.
- » The V-cut technology creates a high quality regrind while reducing energy consumption and noise.
- » The heavy duty bearings are separated from the cutting chamber to avoid lubricants entering and bearing failure due to material contamination.
- » Both, rotor and stator knives are adjusted outside the machine in a jig.

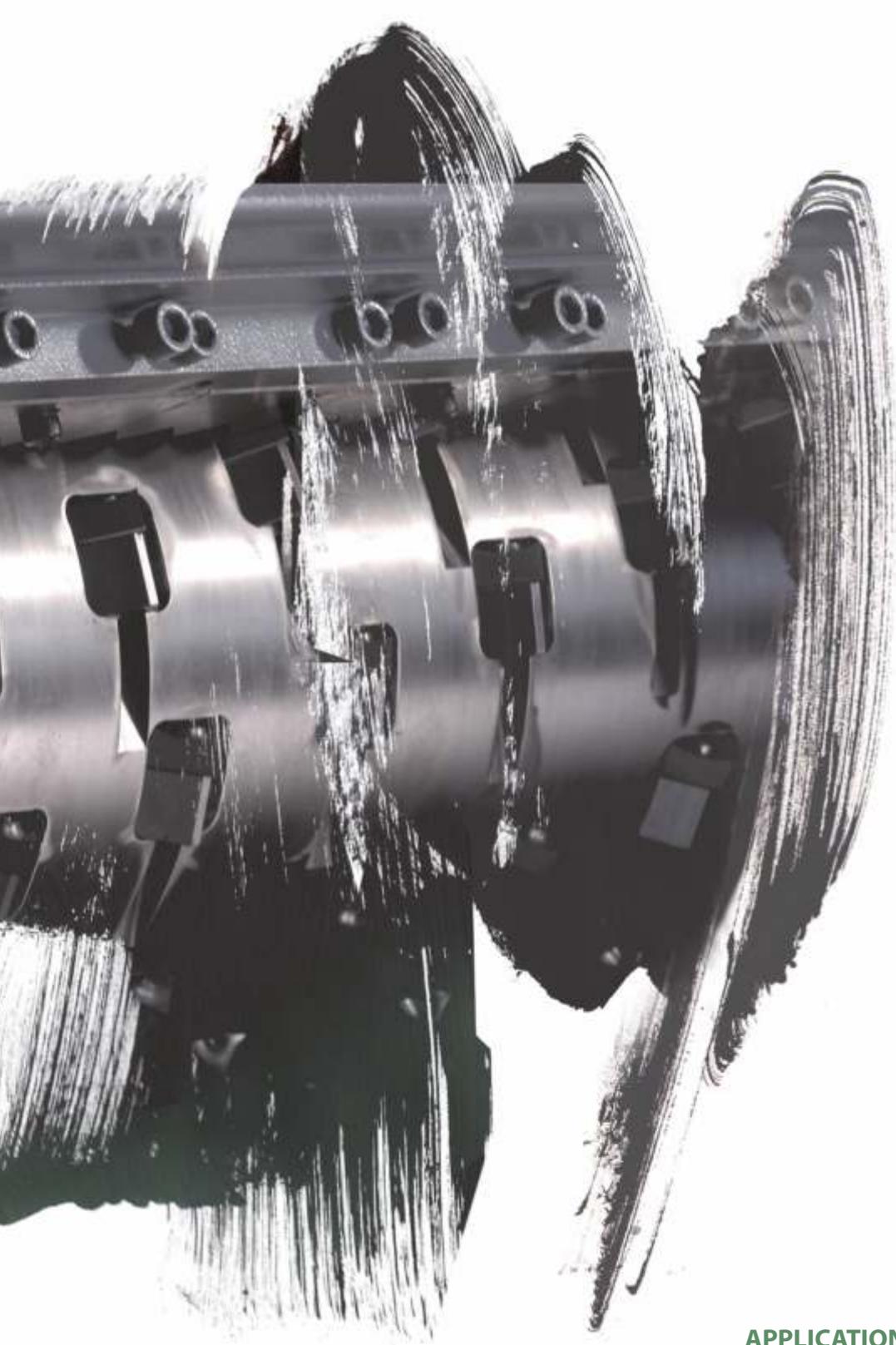


S Series		S 60	S 70	S 100
Rotor diameter	(mm)	400	560	560
Rotor width	(mm)	600	700	1000
Drive capacity	(HP)	50	75	100
Rotor knives	(pcs)	5 x 2	5 x 2	5 x 2
Stator knives	(rows)	2 + 1	2 + 1	2 + 1
Opening cut. Chamber (mm x mm)		630 x 600	700 x 650	1000 x 650
<b>Dimensions</b>				
Length A	(mm)	1950	2300	2310
Length B	(mm)	1876	2200	2200
Width C	(mm)	1359	1600	1800
Width D	(mm)	1000	1060	1330
Height E	(mm)	3040	3509	3770

# Q SERIES – SINGLE SHAFT SHREDDERS



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### **APPLICATIONS**

The Q series of single shaft shredders are suitable for processing almost all plastics. The machines will shred production waste, pipes, automotive parts, blow-moulded materials such as PET-bottles, PE/PP bottles, containers or buckets. Moreover, materials such as wood, paper, cardboard can be shredded without problems.

# TECHNICAL DESCRIPTION



# Q SERIES – SINGLE SHAFT SHREDDERS



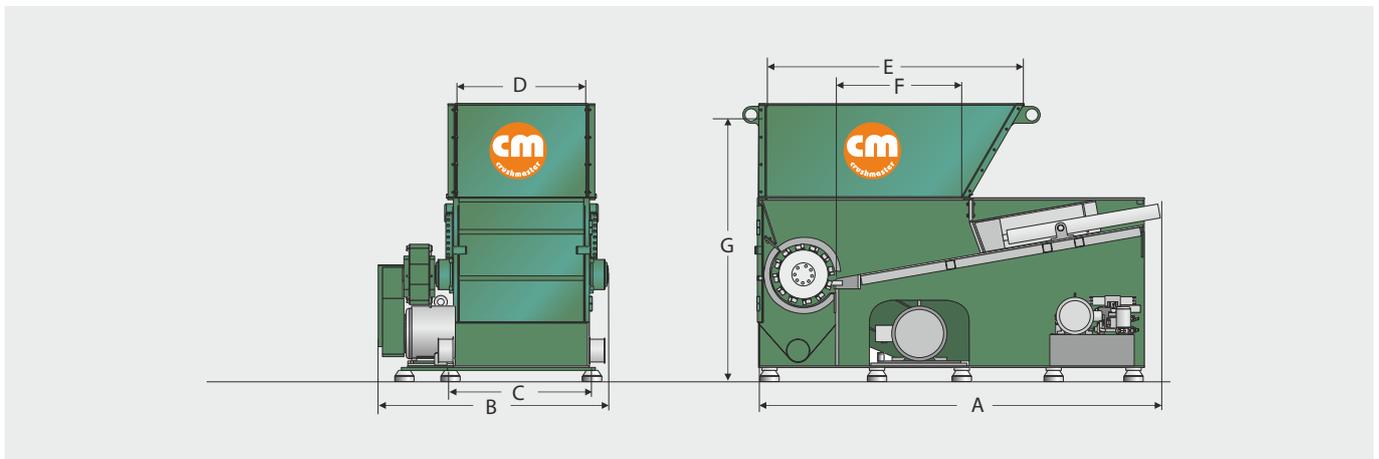
## GENERAL DESCRIPTION

The Q series are single shaft shredders with a powerful hydraulic horizontal feed ram. The machine is very versatile and can be used for shredding all kind of input materials and is well suited for different industries. The 400 mm diameter rotors ranging from 600 to 1700 mm width are driven by a low speed, high torque geared drive.

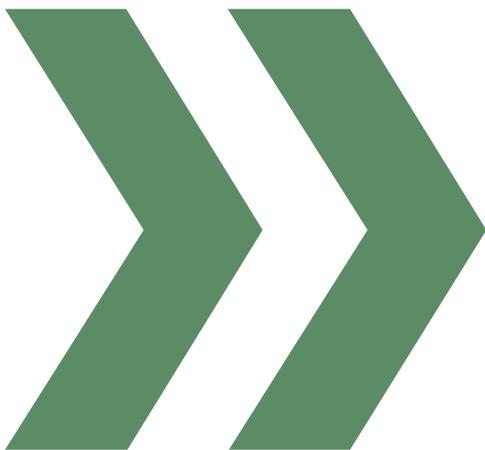
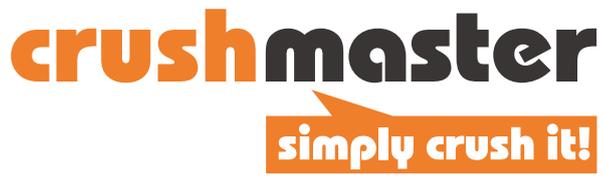
The hydraulic power pack is well integrated into the machine housing to save space and protect it from damage but is still easy to access or remove for maintenance.

## ADVANTAGES

- » The shredders use concave ground square knives, producing high-quality output. The cutters can be turned after a side is worn out.
- » All Crushmaster shredders are equipped with a large diameter flat rotor. The knives are fixed in special knife holders fitted in machined pockets.
- » Easily removable screen for quick rotor access and screen change.



Q Series		Q 60	Q 80	Q 110	Q 140	Q 170
Rotor diameter	(mm)	400	400	400	400	400
Rotor width	(mm)	580	860	1140	1420	1700
Drive capacity	(HP)	20	30	40	55	75
Rotor knives	(pcs)	13	20	27	34	41
Stator blades	(rows)	1 x 2	1 x 3	1 x 4	1 x 5	1 x 6
Screen size	(mm)	12 - 100	12 - 100	12 - 100	12 - 100	12 - 100
Effective working area	(mm)	520 x 470	800 x 820	1080 x 1040	1360 x 1430	1550 x 1650
Weight	(approx. kg)	1700	2600	3300	5300	6100
<b>Dimension</b>						
Length A	(mm)	2010	2690	3170	4000	4323
Width B	(mm)	1330	1620	1900	2350	2733
Width C	(mm)	650	930	1210	1530	1981
Width D	(mm)	580	860	1140	1420	1700
Length E	(mm)	1260	1620	1880	2230	2380
Length F	(mm)	470	820	1090	1400	1550
Height G	(mm)	1786	1876	1982	2286	2366



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GRANULATORS AND SHREDDERS

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