



Blending | Conveying | Drying
Process Cooling | Heat Transfer | **Size Reduction**

V SERIES

Shredder Systems



Application Flexibility

Operator Friendly

Ease of Maintenance

Shredders can be used as a first stage for efficient and reliable pre-breaking to add value and quality to your overall process. Shredder systems can be stand-alone units, convey into a granulator, or built as a stacked system - all dependent on your operational requirements.

www.aecinternet.com

VAZ SERIES

Small Shredders VAZ 800 / 1100

VAZ Series 800/1100

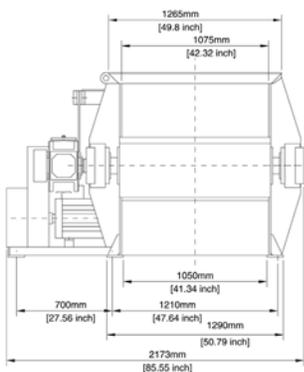
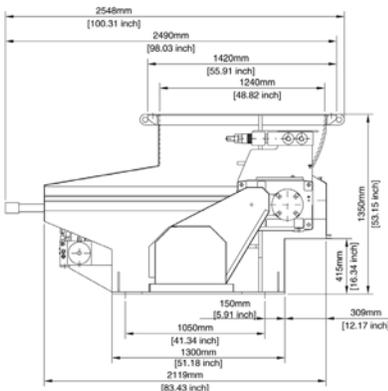
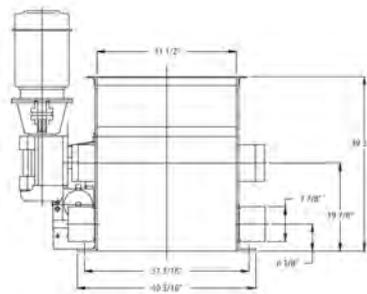
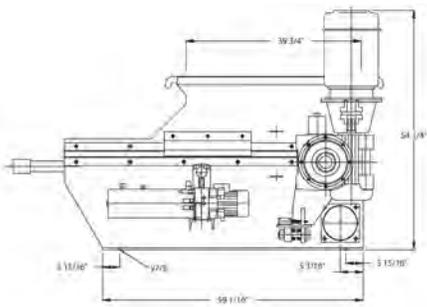
Serious Plastics Processing With A Small Footprint

The VAZ 800/1100 Rotary Shredder Series is designed to provide a powerful yet compact, one pass shredding solution that converts large, bulky plastic scrap into controlled sized particles without the need for pre-processing.



VAZ 800

- Low Speed / High Torque Design
- Easy Accessibility
- Tramp Metal Protection
- Equity "Buyback" Guarantee
- Low RPM / Low Noise
- Large Infeed Hopper
- Precision Hydraulic "Process Ram"
- 4-Way, Indexable Cutting Inserts
- High Output "Torsion Point" Cutting Rotor
- Heavy Duty Construction
- Rugged Hydraulics
- Stress-Free Frame, Robotically Welded
- Oversized Drivetrain
- Heavy Outboard Spherical Roller Bearings
- Fluid "TurboCoupling"
- PLC Control Panel
- ISO 9001 Manufactured



VAZ 1100

DETAILS		VAZ 800	VAZ 1100	VAZ 1100 XL XR
Cutting Chamber (WxL)	inch	32 x 42	42 x 46	42 x 51
Hopper volume	cubic yard	1.3	2.9	3.5
Rotor diameter	inch	10	10	15
Number of cutters	qty	20 (40x40)	27 (40x40)	48
Rotor Speed	rpm	100	120	120
Drive motor HP	HP	20	30	60
Feed system	HP / speed	1.5 - 2 speed	3 - 2 speed	3 - 2 speed
Machine weight	lbs.	3,100	5,700	7,500
Voltage	V/PH/Hz	460/3/60	460/3/60	460/3/60

MEDIUM SHREDDERS

The Absolute Industry Standard - VAZ Series 1300/1600



A tradition of unrivaled quality, service and innovation continues with the latest in our line of low speed, high torque single shaft rotary shredders - the "New Generation" VAZ models.

The New Generation shredders incorporate a wide range of innovations that improve performance, increase durability and decrease maintenance time. These features and options include:

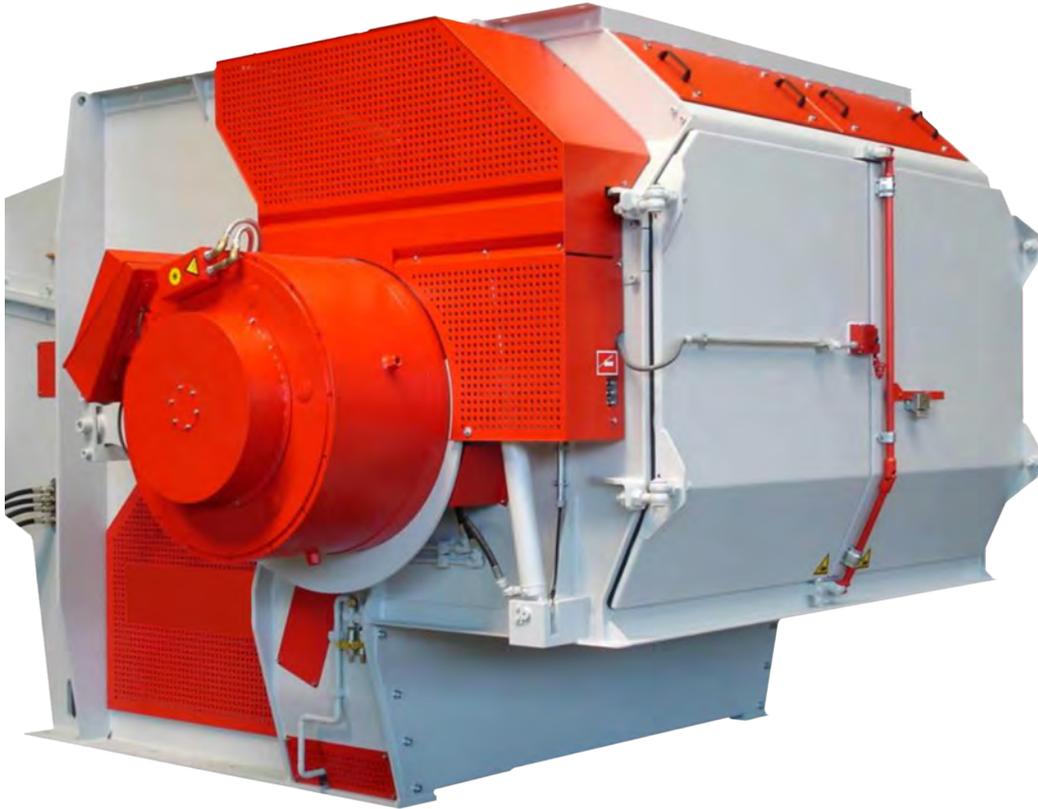
- Solid Rotor Bodies
- Cardan Shaft Drives
- Double Sidewalls
- Reversible Counter Knives
- Rotatable Screens
- Optional Hydraulic Swing-Up Screen Carriages

DETAILS		VAZ 1300 S	VAZ 1300 M	VAZ 1300 M XL	VAZ 1300 L	VAZ 1600 S	VAZ 1600 S XL	VAZ 1600 M	VAZ 1600 M XL
Cutting Chamber (WxL)	inch	52 x 50	52 x 58	52 x 58	52 x 68	62 x 58	62 x 58	62 x 80	62 x 80
Hopper volume	cubic yard	3.25	3.75	3.75	4.5	4.5	4.5	6.4	6.4
Rotor diameter	inch	15	15	20	15	15	15	15	20
Number of cutters	qty	37 / 60 (40x40)	37 / 60 (40x40)	37 / 60 (40x40)	35 / 60 (40x40)	42 / 74 (40x40)			
Rotor Speed	rpm	120 - 145	120 - 145	120	120	80 - 200	80 - 200	80 - 200	80 - 200
Drive motor HP	HP	60 - 100	60 - 150	100	100	60 - 150	75, 125, 150	60 - 150	125 - 150
Feed system	HP / speed	3-5 / 2 speed	3-5 / 2 speed	3-5 / 2 speed	3-5 / 2 speed	10-2 / 2 speed	10-2 / 2 speed	10-2 / 2 speed	10-2 / 2 speed
Voltage	V/PH/Hz	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60	460/3/60



LARGE WASTE SHREDDERS

Ultimate Throughput - Ultimate Performance - VAZ Series 2000/2500

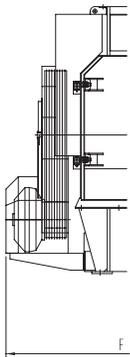


VAZ 2000-2500 Waste Shredders are designed especially for processing domestic and commercial waste for alternative fuel production, paper and plastic waste for reclamation and recycling, large extruder purgings, large reject parts, trim scraps, baled or loose film, synthetic fiber, wood processing scrap, medical waste, cardboard, paper and carpet.

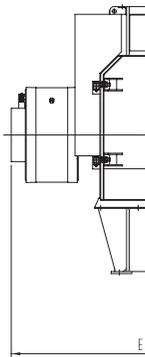
- Easy Accessibility
- Tramp Metal Protection
- Equity Buyback Guarantee
- Large Infeed Hopper
- 4-Way, Indexable Cutting Inserts
- High Output Torsion Point Cutting Rotor
- Heavy Duty Construction
- Stress-Free Frame, Robotically Welded
- Oversized Drivetrain
- Heavy Spherical Roller Bearings
- PLC Control Panel
- ISO 9001 Manufactured

DRIVE VERSION

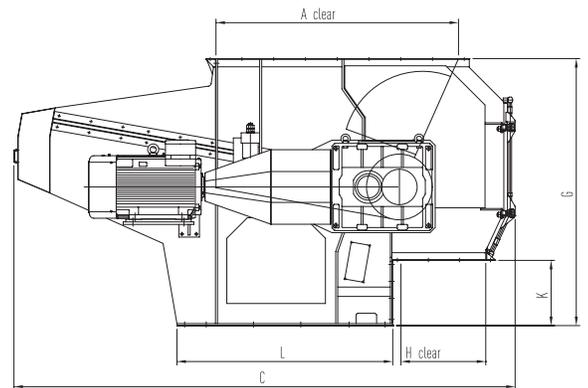
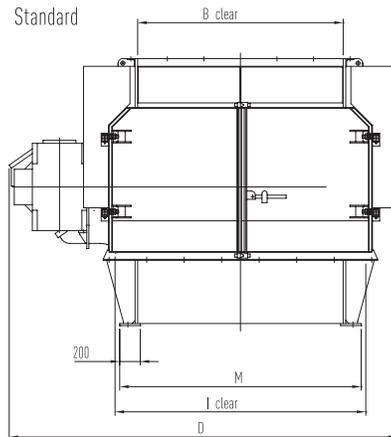
Direct



HiTorc



Standard



DETAILS	Infeed opening		Overall dimensions					Material outlet			Machine stand		Max. weight
	A	B	C	D	E	F	G	H	I	K	L	M	lbs.
	Length	Width	Length	Width with gears	Width with HiTorc™	Width with belt drive	Height	Length	Width	Height	Length	Width	
VAZ 2000 RS	63"	78"	150"	NA	145"	135"	92"	31"	96"	23"	77"	92"	35,700
VAZ 2000 (R)M	79"		192"	149"			102"	32"		25"	83"		41,880
VAZ 2500 RS	63"	98"	150"	NA	164"	158"	92"	31"	115"	23"	77"	112"	35,580
VAZ 2500 (R)M	79"		192"	168"			102"	32"		25"	83"		47,400
VAZ 2500 L	98"		164"				105"			27"	98"		51,800

V-ECO SERIES

One System For All Plastics

① DRIVE

VFD inverter drive eliminates gearboxes, senses tramp metal & stops automatically.

② HYDRAULIC CUTTING CHAMBER FLOOR

Provides the safest, quickest and most convenient access to the cutting chamber.

③ SINGLE or DOUBLE ROW BED KNIVES

More shredding surface maximizes throughput and yields smaller particle sizes.

④ RAM FEED

Hydraulic processing ram feeds material by pushing it into the shredding rotor.

⑤ ROTOR COOLING

Chilled water circulated through the rotor for shredding materials with low melting points.

⑥ DOUBLE SIDE WALLS

Eliminates bearing contamination and prevents sidewall wear.

⑦ "W" ROTORS

The innovative cutting geometry shreds flexible - fibrous, or rigid - bulky materials.

⑧ DROP DOWN SCREEN CARRIAGE

Pneumatically assisted, drop down screen carriage makes screen changes easy.



More Options

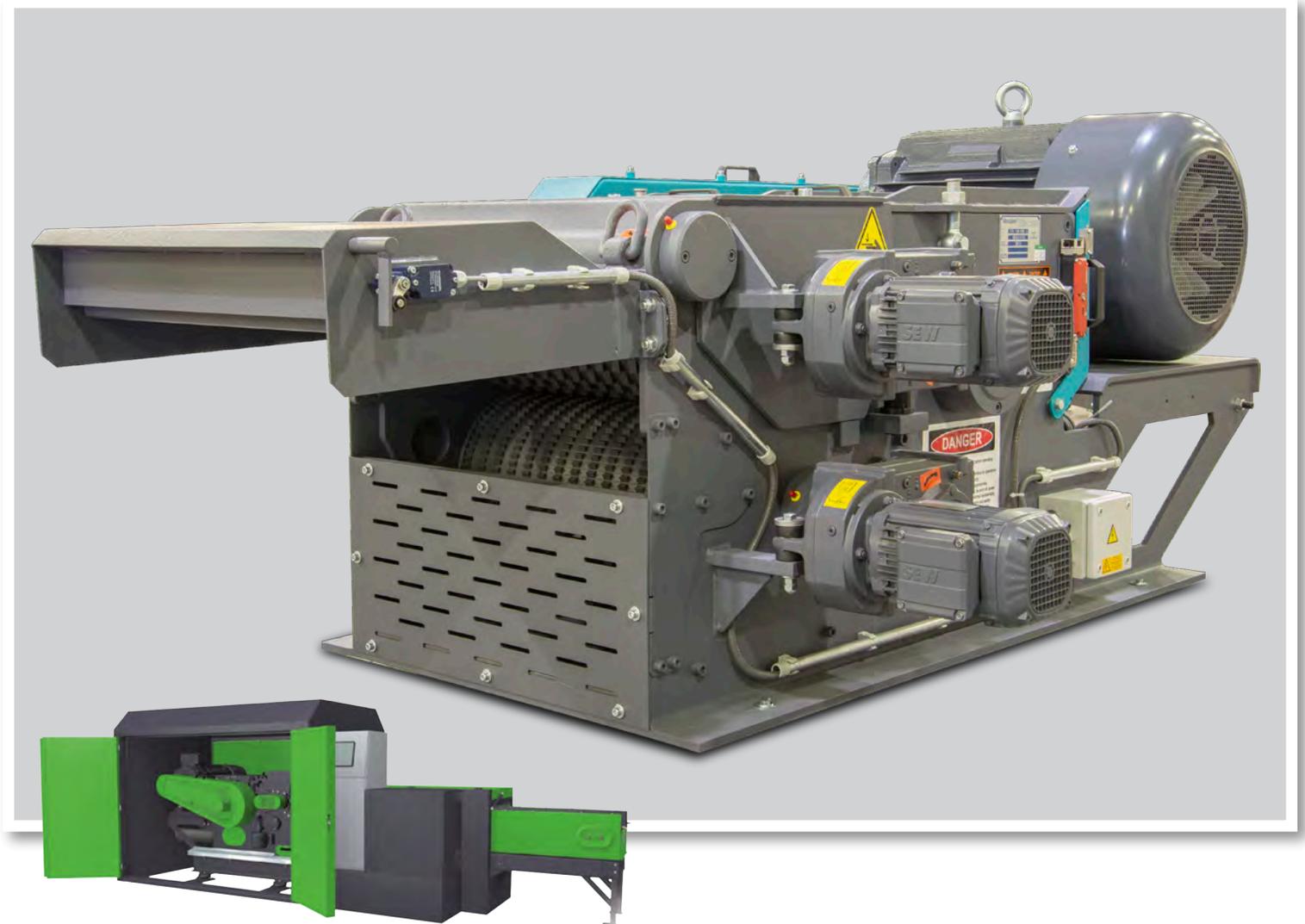
The V-ECO is the high-performance, highly flexible specialist for plastics shredding. Based on the latest technology, the V-ECO offers a range of possibilities and shreds a wide range of plastic input into high-quality, homogeneous output.

Thanks to its various uses, you only need one shredder for all plastics. That saves time and money. The V-ECO is easy to integrate into existing systems at a low cost and adapts to different particle sizes simply by changing the screen.

- The entire V-ECO product series is specially designed for plastics shredding
- One shredder for all plastics
- Shreds a wide range of plastics with a simple, quick screen change
 - Films, hard plastics, fabrics and fibers
 - Agricultural, post-consumer, post-industrial, inhouse

VTH SERIES FOR PLASTICS

The high-performance solution for long-length plastic parts



Solutions For Plastic Scrap

The new, high-performance solution for long-length plastic parts combines guillotine, shredder and granulator in a single machine.

With the new VTH 45/12/3, production waste such as edge strips in sheet extrusion, pipes and profiles are shredded and ground in a single-stage process, enabling the plastic granulate to be returned straight to the production process. It offers you the benefit of improved costs and reduced space requirements!

Plastic sheets up to a thickness of 40 mm, as well as pipes and profiles of different lengths can be machined without any difficulty.

The noise emissions from the machine can be significantly reduced with an optional sound-proof enclosure. The advantage of our plug-&-play solution is that the machine and booth come pre-assembled on a frame - all you have to do is connect the plant power supply. Despite the booth, the machine is still easily accessible for cleaning and maintenance.

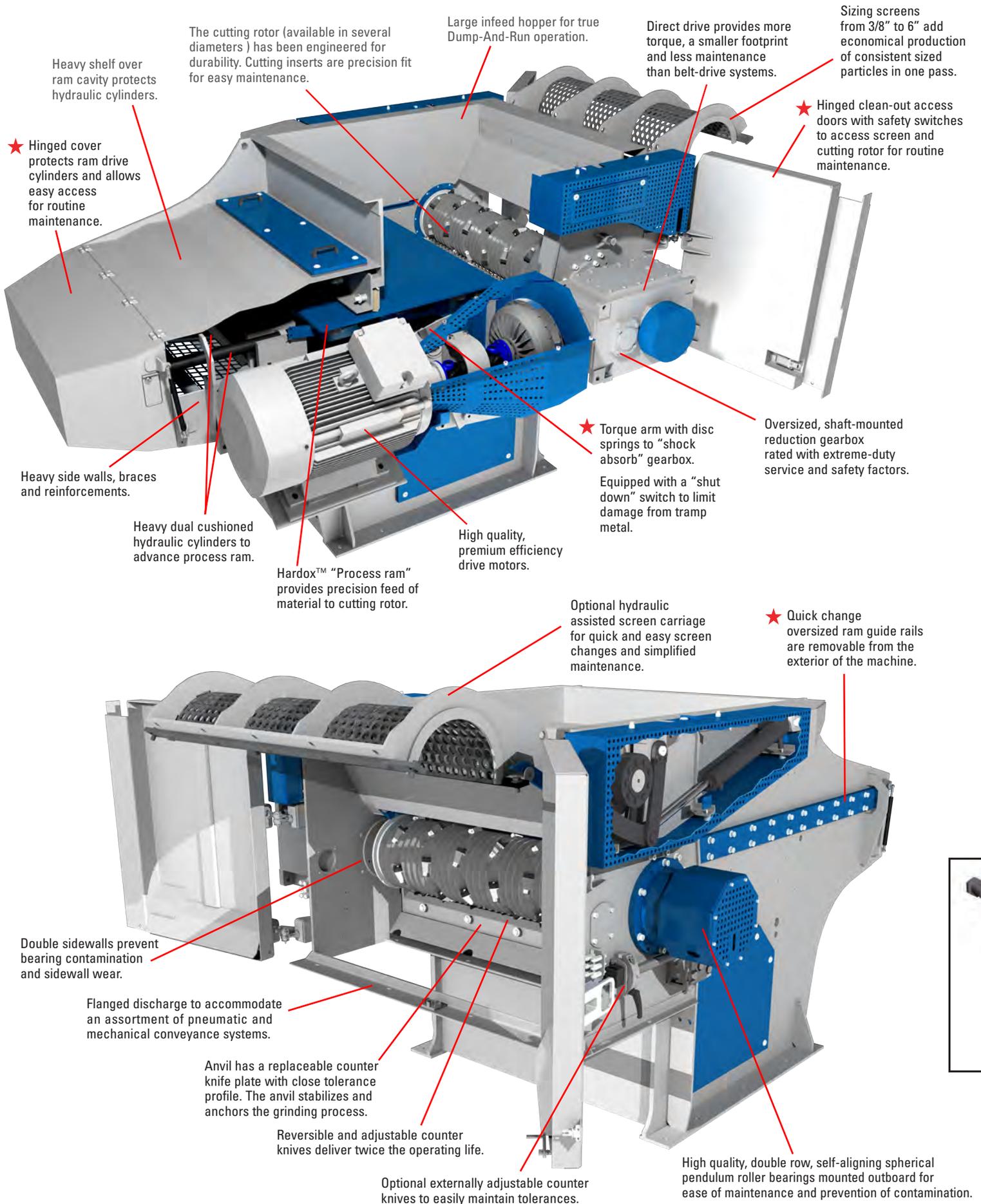
DETAILS		VTH 45/12/3	VTH 65/12/3
Infeed Width	Inch	18"	25.5"
Infeed Height	Inch	*1.5" - 4.5"	*1.5" - 4.5"
Rotor Diameter	Inch	16"	16"
Number Of Cutters	Quantity	36	51
Motor HP	HP	75HP	125HP
Screen Size	Inch	3/8" - 1"	3/8" - 1"
Discharge Outlet	Inch	6"	8"
Conveyor Speed	fps	VFD up to 2.6fps	VFD up to 2.6fps
Conveyor Power	HP	1HP VFD	1HP VFD
Conveyor Length	feet	9'	9'
Conveyor Width	Inch	18"	25-1/2"

HORIZONTAL GRANULATORS / SHREDDERS



DETAILS		VTH 85/45/4	VTH 105/60/4	VTH 125/85/4
Length	inch	123	150.5	231.5
Width (W)	inch	162.5	186.25	267
Height (H)	inch	71.25	93.5	105
Infeed width	inch	33.5	41.25	49.25
Infeed height	inch	17.75	23.6	33.5
Infeed rollers	pcs.	4	4	4
Rotor diameter	inch	39.5	51.25	71
No. of cutting tools	pcs	2 - 3	2 - 3	3
Variable rotor speed	UpM	ca. 600	ca. 500	ca. 350
Chipping length	inch	0.80 - 2	0.80 - 2	0.80 - 2
Max. capacity	ton / hr.	30*	60*	100*
Required motor power	HP	215 - 2 x 215	422 - 2 x 422	845 - 1341
Weight approx.	lbs	35,275	50,706	79,366

VERTICAL FEED MODELS



Heavy shelf over ram cavity protects hydraulic cylinders.

★ Hinged cover protects ram drive cylinders and allows easy access for routine maintenance.

The cutting rotor (available in several diameters) has been engineered for durability. Cutting inserts are precision fit for easy maintenance.

Large infeed hopper for true Dump-And-Run operation.

Direct drive provides more torque, a smaller footprint and less maintenance than belt-drive systems.

Sizing screens from 3/8" to 6" add economical production of consistent sized particles in one pass.

★ Hinged clean-out access doors with safety switches to access screen and cutting rotor for routine maintenance.

Heavy side walls, braces and reinforcements.

Heavy dual cushioned hydraulic cylinders to advance process ram.

Hardox™ "Process ram" provides precision feed of material to cutting rotor.

High quality, premium efficiency drive motors.

★ Torque arm with disc springs to "shock absorb" gearbox.

Equipped with a "shut down" switch to limit damage from tramp metal.

Oversized, shaft-mounted reduction gearbox rated with extreme-duty service and safety factors.

Optional hydraulic assisted screen carriage for quick and easy screen changes and simplified maintenance.

★ Quick change oversized ram guide rails are removable from the exterior of the machine.

Double sidewalls prevent bearing contamination and sidewall wear.

Flanged discharge to accommodate an assortment of pneumatic and mechanical conveyance systems.

Anvil has a replaceable counter knife plate with close tolerance profile. The anvil stabilizes and anchors the grinding process.

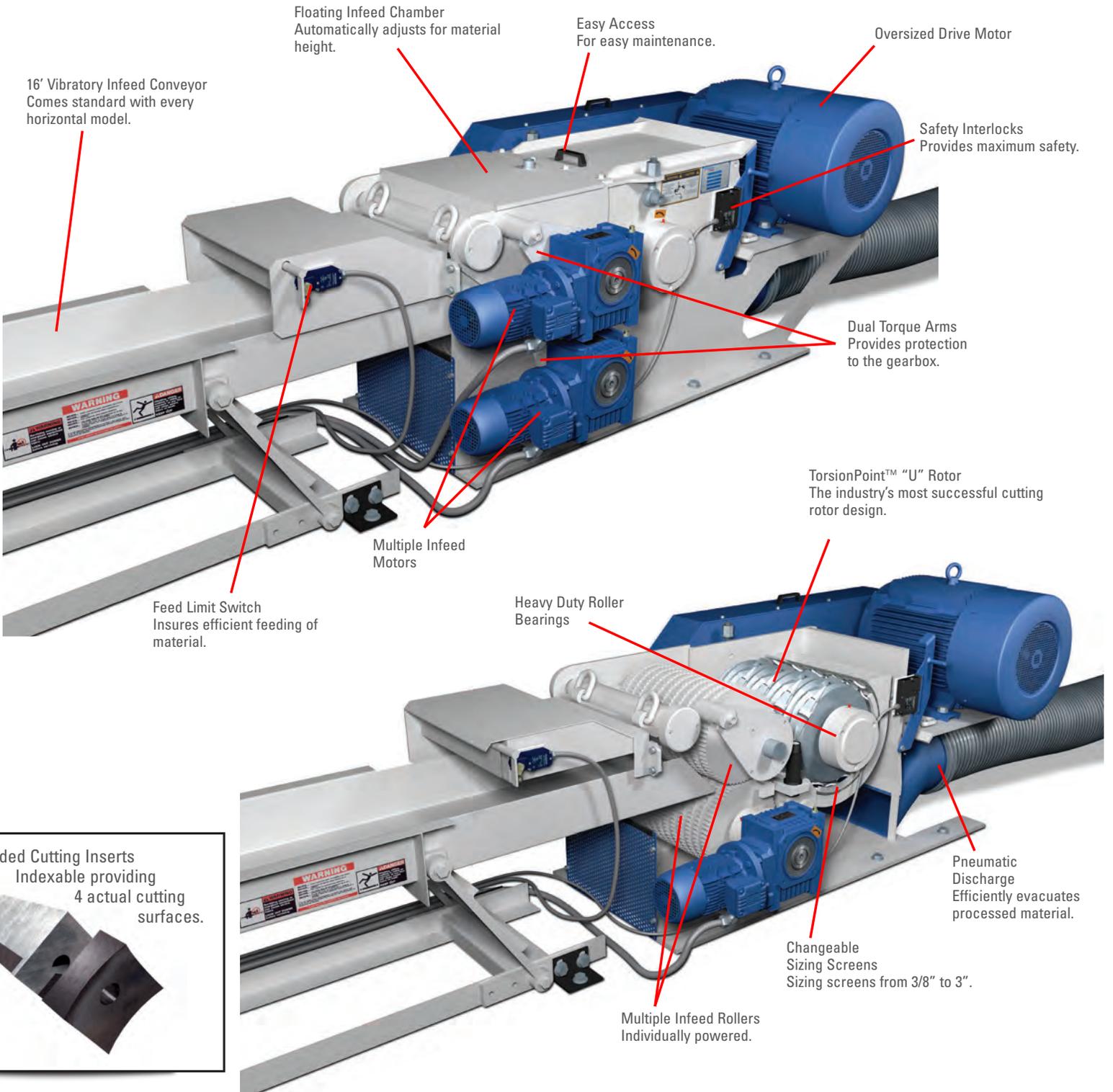
Reversible and adjustable counter knives deliver twice the operating life.

Optional externally adjustable counter knives to easily maintain tolerances.

High quality, double row, self-aligning spherical pendulum roller bearings mounted outboard for ease of maintenance and prevention of contamination.

HORIZONTAL MODELS

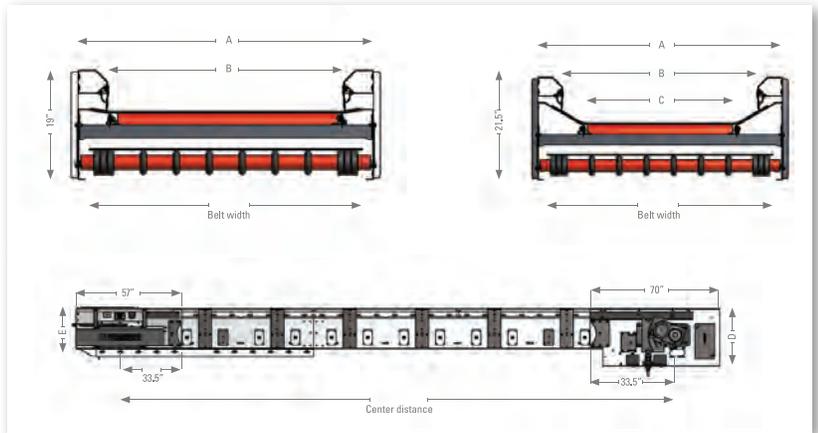
Available with Low Speed U-Rotor OR Knife Chipper / Plastic Granulator Rotor



High Performance Conveying Systems

VFB-F3 & VFB-M3 Belt Conveyors

The optimized flat belt conveyor VFB-F3 and troughed belt conveyor VFBM3 are modular continuous conveyors for the transport of different bulk materials. Designed for maximum conveying capacity at continuous operation in conjunction with its high oil and grease resistant rubber sliding belt, and with the installation option for various systems for belt cleaning, safety and automatic operating, the flat belt conveyors are applicable for the transport of different materials like plastics, waste, wood, biomass, metal, alternative fuel, etc.



DETAILS		VFB 650	VFB 800	VFB 1000	VFB 1200	VFB 1400	
A	inch	29.5	35.5	43.5	51	59	
B	inch	19.25	25	33	41	48.75	
C	inch	8.5	14.5	22.5	30.25	38.25	
D	F3	inch		28.5			
	M3	inch		31			
E	F3	inch		23.75			
	M3	inch		26.25			
Belt width		inch	25.5	31.5	39.5	47.25	55
Conveying Capacity Approx.*	F3	Yd ³ /h	3	5	9	13.75	19.25
	M3	Yd ³ /h	7.5	11.75	17.25	24.25	32.25

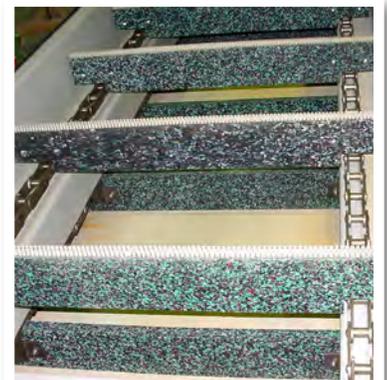
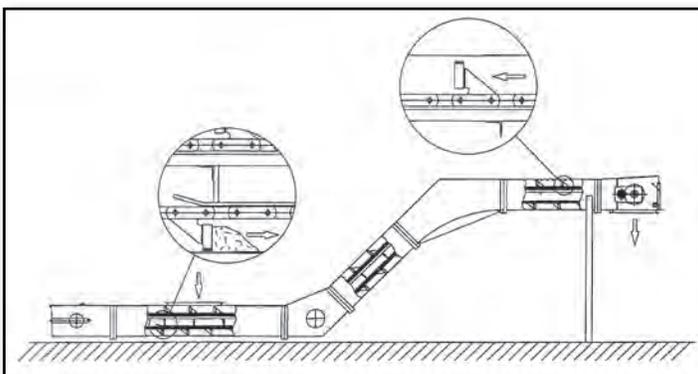
Subject to technical changes without notice / Detailed dimension drawings and load data available on request / Dated: 09/2018
* with 0° gradient and conveying speed of 1 m/s. Caution: The conveying volume reduces at increasing belts.

Drag Chain Conveyors

Drag-chain conveyors offer the ideal solution for difficult material conveying. The modular design allows for limitless adjustments in horizontal, vertical and diagonal installations.

Motorized slides, outlets and funnels provide variable and accurate metering to different storage locations, balers, or other down stream equipment.

Offering the most flexibility in a durable, rugged package, Drag Chain Conveyors offer made-to-order solutions for nearly every conveying problem.



Configured to Meet Your Needs

Make your reclaim efforts more efficient, versatile, and profitable.

When a shredder is used upstream from a granulator, the first stage provides efficient pre-breaking and relieves strain on your granulator system. A shredder gives you the versatility to run higher density parts and purgings. This extends the life, reduces maintenance and increases uptime for you granulator. Throughput is increased by reducing part size for effective part ingestion, adding value and quality to your overall process.



Custom stacked shredder and granulator combinations help create sustainable processes. This installation was completed for an Injection Molder to reclaim scrap parts and purgings back into the process. Helping to close the loop, and lower the total carbon footprint.

Shredders are designed to shred heavy duty materials at a high volume including purgings, polyethylene banding, plastic film, PET bottles, and other hard plastic applications.



Get More From Your Production Floor

AEC brings you all the technologies you need to advance uptime, energy efficiency and performance in your operation. Turn to our technical support team to evaluate your expected system loads and load characteristics, energy and climate-related issues as well as incorporating new equipment with plastics industry equipment you already own.

AEC History

Application Engineering Company, now known worldwide as AEC has roots dating back to 1957. AEC initially began serving the plastics industry with innovative chiller and cooling tower solutions, and has established itself as the go-to solutions provider for the most challenging process cooling applications. Today, AEC continues to offer a broad portfolio of portable, packaged, and central chillers. AEC supplies innovative solutions and has grown to be a leader in process temperature control, blending, drying, conveying, and size reduction applications in plastic processing, food & pharmaceutical industries.

Aftermarket Service & Support

AEC has a service network across the United States and in several key international locations. We are focused on having the right people and products in the right places to keep our customers running efficiently. Whether you need On-Site Service, Technical Support & Training, Parts Support or even Product Repair & Refurbishment, we have you covered. Contact our team today for all of your aftermarket needs at 262-641-8600 or service@acscorporate.com.

About ACS Group

The ACS Group designs, manufactures, markets and supports one of the most comprehensive lines of auxiliary products for the plastics processing industry. Over the years, ACS Group has grown both organically through technical innovation and through acquisition. ACS Group offers an expansive product line, which includes size reduction equipment (granulators and shredders), material conveying equipment, metering and blending devices, heat exchangers (mold temperature controls units and chillers), drying systems, and hydraulic presses.



Let us help you with your application. Contact our application engineers at:

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