

# 45 Series

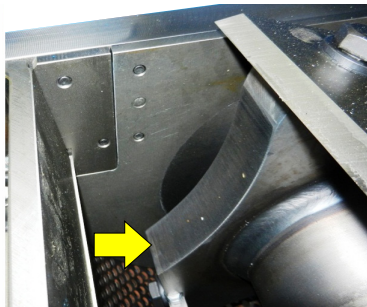
## GRANULATORS

**Models:**     **UDN45-100 (18x40)**  
                   **UDN45-160 (18x63)**

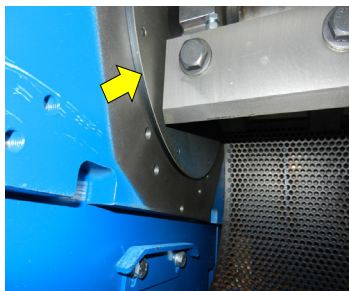
45 Series granulators are ideal for heavy-duty applications beside-the-machine processing of injection, blow molding, extrusion scrap and general purpose applications. These quiet, energy efficient granulators produce quality regrind due to low rotor speed, high angle cutting action, and rotating end disks. These compact models feature tangential feed cutting chambers, three different rotor styles – all with scooped rotor design, at throughput rates from 1750 to 3100 lbs/hr (800 to 1400 kg/hr).



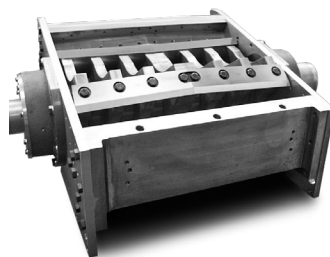
*Twin Shear Cutting System*



*Scooped Rotor*



*Internal Side Plates made of  
Wear Resistant Steel*



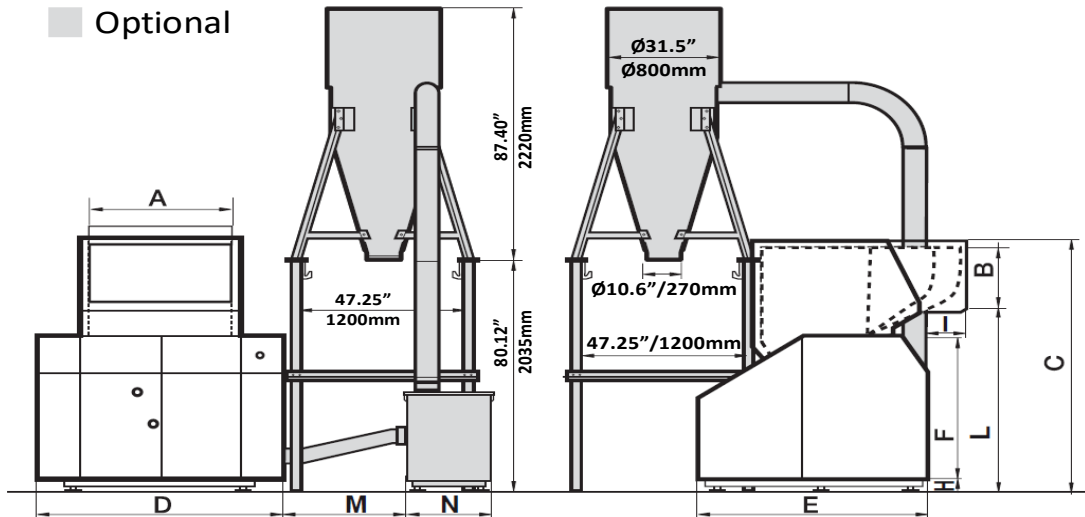
*Bolt & Dowel Construction*



### Standard Specifications & Features:

- Front feed hopper, suitable for manual or conveyor belt loading, not sound reduced as a stander.
- Protection flaps unit to reduce sound levels and chance of regrind fly-back (3 flaps total).
- Screw-jack mechanism, hand operated, to open and close the feed hopper.
- All cutting chamber components are bolt and dowel construction for precision cutting.
- The cutting chamber is equipped with wear resistant side plates.
- Vee belt driven rotor with a large diameter massive rotor pulley.
- 3 Blade Open Scooped Rotor, Twin Shear or Herringbone design with two blades counter angled across for most efficient scissor type cut; Adjustable Rotor Knives.
- Rotor movement sensor for safe and easy access for cleanout or maintenance, complying with the new C.E. security norms.
- Granulator Sound Control Package – soundproofed hopper and integral sound enclosure for the base of the unit
- Two (2+2) bed knives, reversible.
- All knives are H.C.H.C steel, (56-58 HRC).
- Front opening screen cradle, for easy cleaning, with removable and reversible screen.
- Regrind transition designed for air conveying system.
- Granulator assembled on six (6) adjustable vibration isolation pads.
- Low voltage push-button controls and safety interlocks.
- Independent IP55 electric cabinet (max. 3mt far from the granulator), build according to the latest CE norms, with Prevent electrical safety control unit.

Optional

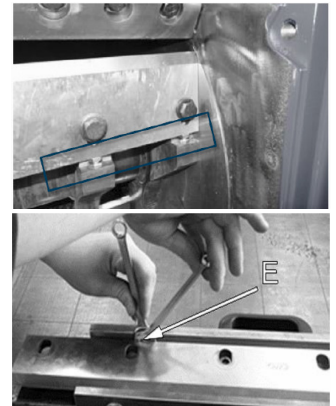


Dimensions & Specifications:												
		A	B	C	D	E	F	H	I	L	M	N
UDN45-100	in	42.13	23.62	98.43	72.83	77.17	53.15	4.33	13.58	72.83	31.50	25.20
	mm	1070	600	2500	1850	1960	1350	110	345	1850	800	640
UDN45-160	in	62.60	23.62	99.41	93.50	77.17	53.15	4.33	14.37	73.43	55.12	33.46
	mm	1590	600	2525	2375	1960	1350	110	365	1865	1400	850

Dimensions & Specifications:							
	in / mm	Number of Rotating Blades	Number of Stationary Blades	Rotor Speed RPM Std. (Optional)	Motor HP / KW Std. (Optional)	Screen Hole Dia. in / mm	Avg. Throughput lbs/hr / (kg/hr)*
UDN45-100	23.7 x 42.2	3 ( 5 )	2	450	60 ( 75, 100 )	5/16	1760 - 2200
	600 x 1070				45 ( 55, 75 )	8	800 - 1000
UDN45-160	23.7 x 63	3 ( 5 )	2	450	75 ( 100 )	5/16	2200 - 3100
	600 x 1600				55 ( 75 )	8	1000 - 1400

### Adjustable Rotary Knives:

- Allows for constant cutting circle, maintaining optimal distance between rotor knives and screen after the knives have been sharpened;
- Allows for smallest knife gap possible for highest quality regrind, reduced power consumption, reduced heat generation and highest throughput;
- Allows for longer knife life by allowing for the minimal amount of material to be taken from each knife when re-sharpening. Knives do not have to be sharpened as a set as each knife is gapped independently of the other; and
- Knife gap adjustment fixture for easy and accurate gap adjustment outside of the unit.



### Most Efficient Cutting:

- High-angle approach between rotating and stationary knives for more efficient cutting-action, less heat generation and high-quality regrind. Feed hopper design and scooped rotor design for a more positive ingestion of bulky parts;
- Low RPM high torque motors for lower energy consumption, lower sound levels, less wear and less fine/dust;
- Massive solid flywheel provides for additional inertia;
- Heavy duty screen cradle support allows for thinner screen, making it easier for regrind to pass through, less screen hole plugging, higher throughput, and higher quality regrind with less fines/dust.