

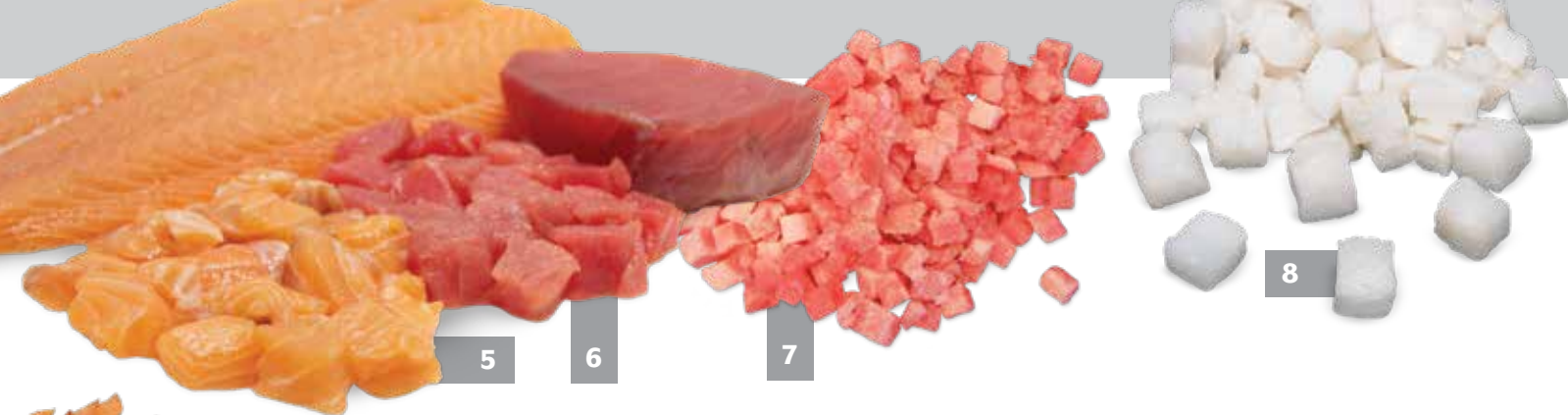
# HOW TO CUT SEAFOOD

## PRODUCTS



**SLICE | DICE | STRIP CUT | PUREE**





## SLICE | DICE | SHRED | GRANULATE | MILL/PUREE Your Partner in Productivity

Meeting the growing demand for high quality, nutritious seafood and seaweed products while minimizing labor costs is essential — assisting you with this task is where we come in. Turn to Urschel cutting technology to discover ways to improve your processing line by reducing waste, increasing yields, and maximizing profits.

Urschel crafts sanitary slicers, dicers, and milling equipment suited for every facet of size reduction. Each machine possesses precision cutting capabilities, continuous operation for uninterrupted production, and fluid, high capacity output. Machines are designed for operation in rugged production environments. Hinged and sliding panels promote hygienic stainless steel design. In addition to machines in this brochure, view even more Urschel cutting machinery at [www.urschel.com](http://www.urschel.com).

### FEATURED PRODUCTS

- 1. Fish Oil**  
Comitrol® Processor  
Model 9310
- 2. Clam Tongue**  
1/4 x 1/4 x 3/8"  
(6.4 x 6.4 x 9.5 mm)  
DiversaCut 2110A® Dicer
- 3. Cooked Shrimp**  
3/4" (19.1 mm) Dice  
Model M6 Dicer
- 4. Salmon**  
1/2" (12.7 mm) Strip  
Model M6 Dicer

- 5. Salmon**  
3/4" (19.1 mm) Dice  
Sprint 2® Dicer
- 6. Tuna**  
3/4" (19.1 mm) Dice  
Sprint 2® Dicer
- 7. Tuna**  
1/4" (6.4 mm) Dice  
Affinity® Dicer
- 8. White Fish**  
3/4" (19.1 mm) Dice  
Model M6 Dicer

- 9. Fish Waste**  
Comitrol® Processor  
Model 3640
- 10. Fish Waste**  
Comitrol® Processor  
Model 1700
- 11. Lobster Bodies & Shells**  
Comitrol® Processor  
Model 1700
- 12. Stingray Wings**  
1/4" (6.4 mm) Strip  
Model M6 Dicer



## EXPLORE Urschel Precision

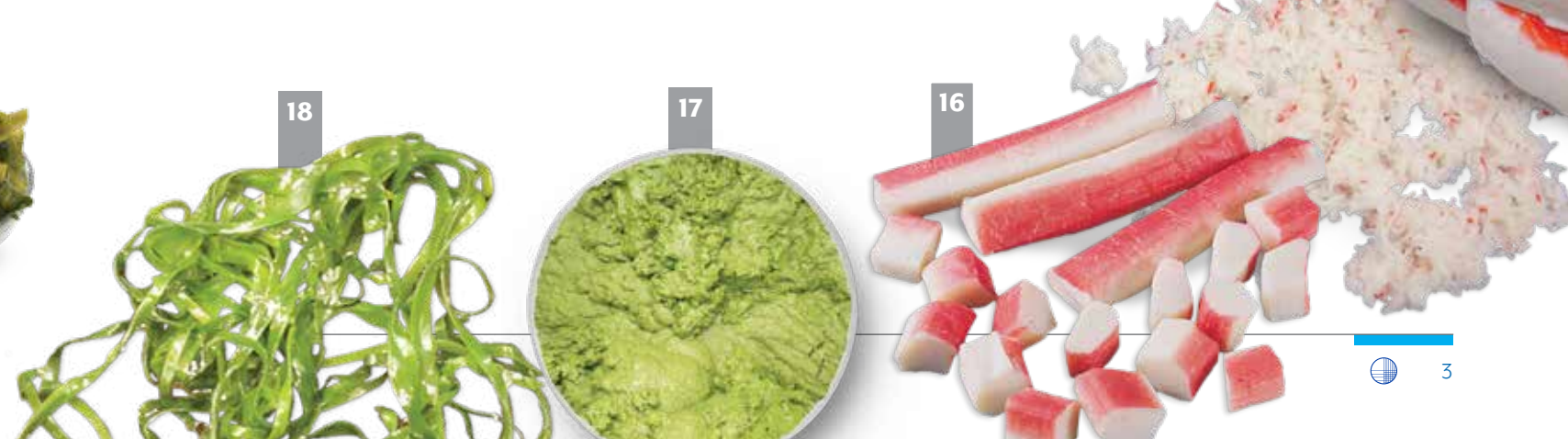
As a 100% employee-owned company, Urschel maintains strict quality standards. Every critical component is created under one roof in an ergonomic work-flow employing state-of-the-art production to guarantee optimal function. Precision in manufacturing and in customer care. Urschel delivers a worldwide network of expertly-trained sales and service ready to assist you. Explore free-of-charge test cutting of your product available in-person,

live remotely, or via video. Benefit from on-demand shipment from the Urschel multi-million dollar inventory of commonly sold parts to keep your operation running smoothly. Rely on dedicated maintenance facilitated via the phone or via scheduled in-plant visits. Urschel service and support offers complete assistance before, during, and after the sale for the life of your Urschel machinery.



- 13. Catfish Skin**  
1" (25.4 mm) Square  
Model M6 Dicer
- 14. Salmon**  
3/4" (19.1 mm) Dice  
DiversaCut 2110A® Dicer
- 15. Surimi**  
Reduced .070"  
(1.8 mm) V Shred  
Model CC Slicer
- 16. Surimi**  
7/16" (11.1 mm) Slice  
E TranSlicer® Cutter
- 17. Bladderwrack Seaweed**  
Comitrol® Processor  
Model 9310
- 18. Seaweed**  
1/8" (3.2 mm)  
Strip Cut  
Model M6 Dicer

- 19. Seaweed**  
1/2" (12.7 mm)  
Strip Cut  
Model M6 Dicer
- 20. Seaweed**  
Flake  
Comitrol® Processor  
Model 1700





**Meet the M VersaPro® (MVP) Dicer**, the next generation protein processing powerhouse. Building on the Urschel Models M and M6, the M VersaPro (MVP) Dicer provides the best in sanitary design and the ultimate in versatile cutting of proteins. Available with optional HMI (shown).

M VERSAPRO DICER

NEXT GENERATION PROTEIN PROCESSING

The MVP offers 33% increased feeding capacity versus the standard M6 due to wider belts, optimized cutting, and increased horsepower. The belt-fed MVP delivers 2-dimensional dices, strips, or shreds from product of a predetermined thickness. The dicer offers infeed and takeaway belts to prevent product build-up. Takeaway belt facilitates discharging into totes. Ideally suited for cutting frozen-tempered, fresh-chilled, or hot-cooked beef, pork, protein alternatives, or poultry. Maximum input product size for firm products should not exceed 1-1/2" (38.1 mm).

TYPES OF CUTS

Dice

Many sizes of cuts are possible by combining the various selections of circular knife spacings with different crosscut knife spindles.

- Circular Range:** 3/16 to 1-1/2" (4.8 to 38.1 mm)
- Crosscut Range:** 1/8 to 3" (3.2 to 76.2 mm) standard sizes, fully adjustable up to 5.5" (140 mm) with variable speed crosscut motor.

Strip Cut

Strip cut a variety of widths by removing either the crosscut knife spindle assembly or the circular knife spindle assembly. The final thickness of the strip will be the same thickness as the original product.

Shred

To produce shreds, the crosscut knife spindle is replaced by a shredding spindle. The length of the shred can be controlled by orientation of the meat fibers of the incoming product and by the use of a circular knife spindle. Due to variables in applications, it is highly recommended that processors work with Urschel to achieve optimum results.

CUTTING OVERVIEW

1. Feed Belt

2. Feed Roll

3. Drive Roll

4. Circular Knives

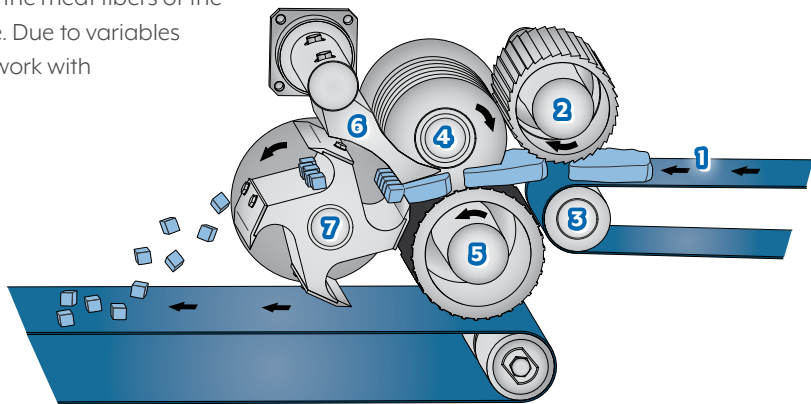
5. Feed Drum
6. Stripper Plate

7. Crosscut Knives (new †patented fluted design shown)



SPECIFICATIONS<sup>Y</sup>

**Length:**.....128.61" (3267 mm)  
**Width:**.....33.90" (861 mm)  
**Height:**.....70.07" (1780 mm)  
**Net Weight:**...2700 lb (1225 kg)  
**Motor:**.....5 or 10 HP (3.7 or 7.5 kW)  
5 HP (3.7 kW) Crosscut



**The M6** is a versatile machine designed for dicing, strip cutting, or shredding a variety of products through a wide range of sizes from product of a predetermined thickness.

**The <sup>S</sup>Affinity Integra® Dicer delivers** small to medium cuts. A slightly scaled-down version of the big Affinity, the Integra is designed to handle difficult high-fat and cold-temperature products.

MODEL M6 DICER

VERSATILE DICER/  
STRIP CUTTER/SHREDDER

Ideally suited for cutting frozen-tempered, fresh-chilled, or hot-cooked meat and poultry. The Model M6 operates continuously at high production capacities and is designed for easy cleanup and maintenance. Maximum infeed thickness of up to 1" (25.4 mm).

TYPES OF CUTS

Dice

Many sizes of cuts are possible by combining the various selections of circular knife spacings with different crosscut knife spindles.

- Circular Range:** 5/32 to 1-1/2" (4.0 to 38.1 mm)
- Crosscut Range:** 1/8 to 3" (3.2 to 76.2 mm) standard sizes, up to 5.66" (144 mm) available with alternate gearing.

Strip Cut

Strip cuts in a variety of widths can be made by removing either the crosscut knife spindle assembly or the circular knife spindle assembly. The final thickness of the strip will be the same thickness as the original product.

Shred

Many types available. Due to variables in applications, it is highly recommended that processors work with Urschel to achieve optimum results.

CUTTING OVERVIEW

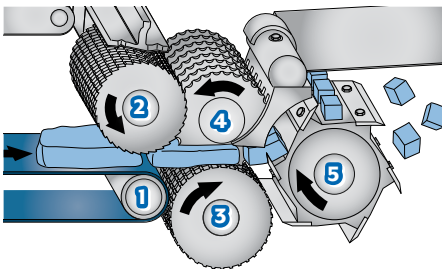
1. Drive Roll

2. Feed Roll

3. Rotating Feed Drum

4. Circular Knives

5. Crosscut Knives



AFFINITY INTEGRA DICER

PROCESSING DIFFICULT-TO-CUT PRODUCTS

The Affinity Integra processes challenging, difficult-to-cut applications, and the clean-cutting action achieves high yields of precise, targeted cut sizes well within customer parameters. The Affinity Integra Dicer accepts infeed product up to 4.75" (120 mm).

TYPES OF CUTS

Slice

1/8 to 1/2" (3.2 to 12.7 mm)

Dice/Crumble/Strip

2- and 3-dimensional cutting involves adjusting the slice thickness and using the required circular or crosscut knife spindles.

- Circular Range:** 1/8 to 2-1/2" (3.2 to 63.5 mm)
- Crosscut Range:** 1/8 to 1-1/2" (3.2 to 38.1 mm)

SPECIFICATIONS<sup>Y</sup>

**Length:**.....55.98" (1422 mm)  
**Width:**.....54.05" (1373 mm)  
**Height:**.....70.97" (1803 mm)  
**Net Weight:**...1500 lb (680 kg)  
**Motor:**.....10 HP (7.5 kW)



CUTTING OVERVIEW

1. Slice Adjustment Knob

2. Impeller Paddles

3. Slicing Knife

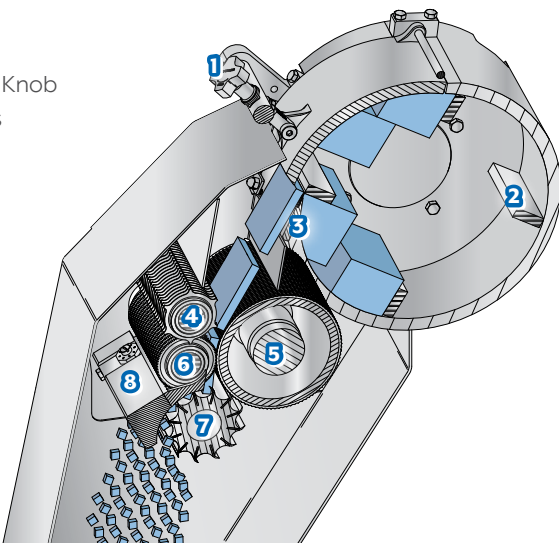
4. Feed Spindle

5. Feed Drum

6. Circular Knives

7. Crosscut Knives

8. Stripper Plate







Similar to the other machines in the DiversaCut line, the <sup>®</sup>**Sprint 2<sup>®</sup> Dicer** rounded tube frame contributes to sanitary design and ease of cleaning. The slicing-only capability is available by removing the circular and crosscut knife spindles.

 The Sprint 2 is available in an NSF (National Sanitation Foundation) International certified version.

SPRINT 2  
DICER

WITH OR WITHOUT  
DISCHARGE CONVEYOR

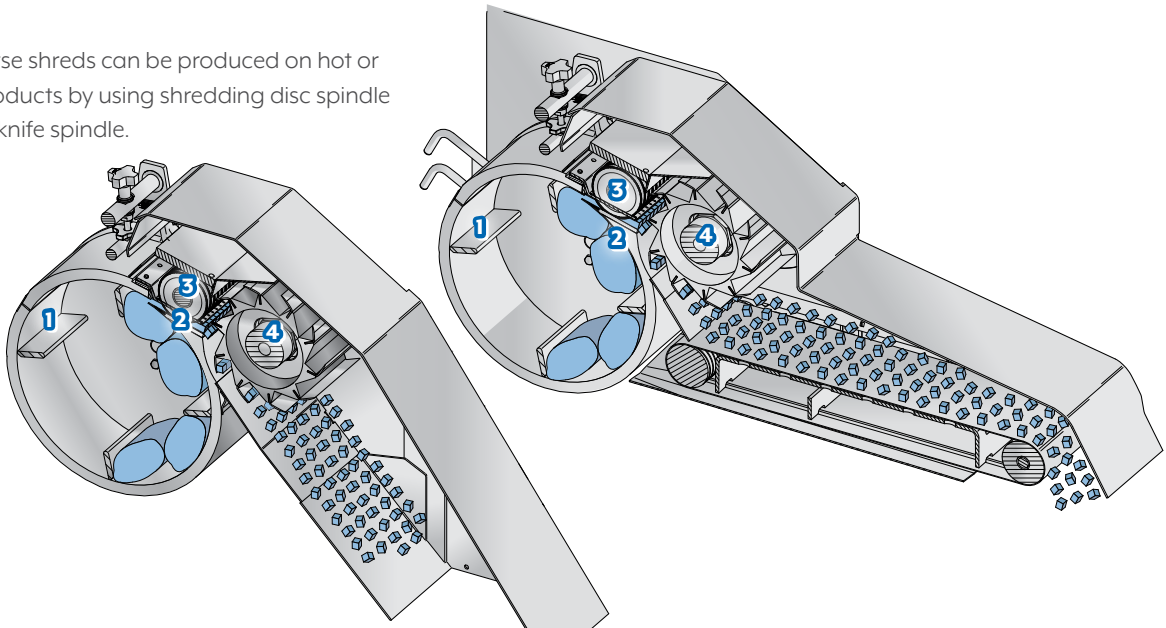
Both versions of the Sprint 2 Dicer accept a maximum infeed product of 6.5" (165 mm) in any dimension. Both versions may come equipped with VFD or with soft start in a 3 HP (1.5 kW) motor. Conveyor discharge version offers optimized, controlled complete discharge of cut product to reduce waste and facilitates use of totes.



TYPES OF CUTS

- Slice**  
**Flat or Crinkle:** 1/16 to 1" (1.6 to 25.4 mm)
- Dice/Crumble/Strip**  
2- and 3-dimensional cutting involves adjusting the slice thickness, and adjustment or removal of the circular or crosscut spindles.  
**Circular Range:** 1/8 to 3" (3.2 to 76.2 mm)  
**Crosscut Range:** 3/32 to 1" (2.4 to 25.4 mm)  
**Crosscut Crinkle Range:** (.076" (1.9 mm) depth): 9/32 to 9/16" (7.1 to 14.3 mm)  
**Crosscut Deep Crinkle Range:** (.125 to .145" (3.2 to 3.7 mm) depth): 3/8 to 1/2" (9.5 to 12.7 mm)

**Shred**  
Fine, medium, and coarse shreds can be produced on hot or chilled cooked meat products by using shredding disc spindle in place of the crosscut knife spindle.



CUTTING  
OVERVIEW

- 1. Impeller Paddles
- 2. Slicing Knife
- 3. Circular Knives
- 4. Crosscut Knives

SPECIFICATIONS<sup>†</sup>

A. Sprint 2 Dicer	B. Sprint 2 Dicer with Discharge Conveyor
<b>Length:</b> ... 70.31" (1786 mm)	<b>Length:</b> ... 70.31" (1786 mm)
<b>Width:</b> ... 58.30" (1481 mm)	<b>Width:</b> ... 61.56" (1564 mm)
<b>Height:</b> ... 60.95" (1548 mm)	<b>Height:</b> ... 60.95" (1648 mm)
<b>Net Weight:</b> 1000 lb (454 kg)	<b>Net Weight:</b> 1050 lb (476 kg)
<b>Motor:</b> ... 1.5 HP (1.1 kW) soft start, 3 HP (2.2 kW) soft start, or 3 HP (2.2 kW) with VFD	<b>Motor:</b> ... 3 HP (2.2 kW) soft start, 3 HP (2.2 kW) with VFD

The **E TranSlicer<sup>®</sup> line** offers different cutting wheel configurations to produce a full gamut of slices and shreds. Hinged and sliding access panels, and sloped surfaces assist in sanitation and maintenance. With the smallest footprint in this line, the E TranSlicer<sup>®</sup> Cutter uses interchangeable 20" (508 mm) diameter cutting wheels and is ideally suited for elongated, cooked meats.

 The E TranSlicer Cutter is available in an NSF (National Sanitation Foundation) International certified version.

E TRANSLICER  
CUTTER

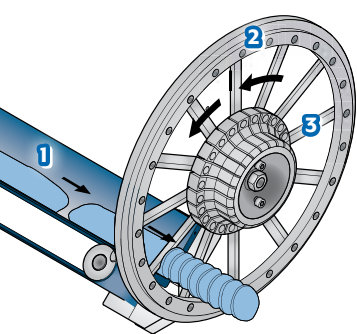
STANDARD,  
DISCHARGE CONVEYOR, AND BIAS

The <sup>††</sup>patented E TranSlicer Cutter uniformly slices a wide variety of products including cooked and processed meats and various food products. Maximum product infeed of firm products is 4" (101.6 mm) in diameter. The E TranSlicer Cutter features continuous operation for uninterrupted production. Newly developed parts transform the E TranSlicer Cutter (METRS) from standard slicing to either 35 or 45 degree bias flat or crinkle slicing. Available when ordering a new machine, or as a retrofit kit for E TranSlicer machines in the field.



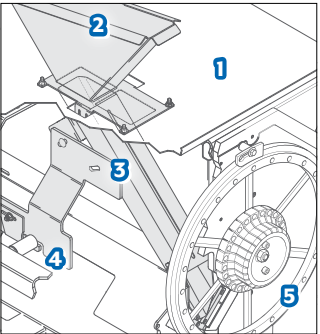
TYPES OF CUTS

- Slicing Wheel**  
**Flat or Crinkle:** 1/32 to 3" (.8 to 76.2 mm) Crinkle slices have 4-2/3 waves per inch and with a crinkle depth of 1/16" (1.6 mm).
- <sup>††</sup>MicroSlice Wheel**  
**Flat Slice:** .020 to .240" (.5 to 6 mm)  
**Crinkle Slice:** .069" (1.8 mm) thickness with 3-1/3 waves per inch and a crinkle depth of .080" (2.0 mm)  
**Oval Shred:** This shred has an oval-shaped cross section measuring approximately .125" (3.2 mm) thick by .250" (6.4 mm) wide.  
**Julienne Strip:** A wide range of julienne strips can be made from firm products. Contact your local representative for more information



CUTTING OVERVIEW

- 1. Feed Belt
- 2. Slicing Wheel
- 3. Slicing Knives



BIAS PARTS OVERVIEW

- 1. Bias Sliding Hood
- 2. Infeed Bias Chute
- 3. Bias Chute Assembly
- 4. Bias Chute Mounting Bracket
- 5. Slicing Wheel

SPECIFICATIONS<sup>†</sup>

A. E TranSlicer <sup>®</sup> Cutter
<b>Length:</b> 100.78" (2560 mm), 117.26" (2978 mm) with prep table
<b>Width:</b> 35.31" (897 mm)
<b>Height:</b> 61.79" (1569 mm), 66.36" (1686 mm) with remote stop
<b>Net Weight:</b> 1300 lb (560 kg)
<b>Cutting Wheel Motor:</b> 3 HP (2.2 kW)
<b>Feed Belt Motor:</b> 1 HP (.75 kW)
B. E TranSlicer <sup>®</sup> Cutter with Discharge Conveyor
<b>Length:</b> 101.63" (2581 mm), 119.92" (3046 mm) w/prep table
<b>Width:</b> 33.99" (863 mm)
<b>Height:</b> 62.87" (1569 mm)
<b>Net Weight:</b> 1540 lb (700 kg)
<b>Cutting Wheel Motor:</b> 3 HP (2.2 kW)
<b>Feed Belt Motor:</b> 1 HP (.75 kW)
<b>Conveyor Belt Motor:</b> 1/4 HP (.19 kW)
C. E TranSlicer <sup>®</sup> Bias Cutter
<b>Length:</b> ... 100.78" (2560 mm), 117.26" (2978 mm) w/prep table
<b>Width:</b> ... 35.31" (897 mm)
<b>Height:</b> ... 72.30" (1836 mm)
<b>Net Weight:</b> 1300 lb (560 kg)
<b>Motor:</b> ... 3 HP (2.2 kW)
<b>Feed Belt Motor:</b> 1 HP (.75 kW)

The CC Slicer features interchangeable cutting heads. MicroAdjustable® Slicing (SL-14), Shred (SH-14), and Julienne Heads feature 14 cutting stations with expedited maintenance. The cutting chamber, surrounding the cutting head, is available in a 22" (559 mm) or 32" (813 mm) diameter. New frame design delivers increased sanitation and flexibility.

#MODEL CC SLICER  
FUNNEL HOPPER WITH EXTENSION

VERSATILE SLICER,  
SHREDDER, & GRANULATOR

The CC Slicer accepts infeed product up to 4" (101.6 mm) in any dimension. Different feed options, motor choices, and set-ups including size of cutting chamber and options related to the new laser cut, flexible frame improve and optimize the addition of the CC into production lines.

TYPES OF CUTS

**Flat Slice**  
up to .500" (12.7 mm)

**V Slice**  
up to .500" (12.7 mm)

**.125" Slice:** 8 "V's" per inch.  
"V" depth of .050" (1.3 mm);  
Centers: .125" (3.2 mm).

**.212" Slice:** 4.7 "V's" per inch.  
"V" depth of .084" (2.1 mm);  
Centers: .212" (5.4 mm).

**Crinkle Slice**  
up to .500" (12.7 mm) with 3-1/2 waves per inch.

**.175 Slice:** Crinkle Depth .084" (2.1 mm), Centers .175" (4.4 mm),

**.300 Slice:** Crinkle Depth .080" (2.0 mm), Centers .300" (7.6 mm).

**.480 Slice:** Crinkle Depth .076" (1.9 mm), Centers .480" (12.2 mm).

**Full Shred & Reduced V Shred**

**Full Shred:** Diamond-shaped cross section available in four thicknesses: .070, .097, or .125" (1.8, 2.5, or 3.2 mm).

**Reduced V Shred:** "V"-shaped cross section

**Oval & Reduced Oval (Crescent) Shred**

**.250 Oval Shred:** Oval-shaped cross section approximately .125" (3.2 mm) thick by .250" (6.4 mm) wide.

**.480 Wide Oval Shred:** .152" (3.7 mm) thick by .480" (12.2 mm) wide

**Crescent Shred:** Crescent-shaped cross section.

**Wide Crescent Shred:** Wide crescent-shaped cross section.

**Strip Cut**  
Rectangular cross section. **Widths:** 3/32, 1/8, 3/16, 1/4, 3/8, 1/2, 9/16, and 3/4" (2.4, 3.2, 4.8, 6.4, 9.5, 12.7, 14.3, and 19 mm)

**Unique Slices, Grating Options**  
Contact your local Urschel office to explore more types of cuts.



SPECIFICATIONS<sup>Y</sup>

**Model CC**  
**Funnel Hopper with Extension**  
**22" (559 mm) Cutting Chamber**

**Length:** ..... 47.85" (1215 mm) – 2 or 5 HP  
..... 51.31" (1303 mm) – 10 HP

**Width:**..... 35.80" (909 mm)

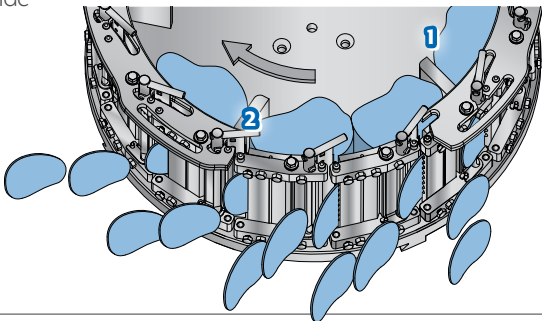
**Height:** ..... 42.03" (1068 mm)

**Net Weight:** 550 lb (250 kg) – 2 or 5 HP  
..... 680 lb (310 kg) – 10 HP

**Motor:** 2, 5, or 10 HP (1.5, 3.7, or 7.5 kW)



**MicroAdjustable® SH-14 & SL-14 heads** offer increased capacity with 14 cutting stations versus the standard 8 head. Innovative design delivers quick adjustments, increased sanitation, and time/labor savings. New SlideLocc™ clamping system expedites knife changeovers with limited tools necessary.



CUTTING  
OVERVIEW

1. Impeller Paddle  
2. Slicing Knife

Routine uses for the <sup>YY</sup>Comitrol® Series include granulating, flaking, slicing, milling, shredding, liquefying, emulsifying, dispersing, blending, and pureeing. The operating principle relies on a gradual particle reduction as a high-speed impeller rotates product inside a stationary reduction head achieving consistent, uniform particle size reduction at high capacities. Different models accommodate different styles of reduction heads, feeding methods, and horsepower. View our complete 'Comitrol Reductions' brochure to explore other models not listed in this brochure. To discover your ideal set-up, a free-of-charge test-cut at one of our Product Test Cutting Facilities is advised.

COMITROL PROCESSOR  
MODEL 1700

CONTROLLED PARTICLE  
SIZE REDUCTION

The Comitrol Processor Model 1700 accommodates all three types of reduction heads. It is recommended for free-flowing dry and semi-dry product applications. Sealed enclosure deters escape of dust, vapor, and liquid when installed with a collection system. Use a Microcut head to produce the smallest particle sizes. Outfitted with either a 15 HP (11.2 kW), 30 HP (22.4 kW), or 40 HP (30 kW) motor.

SPECIFICATIONS<sup>Y</sup>

**Length:**.....49.62 (1260 mm)

**Width:**.....34.62 (879 mm)

**Height:** .....70.12" (1781 mm)

**Net Weight:** ...1100 lb (499 kg)

**Motor:**.....15, 30, or 40 HP  
(11.2, 22.4, or 30 kW)



<sup>^</sup> **HMI option available.**  
*Benefits include: identifies misaligned sensors, soft start faults and fixes, total machine runtime, motor loads and overfeeding issues, and remote start/stop when connected to a control center.*

TYPES OF CUTS



**MODEL 1700 SLICING HEAD:**  
**Slices:** .020 to .060"  
(.5 to 1.5 mm)



**MODEL 1700 MICROCUT HEAD:**  
Offers the smallest in particle sizes from .0012 to .0237" (.03 to .6 mm)

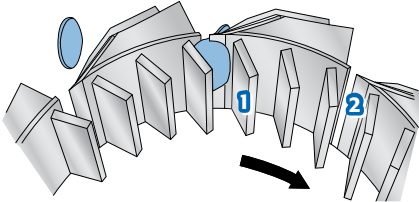


**MODELS 1700 & 3640F CUTTING HEAD:**  
Offers sizes from .010 to 1.5" (.254 to 38.1 mm)

CUTTING OVERVIEW

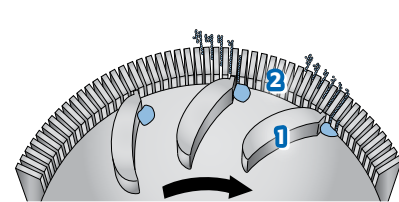
MODEL 1700 SLICING HEAD:

1. Impeller  
2. Slicing Knife



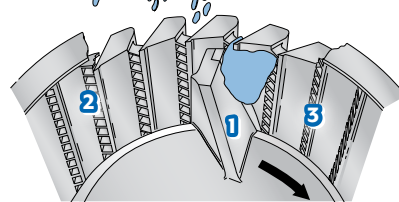
MODEL 1700 MICROCUT HEAD:

1. Impeller  
2. Slicing Blades



MODELS 1700 & 3640F CUTTING HEAD:

1. Impeller  
2. Horizontal Separators  
3. Vertical Knives





# DELIVERING TARGETED CUTTING SOLUTIONS AROUND THE WORLD



Urschel continues to develop new cutting methods by working closely with our customers. This brochure contains a range of Urschel cutting capabilities, and we are always open to new challenges. In addition to the machines in this brochure, view even more Urschel cutting machinery at [www.urschel.com](http://www.urschel.com).

## URSCHEL®

Set-up a free test-cut of your product:  
[info@urschel.com](mailto:info@urschel.com) | [www.urschel.com](http://www.urschel.com)

### THE GLOBAL LEADER IN FOOD CUTTING TECHNOLOGY®

NORTH AMERICA | EUROPE | SOUTH AMERICA | ASIA | AUSTRALIA | AFRICA

**#1 Best Selling**  
provider of industrial cutting  
machinery throughout the world.

- ¥ Measurements and weights may vary depending on machine configuration.
- ‡ M VersaPro may contain parts protected by U.S. Patent No. 10933550.
- € Affinity Dicers may contain parts protected by U.S. Patent Nos. 6883411, 9296119, D760992, and European and foreign patents.
- § Affinity Integra Dicers may contain parts protected by U.S. Patent Nos. 6883411, 9296119, 9604379, and 9855669.
- §§ The DiversaCut 2110A, DiversaCut Sprint, and Sprint 2 Dicers may contain parts protected by U.S. Patent No. 6883411 and European Patent No. EP1377415.
- †† TranSlicer series cutters may contain parts protected by U.S. Patent Nos. 6148702, 6460444, 6792841, 6920813, 8104391, and European and other foreign patents.
- ‡ The MicroSlice Wheel may contain parts protected by U.S. Patent Nos. 6148709, 7178440, 7721637, 8033204, and European and other foreign patents.
- ‡‡ The Model CC series may contain parts protected by U.S. Patent Nos. 6968765, 7270040, 7314353, 7658133, 8161856, 9193086, 9469041, D701366, D701670, D701671, D701672, D702417, D704919, D706017, D711068, D717516, D716522, D716523, D723244, and European and foreign patents.
- ¥¥ The Comitrol Processor may contain parts protected by U.S. Patent No. 9033268.

NSF The DiversaCut 2110A, Sprint 2, and E TranSlicer are available in NSF (National Sanitation Foundation) International specific certified versions.

® Urschel symbol, Urschel, Sprint 2, E TranSlicer, M VersaPro, Affinity Integra, Affinity, DiversaCut 2110A, Comitrol, and The Global Leader in Food Cutting Technology are registered trademarks of Urschel Laboratories, Inc. U.S.A. ™SlideLocc pending.