

# AFFINITY<sup>TM</sup>



The Affinity Dicer is accepted by the  
United States Department of Agriculture, Dairy Division.

**URSCHEL<sup>®</sup>**  
THE SIZE REDUCTION SPECIALISTS

# AFFINITY™ DICER

NEW! U.S.D.A., Dairy Division Accepted Large Cheese Dicer

## APPLICATIONS

The new Affinity Dicer is the largest cheese dicer Urschel manufactures. The heavy duty dicer delivers a sanitary design, optimal high capacity output, and precision cuts. The maximum infeed is 7" (178 mm) in any dimension.



1. Large infeed hopper accepts a maximum 7" (178 mm) product.
2. Slice adjustments are easily made by the turn of a knob.
3. Uncomplicated control panel simplifies operation of machine.
4. Sanitary highly polished all stainless steel surfaces.
5. Rounded tube frame and angled/rounded surfaces ease washdowns and deter bacterial growth.
6. Various discharge chutes available to accommodate different conveyor configurations.
7. Food zone completely separate from the mechanical zone to ensure sanitation.
8. Produces precision dices and strips at high capacity outputs.
9. Feed drum maintains positive feeding of sticky or moisture-rich products to promote controlled, precision cutting.
10. Illuminated stainless steel guardlocks permit opening of access panels after all moving parts have come to a complete stop.
11. Optimal 25 HP motor drives the machine and delivers maximum torque to deliver maximum throughput capacity at all times.
12. VFD (variable frequency drive) equipped 5 HP crosscut motor allows significant cost-savings by adjusting the motor speed to obtain a range of dice sizes instead of swapping crosscut knife spindles.
13. Oil lubricator automatically lubricates the drive train.
14. Sealed bearing spindles are lubricated for the life of the bearings.
15. Simple to use tools and an in-depth operating manual accompany each AFFINITY™ Dicer.



## Key Affinity Features

Maximum power to deliver maximum throughput capacity

Sanitary highly polished stainless steel surfaces to deter bacterial growth

Food zone completely separate from the mechanical zone

Hinged swingaway panels and sloped surfaces simplify maintenance and wash-down procedures

Designed for continuous operation for uninterrupted production

Produces superior cut quality

## SPECIFICATIONS

Length\_\_\_\_\_ 64.92" (1649 mm)

Width\_\_\_\_\_ 62.52" (1588 mm)

Height\_\_\_\_\_ 69.46" (1764 mm)

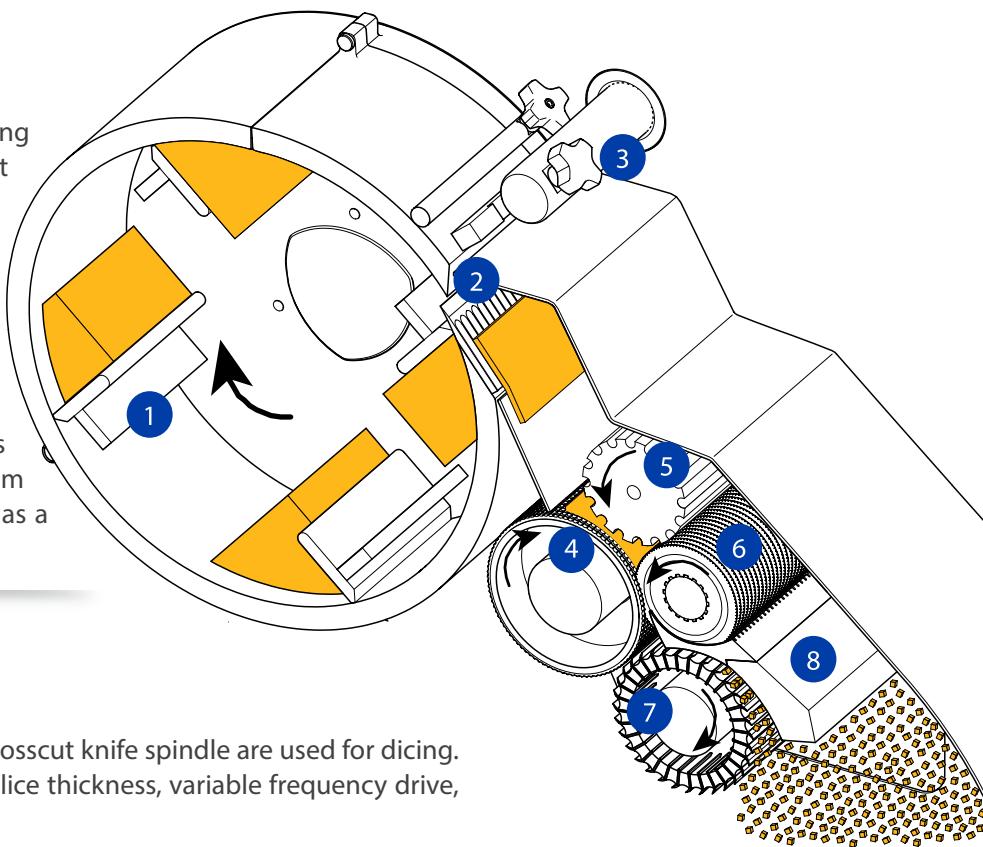
Net Weight\_\_\_\_\_ 2800 lb (1270 kg)

Motors\_\_\_\_\_ 5 HP (3.6 kW)

\_\_\_\_\_ 25 HP (18 kW)

## OPERATING PRINCIPLE

Product delivered to a feed hopper enters a rotating impeller. Centrifugal force holds the product against the inside of the case. Impeller paddles (1) carry the product past the slicing knife (2). An adjustable slice gate (3) at the top of the case determines the slice thickness. Slices pass between the rotating feed drum (4) and feed roll (5), then enter the circular knives (6) where they are cut into strips. The strips pass directly into the crosscut knives (7) where the final cut is made. The stripper plate (8) removes product from the spaces between the circular knives and acts as a shear edge for the crosscut knives.



## TYPES OF CUTS

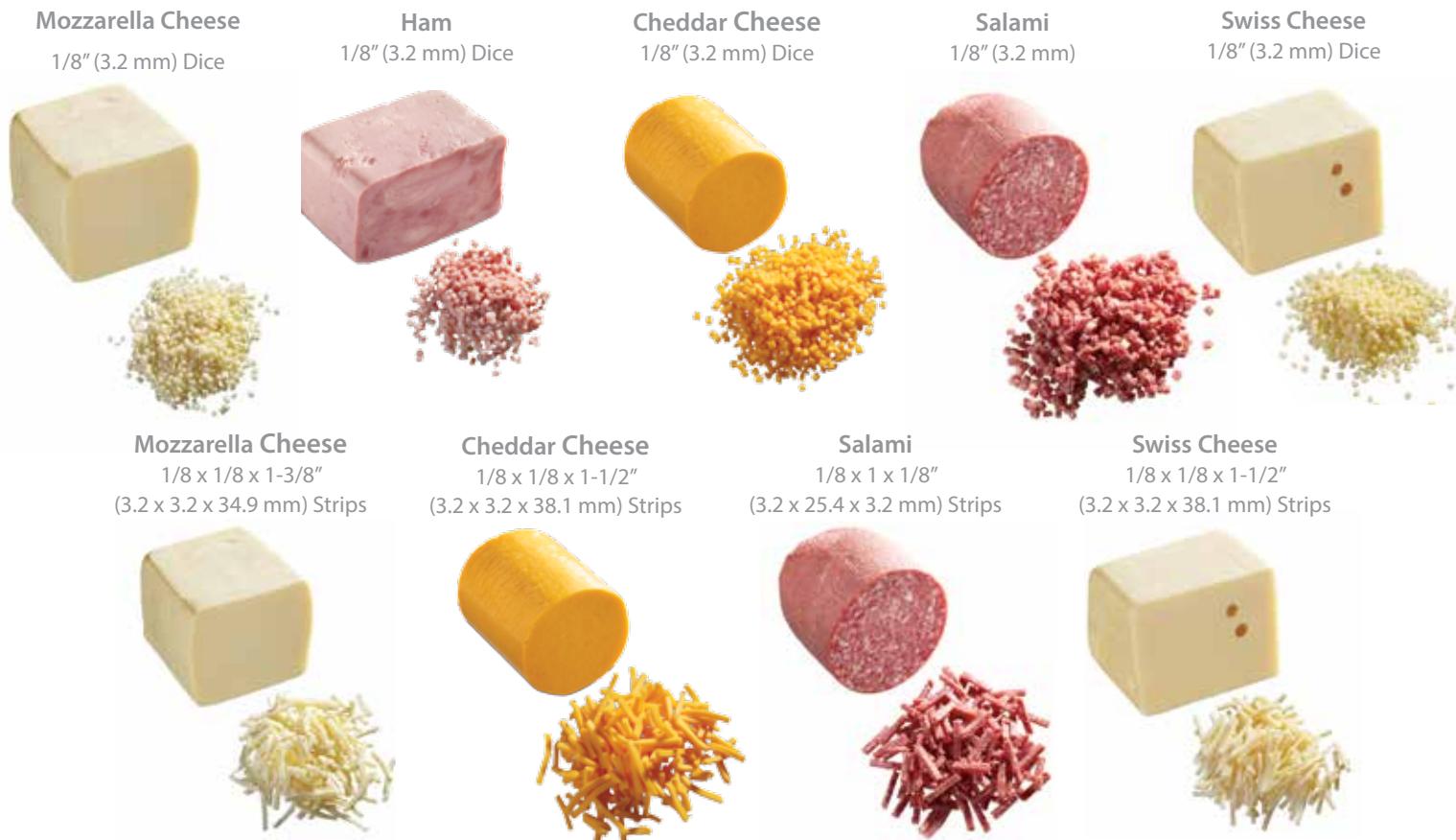
**Slice thickness:** 1/8 to 3/4" (3.2 to 19.1 mm)

**Dices:** A slicing knife, circular knife spindle, and crosscut knife spindle are used for dicing. Changing the dice size is done by adjusting the slice thickness, variable frequency drive, and cutting spindles as needed.

- Circular Knife Spindle: 1/8 to 2" (3.2 to 50.8 mm)
- Crosscut Knife Spindle: 1/8 to 2" (3.2 to 50.8 mm)

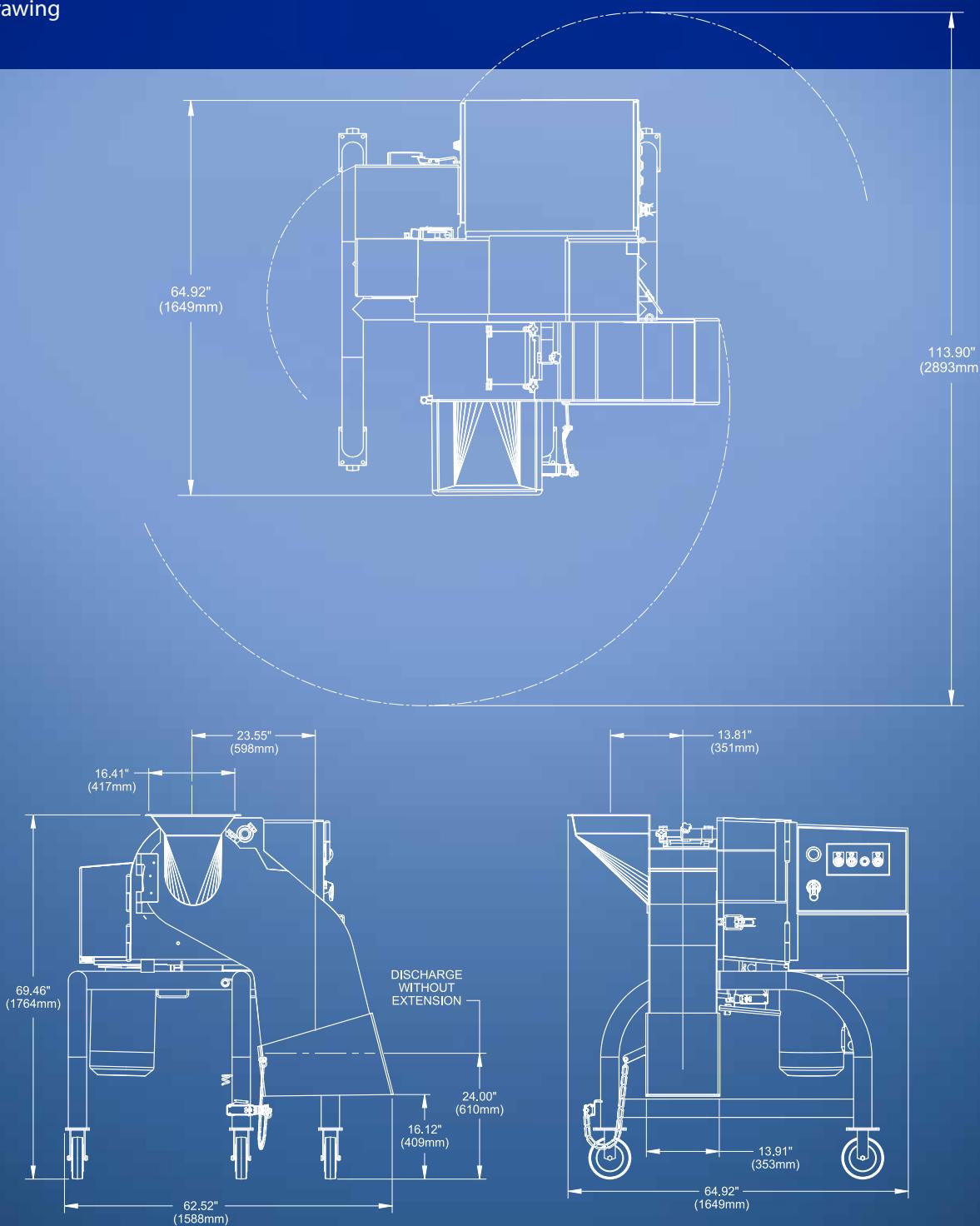
**Strip Cuts:** Flat strips can be made by removing either the crosscut knife spindle or the circular knife spindle. Combinations of circular knives or crosscut knives can be used to shorten the length of the strips.

- 1/8 to 2" (3.2 to 50.8 mm) in length



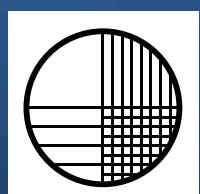
# AFFINITY™ DICER

Dimensional Drawing



## You are Invited to Test Cut Your Product

Urschel Laboratories has a complete network of test facilities and experienced service and sales representatives around the world ready to work for you on any size reduction application. Contact your local Urschel Laboratories' representative to schedule a comprehensive, no-obligation test cut today at [www.urschel.com](http://www.urschel.com).



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**Designers and manufacturers of  
precision size reduction equipment.**