



# Machinery Specifications – US-9 Seamer

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## Overview

Featuring changeable roller sets, the US-9 universal seamer combines the most popular features of Knudson's top-selling seamer models. This flexible metal roofing machine can create single-lock or double-lock standing seams in a single pass. Includes ½-in and ¾-in head widths and 1, 1 ½, 2 and 2 ½-in leg heights.



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## Profile Specifications

### Available Profiles

- 1 or 1-1/2-in Standing Seam - Single Lock
  - o 90-deg Seam (1/2-in Head Width)
- 1 or 1-1/2-in Standing Seam - Double Lock
  - o 180-deg Seam (1/2-in Head Width)
- 2 or 2-1/2-in Standing Seam - Single Lock
  - o 90-deg Seam (3/4-in Head)
- 2 or 2-1/2-in Standing Seam - Double Lock
  - o 180-deg Seam (3/4-in Head)



- 2-in Standing Seam - UltraLok
  - o 45-deg Seam (3/4-in Head)

#### Material Types

- Steel: Galvanized, Painted, Pre-Finished
- Aluminum: Painted, Pre-Finished
- Copper: Bare, Pre-Finished

#### Material Thickness

- 1 or 1-1/2-in Standing Seam - Single Lock --- 0.018 to 0.033-in
- 1 or 1-1/2-in Standing Seam - Double Lock --- 0.018 to 0.027-in
- 2 or 2-1/2-in Standing Seam - Single Lock --- 0.018 to 0.033-in
- 2 or 2-1/2-in Standing Seam - Double Lock --- 0.018 to 0.027-in
- 2-in Standing Seam - UltraLok --- 0.018 to 0.033-in

#### Material Strength

- Steel
  - o Max Tensile Strength = 48-ksi (330 MPa)
  - o Max Yield Strength = 33-ksi (230 MPa)
- Aluminum
  - o Max Tensile Strength = 33-ksi (230 MPa)
  - o Max Yield Strength = 28-ksi (190 MPa)
- Copper
  - o Max Tensile Strength = 33-ksi (230 MPa)
  - o Max Yield Strength = 28-ksi (190 MPa)

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### **Mechanical Systems**

#### Dimensions

- Length = 16.50-in (420-mm)
- Width = 12.00-in (305-mm)
- Height = 15.00-in (380-mm)



- Weight = 40-lbs (18-kg) - Base assembly only - no rollers
- Weight = 15-lbs (7-kg) - Roller Set

#### Roll-Forming Details

- Four (4) Powered Roll-Forming/Drive Stations
- Urethane and Steel Drive Rollers, Steel Forming Rollers

#### Production Speed

- 30-ft/min Nominal

#### Drive Train

- Power Source: Electric Motor
- Power Take-Off: Spur Gear
- Drive/Forming Rollers: Gear/Sprocket/Roller Chain Drive

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### **Electrical/Controls**

#### Electric Power

- Line Voltage = 100 to 115 VAC / 200 to 230 VAC (+/- 10%)
- Line Current = 15 Amps / 7.5 Amps
- Line Frequency = 60 / 50 Hz (+/- 1%)
- Line Phase = single phase
- Full Load Current = 12.6 to 14.2 Amps (115 VAC) / 6.3 to 7.1 Amps (230 VAC)

#### Control System

- Directional Control / Electric Motor Control: Stop/Jog/Run Switch
- Direction Selector Switch

#### Safety Features

- Finger Guards
- Switch Guard

