



NPC-MINI Puller/Cutters

MINI Servo puller/cutters with standard features that are optional on other brands, providing superior product consistency.

Bessemer Series MINI Puller/Cutters control line speed via precision, servo drive belt traction assemblies and manually adjustable compression force setting to ensure consistent pulling traction. Multi-V drive pulleys provide excellent product tracking capabilities feeding to a 1" rotary knife cutter.

— 5 —
YEAR
warranty



7" high resolution color touch screen



NPC-MINI

Common Features for Puller/Cutter

Siemens Color Touch Screen PLC Control With Connectivity

- Recipe management for consistent and repeatable setups
- Line rate display
- Totalizing counter
- Programmable puller speed
- Speed input touch control via coarse and fine buttons as well as numerical display
- Password protection
- Data logging
- Single or separate controls

MINI Puller Overview

Servo Motor Drive

Provides extended speed range and high-level speed accuracy.

Multi-V Drive Pulleys and Traction Belts

60 Durometer Multi-V traction belts are standard. Multiple belt durometers and materials are available.

Multi-Product Use

Wide range of compression force and speeds for pipe, profile and tubing.

Drive Belt

Dual-sided serpentine.

MINI Rotary Knife Cutter Overview

Multiple Cutting Modes

On Demand with encoder, optical sensor or timer as well as continuous cut mode.

Scrap Cut Technology

Preset scrap length and simply press the touch screen to switch between scrap and production without losing part counts.

Lubricant Reservoirs

Isopropyl alcohol is automatically fed from reservoirs to blade wipe and bushing.

Blade Lubricant Reservoir

Easily filled with isopropyl alcohol.

Blade Holder

Accommodates a variety of blade types which are easy to replace.

Integrated Safety Interlock

For Cat4/SIL3/PLe.

Plus

- › Lowest cost of ownership with the industry's only 5-year warranty

Value Is Redefined with our STANDARD FEATURES



Industrial strength Siemens PLC touch screen control, standard

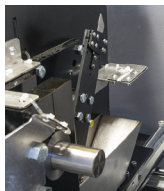
Built-in Features include:

- Process monitoring
- Digital line rate indication
- Recipe management
- Coarse and Fine puller speed adjustment
- Standard data logging
- Standard totalizing control
- Ethernet ready



Manually adjustable compression force setting on center line

Isopropyl alcohol reservoirs



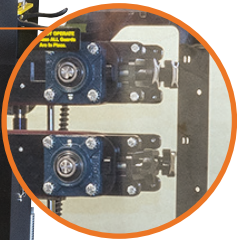
Easily changed blades pass through blade wipe and reservoir of isopropyl alcohol

2-Axis adjustable positioning of cutter head



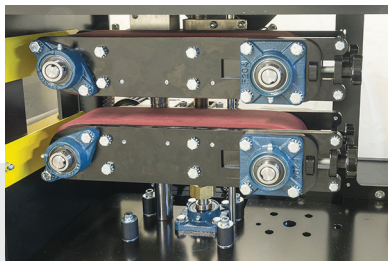
Safety stop.

Product guides

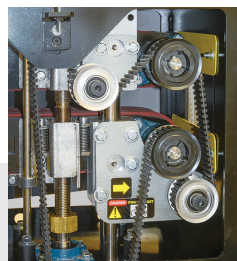


Manual belt tension adjustment.

See-through, fully-enclosed belt guard



Easily replaced bolt-on bearings.



Dual-sided serpentine drive belt

Siemens Color Touch Screen PLC Control Equals **Convenience and Reliability for the MINI-NPC**

You choose...easily enter basic puller/cutter settings and run product
...or use full control capabilities with up to 30 recipes, box count, box fill and more.

DASHBOARD – View real-time performance of cutter and puller

QUICK-OPS SCREEN – View real-time performance of puller

View and change cutter settings

Change cut length and/or speed

Touch buttons to RUN or STOP Puller

View and change puller settings

HOME SCREEN – Access to SETUP screens

Access to Cutter or Puller QUICK-OPS screen

Select existing recipe

Footage counter

Access to SETUP page 1

SETUP SCREEN – Align puller functions with your system configuration

Recipes can be saved to/from SD card

Belt thickness factor, preset at factory

Set time and date

Accesses USERS management screen

RECIPE EDIT SCREEN – Recipes can be entered or edited

Touch each box and enter values on the pop-up alpha-numeric screen:

- Recipe ID
- Material ID
- Recipe name
- Startup speed
- Run speed

Save recipe for future use or run immediately

Scroll through up to 30 recipes by either 1 or 10 at a time

Specifications:

| | |
|---|-------------------------|
| Model Number | NPC-MINI-3X12-C1 |
| | NPC-MINI-3X20-C1 |
| Gear ratio | 7.5:1 |
| *Speed range FPM (feet per minute) | 7 to 325 |
| Power (Hp) | 2.46 |
| Approximate pull force (pounds) | 138 |

* See options below Standard Voltage: 460V/3ph/60Hz

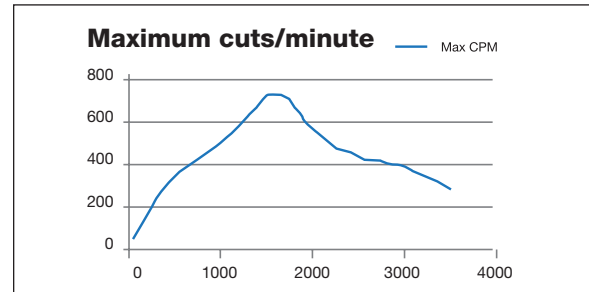
Options:

- Alternate belt materials/durometers available
- Remote touch-screen control at extruder
- Left-to-right operation
- Belt gap indicator
- Alternate gear box ratios
- 230 VAC

| Gear Ratio Options | Ratio | Speed range | Pull force |
|---------------------------|--------------|--------------------|-------------------|
| NPS-MINI-Gear-5 | 5:1 | 10-425 ft/min | 92 lb |
| NPS-MINI-Gear-10 | 10:1 | 5.0-270 ft/min | 184 lb |
| NPS-MINI-Gear-15 | 15:1 | 3.5-165 ft/min | 275 lb |
| NPS-MINI-Gear-30 | 30:1 | 1.5-90 ft/min | 551 lb |

Note: Some additional options are available - contact factory.

| | |
|---|-------------------------|
| Model number | NPC-MINI-3x12-C1 |
| | NPC-MINI-3x20-C1 |
| Bushing diameter | 1.25" |
| Maximum profile | 1" dia. |
| Power - Hp | 1 |
| Max continuous cuts (2 blades) | 6000 CPM |
| Maximum on-demand cuts (1 blade) | 500 CPM @ 1500 RPM |
| Maximum on-demand blade (RPM) | 3500 |
| Maximum peak torque (in/lbs) | 115 |
| Blade mount arm | 6.5" |



Dimensions: (inches)

