

NPS-MINI Pullers

NPS-MINI servo pullers for best-in-class performance with standard features that are optional on other brands

Bessemer NPS-MINI pullers 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. The result is superior product consistency for each and every production run.

-5-
YEAR
warranty



NPS-MINI 3x20

Servo Motor Drive

Provides extended speed range, high-level speed accuracy and eliminates relative slip between belts.

Multi-V Drive Pulleys and Traction Belts

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

Helical Bevel Gear Reducer

Operating efficiency of 90% for reduced energy and heat plus 60% more torque than a typical worm gear reducer.

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

Multi-Product Use

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



7" high resolution color touch screen

Plus

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

A Total Redefinition of Value with our STANDARD FEATURES



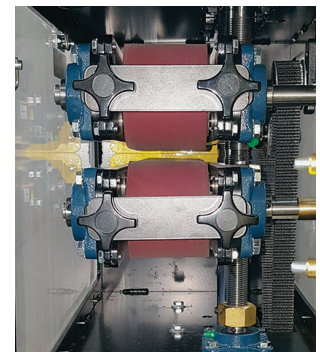
Manually adjustable
compression force
setting on center line

Industrial strength Siemens PLC
touch screen control, standard

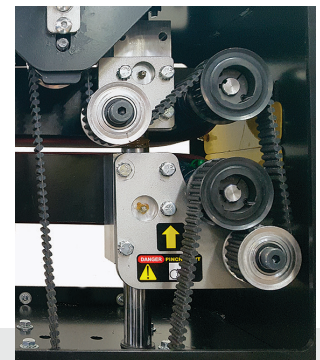
Built-in features include:

- Process monitoring
- Digital line rate indication
- Recipe management with clamp force setting

Standard data Logging
Standard totalizing control
Ethernet ready



Screws for manual belt
tensioning



Dual-sided serpentine
drive belt

Fully enclosed hinged
see-through belt guard

Siemens Color Touch Screen PLC Control Equals **Convenience and Reliability**

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

Increase or decrease speed reference by increments of...
±10% or 0.1 fpm or m/min.

Enter speed set point

Touch buttons to RUN or STOP Puller

Select/edit recipe

The screenshot shows a control panel with 'RUN SPEED fpm' set to 20.0 and 'ACTUAL SPEED fpm' at 0.0. It includes 'SPEED TRIM' buttons for ±0.1 and ±10%, 'RUN' and 'STOP' buttons, and a 'RECIPE' section with 'SELECT RECIPE' and 'default' options. A 'FAULT' indicator is visible at the top left.

HOME SCREEN – Access to SETUP screens

Access to QUICK-OPS screen

Select existing recipe

Counter

Access to SETUP page 1

The HOME screen features a central image of a puller machine and several navigation buttons: 'QUICK OPS', 'SELECT RECIPE', 'COUNTER', and 'SETUP'. A 'FAULT' indicator is at the bottom.

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

The SETUP PAGE 1 screen displays 'PULLER BELT PARAMETERS' with 'BELT PITCH DIST.' set to +0.0000 in. It also shows date and time settings (12/31/2000, 10:58:39 AM) and a 'USERS' management icon.

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
- Clamp PSI setpoint

Save recipe for future use or run immediately

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

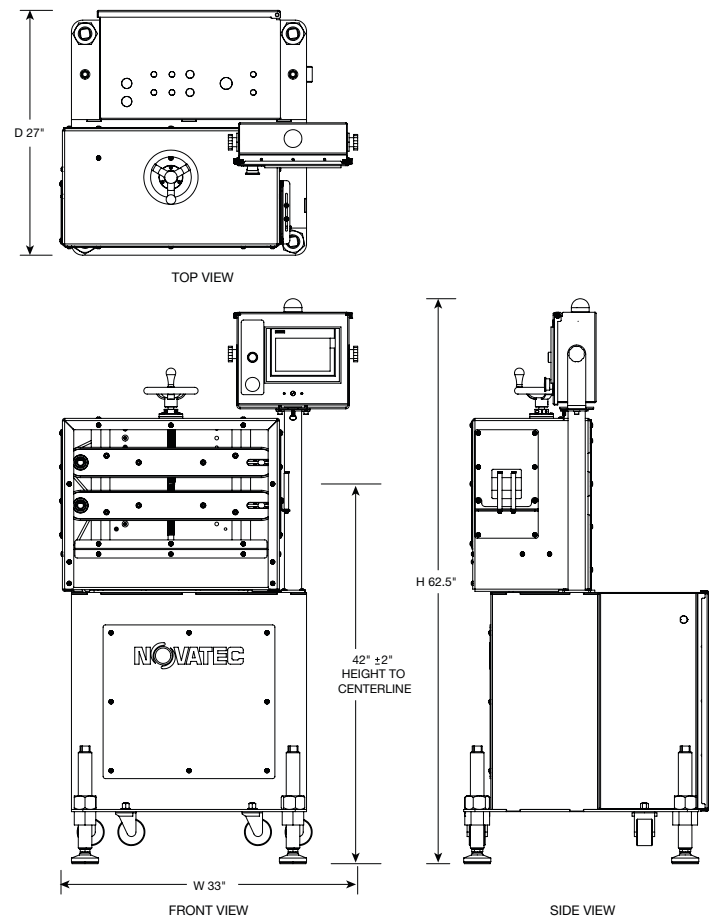
The EDIT RECIPE screen shows fields for 'RECIPE ID' (4), 'MATERIAL ID' (0000), 'NAME' (Default), 'STARTUP SPEED' (15.0 fpm), 'RUN SPEED' (20.0 fpm), and 'CLAMP PSI SETPOINT' (0.0 psi). It includes navigation buttons for scrolling through recipes.

Specifications:

Model Number	NPS-MINI-3X12
	NPS-MINI-3X20
Gear ratio	7.5:1
Speed range FPM (Feet Per Minute)	7 to 325
Power - Hp	2.46
Approximate pull force - pounds	138

Standard voltage: 460V/3ph/60Hz

Dimensions:



Options:

- Alternate belt materials/durometers available
- Remote touch-screen control at extruder
- Left-to-right operation
- Belt gap indicator
- Optional gear box ratios (See below)

Note: Some additional options are available - contact factory.

Optional Gear Ratios	NPS-MINI-GEAR-5	NPS-MINI-GEAR-10	NPS-MINI-GEAR-15	NPS-MINI-GEAR-30
Gear Ratio	5:1	10:1	15:1	30:1
*Speed Range FPM (Ft/Min)	10 - 425	5.0 - 270	3.5 - 165	0.5 - 85
Power - Hp	2.46	2.46	2.46	2.46
Approximate Pull Force - (lb)	92	184	276	551