Kestutis Balciunas

NINJATRADER 8 INDICATOR · NINJASCRIPT, C#

Installation and Quick Start

How to import the Add-On into NinjaTrader 8, add the indicator to a chart, and read what it draws.

PRODUCT	SMC Algo Warrior for NinjaTrader 8
VERSION	1.0.0
DATE	November 2026
NINJATRADER	8.1.x Desktop, tested on 8.1.9.0
PACKAGE	`SmcAlgoWarrior.zip`, compiled NinjaScript Add-On
SHA-256	`5606ef3e4b7514548a3c400706c765be6b1eee45a712c2b701b6515ffdd3f891`
AUTHOR	Kestutis Balciunas, https://kestutisbalciunas.com/
PRODUCT PAGE	https://kestutisbalciunas.com/ninjatrader/smc-algo-warrior/

Trading involves substantial risk. Futures, foreign currency and options trading contains substantial risk and is not for every investor. Past, simulated and backtested performance is not necessarily indicative of future results.

01

Installation

Requirements

- NinjaTrader 8.1.x Desktop for Windows (tested on 8.1.9.0). Not for NinjaTrader 8.0 or NinjaTrader Web.
- Any data connection that delivers bars for the chart. The calculation does not read volume. No Order Flow+ features, no depth, no tick history.

Import the Add-On package

1. Control Center > Tools > Import > NinjaScript Add-On.
2. Select `SmcAlgoWarrior.zip` and confirm. NinjaTrader compiles the assembly and reports that the import is complete.
3. No restart is needed. If a chart already had an older version, remove and re-add the indicator (a compile does not reload running instances).

Verify installation

1. Open a chart with at least a few hundred bars (any instrument, a 1 to 60 minute interval is a good first look), press Ctrl+I.
2. In the Available list find **SMC Algo Warrior**, click add, click OK.
3. The chart shows structure lines labelled BOS and CHoCH, translucent green and red order-block boxes, and, where a closed bar retested a block, a buy arrow under the bar or a sell arrow over it. The five newest signals also carry an entry line, an SL line, two TP lines and a price tag on each. Mitigated blocks are removed by default, so a chart can show few boxes at a time.

Uninstall / update

- Remove: Control Center > Tools > Remove NinjaScript Assembly > SMC Algo Warrior.
- Update: import the new zip over the installed version (NinjaTrader replaces the assembly), then remove and re-add the indicator on every chart that uses it, or reload the workspace.

02

Quick start

First chart

1. Add **SMC Algo Warrior** to a chart (Ctrl+I). Leave every setting at its default.
2. Load enough history. The swing state, the trend and the active order blocks on screen are built from the bars before them, and the indicator does not extend the chart's data: the Data Series setting **Days to load** decides. Aim for at least 5,000 bars where your feed allows it.
3. Everything is decided on closed bars. Nothing is calculated or drawn on the forming bar.

Reading the chart

- **Structure lines**: a close above the last unbroken swing high is an upward break, a close below the last unbroken swing low a downward break. A break against the structure trend is a **CHoCH** (solid line); any other break, the very first one included, is a **BOS** (dotted line). Teal for an upward break, orange for a downward one. The line runs from the swing to the break bar, and the label sits at its middle: above it for an upward break, below it for a downward one.
- **Order blocks**: each break creates a box. For an upward break it is the candle with the lowest low since the last swing low (the last 20 bars when there is no swing low yet, never more than 100 bars back); for a downward break, the candle with the highest high since the last swing high. Green is bullish, red is bearish. The box grows to the right until a close goes through it, below a bullish block or above a bearish one, and is then removed. At most four blocks per side stay active.
- **Arrows**: a green arrow under the bar is a buy, a magenta arrow over the bar is a sell.
- **Levels**: a signal draws a dotted grey entry line, a red SL line, a green TP1 line and a cyan TP2 line, 20 bars long, with a price tag at the right end of each. The newest five sets stay. A tag that would fall past the right edge is pulled inside the chart and its line ends where the tag starts.
- **The levels are a plan, not a tracker**: they are drawn when the arrow prints and stay as they are. The indicator does not follow them, mark a target or the stop as reached, or count outcomes.

Signal rules in one paragraph

A **buy** prints on an active bullish block when the bar is later than the bar that created the block, its low reaches the block's top or below, it closes above its open, it did not close below the block, the block has not given a signal before, no buy has printed on this bar yet, and, with **only trade in direction of structure** on (the default), the structure trend is up. A **sell** is the mirror image on a bearish block. Each block gives at most one signal, and each bar at most one buy and one sell. The entry is the signal bar's close. The SL sits **sl buffer (x atr)** ATRs beyond the block's far edge, or beyond the bar's own extreme if that is further. TP1 and TP2 are the entry plus or minus **tp1 risk:reward** and **tp2 risk:reward** times the distance from the entry to the SL. Until the ATR has **atr length** bars, a signal prints without levels.

Settings to try first

SETTING	WHAT IT CHANGES
swing length	Bars on each side of a swing. Larger values find fewer swings, so fewer breaks and fewer blocks.
create ob only on choch (reversal)	Creates a block only on a CHoCH, never on a BOS.
only trade in direction of structure	Off allows a retest against the structure trend to print.
remove ob when mitigated	Off keeps a mitigated block in grey, no longer extending. It can no longer give a signal.
show bos / show choch / show structure lines + labels	Hide the structure drawing only. The breaks, the trend, the blocks and the signals are unchanged.
show order blocks	Off creates no blocks. Every signal is a retest of a block, so no signals or levels appear either.

Alerts

Four events, each behind its own switch in **07 Alerts**, all on by default. They are evaluated once per closed bar and only in realtime, never during the history pass, and never for a bar that closed more than two bar periods plus five seconds ago.

SWITCH	FIRES WHEN	MESSAGE
Alert: buy: bullish ob retest	a buy signal prints	`BUY (bullish OB retest) on MNQ 5 @ 29307.25`
Alert: sell: bearish ob retest	a sell signal prints	`SELL (bearish OB retest) on MNQ 5 @ 29307.25`
Alert: bullish choch	an upward change of character	`Bullish CHoCH on MNQ 5 @ 29307.25`
Alert: bearish choch	a downward change of character	`Bearish CHoCH on MNQ 5 @ 29307.25`

The message carries the instrument, the chart interval (`5`, `60`, `1D`, `30S`, `500T`) and the close of the bar at the instrument's tick size. A BOS has no alert. The drawing switches do not silence an alert: **show entry arrows** off still alerts the signal, and **show structure lines + labels** off still alerts a CHoCH.

CHANNEL	DEFAULT	WHAT ARRIVES
Alerts Log	always	one row per alert
Alert Log Line	on	the same line in the NinjaScript Output window
Alert Sound	off	the file named in **Alert Sound File**: a name inside NinjaTrader's sounds folder or a full path; blank plays `Alert2.wav`
Alert E-mail	off	an e-mail to **E-mail To**, through NinjaTrader's Mail share service (Tools > Options > Share)

The row and the Output line read `buy: bullish ob retest | BUY (bullish OB retest) on MNQ 5 @ 29307.25`. An e-mail has the subject `SMC Algo Warrior | buy: bullish ob retest` and the message as its body.

Test Alerts on Start (off) sends one test through these channels when the indicator goes live, for example `test | SMC Algo Warrior test on MNQ 5 @ 29307.25`. Applying the Indicators dialog recreates the instance, so every OK sends one more test while it is on.

A webhook is not part of this edition: the indicator makes no network call of its own.

The final bar of a session

A signal on a session's final bar appears after the reopen. NinjaTrader closes a bar when the next bar's first tick arrives, so on a closed market that last bar is calculated and drawn only at the first tick after the reopen. Its alert is raised only if the reopen comes within two bar periods plus five seconds of the bar's close; otherwise the arrow prints with no alert.

Using the values in a strategy or the Market Analyzer

Five hidden series are exposed: `BuySignal`, `SellSignal`, `BullishChoch` and `BearishChoch` (1 on the closed bar of the event, 0 otherwise) and `StructureTrend` (1, -1 or 0). Example: `if (SmcAlgoWarrior(...).BuySignal[0] > 0)`. With `OnEachTick` or `OnPriceChange` the bar that just closed is `[1]`.

What it does not do

It places no orders and sends nothing over a network of its own. It draws what the closed bars show; it does not forecast where price goes next.

03

Risk disclosure

Trading involves substantial risk. Past, simulated, and backtested performance is not necessarily indicative of future results.

Futures, foreign currency and options trading contains substantial risk and is not for every investor. An investor could potentially lose all or more than the initial investment. Risk capital is money that can be lost without jeopardizing one's financial security or lifestyle. Only risk capital should be used for trading and only those with sufficient risk capital should consider trading.

SMC Algo Warrior is a technical analysis tool. It draws market structure, order blocks, signals and trade levels computed from closed bars; it does not place, modify or close orders and it gives no trade advice. The entry, stop and target lines are a plan drawn when a signal prints: the indicator does not follow them or report whether they are reached. Nothing in the software or its documentation is a promise of returns, win rates or funded-account success.

NinjaTrader is a registered trademark of NinjaTrader Group, LLC. No NinjaTrader company has any affiliation with the owner, developer, or provider of the products or services described herein, or any interest, ownership or otherwise, in any such product or service, or endorses, recommends or approves any such product or service.