SE Series Screwdrivers

The SE Series Screwdriver is the latest expression of the ARO design philosophy - creating products that truly reflect the needs of their users.

This versatile DC electric screwdriver combines industry-leading torque accuracy and repeatability with unmatched flexibility and serviceability for light duty, precision assembly applications. At the same time, it sets new standards for ergonomics and operator comfort.

The SE Series Screwdriver's unique appearance immediately signals its difference from anything else in its class. The egg-shaped oval grip fits the hand. The soft touch grip surface feels good and maintains a comfortable temperature. All controls are positioned for easy use by right or left-handed operators.

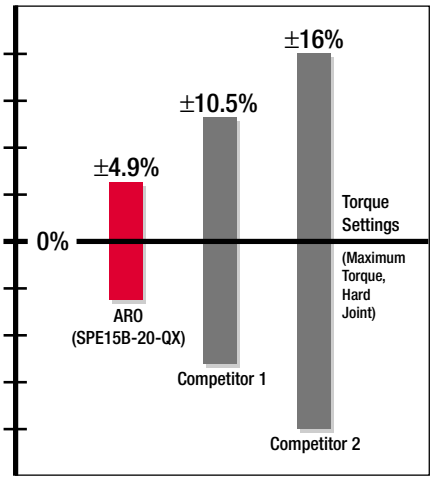
It delivers exceptional performance at lower sound levels while consuming less power than competitive models (see tables below). It also provides the bottom line benefit of low cost of ownership through flexibility, durability, and reliability.

Throughout the development of the SE Series Screwdriver, assembly experts conducted research in varied industries around the world. We took dozens of attributes into account. The tool had to be accurate and easy to maintain. It had to adapt to a host of applications — from installing a hinge on a microwave door to fastening microchips inside a computer.

We went to the assembly lines and talked to workers, engineers, and managers. We listened to their complaints and suggestions. We considered their hands-on experience and their sound ideas.

The SE Series Screwdriver is the answer to their input. In all of its external and internal detail, it represents substance over mere cosmetics. It is the next step for precision assembly applications in performance, ergonomics, and versatility.

Torque Accuracy



Accuracy may vary depending on model and application.

SE Series Screwdrivers

The SE Series Screwdriver is the Best-In-Class hand-held corded electric screwdriver in the .3 to 40 in.-lbs. category. It incorporates more than a dozen innovative features, and is available in two basic types: high torque and low torque.

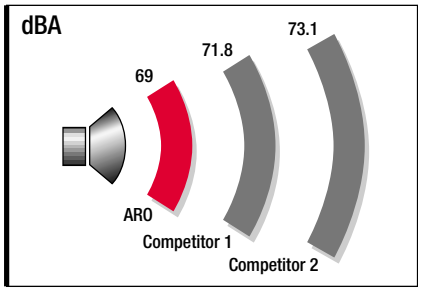
High Torque

The transformerless 115V version is for tasks which require higher torque. This version can be outfitted in three configurations: straight, pistol, and angle - with activation by push-to-start, lever, or trigger. These options, plus accessories for suspending the tool in various positions, provide a solution to virtually every light-assembly application.

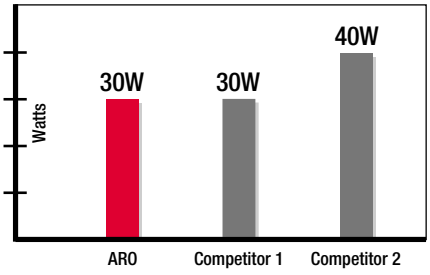
Low Torque with Controller

The 24V version is intended for tasks in which low torque output and speed control are required. The controller serves to activate special features, including soft-start, which allows for the proper positioning of the smallest screws; and run-down speed, which provides application adjustment without changing tools.

Noise Level



Power Consumption



Three Different Configurations

Straight

The basic platform of the SE Series Screwdriver, the straight tool, varies in size according to high or low torque versions. It can be configured in dozens of ways through attachments, accessories and adjustments.

Angle Head (High Torque)

Used with lever models, this configuration allows the SE Series Screwdriver to be exceptionally maneuverable in tight spaces. It is available in three versions: 1/4" female hex drive; 1/4" male hex drive; and with a 1/4" male hex aerospace industry-type head.

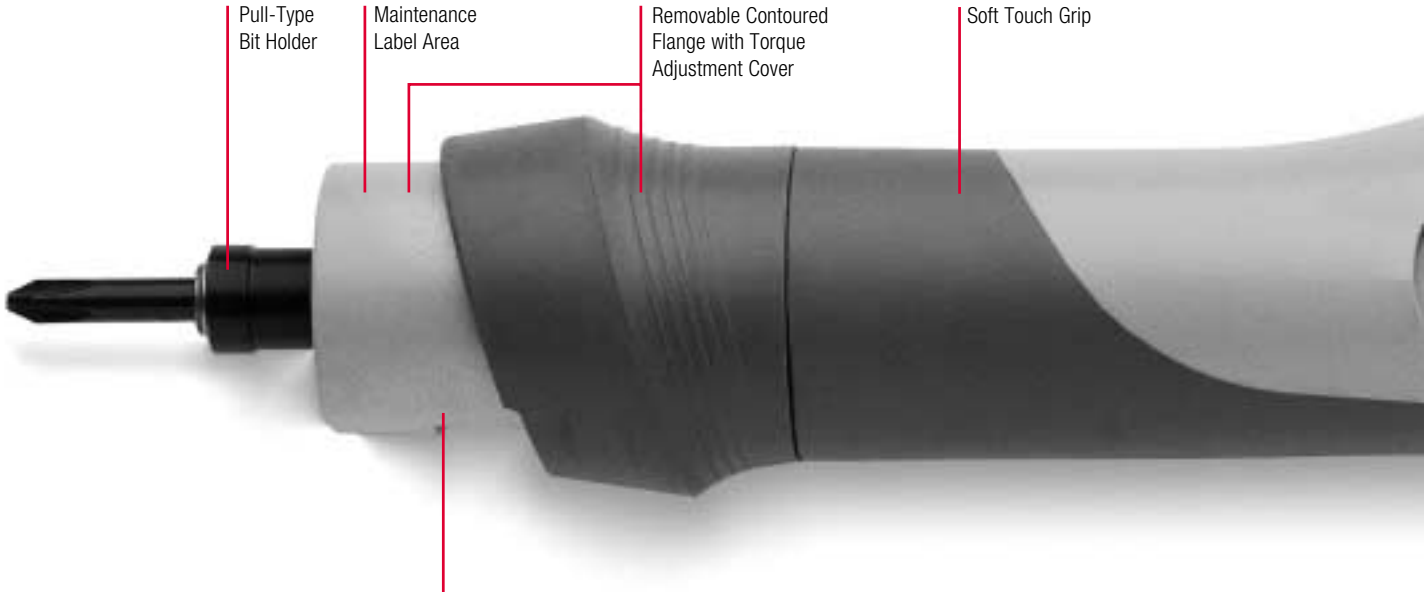
Pistol Grip (High Torque)

The pistol grip can be attached to the lever or push-to-start models, readying the tool instantly for tasks in which a gripping action is required. The pistol attachment has a soft touch surface with a two-finger trigger to evenly distribute grip forces.

SE Series Screwdrivers

External Features

The SE Series Screwdriver represents major advances in design, engineering, and construction...all intended to deliver accuracy, sound ergonomics, and versatility. All versions are based on a common platform as shown below, with supplemental components to address specific needs. A complete assembly line can be outfitted without requiring a huge inventory of spares and variations.

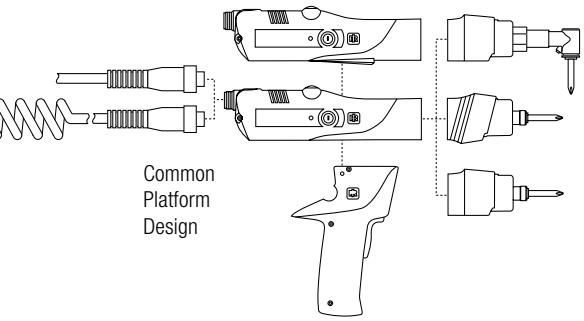


Torque Adjusting Tool (Optional)

Used for torque adjustments without removing the adjustment cover. Perfect for on-the-line torque adjustments by authorized personnel.

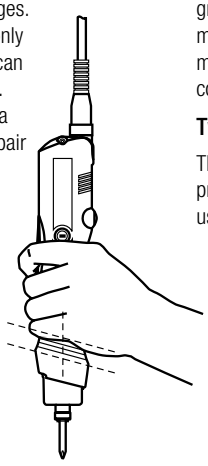
Torque Readout Window

This convenient feature provides instant confirmation of torque output setting.

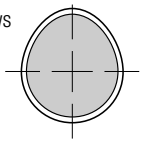


Removable Contoured Flange with Torque Adjustment Cover

The contoured, slanted flange follows the shape of the user's hand and doubles as a torque adjustment cover. It solves the problem of unauthorized torque setting changes. With the SE Series Screwdriver, only a technician using a special tool can reset the torque from the exterior. Yet the cover itself is removable, a convenience when it comes to repair or for torque adjustment by hand.



Soft Touch Grip

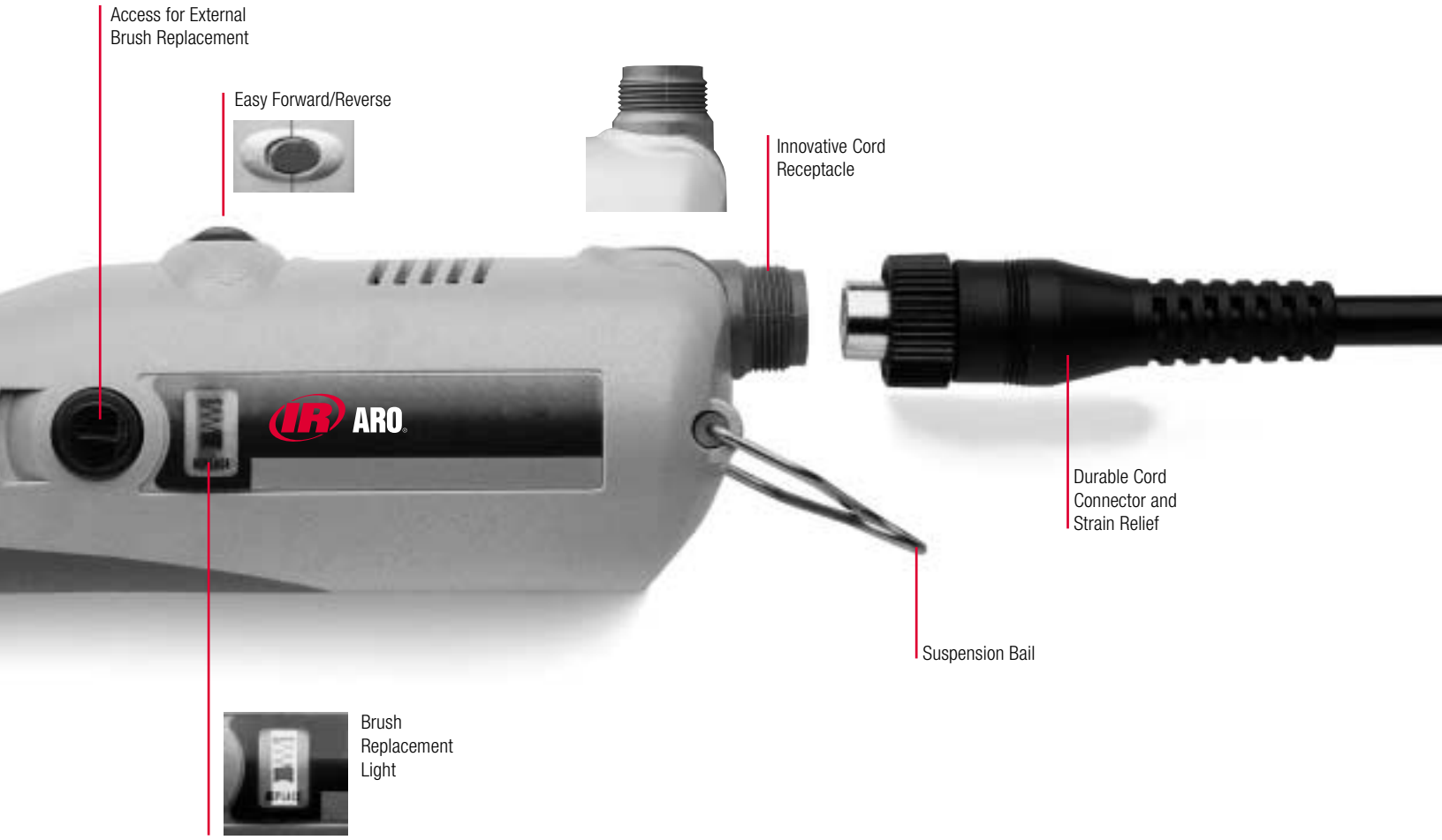


The unique, egg-shaped grip allows users to hold the tool comfortably without excess force. Engineered to fit almost every hand size, the grip is made from a composite material that provides a soft texture and maintains a relatively constant temperature for comfort and control throughout a shift.

Two-Finger Lever

The two-finger lever distributes pressure and provides notable ergonomic benefits in continuous use applications.

SE Series Screwdrivers



Brush Replacement Light

The brush replacement light illuminates while the tool is rotating to indicate service required at the next shift, promoting good tool maintenance.

Easy Forward/Reverse

Only one hand is needed to change direction. The forward/reverse toggle is easily accessible, activated smoothly by either the left or right hand. Competitive models require two-handed changes in direction.

Innovative Cord Connector

Easy Removal: The electric power cord, available in a straight or coiled version, is easily detached from the tool by loosening the threaded retainer.

Dual Positioning: The cord can be attached either at the top or the side. This means that in whatever position the tool is being used, the cord stays out of the way of the operator and the work.

Controller For Low Torque Models

Variable Speed Adjustment

Adapts the tool to different applications without having to change models.

Variable Soft Start

Makes positioning of small screws easy.

Signal Output

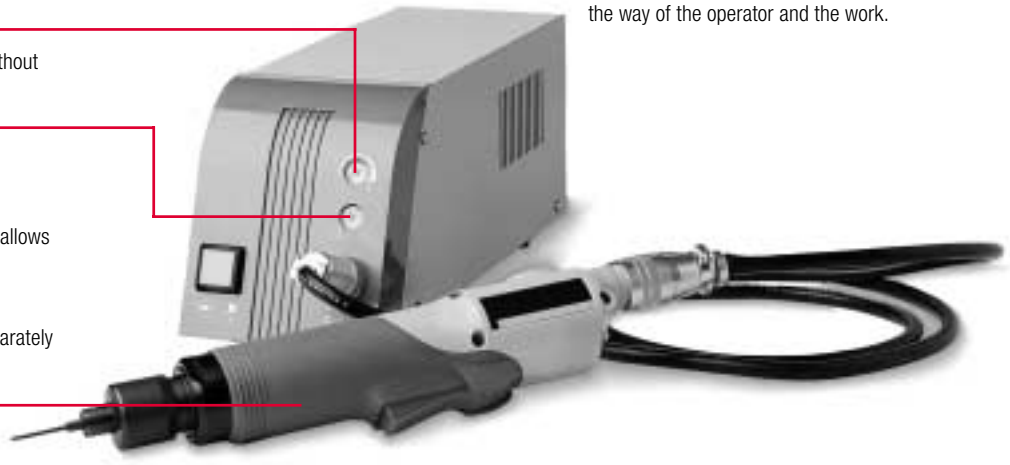
An optional counter can be attached. This allows for monitoring of group fastening.

Mounting Holes

A mounting bracket can be purchased separately for fixturing the controller.

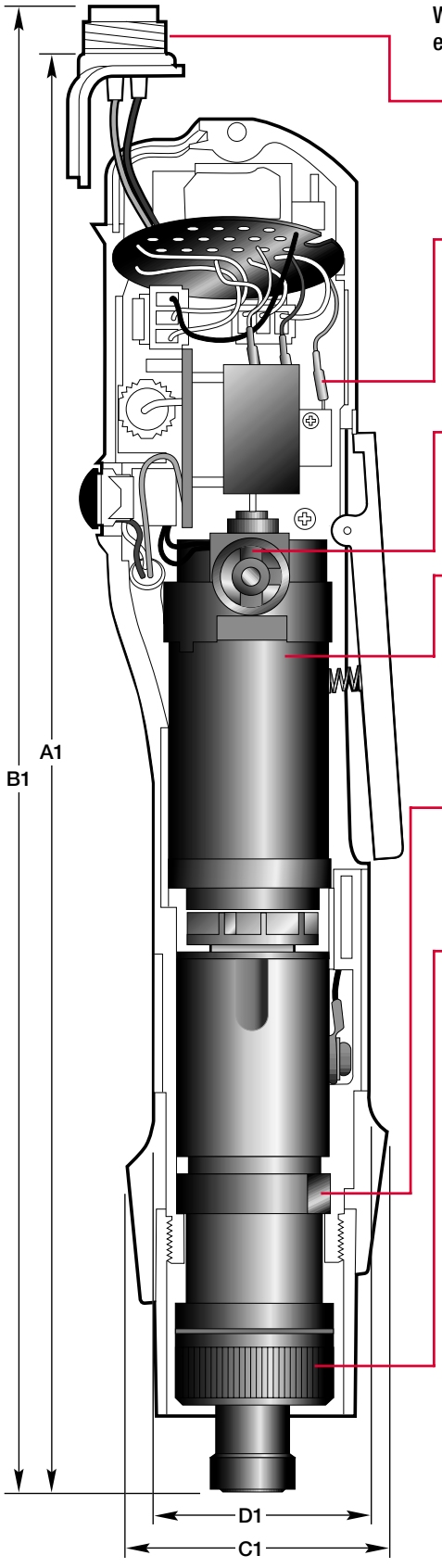
Soft Touch and Small Size

A perfect match for delicate operations.



SE Series Screwdrivers

Internal Features



With easy, single-fastener access to the interior, the SE Series Screwdriver has been engineered for fast and simple maintenance.

Cord Receptacle
Cord orientation can easily be changed by rotating the receptacle to top or side position while the tool is open.

Quick Connectors
It is easy to make electronic repairs, as the controller is replaced by unplugging its quick connectors. On competitive models, it is necessary to cut and then resolder up to eight wires.

Easy Brush Replacement
Brush wear and replacement are signalled by the convenient external indicator light. Brushes can easily be replaced without opening the tool.

DC Motor
Provides unmatched durability and performance. Duty cycles vary depending on the application.

General Rating:
- 0.8 sec. on, 3.2 sec. off
- 0.5 sec. on, 3.5 sec. off (2000 and 1200 rpm models only)

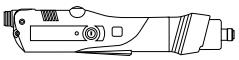
Clutch Assembly
Automatic shut-off clutch provides accuracy and precision. One clutch design is common to all high torque models.

Torque Adjuster
The internal adjuster allows for a wide range of torque settings and speeds, tailoring the tool for virtually any light-assembly application.

A1 = Length of tool with cord receptacle in side position.
B1 = Length of tool with cord receptacle in top position.
C1 = Flange Diameter
Slanted Flange: 52mm
Straight Flange: 46mm
D1 = Grip Size = 39mm x 42mm

Model Identification

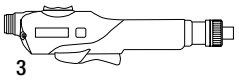
High Torque
- Power: 115V AC
- Cable Length: 8 ft. Straight
- Sound: 69 dBA
- Reversible: Yes



S P E 15 B - 20 - Q

- **Tool**: S = Screwdriver
- **Type**: E = Electric
- **Configuration**: L = Lever Start; P = Push-To-Start; T = Trigger Start
- **Torque Capacity (max. approx.)**: 15 = 15 in.-lbs.; 26 = 26 in.-lbs.; 40 = 40 in.-lbs.
- **Tool Generation**: B
- **Free Speed (RPM)**: 03 = 300; 07 = 700; 10 = 1,000; 12 = 1,200; 20 = 2,000
- **Spindle Option**: Q = 1/4" Hex Quick-Change; 1S5= Angle; 2S3= Angle; 2S5= Angle

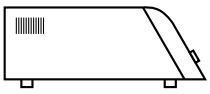
Low Torque (Requires Controller)
- Power: 24V DC From Controller
- Cable Length: 5 ft. Straight
- Sound: 65 dBA
- Reversible: Yes



S L E 01 A - 09 - Q - C

- **Tool**: S = Screwdriver
- **Type**: E = Electric
- **Configuration**: L = Lever Start
- **Torque Capacity (max. approx.)**: 01 = 1 in.-lbs.; 04 = 4 in.-lbs.; 10 = 10 in.-lbs.
- **Tool Generation**: A
- **Free Speed (RPM)**: 07 = 700; 09 = 900; 10 = 1,000
- **Spindle Option**: Q = 1/4" Hex Quick-Change; W= .16 Hex Quick-Change
- **Clean Room Certification**: C = Class 100

Controller (Used With Low Torque Models)
- Power: 115V AC
- Cable Length: 9.5 ft. Straight
- Speed Control: Yes – Variable
- Soft Start: Yes – Variable



SEC 24 N

- **Control Base**: SEC
- **Tool Voltage**: 24 = 24V
- **Source Voltage**: N = 115V

Accessories
See Pages 38-39