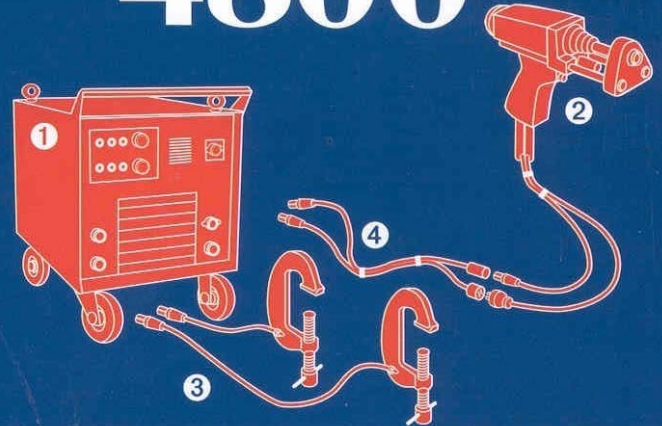




# Nelson® Model 101 Series 4800



## System Configuration

Item	Description	Part Number
1	Power/control unit 230/460/575v	51-41-42
1B	Power/control unit 220/380/415/440v	51-42-11
2	NS 40 Welding Gun	751-585-500
3	15 ft. Ground Cable and Clamp (2)	720-070-002
4	25 ft. Combination Cable	722-000-058

### Options

NS 40 Short Cycle Welding Gun	751-585-570
Steel Tranquil-Arc® (NS 40 only)	512-241-000
Aluminum Tranquil-Arc Kit (NS 40 only)	512-241-100

## Recommended Settings—Drawn Arc

Stud Dia.	Weld Base Dia.	Time/Sec.	Current/Amps
3/16" (5mm)	0.187	0.15	300
1/4" (6mm)	0.250	0.17	425
5/16" (8mm)	0.312	0.25	500
3/8" (10mm)	0.375	0.33	550
1/2" (13mm)	0.500	0.55	800
5/8" (16mm)	0.625	0.67	1200

## Duty Cycle

Rated at continuous operation

5/8" (16mm)	6 per minute
1/2" (13mm)	10 per minute
3/8" (10mm)	Unlimited

## Features & Benefits

- Operates from 3 phase power for a smoother, more stable arc.
- Closed loop circuitry regulates power output to adjust for effects of cable heating and incoming power fluctuations.
- Infinitely adjustable time and current controls allow for precise weld adjustments.
- High duty cycle rating makes it an excellent choice for use with high speed automated equipment.
- By activating the "Short Cycle" feature unit can weld to thin gauge materials without the use of ferrules.
- Other important features include LED's, chuck saver circuit, thermal protection and cooling fan, and wheel set with and lifting eyes.



NS 40  
Standard Duty Gun



NS 40 SC  
Short Cycle Gun

## Specifications

### Power Control Unit

Transformer Rating	2400 amps
Stud Range	1/8"-5/8" (3mm-16mm)
Input voltage	230/460/575v, 50/60hz 220/380/415/440v, 50/60hz
Fusing	100 amp @ 230v 60 amp @ 460v & 575v
Timing Control	.01 - 1.0 seconds, stepless
Regulated Output	100 - 1400 amps stepless
Case Dim.	26-1/2" H x 20" W x 29" D (673mm x 508mm x 736mm)
Weight	475 lbs. (215kg)

### Guns

#### Standard Duty Drawn Arc—

NS 40, two wire, 751-585-500

#### Short Cycle—

NS 40 SC, two wire, 751-585-570

	NS 40	NS 40 SC
Gun Capacity	5/8" (16mm)	3/8" (10mm)
Length	7-1/2" (190mm)	7-1/2" (190mm)
Weight w/o cables	3 lbs. 1 oz.(1.4kg)	3 lbs. 8 oz.(1.6kg)
Weight w/working weight of cables	4 lbs. 10 oz.(2.1kg)	5 lbs. 4 oz.(2.4kg)