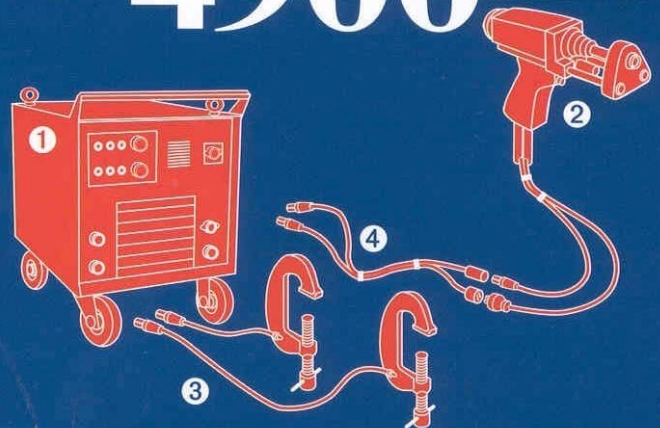




# Nelson® Model 100 Series 4900



## System Configuration

Item	Description	Part Number
1	Power/control unit 230/460/575v	750-586-005
1B	Power/control unit 220/380/415v	750-586-010
2	NS 20 A HD Welding Gun	751-535-500
3	25 ft. Ground Cable and Clamp 4/0	720-447-010
4	50 ft. Combination Cable 4/0	722-000-125

## Options

NS 40 Standard Duty Gun	751-585-500
25 ft. Combination Cable #1	722-000-125
Steel Tranquil-Arc® (NS 40)	512-241-000
Aluminum Tranquil-Arc Kit (NS 40)	512-241-100
NS 40 SC Welding Gun	751-585-570

## Duty Cycle

Rated at continuous operation

7/8" (22mm)	3 per minute
3/4" (19mm)	4 per minute
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.
- 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 lifting eyes.

## Specifications

Power Control Unit	
Transformer Rating	2350 amps
Stud Range	1/8"–7/8" (3mm–22mm)
Input voltage	230/460/575v, 50/60hz 220/380/415v, 50/60hz
Fusing	100 amp @ 230v 60 amp @ 460v & 575v
Timing Control	.01–1.0 seconds, stepless
Regulated Output	100–2100 amps stepless
Case Dim.	20-1/2" H x 29-1/2" W x 30" D (520mm x 750mm x 770mm)
Weight	546 lbs.(248kg)

## Guns

<b>Standard Duty Drawn Arc—</b>
NS 40, two wire, 751-585-500
<b>Short Cycle—</b>
NS 40 SC, two wire, 751-585-570
<b>Heavy Duty—</b>
NS 20 A HD, two wire, 751-535-500

	NS 40	NS 40 SC	NS 20 A HD
Gun Capacity	5/8" (16mm)	3/8" (10mm)	1" (25mm)
Length	7-1/2" (190mm)	7-1/2" (190mm)	13" (330mm)
Weight w/o cables	3 lbs. 1 oz.(1.4kg)	3 lbs. 8 oz.(1.6kg)	7 lbs. 6 oz.(3.4kg)
Weight w/working weight of cable	4 lbs. 10 oz.(2.1kg)	5 lbs. 4 oz.(2.4kg)	10 lbs.8 oz.(4.7kg)



NS 40  
Standard Duty Gun



NS 20 A HD  
Heavy Duty Gun



NS 40 SC  
Short Cycle Gun