



## NCD+ 1000 and NCD+ 1600

### Efficient Switched-Mode Power Supply Topology and Digital Precision Technology

A new-generation stud welding unit for arc welding with and without tip ignition. Ideal for welding steel studs (M3-M8, max. weld diameter 10.5 mm), brass (M3-M8) and aluminum (M3-M6). Built on the basis of a 30 KHz switched-mode power supply and equipped with a high-capacity RISC processor, this device offers the same power as conventional welders at only half the weight and with reduced idle power consumption. This is the ideal tool for welding tip ignition studs up to M8 using a contact or gap welding gun.

#### Other features

- **Ultra Portable.** Thanks to its light weight and compact dimensions.
- **Power saving.** 40% lower power consumption compared with conventional welding units.
- **Color-LCD.** Straightforward graphical interface for operation and maintenance.
- **Stud holder protection.** A three-point mount prevents unintentional damage.
- **Stud Expert™.** Preset weld parameters with a database based on material and thread size.
- **Adjustable columns.** Straightforward adaptation to different stud lengths.
- **Integrated process control.** Display of weld current, weld time, arc voltage and weld power.

#### Applications

- For thin sheet metal with minimal thermal impact, without deformation or imprint on the rear.
- For materials with high thermal conductivity such as copper and aluminum alloys.

# NCD+

## Technical Data **NCD+ 1000** and **NCD+ 1600**

NCD+

<b>Welding method:</b>	Tip ignition Contact and gap welding	<b>Mains connection:</b>	230 V, 5A, 50/60 Hz Can be converted to 120V, 10A, 50/60 Hz
<b>Charging power:</b>	1080 Ws <b>NCD+ 1000</b> 1620 Ws <b>NCD+ 1600</b>	<b>Welding guns:</b>	NCD+ contact welding gun NCD+ gap welding gun
<b>Charging voltage:</b>	70-200V (infinitely adjustable)	<b>System of protection:</b>	IP 23
<b>Charge capacity:</b>	54000µF <b>NCD+ 1000</b> 81000µF <b>NCD+ 1600</b>	<b>Welding time:</b>	1-3 ms
<b>Housing dimensions:</b>	320 x 310 x 220 mm	<b>Power source:</b>	Capacitor battery
<b>Welding rate per min.:</b>	18 at 100V, 8 at 200V <b>NCD+ 1000</b> 14 at 100V, 6 at 200V <b>NCD+ 1600</b>	<b>Power consumption idle:</b>	20W or less
<b>Weight:</b>	7,7kg <b>NCD+ 1000</b> 8,6kg <b>NCD+ 1600</b>	<b>Efficiency:</b>	80%
		<b>Display:</b>	Full color with LED

### Max Welding Ø

<b>NCD+ 1000</b>	<b>NCD+ 1600</b>
Alu / M6	Alu / M6
Steel / M6	Steel / M8
1.4301 / M6	1.4301 / M8

### Germany

(European Headquarters)



Nelson

Bolzschweiß-Technik GmbH & Co. KG

Postfach 4020, D-58272 Gevelsberg  
Flurstraße 7-19, D-58285 Gevelsberg  
Telefon: 02332.661-0  
Telefax: 02332.661-135  
eMail: info@nelson-europe.de  
www.nelson-europe.de

### Great Britain

Nelson

Stud Welding UK

47-49, Edison Road  
Rabans Lane Industrial Estate  
Aylesbury, Bucks, HP19 8TE  
United Kingdom  
Telephone: 01296.433500  
Telefax: 01296.487930

### France

Nelson

Soudage de Goujons France S.A.S

Z.I. du chemin Vert  
8, rue de l'Angoumois  
F-95100 Argenteuil  
France  
Téléphone: 01.3411-9400  
Téléfax: 01.3411-2033

### Italia

Nelson

Saldatura Perni S.r.l.

Via Miraflores 20  
I-10042 Nichelino/Torino  
Italia

Telefono: 011.6059238  
Telefax: 011.6050015

### USA Nelson Stud Welding, Inc.

7900 West Ridge Road · P.O. Box 1019 · Elyria · OH 44036-2019, USA · Phone: 440.329-0400 · Telefax: 440.329-0597 · www.nelsonstud.com