

# ARD 630 D

## Double Twist Backtwist Pay-off

With two pay-off units



NIEHOFF – worldwide  
most advanced technology for  
the wire and cable industry

## High production reliability and innovative product development

- freely programmable control system (PLC) with touchscreen user interface.
- spool clamping: safely achieved using a spring loaded pintle with pneumatic release
- easy insertion of the product due to easy accessibility in the spool carrier
- dancer-controlled spool drive
- all drives feature three-phase AC drive technology and digital technology, which offer precise synchronization and reduced maintenance requirements by virtue of contactless data transfer
- maximum production reliability and production quality (overturn monitoring, force measurement and wire break sensors on the spool carrier, monitoring of the bearing temperature)
- no foundations required – unit is installed on vibration damping elements
- optimum use of space due to machine availability in left or right-hand version
- rotor bow made of carbon-fibre-reinforced plastic (CFRP) with exchangeable sliding band and optimized guidance of the product
- use of a single bow system for reduced energy consumption and reduced noise emission
- highly user-friendly due to infinitely variable adjustment of the production parameters via the operator panel
- designed for backtwisting of single conductors, pairs and quads for highest quality demands
- higher stranding speed due to the NIEHOFF triple twist stranding



**NIEHOFF** – your partner with a worldwide service and sales network.  
Our experienced customer support team is always on hand.

## Technical data

max. production speed (m/min):	300 (985 fpm)
production range	
lay length, infinitely variable (mm):	10 ... 120
max. no. of twists, infinitely variable (twists/min):	3200
wire range	
product dia. (mm):	3 (8 ½ AWG)
product dia. – triple twist (mm):	1.75 (13 ½ AWG)
individual conductor, solid:	AWG 30 ... AWG 20
individual conductor, flexible:	AWG 26 ... AWG 15
max. twist aperture (mm):	5
(with NIEHOFF triple twist stranding)	
backtwist, adjustable (%):	0 ... 100
spool dimensions	
max. spool flange dia. (mm):	630
total length (mm):	475
drive for	
rotor bow:	standard AC motor
winding spool:	AC servo motor
sound pressure level (dB A):	80
(acc. to EN ISO 3743-2 and DIN 45635-1)	
machine dimensions (W x D x H):	3.6 x 1.65 x 3.2
weight (kg):	approx. 4800

(We reserve the right to modify technical specifications according to technical improvement and advances)

MASCHINENFABRIK NIEHOFF GmbH & Co. KG  
Fürther Str. 30  
91126 Schwabach, Germany  
Telephone: +49 9122 977-0  
Telefax: +49 9122 977-155  
E-Mail: info@niehoff.de  
Internet: www.niehoff.de

MASCHINENFABRIK NIEHOFF GmbH & Co. KG  
Schwendener Str. 25  
87616 Marktobersdorf/Leuterschach,  
Germany  
Telephone: +49 8342 7008-0  
Telefax: +49 8342 7008-40

NIEHOFF ENDEX NORTH AMERICA INC.  
1 Mallard Court  
Swedesboro, NJ 08085, USA  
Telephone: +1 856 803 1800  
Telefax: +1 856 467 0584  
E-Mail: sales@niehoffendex.com

MASCHINENFABRIK NIEHOFF GmbH & Co. KG  
Dubai Branch  
DAZFA Free Trade Zone  
P.O. Box 293821  
Dubai, United Arab Emirates  
Telephone: +971 4 2045-153  
Telefax: +971 4 2045-154  
E-Mail: m.dalal@niehoff.de

NIEHOFF-HERBORN MÁQUINAS Ltda.  
CP 84 (Rua Mar Vermelho, 1092)  
06412-140 Barueri, S.P., Brazil  
Telephone: +55 11 4199-3600  
Telefax: +55 11 4199-3624  
E-Mail: info@niehoff.com.br

NIPPON NIEHOFF Co., Ltd.  
Repro Kanda Building  
17, Kanda Tomiyama-Cho  
Tokyo, 101-0043 Japan  
Telephone: +81 3 3257 0911  
Telefax: +81 3 3257 0910

Branch of Maschinenfabrik NIEHOFF  
GmbH & Co. KG in the Russian Federation  
Storozhevaya Ulitsa 4/1  
Moscow, 111020, Russian Federation  
Telephone: +7 495 23055-37, -38  
Telefax: +7 495 23055-39  
E-Mail: info@niehoff.de

MASCHINENFABRIK NIEHOFF GmbH & Co. KG  
Singapore Representative Office  
122 Middle Road, # 04-04 Midlink Plaza  
Singapore 188973, Singapore  
Telephone: +65 6336 9336  
Telefax: +65 6336 4070  
E-Mail: niehoff@pacific.net.sg

MASCHINENFABRIK NIEHOFF GmbH & Co. KG  
Shanghai Representative Office  
Room 2302, Hong Kong Plaza,  
283 Huai Hai Zhong Road  
Shanghai 200021, P.R. China  
Telephone: +86 21 61202800  
Telefax: +86 21 63906192  
E-Mail: info@niehoff.cn

NIEHOFF of INDIA Private Limited  
Plot No. 186-194, Industrial Park, Phase III  
Pashamylaram, Patancheru 502319,  
Medak District, AP, India  
Telephone: +91 8455 224-391, -392, -393  
Telefax: +91 8455 224-394