

INSPIRING TRENCHLESS TECHNOLOGIES



TRACTO-TECHNIK



**INTELLIGENT
AND POWERFUL**

GRUNDODRILL
Fluid-assisted HDD Rigs



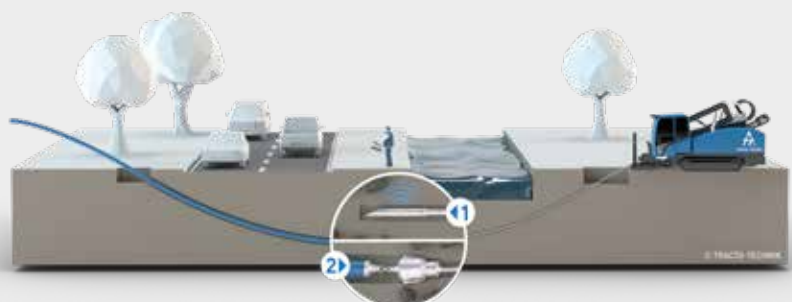


WE KNOW, WHAT REALLY MATTERS

The „moleing technology“ is widely-used in the civil engineering branch. Its share compared to open trenching is ever increasing because the underground installation and renewal of supply and disposal pipes bears major technical and economical advantages.

These advantages are due to excavation and re-instatement work being almost omitted and the short construction times. They show especially when producing property service connections and when crossing much frequented roads.

Trenchless installation protects the environment. That means: no surface disruption, no problems with inhabitants, minimal excavation, less construction machines plus avoidance of traffic jams, diversions and repair work, as well as low emission of noise, CO₂ and fine dust particles.





ADVANTAGES

- 7 powerful machine types
- possible to „rotate“ the rod in the magazine during normal operation
- minimum working width corresponds to transport width of machine
- the slim design allows drilling with minimal clearance to buildings
- high corrosion protection, e.g. due to fully galvanised rod boxes
- the engine hood is made of weather-proof GRP
- the electronics are shock- and vibration-proof
- high manufacturing quality and certified supplier components (motors, pumps etc.)
- highly resilient, fail-safe and service reduced
- high value stability
- wide application range
- compatible with traction gauge
- with bore data logging according to DVGW GW 321
- additional safety: prototype testing (Eurotest) by the trade organisation
- rod magazine with automatic reloading function



**ECONOMICAL
CONSUMPTION**



**LONG
SERVICE LIFE**



PACEMAKER FOR SUCCESS

THE HDD FLEET OF TRACTO-TECHNIK

Along with the fluid-assisted mini drill rigs GRUNDOPIT and GRUNDODRILL^{4X} six further GRUNDODRILL models with the following basic configuration are available:

- Drill rig with tracked undercarriage, stabiliser
- spacious cabin, comfortable seat, joysticks, panel PC with touchscreen*
- fully automatic rod exchange system*
- fully automatic clamp and break-away facility*
- infinitely variable traction force limitation and anti-stick drilling valve
- Anchoring system with drilling fluid collecting tray
- high-capacity Bentonite HP pump on board the drill rig
- Bore data logging according to DVGW GW 321 - data transfer (remote diagnosis via modem)
- Bore automatics to relieve the operator from routine functions, short drilling times, optimal and very gentle pull-back of the rods and output-regulated control of the drilling drive*
- pre-installed for wire-controlled drilling
- fully galvanised rod box

In addition, we can provide the large drilling technology of our partner PRIME DRILLING.

*depending on model



GRUNDODRILL 4X



GRUNDODRILL 11XP



GRUNDODRILL 15XP / 15XPT



GRUNDODRILL 18N



GRUNDODRILL 18ACS



GRUNDODRILL 28Nplus



A WORK PLACE FOR HIGH-TECH PILOTS

COMFORTABLE CABIN IN EVERY DETAIL

The cabin features a heater, optional air conditioning, hinged window, windscreen wipers, heat-absorbing glass, LED rotating beacon, 3 LED headlights, anti-theft device, footboard, radio with CD player, USB connection with hands-free module.

A place where you can enjoy your work, at last.

Depending on model:

- spacious and pivotable
- large panorama view
- ergonomically adjustable operator's seat, with air suspension and seat heating*
- multifunctional joystick control
- functional control via panel PC with touchscreen*
- quick-diagnosis with remote data transfer
- display and log of the drilling data
- display and log of the drilling data
- unique, ultramodern control system with comprehensive diagnostics options



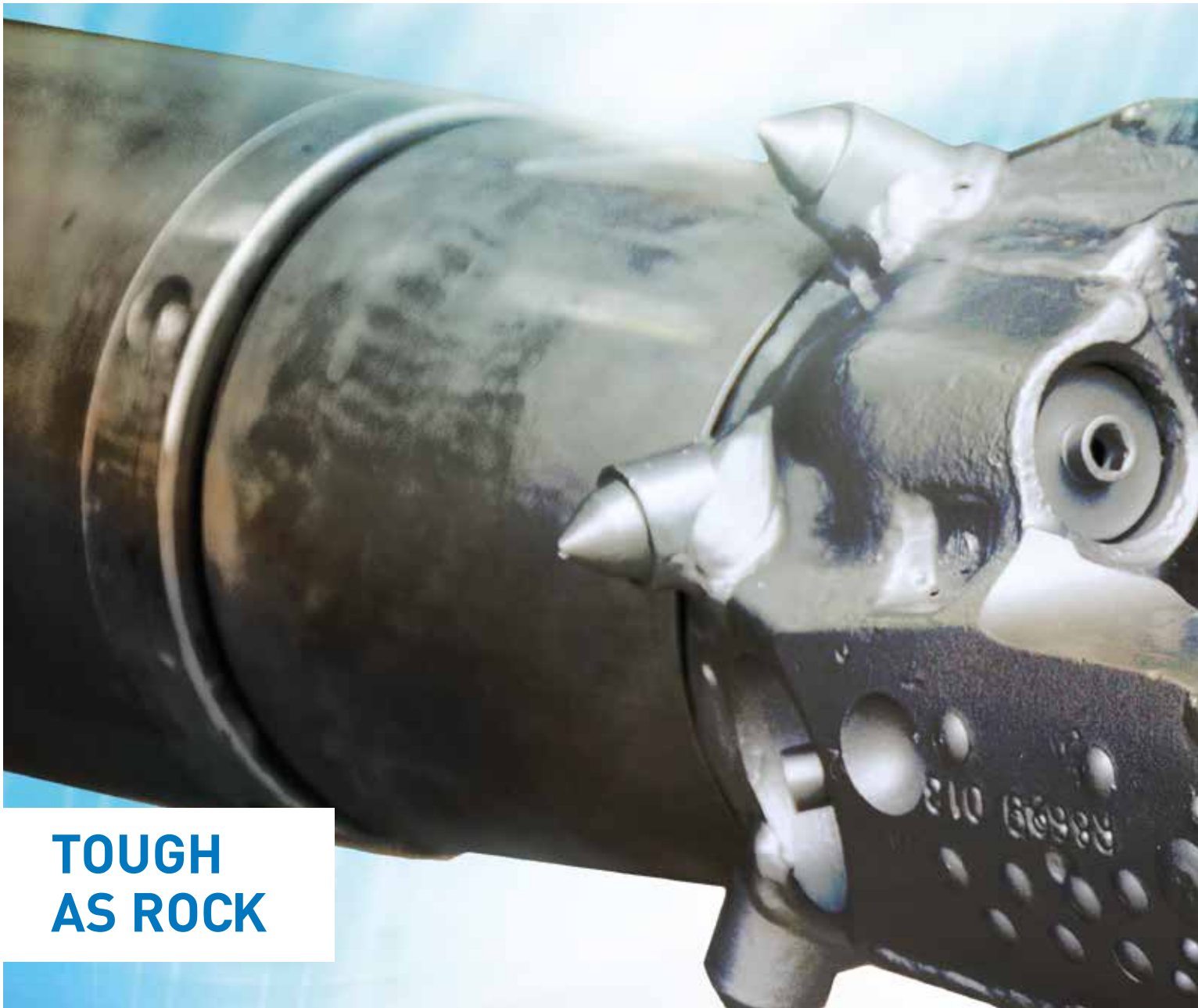
Panel PC with touchscreen



Comfortable cabin



Multifunctional joystick control



TOUGH AS ROCK

ORIGINAL ACCESSORIES FOR CHALLENGING CONSTRUCTION JOBS

Due to the diversity of different soil types there is a wide range of drilling tools to achieve the best drilling progress possible.

TRACTO-TECHNIK offers a wide choice of different drilling tools so you can cope with any job, even bores through solid rock. More on our wide range of drilling equipment at:

www.directional-drilling-accessories.com



Standard drilling equipment
TD61, TD73
and TD82 rods



Rock drilling equipment
ELICON 95
Twin-tube rods



Medium Soil Reamer



Hard Soil Reamer



Hard Soil Rockreamer



Holeopener



FULL SERVICE SUPPORT

MIXING SYSTEMS

First-class drilling fluid technology is an important component of successful drilling. Together with the bore rig and bore tools, TRACTO-TECHNIK drilling fluid technology forms an optimum unit for efficient work, even in difficult soil conditions.

Professional, customised solutions are available to you in the form of numerous options and individual truck trailers.

Please contact us for more information about mixing systems, truck trailers and recycling systems. We are happy to help!



Mixing system MA07



Mixing system MA09



Mixing system MA010



Truck layout



Truck layout

TECHNICAL DATA

Model

Basic equipment



GRUNDODRILL^{4X}

- Kubota diesel engine with 28 kW driving power
- Control station with easy to survey control panel
- 1 multifunctional joystick
- Hydraulic anchoring bore unit swivable to three positions
- Remote control
- Drill rod magazine with 32 drill rods for 48 m
- stabiliser, rubberised steel track undercarriage
- Rack and pinion feed drive

Performance data

L x W x H [mm]
Weight incl. rods [kg]
Rod magazine contents [m]
Inclination angle
Thrust and pullback force [kN]
Max. torque [Nm]
Max. spindle speed [rpm]
Pilot bore Ø [mm]
Drill rods Twin Drive Ø [mm]
Effective rod length [mm]
Drill rod weight [kg]
Upsizing Ø* [mm]
Outer pipe Ø* [mm]
Bore length* [m]
Min. bore radius [m]
Max. driving speed [km/h] 2 stages
Fresh water tank [l]
Super-silenced [dB (A)]
Max. engine output [kW]
HP Bentonite pump [l/min]
Full-body or hand / arm vibration [m/s ²]
Diesel tank [l]

Drill rod type: 4X

3.965 x 1.200 x 1.530
2.140
48
15°
43
1.300
230
80
48/38
1500
9
≤ 250
≤ 160
≤ 100
25
2
-
82,5
28
-
-
42



GRUNDODRILL 11XP

- Cummins motor Tier 4 final, Stage IV for driving and drilling, 119 kW
- Drill rig with rubber track undercarriage, stabilisor
- wireless remote control
- spacious cabin, comfortable seat, joysticks, monochrome display
- automatic bore mode
- fully galvanised rod box
- semi-automatic rod exchange system
- semi-automatic clamp and break-away facility
- Anchoring system with drilling fluid collecting tray
- powerful HP Bentonite pump on board the rig
- Bore data logging – data transfer
- High-pressure cleaner
- Optional: fully automatic system, hammer mechanism, rubberised steel track undercarriage, air conditioning

Drill rod type: TD61

6.050 (6.250*) x 1.700 x 2.400

7.900

132

11° - 20°

105

3.300

200

100

62/54

3.000

26

≤ 400

≤ 355

≤ 250

33 NEW

2 / 4

100

66

119

115 (180)

< 0,5

120



GRUNDODRILL 15XP

- Cummins motor Tier 4 final, Stage IV for driving and drilling, 119 kW
- Drill rig with rubber track undercarriage, stabilisor
- wireless remote control
- spacious cabin, comfortable seat, joysticks, panel PC with touchscreen
- automatic bore mode
- fully galvanised rod box
- semi-automatic rod exchange system
- semi-automatic clamp and break-away facility
- Anchoring system with drilling fluid collecting tray
- powerful HP Bentonite pump on board the rig
- Bore data logging – data transfer
- High-pressure cleaner
- Optional: fully automatic system, hammer mechanism, rubberised steel track undercarriage, air conditioning

Drill rod type: TD61

6.350 (6.500*) x 1.800 x 2.400

10.035

210

11°-20°

147

4.500

190

100

62/54

3.000

26

≤ 500

≤ 400

≤ 350

42

2 / 4

100

67

119

200

< 0,5

120



GRUNDODRILL 15XPT

- Cummins motor Tier 4 final, Stage IV for driving and drilling, 119 kW
- Drill rig with rubber track undercarriage, stabilisor
- wireless remote control
- spacious cabin, comfortable seat, joysticks, panel PC with touchscreen
- automatic bore mode
- fully galvanised rod box
- semi-automatic rod exchange system
- semi-automatic clamp and break-away facility
- Anchoring system with drilling fluid collecting tray
- powerful HP Bentonite pump on board the rig
- Bore data logging – data transfer
- High-pressure cleaner
- Optional: fully automatic system, hammer mechanism, rubberised steel track undercarriage, air conditioning

Drill rod type: TD73

6.350 (6.500*) x 1.800 x 2.400

10.780

180

11°-20°

160

6.500

190

115

73/63

3.000

42

≤ 500

≤ 400

≤ 400

45 NEW

2 / 4

100

67

119

225 (320)

< 0,5

120

* with fully automatic option

TECHNICAL DATA

Model

Basic equipment

Performance data

L x W x H [mm]
Weight incl. rods [kg]
Rod magazine contents [m]
Inclination angle
Thrust and pullback force [kN]
Max. torque [Nm]
Max. spindle speed [rpm]
Pilot bore Ø [mm]
Drill rods Twin Drive Ø [mm]
Effective rod length [mm]
Drill rod weight [kg]
Upsizing Ø* [mm]
Outer pipe Ø* [mm]
Bore length* [m]
Min. bore radius [m]
Max. driving speed [km/h] 2 stages
Fresh water tank [l]
Super-silenced [dB (A)]
Max. engine output [kW]
HP Bentonite pump [l/min]
Full-body or hand / arm vibration [m/s ²]
Diesel tank [l]



GRUNDODRILL 18N

- Cummins motor Tier 4 final, Stage IV for driving and drilling, 119 kW
- Drill rig with rubber track undercarriage, stabilisers
- wireless remote control
- spacious cabin, comfortable seat, joysticks, panel PC with touchscreen, air conditioning
- automatic bore mode
- fully automatic rod exchange system
- fully automatic clamp and break-away facility
- Anchoring system with drilling fluid collecting tray
- powerful HP Bentonite pump on board the rig
- Bore data logging – data transfer
- High-pressure cleaner

Drill rod type: TD73 · TD82

6.700 x 2.300 x 2.570
14.350
225 · 210
12°–30°
180 · 200 (180: 18ACS)
7.500 · 10.000
200
115 · 140/170
73/63 · 82
3.000
42 · 46
≤ 600
≤ 500
≤ 400
55 · 60 NEW
3,3/5
130
66
119
320 (400)
< 0,5
180



GRUNDODRILL 18ACS

- Cummins motor Tier 4 final, Stage IV for driving and drilling, 119 kW
- infinitely variable torque adjustment rotation for maximum drilling capacity across the entire speed range
- Drill rig with rubber track undercarriage, stabilisers
- wireless remote control
- spacious cabin, comfortable seat, joysticks, panel PC with touchscreen, air conditioning
- automatic bore mode
- fully automatic rod exchange system
- fully automatic clamp and break-away facility
- Anchoring system with drilling fluid collecting tray
- powerful HP Bentonite pump on board the rig
- Bore data logging – data transfer
- High-pressure cleaner
- optional: with drill rod type TD73 or TD82 (technical data see GRUNDODRILL 18N)

Drill rod type: Elicon 95 (rock)

6.700 x 2.300 x 2.570

15.200

120

12°–30°

180

7.500

200

165

98/95

3.000

80

≤ 600

≤ 500

≤ 400

55

3,3/5

130

66

119

320 (400)

< 0,5

180



GRUNDODRILL 28Nplus

- Cummins motor Tier 4 final, Stage IV for driving and drilling, 224 kW
- infinitely variable torque adjustment rotation for maximum drilling capacity across the entire speed range
- Drill rig with rubber track undercarriage, stabilisers
- wireless remote control
- spacious cabin, comfortable seat, joysticks, panel PC with touchscreen, air conditioning
- automatic bore mode
- fully galvanised rod box
- fully automatic rod exchange system
- fully automatic clamp and break-away facility
- Anchoring system
- powerful HP Bentonite pump on board the rig
- Bore data logging – data transfer
- High-pressure cleaner

Drill rod type: TD82

7.520 x 2.530 x 2.900

18.980

288

12°–30°

280

11.000

180

140/170

82

3.000

46

≤ 900

≤ 710

≤ 500

75

3,3/5

155

76

224

650

< 0,5

250

SUPPORT FOR HDD DRILLING

TAKE ADVANTAGE OF OUR SERVICE FEATURES

We offer a multitude of services along with our products.



SERVICE HOTLINE

Do you have any questions on our products and services?
Please call us: **+49 2723 808-0**



INTERNET

Visit our website and catch up on the different products and applications.
www.TRACTO-TECHNIK.com



YOUTUBE CHANNEL

Get inspired by our application videos:
www.youtube.com/TractoTV



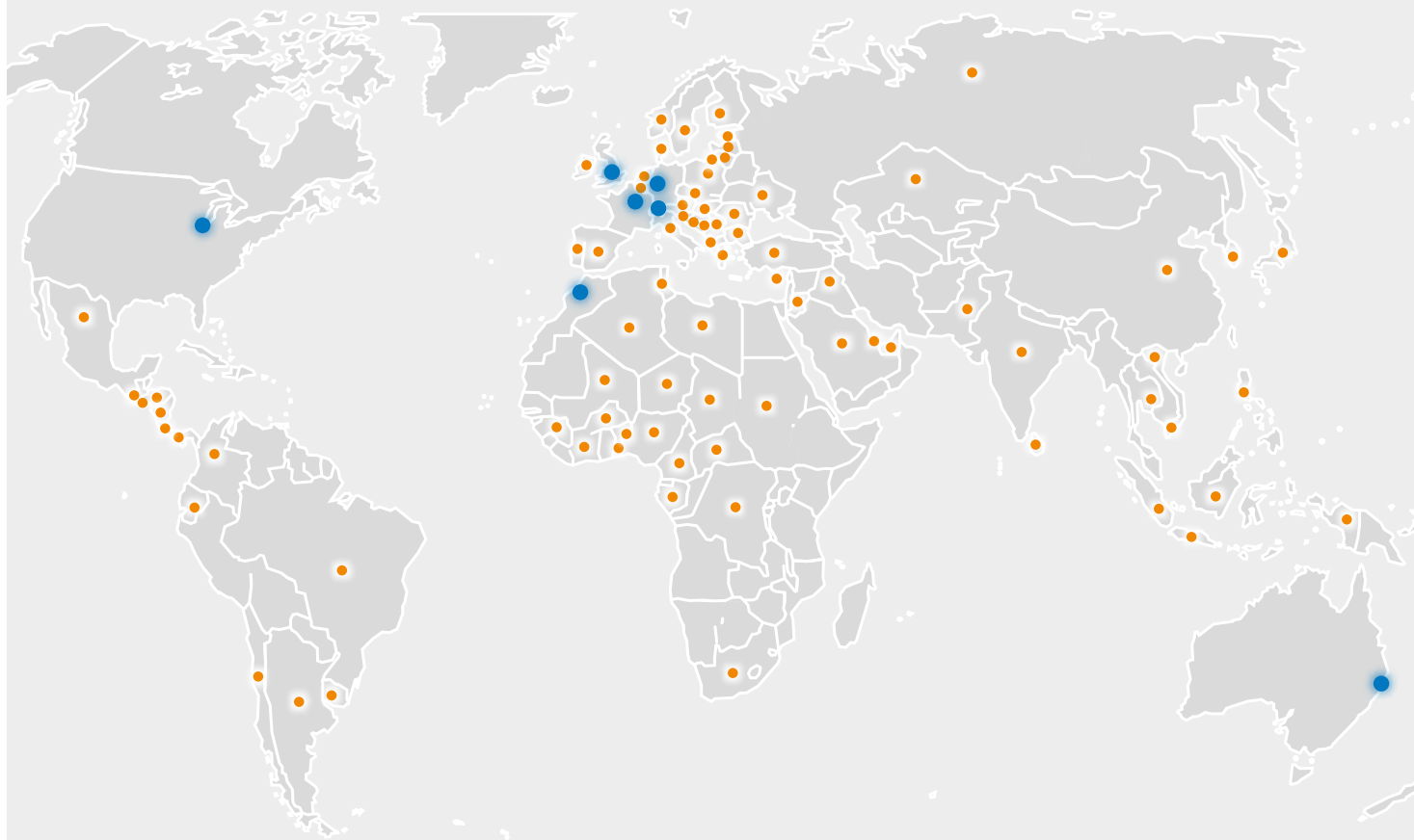
TRAINING

We provide a diversified training programme which is attended by more than 3.000 participants annually.

www.TRACTO-TECHNIK.com

TRACTO-TECHNIK

worldwide



Germany
TRACTO-TECHNIK GmbH & Co. KG
TT Headquarters
 Paul-Schmidt-Straße 2
 57368 Lennestadt
 Tel: +49 2723 808-0 · Fax: -180
 info@tracto-technik.com
 www.TRACTO-TECHNIK.com

Switzerland
TRACTO-TECHNIK Schweiz AG
 Ratihard 3
 8253 Diessenhofen
 Tel: +41 79 8203897
 info@tracto-technik.ch
 www.TRACTO-TECHNIK.ch

United Kingdom
TRACTO-TECHNIK UK Ltd
 10 Windsor Road
 Bedford MK 42 9SU
 Tel: +44 1234 342566
 Fax: +44 1234 352184
 info@tt-uk.com
 www.TRACTO-TECHNIK.co.uk

France
TRACTO-TECHNIK France S.a.r.l.
 1/3 Rue de la Prairie
 F-77700 Bailly Romainvilliers
 Tél: +33 1 60 42 49 40
 Fax: +33 1 60 42 49 43
 info@tracto-technik.fr
 www.TRACTO-TECHNIK.fr

Presented by your TT partner:

USA
TT TECHNOLOGIES Inc.
 2020 East New York Street
 Aurora, IL. 60502
 Tel: +1 630 851 8200
 Fax: +1 630 851 8299
 info@tttechnologies.com
 www.TTTECHNOLOGIES.com

Australia
TRACTO-TECHNIK Australia Pty Ltd.
 6 Devlan Street
 Mansfield, Qld 4122
 Tel: +61 734205455
 Fax: +61 734205855
 info@tracto-technik.com.au
 www.TRACTO-TECHNIK.com.au

Morocco
TRACTO-TECHNIK Afrique S.a.r.l.
 Route de Tamesna 4022
 Poste 2044, 12220 Tamesna
 Tel.: +212 53740 13 63/64
 Fax: +212 53740 13 65
 info@tracto-technik.ma
 www.TRACTO-TECHNIK.ma

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