

CableJet
Cable jetting Machine for cables
Between 9 and 18mm Ø



CLYDESDALE
Powering the Future

Technical Data Sheet

1. General

The CableJet is designed for placing telecommunication cables (optical fibre, coaxial or multipair) in preinstalled ducts. The CableJet operates according to the “Jetting” or “Blowing” method that combines a mechanical pushing force and a high speed air stream along the cable surface. Please consult us for any application not indicated above.

“Jetting” offers following advantages:

- Pushing Force load are spread over the whole length of the cable, virtually eliminating cable damage experienced when pulling methods are used.
- Bends or undulations have a low influence on the jetting performance.
- Safe operation for personnel and equipment.
- Easy to operate.
- Reduced infrastructure and manpower costs.
- High daily production.

This results in, and allows the operator to:

- install very long single sections of cable up to 3000 meters
- place cables into their final location eliminating joints and reducing costs
- direct bury the protection duct into the ground without worrying about the route
- pull several sub-ducts simultaneously, without concern about twisting in the main duct
- secure a quasi constant daily installation capacity whatever the complexity of the duct run
- remove a cable from a duct and replace it by another one in one operation

2. Field of application

The CableJet operates within following recommended conditions:

- Cables: diameter between **9** and **18***mm
The adaptation to different cable diameters is secured by a set of interchangeable cable inserts suitable for following cable diameters; Ø 9-11, 11-12.5, 12.5-14, 14-15.5 and 15.5-18 mm.
- Ducts: outer diameter between **25** and **63** mm
The proper connection to the duct is secured by selecting the appropriate duct insert from the set of inserts having following dimensions; 25, 32, 34, 37, 40, 42, 48, 50, 60 and 63 mm.

(*Cables having a diameter from 6 to 9 mm can be placed with CABLEJET when it is equipped with an optional set of special drive wheels

The duct and cable inserts for the air inlet chamber are red and grey coloured, anodized, aluminium alloy components.

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3. Description

The CableJet includes the following sub-assemblies:

3.1. The air inlet chamber

Fitted with a 1½" round threaded coupler for connecting the compressed air supply hose and a 1½" ball valve;

3.2. The pusher (cable feeder)

The cable is pushed by a feeder, fitted with 8 notched wheels which are assembled in pairs, driven by a pneumatic motor. Each notched wheel is exerting pressure on the cable Jacket by means of springs; it pushes the cable through friction. Sets of spacers are provided, thus preventing any damaging of the cable sheath in case of slippage of the drive wheels.

Characteristics of the pusher:

Mono directional

Adjustable speed **0-80** m/min

Recommended speed **60** m/min

Maximum pushing force at 6 bar air pressure on the motors **300** N

Approx. air consumption **0.5** m³/min

Linear pressure on cable **10** daN/cm

The speed of the pusher is controlled by a pneumatic control valve.

3.3. The air exhaust chamber

The air exhaust chamber at the cable entry side of the CableJet has the following role:

Either to hold an exhaust port for connection to a flexible hose for the evacuation of upstream air containing lubricant and dust when the CableJet operates in cascading mode**

Or to hold the speed and distance counter when the CableJet operates in single mode, or as the first unit in the cascading mode**

**The duct inserts, used for the cascading mode, are blue and grey coloured, anodized, aluminium alloy parts.

3.4. Controls and air conditioning unit includes:

Water separator

Gravity lubricator with oil tank and level gauge

Control valve for adjusting the inlet air pressure to the pneumatic motor

Pressure gauge showing the air pressure at the inlet port of the motors

Pressure gauge showing the pressure in the air inlet chamber

START/STOP control valve with hand lever.

6. Operation and maintenance

Easy to use, due to lightweight design all working positions are possible

Easy to maintain, no need for any special tools.

7. Compliance to regulations

Designed in accordance with EC Machinery Directive No 98/37/CE.

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4. Compressed air supply

Each CableJet must be used in conjunction with air supplied by a compressor having following characteristics: (Compressor not supplied)

Nominal pressure **8-12 bar**

Minimum delivery:

For ducts up to 27 mm external Ø	4 m³/min
For ducts up to 32 mm external Ø	5 m³/min
For ducts up to 40 mm external Ø	7 m³/min
For ducts up to 50 mm external Ø	10 m³/min
For ducts from 50 to 63 mm external Ø	15 m³/min

For safety reasons: The compressors having a nominal pressure of over 12 bar should be equipped with a device limiting this pressure to 12 bar.

For ambient temperatures over 25 °C, it is highly recommended to use an integrated air after cooler.

5. Dimensions and weights

CableJet only	1 520 x w 320 x h 230 mm	21 kg
CableJet with Al carry box	1 550 x w 350 x h 400 mm	30 kg
Tools and accessories case	1 550 x w 350 x h 250 mm	17 kg

8. Standard equipment

Each CABLEJET is delivered with:

- An Al case for the CableJet
- An Al case containing tools, inserts, wear parts and consumables (seals, lubricants, etc.)
- 3 duct inserts with outer Ø : 32, 40, 50 mm
- 5 cable inserts: Ø 9-11 ; 11-12.5 ; 12.5-14 ; 14-15.5 and 15.5-18 mm
- 10 m 1½" air hose with couplers and ball valve.
- Speed and length measuring device
- Exhaust chimney
- User's and maintenance manual
- Spare parts list.

9. Optional accessories

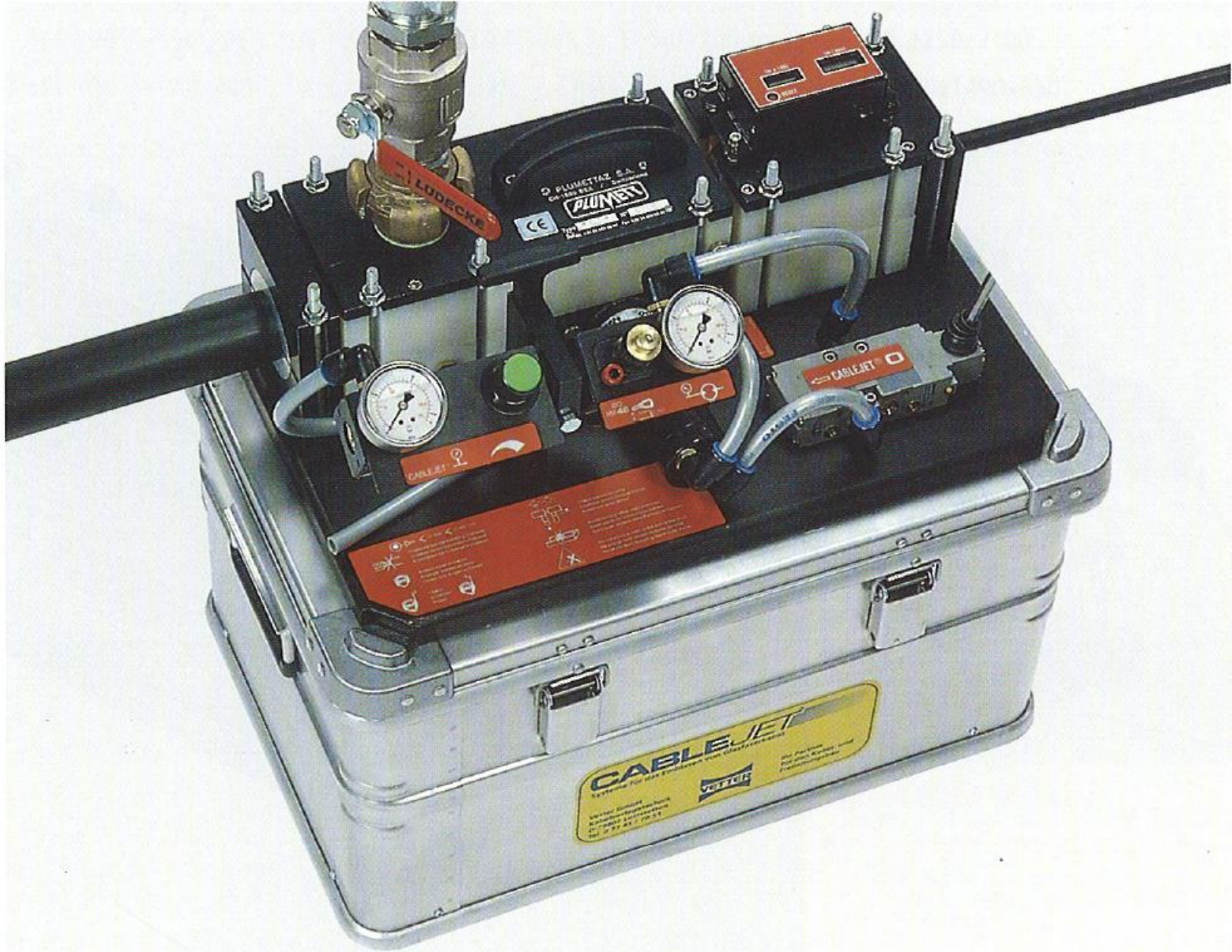
- Intermediate cable storage device FIGARO
- Air after-cooler AHP 400 with water separator
- Sonic heads for duct inner diameters within 26-32 ; 32-40 and 40-51 mm
- Y connector
- Duct inserts (others than the 3 supplied as standard): Ø 25, 34, 37, 42, 48, 60, 63 mm
- Set of special drive wheels and cable insert for jetting cables with outer diameters between 6 and 9 mm.
- Lubricant foam spreaders Ø 60, 80 and 100 mm
- "Jetting Lube" duct lubricant (box of 12 bottles of 95 cl each)
- Software "Jet Planner"
- Calibrating equipment for ducts
- Special connectors for ducts

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CABLEJET
Systeme für das Erprobens von Hochspannungskabeln

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Wir freuen uns
auf Ihren Kontakt und
Ihre Aufträge.

CABLEJET

1. Einmalige Prüfung vor dem ersten Einsatz.
2. Bei Beschädigung des Gerätes sofort den Hersteller kontaktieren.
3. Bei Verwendung von falschen Medien oder Druckmedien die Haftung des Herstellers erlischt.
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