CLAIMS

1. Autonomous fluid compressor device (1) for supplying compressed fluid to a cable laying device (100), the fluid compressor (1) comprising:

- a fluid compressing unit (10) arranged to compress fluid and comprising an exhaust valve,
- an electric motor (12), for driving the fluid compressing unit (10),
- a rechargeable power unit (20), to supply electric power to the electric motor (12);
- a fluid supply port (14) connected to the exhaust valve, for being connected to the cable laying device (100) to supply compressed fluid,

wherein the fluid compressor (1) comprises:

- an input unit (15), arranged to be connected to the cable laying device (100) for receiving a fluid demand signal indicating a fluid demand from the cable laying device,
- a control unit (16), connected to the input unit, and arranged to control the motor (12) based on the fluid demand signal received from the input unit (15), so that the fluid compressing unit (10) delivers compressed fluid, to meet the fluid demand from the cable laying device (100),

characterized in that a volume of tubing forming fluid path between the supply port (14) and the exhaust valve is lower than 15 liters, and preferably lower than 10 liters.

2. Fluid compressor (1) according to the preceding claim, wherein the fluid compressing unit (10) presents an engine size, and wherein ratio between the volume of tubing forming fluid path between the supply port (14) and the exhaust valve, divided by the engine size is lower than 75, and preferably lower than approx. 50.

3. Fluid compressor (1) according to any one of the preceding claims, wherein the control unit (16) is arranged to control a rotation speed of the motor (12).

4. Fluid compressor (1) according to any one of the preceding claims, wherein the motor (12) is arranged to measure a rotation speed and/or torque of the motor, and to send to the control unit (16) a feedback signal indicating a rotation speed of the motor.

5. Fluid compressor (1) according to any one of the preceding claims, comprising a pressure sensor (17) arranged to measure a fluid pressure at the supply port (14), and connected to the control unit (16) to send a pressure signal indicating a pressure of the fluid.

6. Fluid compressor (1) according to any one of the preceding claims, comprising a flow sensor (17) arranged to measure a fluid flow at the supply port (14), and connected to the control unit (16) to send a flow signal indicating a flow of the fluid at the supply port.

7. Fluid compressor (1) according to any one of the preceding claims, wherein the fluid compressing unit is a screw or piston compressor.

8. Fluid compressor (1) according to any one of the preceding claims, wherein the fluid is a gas.

9. Fluid compressor (1) according to any one of claims 1 to 7, wherein the fluid is a liquid.

10. Cable laying equipment for laying an elongated element (200) into a duct (250), comprising the fluid compressor (1) according to any one of the preceding claims, and a cable laying device (100) having a pressure chamber (30) connected to the fluid compressor.

11. Cable laying equipment according to the preceding claim, wherein the fluid compressor (1) is directly connected to the pressure chamber (30).

12. Cable laying equipment according to claim 10 or 11, comprising a monitoring unit, arranged to receive the feedback signal indicating a rotation speed of the motor (12), and or the pressure signal indicating a pressure of the fluid, and/or the flow signal indicating a flow of the fluid, and to calculate a pushing force exerted on the elongated element (200).