

Application

The DuctTools have been developed primarily for the installation of the DuctRepair-Block. To ensure the DuctRepair-Block achieves the specified values for tensile strength, blow-in and long term tightness, appropriate precise tools are essential.

If cables are already installed into microducts, precise tools are required for the longitudinal and circular cut. Especially the cutting depth must be limited to prevent the fiber optic cable in the microduct from damage. Therefore Elitex has developed a precision tool set to meet those demands. For professional and accurate installation and assembly, the tool set includes a Axial- and Circular-Cutter with appropriate spacers as well as all necessary tools in a ruggedized case. The foam covered case serve also enough space for several DuctRepair-Blocks for the repair dimension 200 mm. The tools are applicable for thin wall and direct buried microducts, with diameter range from Ø 7 mm to 20 mm. The case also contains two DuctMarkers to find back the junction at any time. The tools are also available separately.

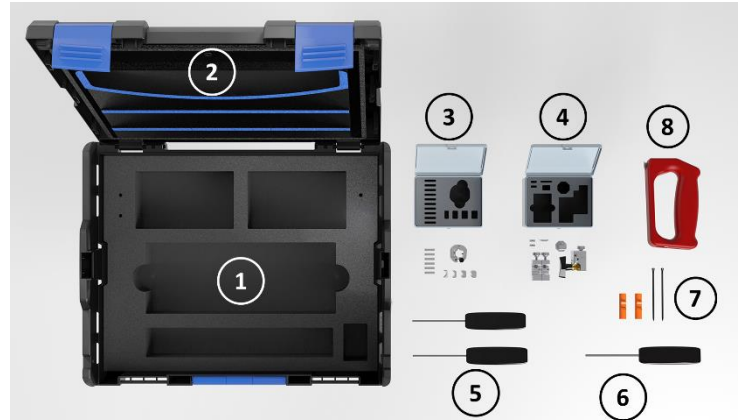


Item	Order No.
Tool Set DuctRepair-Boxx	01-083-Boxx

Scope of delivery

DuctRepair-Boxx contains:

- 1 = Transport case with space for DuctRepair-Blocks*
- 2 = Product documentation with installation instruction for every tool and DuctRepair-Block
- 3 = DuctTool-Circular-Cutter-Kit for microducts
- 4 = DuctTool-Axial-Cutter-Kit for microducts
- 5 = 2x Allen key 2.5 mm for tool adjustment
- 6 = 1x Allen key 3.0 mm for assembling of DuctRepair-Block
- 7 = 1 PU (2 pieces) DuctMarker with cable tie
- 8 = Safety jacket stripper or jacket stripper



DuctRepair-Boxx (tools like displayed or similar)



***Note:** The DuctRepair-Blocks are not included in the delivery content and should be ordered separately according to microduct size to be repaired (please see data sheet DuctRepair-Block)

Individual parts

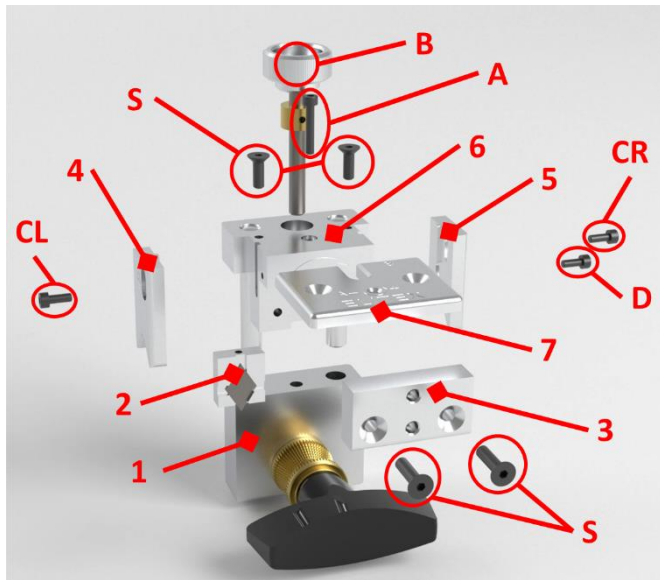
Item	Order No.	L x W x H [mm]	Weight [g]	Materials
DuctTool Axial Cutter-Kit	01-084-Kit			Aluminum/Tool steel
DuctTool-Circular Cutter-Kit	01-085-Kit			Aluminum/Tool steel
Allen key 2.5 mm				Plastic/Tool steel
Allen key 3.0 mm				Plastic/Tool steel
Safety jacket stripper	01-010-05 A	100x150x27	700	PA/Tool steel
DuctMarker set (2 pieces)	01-093-01			HD-PE/Ferrite/Cu
Case replacement DuctRepair-Boxx	01-094-02			Plastic/Foam

Application

The DuctTool Axial-Cutter was developed primarily for the installation of the DuctRepair-Block. To ensure the DuctRepair-Block achieves the specified values for tensile strength, blow-in and long term tightness, appropriate precise tools are essential.

Also, in case cables are already installed into a microduct, a precise tool is required for axial cuts. Especially the cutting depth must be limited to prevent the fiber optic cable inside of the microduct from damages. The Axial-Cutter is applicable for thin wall and direct buried microducts, with diameter range from \varnothing 7 mm to 20 mm.

Scope of delivery included a gauge for adjustment of cutting depth, which allows precise adjustment of the blade according to the requested wall thicknesses of the microduct. Also included is a gauge for adjustment of the different outer diameters. For matching cutting length according to DuctRepair-Block size, two spacers are in tool set as well.



Exploded view DuctTool-Axial Cutter

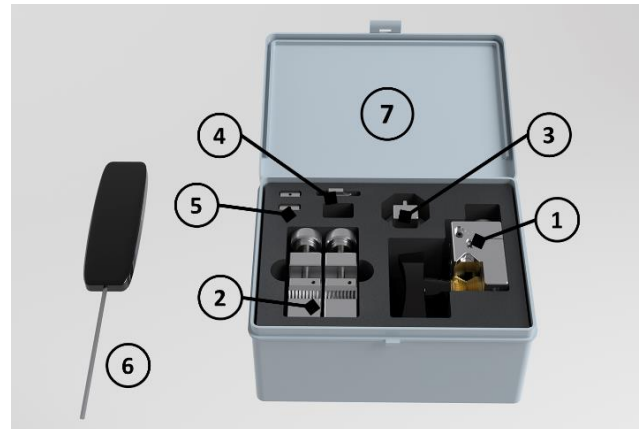
- A = Adjusting screw for blade
- B = Clamp screw for setting microduct diameter
- D = Locking screw for blade
- CL = Locking screw V-Block left
- CR = Locking screw V-Block right
- S = Mounting screw for top and front plate
- 1 = Axial bottom body with handle
- 2 = Blade block
- 3 = Cover plate top body front
- 4 = V-Block left
- 5 = V-Block right
- 6 = Axial body top part
- 7 = Cover plate top body top side

DuctTool-Axial Cutter-Kit for microducts

The DuctTool axial cutter kit contains:

- 1 = axial cutter with mounted blade
- 2 = 2x spacers
- 3 = gauge for adjustment of cutting depth
- 4 = gauge for adjustment of outer diameter
- 5 = 2x spare blade
- 6 = Allen key 2.5 mm for tool adjustment
- 7 = tool box

Item	Order No.
DuctTool Axial Cutter-Kit	01-084-Kit

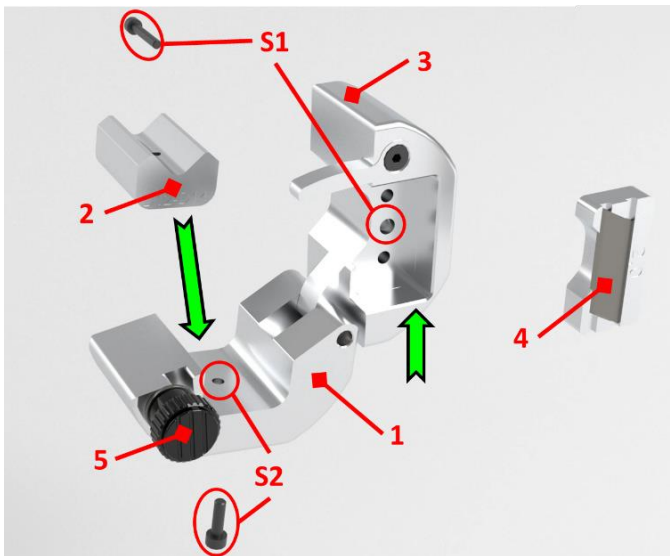


Spare parts

Item	Order No.	L x W x H [mm]	Weight [g]	Materials
Axial cutter body, blade preinstalled	01-084-02			Aluminum/Plastic
Spare blade set (2 piece)	01-092-03			Aluminum/Tool steel
Spacer 2 piece	01-084-01			Aluminum
Gauge for adjustment of outer diameter	01-084-03			Aluminum
Gauge for adjustment of cutting depth	01-084-04			Aluminum
Kit-Box incl. foam insert and label	01-095-02			Plastic

Application

The DuctTool-Circular-Cutter was developed primarily for the installation of the DuctRepair-Block. To ensure the DuctRepair-Block achieves the specified values for tensile strength, blow-in and long term tightness, appropriate precise tools are essential. Also, in case cables are already installed into a microduct, a precise tool is required for circular cuts. Especially the cutting depth must be limited to prevent the fiber optic cable inside of the microduct from damages. This is achieved by exchangeable blade blocks, which are included in the tool set for all common thin- and thick-walled microducts. The different outer diameters of the microduct from 7 mm to 20 mm are covered by interchangeable support prisms.



Exploded view DuctTool-Circular-Cutter

- 1 = Circular-Cutter base body
 - 2 = V-Block
 - 3 = Circular-Cutter base body top part
 - 4 = Blade block
 - 5 = Clamp screw
 - S1 = Locking screw for blade block (on back side)
 - S2 = Locking screw for V-Block (on bottom side)
- Locking screws are mounted captive in base body.

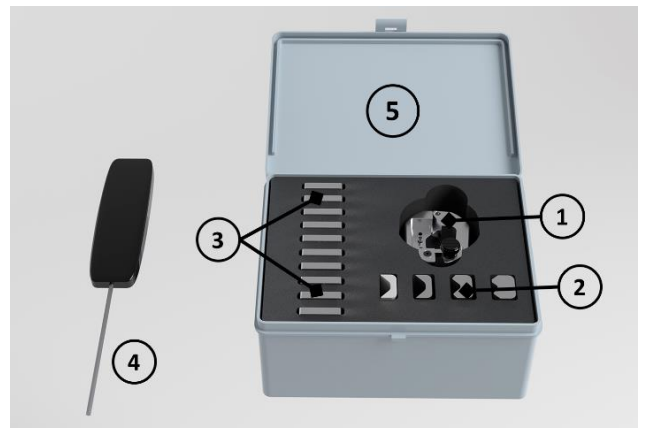
DuctTool Circular-Cutter for microducts

The DuctTool-Circular-Cutter kit contains

- 1 = Circular-Cutter base body
- 2 = V-Block for \varnothing 7-10/12-14/16-20 mm
- 3 = incl. one blade block each microduct wall thickness
0.75/1.0/1.3/1.5/2.0/2.5 mm
- 4 = Allen key 2.5 mm for tool adjustment
- 5 = tool box

The circular cutter comes pre-mounted with on V-block and one blade block.

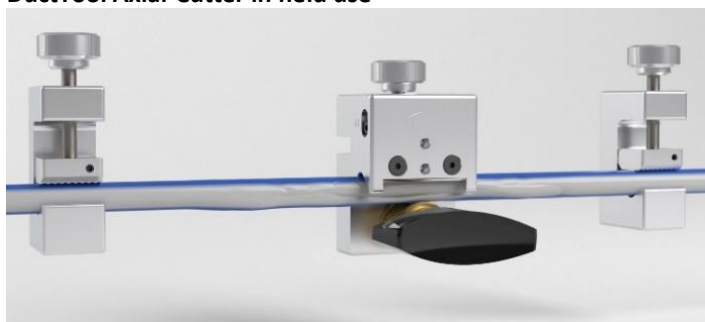
Item	Order No.
DuctTool-Circular Cutter-Kit	01-085-Kit



Spare parts

Item	Order No.	L x W x H [mm]	Weight [g]	Materials
Circular-Cutter body	01-085-01			Aluminum/Plastic
V-Block Ø 7-10 mm	01-085-03			Aluminum
V-Block Ø 12-14 mm	01-085-04			Aluminum
V-Block Ø 16-20 mm	01-085-05			Aluminum
Spare blade block Circular-Cutter wall thickness 0.75 mm	01-086-02			Aluminum/Tool steel
Spare blade block Circular-Cutter wall thickness 1.00 mm	01-087-02			Aluminum/Tool steel
Spare blade block Circular-Cutter wall thickness 1.30 mm	01-088-02			Aluminum/Tool steel
Spare blade block Circular-Cutter wall thickness 1.50 mm	01-089-02			Aluminum/Tool steel
Spare blade block Circular-Cutter wall thickness 2.00 mm	01-090-02			Aluminum/Tool steel
Spare blade block Circular-Cutter wall thickness 2.50 mm	01-091-02			Aluminum/Tool steel
Kit-Box incl. foam insert and label	01-096-02			Plastic

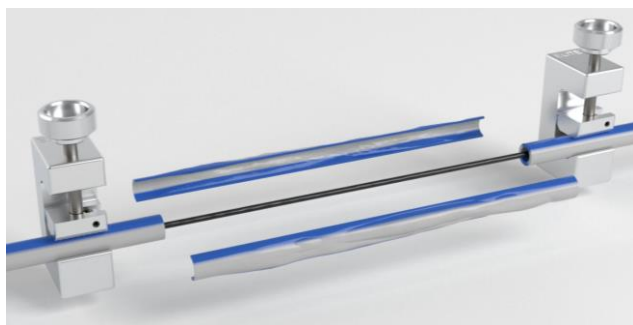
DuctTool Axial-Cutter in field use



Axial cut between the spacers for a repair with 200 mm DuctRepair-Block



Circular cut between the spacers for a repair with 200 mm DuctRepair-Block



Display of a microduct after opening with the circular and axial cutting tools

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DuctRepair-Boxx

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