

Distel

**Installation instructions
of spare parts for
Distel tree climbing spurs**

English

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1. General information

Before using Distel climbing spurs and/or installing spare parts the general instructions for use of Distel climbing spurs must be read, observed and followed.

The installation instructions in section 3 only describe the attachment of the individual parts on one side (left or right). Once the installation steps have been successfully completed, repeat the steps for the other side. All parts listed under section 3 are supplied as a pair. The installation steps must therefore be carried out on both the left and right climbers.

Spare parts

All parts, except the shaft, are available as spare parts. Use only Distel spare parts. The five digits article number is listed in the table below.

Part nomenclature

(A) Shafts and Stirrup		
11.###		Steel
12.###		Aluminium-Classic 3 & 3.1
13.###		Carbon 3 & 3.1
15.###		Aluminium-Plus by DMM
(B) Gaffs		
20.001	B.1	USA short
20.002	B.2	USA long
20.003	B.3	Heidelberg/European
20.004	B.4	USA Medium
(C) Lower Straps		
20.010	C.1	Click buckles with female part (C.1) and male part (C.2)
	C.2	
20.020	C.3	Velcro straps with instep-strap (C.3) and sewn-in ring with strap (C.4)
	C.4	
20.030	C.5	Ratchet buckles straps (C.5) with keyring (C.6)
	C.6	
20.050	C.6	Classic straps (C.7) with keyring (C.6)
	C.7	
20.051	C.8	Guide eyelet
(D) Cuffs		
20.200*	D	Red cuffs
20.300*	D	Red cuffs with print
20.600*	D	Black cuffs with print
	D1	* with white mushroom tape (D.1) and black hook stripes (D.2)
	D2	

(E) Pads		
20.800		Pads Classic
20.900		Pads Plus
20.910	E, F.1	Pads with click buckles
20.920	E, F.2	Pads with Velcro straps
(F) Upper straps		
20.110	F.1	Click buckles
20.120	F.2	Velcro straps
(H) Screws for fixation of gaffs		
20.820	H.1	M8x20 Countersunk Screw Torx 45
20.825	H.2	M8x25 Countersunk Screw Torx 45
20.830	H.3	M8x30 Countersunk Screw Torx 45
	I	Washer for use with H.3 for Velcro straps and click buckles
(J) Screws for fixation of lower straps		
20.812	J.1	M8x12 Lens Flange Head Screw Torx 45 for Click buckles and Velcro straps
20.070	J.2	Eye Bolt M8x9 for Classic and ratchet buckles straps
(K) Screws for fixation of cuffs		
20.612	K	M6x12 Lens Flange Head Screw Torx 30

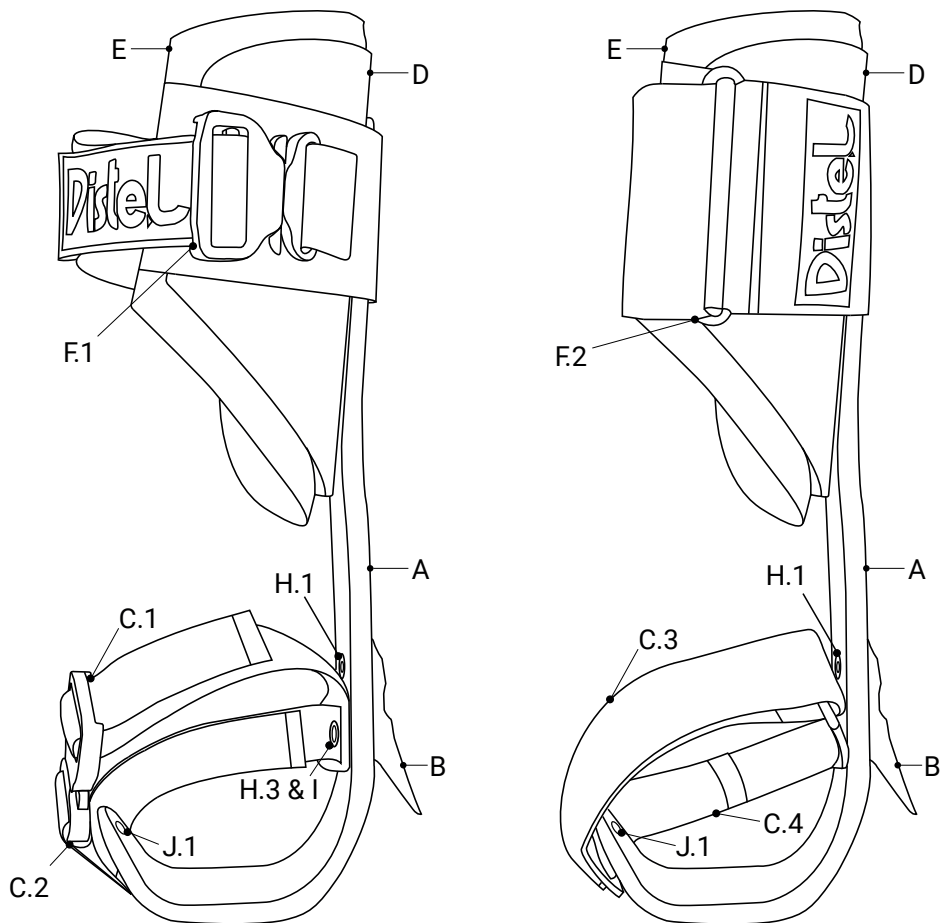


Figure 1: Climbers in front view

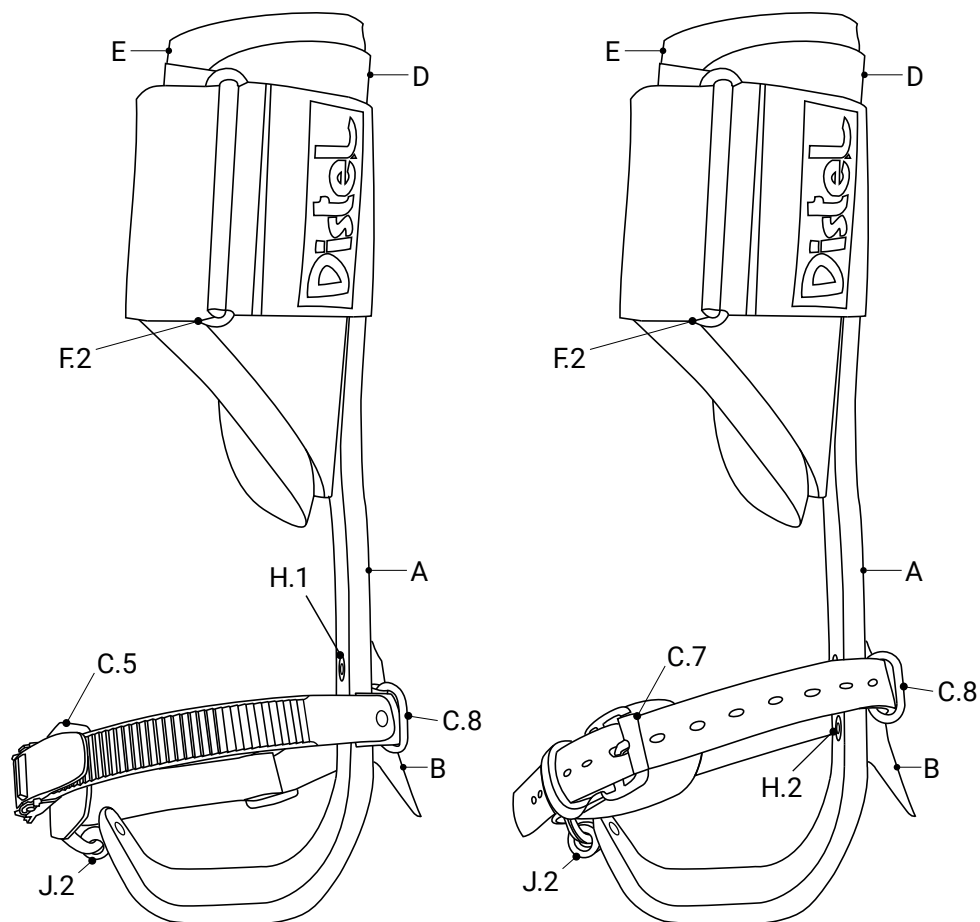


Figure 1: Climbers in front view

2. Securing and torque of the screws

All screws used for attaching/mounting the spare parts must be secured as listed here!

Eyebolts **J.2**, already in use, as well as new eyebolts, must always be secured with high-strength threadlocker, such as Loctite 270, when they are attached.

If you need to loosen and reattach screws when attaching replacement parts, use a medium threadlocker such as Loctite 243 for reattachment. Supplied new screws usually have a pre-applied threadlocker (yellow or blue dot). If no dot is present, use a medium threadlocker.

The screws **H.1**, **H.2** and **H.3** must be tightened with a torque wrench to **25 Nm** for steel and aluminum climbing spurs and **10 Nm** for carbon climbing spurs. The screws **J.1** must be tightened with **10 Nm** on all climbing spurs. The eyebolts **J.2** must be tightened with at least **10 Nm** on all climbing spurs. The screws **K** must be tightened with **8 Nm** on all climbing spurs.

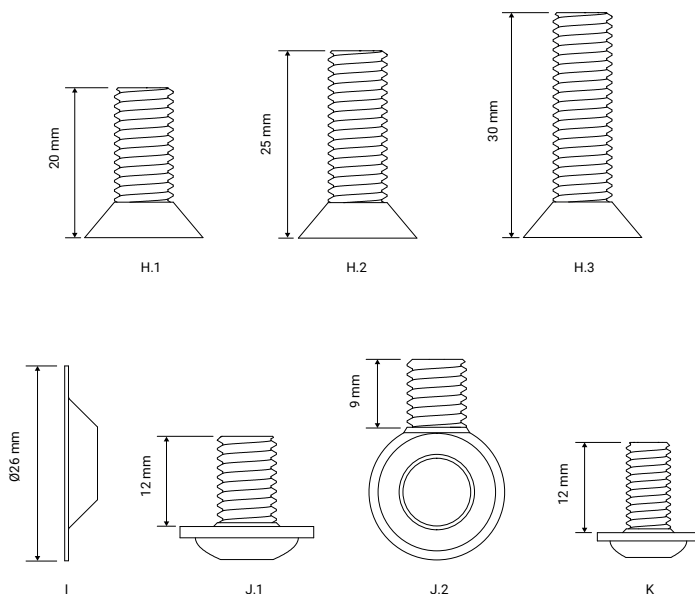


Figure 7: Screws

3. Attachment of the individual spare parts

Gaffs (B): 20.001, 20.002, 20.003, 20.004

Loosen and remove the upper and lower gaff screws. Remove the old gaff (B). Position the new gaff and attach it by using the supplied M8x25 screws (H.2) for the upper and lower gaff screws.

The supplied M8x25 screws (H.2) can be used universally on the gaff. However, the old screws already used often fit better in terms of length (e.g. M8x20 (H.1) at the top and M8x30 (H.3) at the bottom for Velcro and click straps). This way, less dirt can accumulate in the thread and it looks more attractive. When using the old screws, always ensure that screw locking is used (see 2.).

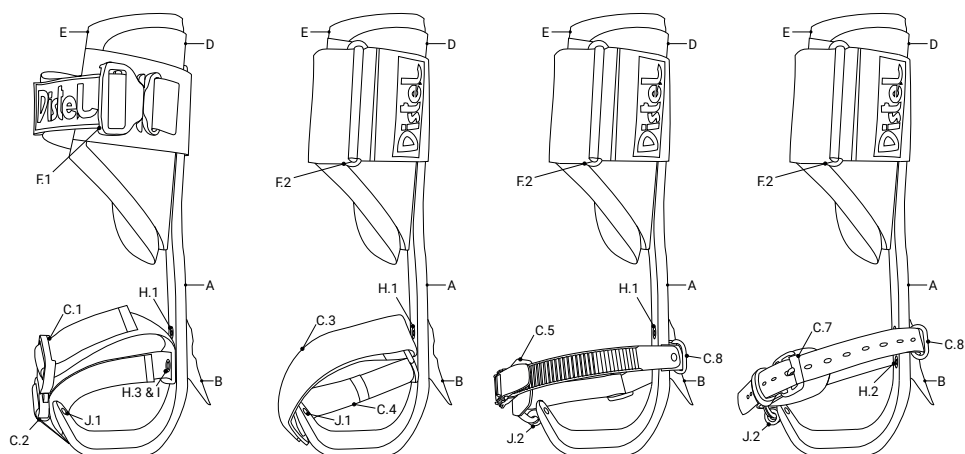


Figure 1: Climbers in front view

Lower Click buckles (C.1 & C.2): 20.010

Lower Velcro straps (C.3 & C.4): 20.020

Loosen and remove the lower gaff screw and the screw J.1 or the eyebolt J.2.

For 20.010 position the female part (C.1) and the male part (C.2) of the click buckle as shown in figure 2.

For 20.020 position the instep-strap (C.3) and the sewn-in ring with strap (C.4) as shown in figure 3.

To attach the gaff (B) to the shank (A) use the supplied M8x30 screws (H.3) together with the washer (I) for the lower gaff screws. For J.1 use the supplied M8x12 screws.

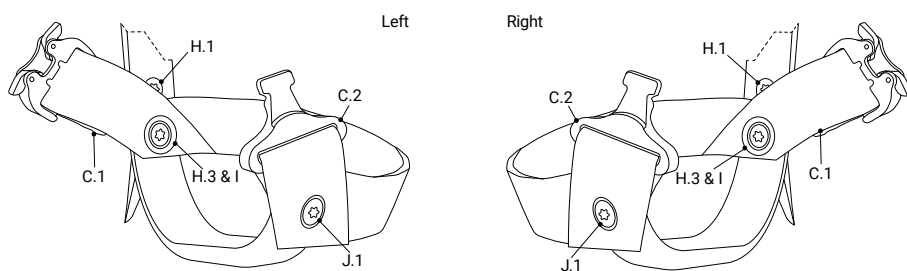


Figure 2: Lower Click buckles

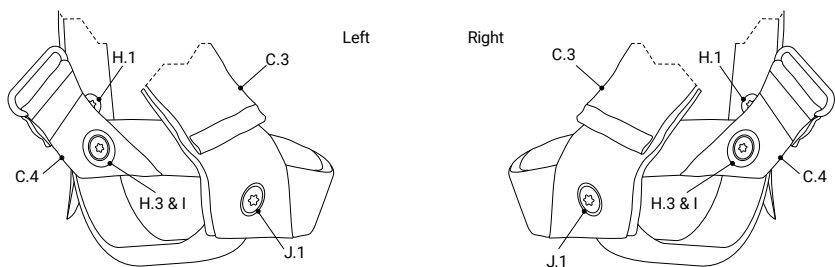


Figure 3: Lower Velcro straps

Lower ratchet buckle straps (C.5): 20.030

Lower Classic straps (C.7): 20.050

For the attachment you need two M8x9 eyebolts (J.2). Position as shown in Figure 4 or 5. Secure the eyebolts with a high-strength threadlocker.

Guide the keyring (C.6) through the eyebolt and position the strap and the buckle as shown in figure 4 or 5. The keyring must be guided completely through the eyebolt.

Guide eyelet for ratchet buckles straps and classic straps (C.8): 20.051

Loosen and remove the upper and lower gaff screws. Place the strap of the guide eyelet (C.8) into the recess between shank (A) and gaff (B). Position the guide eyelet as shown in figure 4 or 5. Use the supplied M8x25 screws (H.2) for the upper and lower gaff screws to secure the gaff to the shank. Make sure that the upper gaff screw is guided through the hole in the strap of the guide eyelet. Guide the Classic strap through the eyelet.

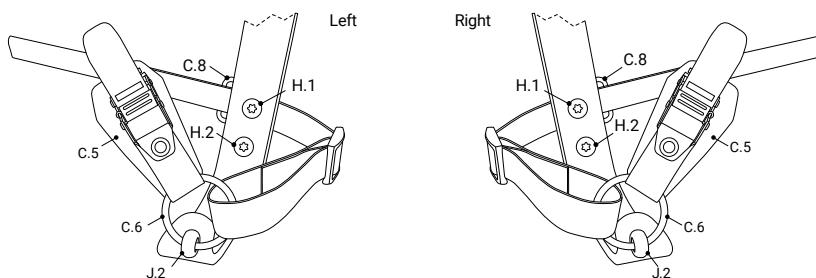


Figure 4: Lower Ratchet buckles straps

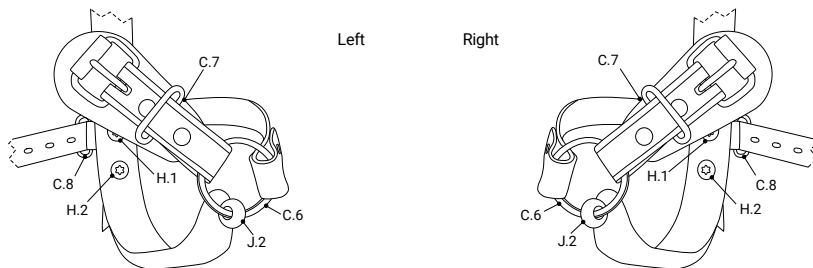


Figure 5: Lower Classic straps

Cuffs (D): 20.200, 20.300 and 20.600

Remove the pad (E) together with the upper strap (F.1 or F.2). Mark your original set position of the old shell (D). Remove the screws used to fasten the shell. Position the new shell according to your mark and attach the shell to the shaft (A) using the M6x12 screws (K) provided. Fasten the pad tightly into the shell and guide the strap around the shell.

Upper straps (F): 20.110 and 20.120

Only to be used in combination with pads 20.800 or 20.900. Remove the old strap (F). Attach the strap to the outside of the shell (D), to the wrapped velour of the pad (E).

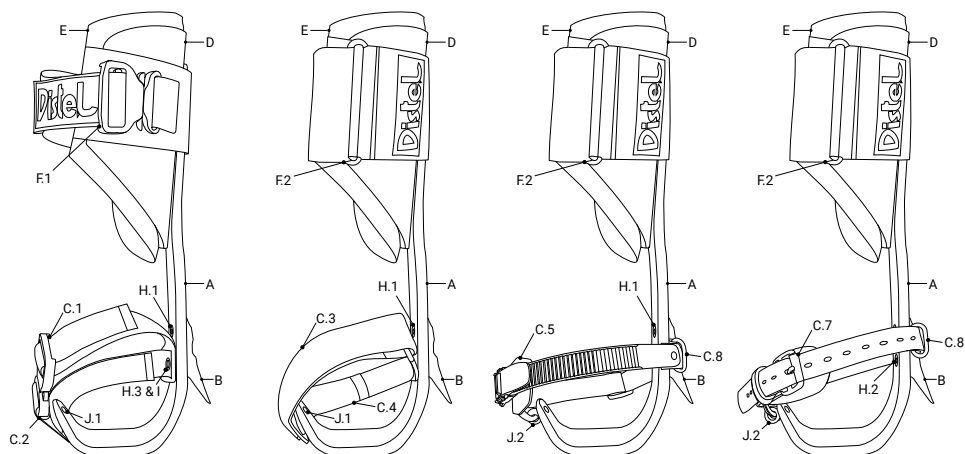


Figure 1: Climbers in front view

Pads (E): 20.800 and 20.900

Only to be used in combination with enclosed self-adhesive mushroom head strips and hook strips and upper straps 20.110 or 20.120.

Remove the old pad (E) and the upper strap (F.1 or F.2). Replace the old self-adhesive Velcro strips attached on the inside and outside of the shell (D) with the new self-adhesive white mushroom head strips (D.1) and black hook strips (D.2) provided. After removing the old strips, clean the shell with a degreasing agent such as Spiritus. Position the strips as shown in Figure 6. Press each new strip firmly for at least 60 seconds. Fasten the new pad tightly in the shell. Wrap the sewn-on velour straps of the pad around the front and back edges of the shell and press the straps firmly on the outside. Attach the upper strap on the outside of the shell to the folded velour of the pad.

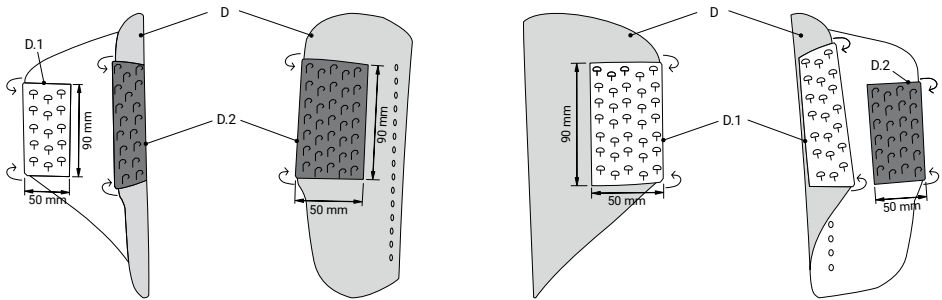


Figure 6: Left Cuff

Pads with straps (E & F.1/F.2): 20.910 and 20.920

Proceed as described for Pads (E): 20.800 and 20.900.

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