

Tools

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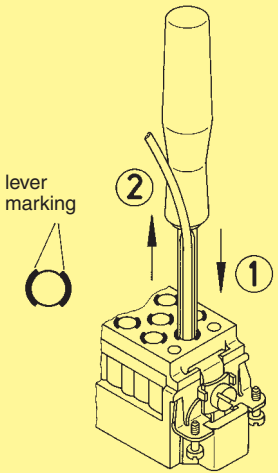
Crimping machine TC-C01



Identification	Part No.	Drawing	Dimensions in mm
HARTING crimping tool with locator for Han D®, Han E®, Han® C	09 99 000 0110	Wire gauge 0.14 - 1.5 mm ²	
HARTING-Service crimping tool with locator for Han D®, Han E®	09 99 000 0021	Wire gauge 0.14 - 1.5 mm ²	
BUCHANAN-crimping tool Locator Crimping tool depth adjustment gauge	09 99 000 0001 09 99 000 0311 09 99 000 0203 ¹⁾ 09 99 000 0125 09 99 000 0007 09 99 000 0008	Wire gauge 0.14 - 2.5 mm ² 0.14 + 0.25 mm ² ø 1.00 0.37 mm ² ø 1.30 0.5-1 + 2.5 mm ² ø 1.55 1.5 mm ² ø 1.80	 ↑ order separately
HARTING-pneumatic crimping tool Locator Crimping tool depth adjustment gauge Table fixing and foot switch for pneumatic crimping tool	09 99 000 0314 09 99 000 0311 09 99 000 0125 09 99 000 0007 09 99 000 0008 09 99 000 0309	Wire gauge 0.37 mm ² ø 1.30 0.5-1 + 2.5 mm ² ø 1.55 1.5 mm ² ø 1.80	 ↑ order separately
Insertion tool for crimp contacts	09 99 000 0059		For crimp contacts with wires of less than 0.75 mm ² it is recommended that an insertion tool is used. Contacts should be inserted from the wiring side and pushed down until a positive locking is achieved.
Removal tool for crimp contacts Removal tool Replacement-tip for removal tool Removal tool	09 99 000 0012 09 99 000 0004 09 99 000 0052	 	. . 0012 . . 0004 . . 0052 A removal tool is necessary if contacts are to be replaced in the insert. It is inserted from the mating face and pushed over the contact until a stop is noticeable. Additional pressure unlocks the contact and pushes it out of the wiring side. In case of the removal tool (. . 0052) the unlocking process is achieved by pressure on the central rod.

¹⁾ For wire gauge 0.14 and 0.25 mm² use only male contact 09 15 000 6107 or female contact 09 15 000 6207.

Identification	Part No.	Drawing	Dimensions in mm
HARTING crimping tool with locator for Han D®, Han E®, Han® C	09 99 000 0110	Wire gauge 0.5 - 4 mm ²	
HARTING-Service crimping tool with locator	09 99 000 0021	Wire gauge 0.5 - 2.5 mm ²	
BUCHANAN- crimping tool	09 99 000 0001	Wire gauge 0.14 - 4 mm ²	 ↑ order separately
Locator	09 99 000 0310		
Crimping tool depth adjustment gauge	09 99 000 0203 09 99 000 0125 09 99 000 0007 09 99 000 0008 09 99 000 0006	Wire gauge 0,14 - 0,25 mm ² ø 1,00 0,37 mm ² ø 1,30 0,5 - 1 mm ² ø 1,55 1,5 - 2,5 mm ² ø 1,80 4 mm ² ø 2,00	
HARTING- pneumatic crimping tool	09 99 000 0314		 ↑ order separately
Locator	09 99 000 0310		
Crimping tool depth adjustment gauge	09 99 000 0203 09 99 000 0125 09 99 000 0007 09 99 000 0008 09 99 000 0006	Wire gauge 0.14 - 0.25 mm ² ø 1.00 0.37 mm ² ø 1.30 0.5 - 1 mm ² ø 1.55 1.5 - 2.5 mm ² ø 1.80 4 mm ² ø 2.00	
Table fixing and foot switch for pneumatic crimping tool	09 99 000 0309		
Insertion tool for crimp contacts	09 99 000 0059		For crimp contacts wires of less than 0.75 mm ² it is recommended that an insertion tool is used. Contacts should be inserted from the wiring side and pushed down until a positive locking is achieved.
Removal tool for Han® ES inserts	09 99 000 0367		
Crimp contact removal for Han® EE, Han® Q 5/0, Han® Q 8/0 Han E® and Han A®	09 99 000 0319		A removal tool is necessary if contacts are to be replaced in the insert. The tool is inserted from the wiring side until a stop is noticeable. The wire with the crimp contact can then be pulled out from the same side of the insert.

Identification	Part No.	Drawing	Dimensions in mm
<p>HARTING crimping tool with locator for Han D®, Han E®, Han® C</p>	09 99 000 0110	<p>Wire gauge 1.5 - 4 mm²</p> 	
<p>BUCHANAN- crimping tool</p> <p>Locator</p> <p>Crimping tool depth adjustment gauge</p>	<p>09 99 000 0001</p> <p>09 99 000 0308</p> <p>09 99 000 0008</p> <p>09 99 000 0006</p>	<p>Wire gauge 1.5 - 4 mm²</p>  <p>Wire gauge 1.5 + 2.5 mm² ø 1.80 4 mm² ø 2.00</p>  <p>↑ order separately</p>	
<p>HARTING- crimping tool</p> <p>Locator as spare part</p>	<p>09 99 000 0303</p> <p>09 99 000 0304</p>	<p>Wire gauge 4 - 6 mm²</p>  <p>Locator is supplied with the tool</p>	
<p>HARTING- pneumatic crimping tool</p> <p>Crimping tool depth adjustment gauge</p> <p>Locator</p> <p>Table fixing and foot switch for pneumatic crimping tool</p>	<p>09 99 000 0307</p> <p>09 99 000 0008</p> <p>09 99 000 0006</p> <p>09 99 000 0009</p> <p>09 99 000 0308</p> <p>09 99 000 0309</p>	<p>Wire gauge 1.5 + 2.5 mm² ø 1.80 4 mm² ø 2.00 6 mm² ø 2.40</p>  <p>↑ order separately</p> 	
<p>Removal tool for crimp contacts</p> <p>Removal tool</p>	09 99 000 0305	 <p>A removal tool is necessary to remove the contacts. For each „C“ contact cavity, the location of the internal locking levers are marked on the wiring side with two black arcs. The sides of the tool must be first properly aligned so that the edges of the tool engage both levers simultaneously and then inserted until a stop is noticeable ①. Once it has been inserted, the tool must not be turned. The wire together with the tool can then be pulled out from the wiring side of the insert ②.</p>  <p>lever marking</p>	

Stock items in bold type

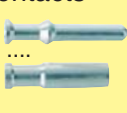


Identification	Part No.	Drawing	Dimensions in mm
HARTING- crimping tool for coaxial contacts	09 99 000 0194	 Use the middle crimping position	
Removal tool for contacts in the multi-contact-module	09 99 000 0328		
Removal tool for locking sleeve of the HV module	09 99 000 0327		
Removal tool for Quintax contacts	09 99 000 0323		
Stripping tool	09 99 000 0159	 For wires 0.08 up to 10 mm ²	
Hexagonal screw driver for Axial screw			
with grip	40 A contacts (SW 2) 09 99 000 0313 100 A contacts (SW 4) 09 99 000 0363 200 + 350 contacts (SW 5) 09 99 000 0364 650 A contacts (SW 8) 09 99 000 0365		
Bit 1/4"	40 A contacts (SW 2) 09 99 000 0369		
Adapter 3/8"	100 A contacts (SW 4) 09 99 000 0370 200 + 350 A contacts (SW 5) 09 99 000 0371 650 A contacts (SW 8) 09 99 000 0372		

Identification	Part No.	Drawing	Dimensions in mm
Polishing tool DIN 41 626	20 99 000 1092		
POF ²⁾ cable Ø 2.2	20 99 000 1093		
Fibre stripper 1 mm POF ²⁾	20 99 000 1041 20 99 000 1045 20 99 000 1046	0.3 mm 1 mm 0.18/0.3 mm	
Crimping tool for 1 mm POF contacts – Han D®, Han E® – DIN 41 626 – Ferrule – F-SMA, -ST	20 99 000 1035		
HARTING Crimping tool for FO connector (glass fibre) SW 4.3 mm 3.8 mm 4.95 mm	20 99 000 1031		
HARTING Crimping tool for FO connector (plastic fibre) SW 6.95, 4.95 and 3.0 mm	20 99 000 1033		for crimping the strain relief to the connector ... 1031 FO cable for glass fibre ... 1033 POF ²⁾ and SERCOS cable Ø 6.0 and 3.6
Exposy adhesive glass fibre	20 80 001 9902		2 ml EPO-TEK 360 with hardener (10:1), 4 g foil pack
Polishing paper for POF ²⁾ -grain size 1000 for G1 9 µ-grain size for G1 1 µ-grain size	20 80 001 9911 20 80 001 9912 20 80 001 9913		Delivery range: Each part number ordered comprises 2 pieces

²⁾ POF = Polymer optical fibre

Summary Han® Crimping tools



Identification		mm ²	AWG	Part No.													Contact removal tool							
Crimp contacts				Crimping tool							Crimping machine			Crimping tool depth adjustment gauge										
Series				09 99 000 0001	09 99 000 0110	09 99 000 0021	09 99 000 0303	09 99 000 0194	20 99 000 1035	20 99 000 1033	20 99 000 1031	09 99 000 0246	09 99 000 0307	09 99 000 0314	09 98 000 6000	09 99 000 0006	09 99 000 0007	09 99 000 0008	09 99 000 0009	09 99 000 0125	09 99 000 0203			
Han® C	Power contacts Han® C 09 32 	1.5	16	x	x								x	x									09 99 000 0305	
		2.5	14	x	x								x	x				x						
		4.0	12	x	x		x						x	x		x								
		6.0	10				x						x						x					
Han D®	Signal contacts Han D® 09 15 	0.14	26	x ²⁾	x	x						x		x ²⁾							x ²⁾	09 99 000 0012 09 99 000 0052		
		0.25	24	x ²⁾	x	x						x		x ²⁾	x ²⁾						x ²⁾			
		0.37	22	x	x	x						x		x	x						x			
		0.5	20	x	x	x						x		x	x			x						
		0.75	18	x	x	x						x		x	x			x						
		1.0	18	x	x	x						x		x	x			x						
		1.5	16	x	x	x						x		x	x				x					
		2.5	14	x														x						
			FOC contacts 1 mm POF	–	–						x													
		Han E®	Power contacts Han E® 09 33 	0.14	26	x										x								
0.25	24			x											x								x	
0.37	22			x											x						x			
0.5	20			x	x	x							x		x	x			x					
0.75	18			x	x	x							x		x	x			x					
1.0	18			x	x	x							x		x	x			x					
1.5	16			x	x	x							x		x	x				x				
2.5	14			x	x	x							x		x	x				x				
3.0	12			x	x											x	x	x						
4.0	12			x	x											x	x	x						
	FOC contacts 1 mm POF	–	–						x															
Multi module	Coaxial contacts	–	–					x															09 99 000 0328	
	FOC contacts 1 mm POF	–	–						x ¹⁾	x ¹⁾														
	FOC contacts GI-fibre	–	–								x													

Identification	Part No.	09 99 000 0001	09 99 000 0110	09 99 000 0021	09 99 000 0303	09 99 000 0194	20 99 000 1035	20 99 000 1033	20 99 000 1031	09 99 000 0246	09 99 000 0307	09 99 000 0314	09 98 000 6000	09 99 000 0006	09 99 000 0007	09 99 000 0008	09 99 000 0009	09 99 000 0125	09 99 000 0203	
Locator Han® C	09 99 000 0308	x									x	x								
	09 99 000 0304				x															
Han D®	09 99 000 0311	x										x								
	09 99 000 0022			x																
Han E®	09 99 000 0310	x										x								
	09 99 000 0022			x																

¹⁾ both tools are necessary

²⁾ for wire gauges 0.14 and 0.25 mm² use only male contact 09 15 000 6107 or female contact 09 15 000 6207

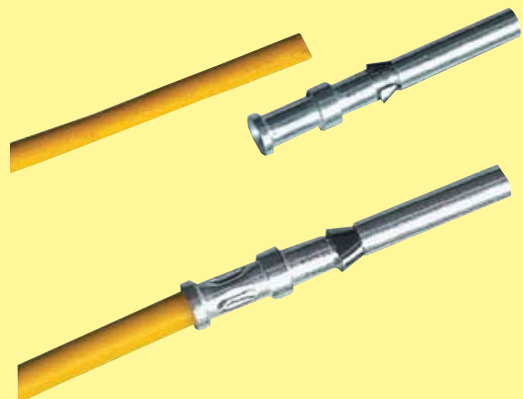


Features

- Fast stripping and crimping in one operating step
- Basic unit of compact construction
- Simple handling due to ergonomic design
- For individual, turned male and female contacts
(Specially for the HARTING series Han® D, Han® E)
- Selective processing of male and female contacts
(Wire gauge from 0.34 mm² up to 4.0 mm², AWG 22 to AWG 12)
- Contact magazine with automatic level control
- Produces consistent high quality gas tight crimp connections
- Infinitely variable setting parameters
 - stripping depth
 - stripping length
 - crimping depth
 - output of crimp contacts
- Automatic magazine emptying
- Height-adjustable feet
- Low noise level
- For non-oiled compressed air
- Air servicing unit with water separator and pressure reducer
- Very fast installation time
- Low maintenance costs

Technical characteristics

Dimensions:	
Height	400 mm
Width	555 mm
Depth	440 mm
Total weight:	approx. 60 kg
Localized noise level:	< 70 dB (A)
Drive:	electro-pneumatic
Electrical connection:	230 V, 50 Hz
Power rating:	0.75 kW
Pneumatic pressure:	6 bar
Compressed air requirement:	3 dm ³ / work cycle
Control system:	PLC
Working cycle trigger:	Sensor
Working cycle of the machine:	2 second (stripping and crimping)
Crimping type:	four-notch crimping
Contact feed:	vibratory bowl feed
Operations counters:	resetable and fixed counters



Identification

Part No.

Crimping machine TK

(without changer unit)

09 98 000 6000

with changer units for Han D®
Han E®
Other

09 98 000 6001
09 98 000 6002
on request



Pack contents

- Crimping machine TK
 - with a fitted changer unit
 - with 2.0 m connection cable and shock-proof plug
 - with 2.0 m pneumatic hose with plug-in nipple N9
- Plug gauge for setting the crimping depth
- Centering bush for positioning the plug gauges
- Draw for insulation remains
- Drawer for holding the contacts when the magazine is emptied
- Tool set for setting
- 1 set of stripping tool blades
- Operating instructions
- Declaration of conformity

Options

Changer unit with plug gauges



Rounded blade and infeed funnel





Features

- Basic unit of compact construction for pre-stripped wires (stranded wire)
- Simple handling due to ergonomic design
- For individual, male and female turned contacts
- Selective processing of male and female contacts (wire gauge from 0.14 mm² up to 6.0 mm², AWG 26 to AWG 10)
- Automatic contact feed
- Produces consistent high quality gas tight crimp connections
- Non slip, anti-vibration and height-adjustable feet
- Low noise level
- Easily transportable with carrying handle
- Pluggable electric and pneumatic connections
- Operations counters for planned maintenance
- Very fast installation time
- Tool-free setting of crimping depth
- Low maintenance costs
- Low ongoing maintenance charges
- Easy replacement of wearing components

Technical characteristics

Dimensions:	
Height	345 mm
Width	230 mm
Depth	400 mm
Total weight:	24 kg
Local noise level:	62 dB (A)
Electrical connection:	230 V, 50 Hz
Power rating:	0.20 kW
Pneumatic pressure:	6 bar
Control system:	PLC
Working cycle trigger:	foot-operated switch
Working cycle of the machine:	1 second
Crimping type:	four-point crimping
Contact feed:	vibratory bowl feed
Operations counters:	resetable and fixed counters



Identification

Part No.

Crimping machine TC-C01

for Han D®
Han E®
Han® C
Other

09 98 000 9001
09 98 000 9002
09 98 000 9003
on request



Pack contents

- Crimping machine TC-C01
 - with 2.5 m connection cable and shock-proof plug
 - with 2.5 m pneumatic hose, quick-release coupling and plug-in nipple N6
- Foot-operated switch
- Carrying handle
- Operating instructions
- Declaration of conformity

Options

Pneumatic maintenance unit



Wire feed



Working light



