

Tools

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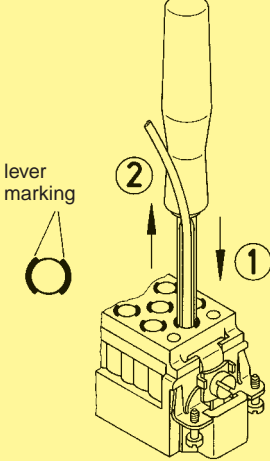
Crimping machine TC-C01



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 Multiple crimping tool depth adjustment gauge	09 99 000 0001 09 99 000 0311 09 99 000 0379	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 Multiple 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 0379 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		
Multiple crimping tool depth adjustment gauge	09 99 000 0379	Wire gauge 0,14 - 0,37 mm ² ø 1,00 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	Wire gauge 0.14 - 0.37 mm ² ø 1.00 0.5 - 1 mm ² ø 1.55 1.5 - 2.5 mm ² ø 1.80 4 mm ² ø 2.00	 ↑ order separately
Locator	09 99 000 0310		
Multiple crimping tool depth adjustment gauge	09 99 000 0379		
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>Multiple crimping tool depth adjustment gauge</p>	<p>09 99 000 0001</p> <p>09 99 000 0308</p> <p>09 99 000 0379</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>Multiple crimping tool depth adjustment gauge</p> <p>Locator</p> <p>Table fixing and foot switch for pneumatic crimping tool</p>	<p>09 99 000 0314</p> <p>09 99 000 0379</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</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> 	

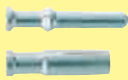


Stock items in bold type

Identification	Part No.	Drawing	Dimensions in mm
HARTING- crimping tool for coaxial contacts	09 99 000 0194	 <p>Use the middle crimping position</p>	
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	 <p>For wires 0.08 up to 10 mm²</p>	
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 70 A contacts (SW 2.5) 09 99 000 0375		
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	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	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		
Epoxy 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

Summary Han® Crimping tools



Identification		mm ²	AWG	Part No.											Contact removal tool					
Crimp contacts				Crimping tool							Crimping machine									
Series				09 99 000 0001	09 99 000 0110	09 99 000 0021	09 99 000 0303	09 99 000 0377	09 99 000 0194	20 99 000 1035	20 99 000 1033	20 99 000 1031	09 99 000 0246	09 99 000 0314	09 98 000 6000	09 98 000 9001	09 98 000 9002	09 98 000 9003		
Han® C	Power contacts Han® C 09 32 	1.5	16	x	x								x	x				x	09 99 000 0305 09 99 000 0381	
		2.5	14	x	x								x	x				x		
		4.0	12	x	x		x						x	x				x		
		6.0	10				x	x										x		
		10.0	8					x										x		
Han D®	Signal contacts Han D® 09 15 	0.14	26	x ²⁾	x	x							x	x ²⁾		x			09 99 000 0012 09 99 000 0052	
		0.25	24	x ²⁾	x	x							x	x ²⁾		x				
		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	x	x				
		FOC contacts 1 mm POF	–	–							x									
		Han E®	Power contacts Han E® 09 33 	0.14	26	x									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 0308	09 99 000 0304	09 99 000 0311	09 99 000 0022	09 99 000 0310	09 99 000 0022
Locator Han® C		x					
				x			
Han D®		x					
				x			
Han E®		x					
						x	
							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

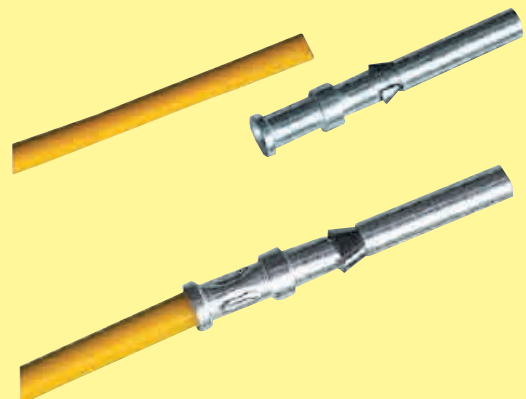


Features

- ❑ Fast stripping and crimping in one operation
- ❑ Basic unit in compact construction
- ❑ Simple handling due to ergonomic design
- ❑ For individual, turned male and female contacts (for the HARTING series Han® D, Han® E)
- ❑ Selective processing of male and female contacts (Wire gauge from 0.34 mm² to 4.0 mm², AWG 22 to AWG 12)
- ❑ Contact magazine with filling control
- ❑ Reproducible, top quality gas-tight crimp connections
- ❑ Infinitely variable adjustment parameters
 - Stripping depth
 - Stripping length
 - Crimping depth
 - Crimp contact feed rate
- ❑ Magazine empties automatically
- ❑ Adjustable feet for setting the height
- ❑ Low noise level
- ❑ For oil-free compressed air
- ❑ Air servicing unit with water separator and pressure reducer
- ❑ Very low setup effort
- ❑ Low maintenance costs

Technical characteristics

Dimensions:	
Height	400 mm
Width	555 mm
Depth	440 mm
Total weight:	Approx. 60 kg
Local 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 connection:	3 dm ³ / work cycle
Control system:	PLC
Work cycle trigger:	Sensor
Machine work cycle:	2 seconds (stripping and crimping)
Crimp type:	Four-notch crimping
Contact feed:	Vibratory bowl feed
Stroke counters:	Resettable daily counter and permanent counter



Identification

Part No.

Crimping machine TK

(Basic machine
without interchangeable unit)

09 98 000 6000

interchangeable units for Han D®
Han E®

09 98 000 6001

09 98 000 6002



Pack contents

- Crimping machine TK
 - with one mounted interchangeable unit
 - with 2.0 m connection cable and grounding plug
 - with 2.0 m pneumatic hose with plug-in nipple N9
- Plug gauge for setting the crimping depth
- Centering bushing for positioning the plug gauges
- Drawer for insulation pieces
- Drawer for holding contacts when the magazine is emptied
- Tool set for adjustments
- 1 set of stripping blades
- Operating instructions
- Declaration of conformity

Options

Interchangeable unit
with plug gauges



Forming blades
with feeding funnel





Features

- Basic unit in compact construction for pre-stripped wire
- Simple handling due to ergonomic design
- For individual, turned male and female contacts
- Selective processing of male and female HARTING contacts (wire gauge from 0.14 mm² to 10.0 mm², AWG 26 to AWG 8)
- Automatic contact feed
- Reproducible, top quality gas-tight crimp connections
- Non-slip, anti-vibration adjustable feet for setting the height
- Low noise level
- Can be transported with carrying handle
- Removable electric and pneumatic supply connections
- Maintenance interval counter
- Minimal setup effort
- Crimping depth can be set without tools
- Low maintenance costs
- Low follow-up costs for maintenance and repair
- Easy replacement of wearing components

Technical characteristics

Dimensions:	
Height	345 mm
Width	230 mm
Depth	400 mm
Total weight:	app. 24 kg
Local noise level:	62 dB (A)
Electrical connection:	230 V, 50 Hz
Power rating:	0.20 kW
Compressed air connection:	6 bar
Control system:	PLC
Work cycle trigger:	Footswitch
Machine work cycle:	1 second
Crimp type:	Four-point crimping
Contact feed:	Vibratory bowl feed
Stroke counters:	Resettable daily counter and permanent counter



Identification

Part No.

Crimping machine TC-C01

for Han D® contacts
 Han E® contacts
 Han® C contacts
 Other

09 98 000 9001
 09 98 000 9002
 09 98 000 9003
 On request



Included in the delivery

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

Options

Pneumatic maintenance unit



Wire guide



Working light

