



Pneumatic tools





i Decades of experience as well as **permanent optimization and further development** make the successful tools in the BZ and VNG series reliable partners in the industrial serial manufacturing and likewise in workshops and handicrafts.

A **robust construction** and **full equipment** including all necessary conversion parts and **extended accessories** as well as extensions like axial versions or angular rivet heads do not leave any option open.

For special applications we construct and manufacture **automations** or **process controls** according to your specifications.

BZ 103 A

Setting tool for blind rivets

pneumatic-hydraulic | with permanent or intervalic suction



BZ 103 A. The current version of the well-proven standard unit for reliable blind riveting.

A real classic: With reduced noise, very fast setting, with outstanding ergonomics and an extensive scope of supply with all the necessary accessories in high-quality packaging. Optimised nosepieces also ensure the reliable setting of blind rivets with very short studs. Individually adjustable suction air flow for the rivet stud.



Reliable, robust,
well proven in use.

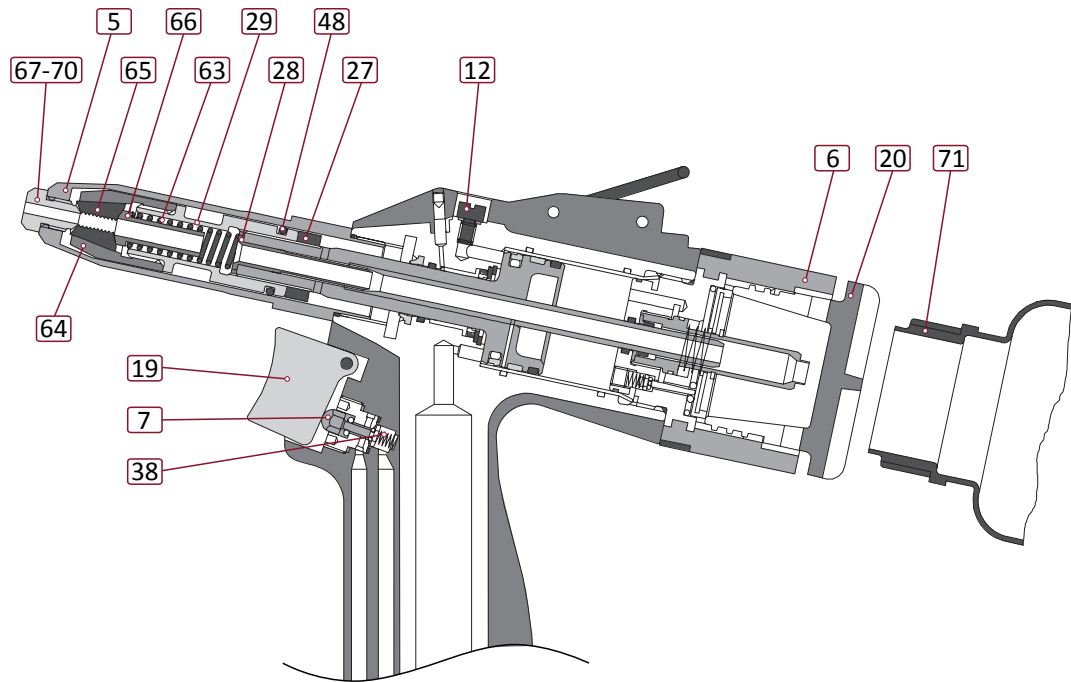
	2,4	3,0	3,2	4,0	4,8	5,0	6,0	6,4	8,0
Aluminium									
Steel									
Stainless steel									
Copper alloys									

	3,8 mm		5-7 bar		< 75 dB(A) (68,32)
	1,8 kg		18 mm		2,4 liter
	<ul style="list-style-type: none"> 4 nosepieces 1 set of clamping jaws 1 bottle hydraulic oil / incl. re-fill unit 2 mandrel collectors 		11.700 N at 7 bar		G 1/4 inside, installation left or right side

Item no. 320.103.000.000



Optimized. Very shallow standard nose pieces with reduced dog point improves the setting behavior.



Spare / Wear Parts and Accessories

5	321.101.000.016	Front sleeve
6	321.102.000.006	Mandrel capture comple
7	321.102.000.007	Release valve
12	321.101.000.027	Oil drain plug including o-ring
19	321.102.000.016	Trigger
20	321.102.000.017	Closing cap mandrel capture
27	321.102.000.023	M12 x 3 capture nut
28	321.121.000.121	Vacuum nozzle
29	321.102.000.025	Spacer
38	321.102.000.036	Pressure spring trigger
48	321.101.000.042	O-ring 15.0 x 2.0 NBR 90° Shore
63	311.045.000.013	Pressure spring clamping mechanism
64	311.045.000.010	Clamping sleeve
65	321.070.000.241	Clamping jaws (1 set = 3 pcs.)
66	311.055.000.020	Guide sleeve
71	321.082.000.010	Mandrel collector
unten	321.101.000.091	Wind deflector BZ tools

Nosepieces

67	321.070.000.240	Standard nosepiece 2.4 mm
68	321.085.000.123	Standard nosepiece 3.0/3.2 mm
69	321.085.000.124	Standard nosepiece 4.0 mm
70	321.085.000.125	Standard nosepiece 4.8/5.0 mm
o. Abb.	321.103.932.070	Extended nosepiece (7mm) 3.0/3.2 mm
o. Abb.	321.103.940.075	Extended nosepiece (7mm) 4.0 mm
o. Abb.	321.103.950.070	Extended nosepiece (7mm) 4.8/5.0 mm
o. Abb.	321.103.932.200	Extended nosepiece (20mm) 3.0/3.2 mm
o. Abb.	321.103.940.200	Extended nosepiece (20mm) 4.0 mm
o. Abb.	321.103.950.200	Extended nosepiece (20mm) 4.8/5.0 mm
o. Abb.	321.085.000.511	Extended nosepiece 5.0 mm Head 11.0 mm
o. Abb.	321.085.000.514	Extended nosepiece 5.0 mm Head 14.0 mm
	321.085.000.516	Extended nosepiece 5.0 mm Head 16.0 mm
o. Abb.	361.101.008.401	Nosepieces FERRO-BOLT blind rivet 4.8 mm
	321.103.716.052	Nosepieces for folding blind rivets 5.2 mm
	321.085.009.124	CERTO® blind rivet 4.0 mm
	321.085.009.125	CERTO® blind rivet 4.8/5.0 mm



Wind deflector
to divert the stud
suction air flow.



Use our interactive product
viewer for quick
identification of further
spare parts.

Pneumatic
accessories
on p.223

Extended front sleeves
and further accessories
pp 216/217

Special nosepieces can
be produced at short
notice for specific
customer applications.



BZ 123 A

Setting tool for blind rivets

pneumatic-hydraulic | with permanent or intervalic suction



BZ 123 A. The powerful rivet tool for blind rivets of up to 8.0 mm in diameter!

With a **very long stroke of 25 mm** it is also eminently suited for the setting of high-strength FERRO®-BOLT blind rivets. As with all pneumatic-hydraulic Honsel VVG rivet tools, it offers **reduced noise** and an optimised clamping mechanism with **outstanding ergonomics** and an **extensive scope of supply**.

Many special accessories are also available. Individual adaptations are possible.



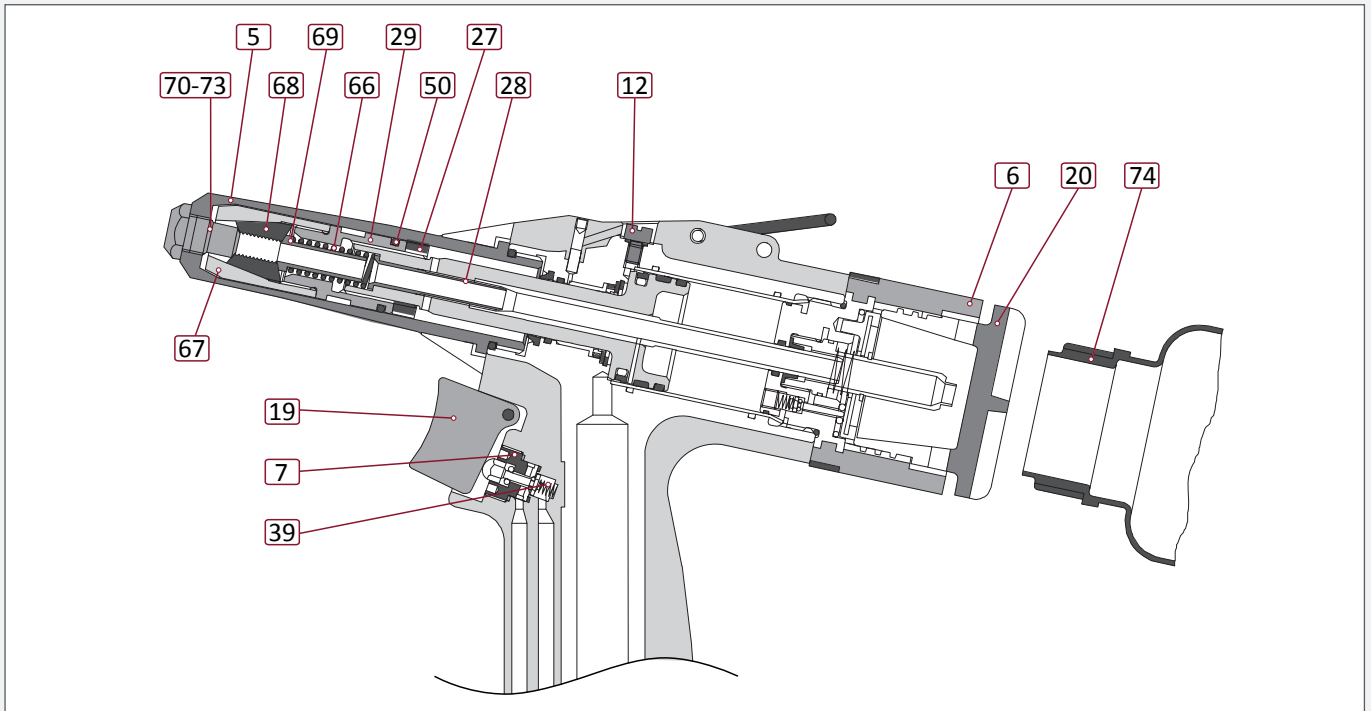
**Very powerful.
Large stroke.**

	2,4	3,0	3,2	4,0	4,8	5,0	6,0	6,4	8,0
				Aluminium					
				Steel					
				Stainless steel					
				Copper alloys					
	4,8 mm								
	2,34 kg								
	<ul style="list-style-type: none"> • 4 nosepieces • 1 set of clamping jaws • 1 bottle hydraulic oil / incl. re-fill unit • 2 mandrel collectors 								
				5-7 bar					
				25 mm					
				18.700 N at 7 bar					
				< 75 dB(A) (68,32)					
				3,5 liter					
				G 1/4 inside, installation left or right side					
Item no. 320.123.000.000									



The BZ 123 A is ideally suited for the setting of high-strength FERRO®-BOLT blind rivets. It is essential to use the special nosepieces shown on the right to ensure proper and functional locking of the riveting mandrel.





Spare / Wear Parts and Accessories

5	321.121.000.016	Front sleeve
6	321.102.000.006	Mandrel capture complete
7	321.102.000.007	Release valve
12	321.101.000.027	Oil drain plug including o-ring
19	321.102.000.016	Trigger
20	321.102.000.017	Closing cap mandrel capture
27	321.122.000.023	M14 x 1,5 capture nut
28	321.221.000.014	Vacuum nozzle
29	321.122.000.025	Spacer
39	321.102.000.036	Pressure spring trigger
50	321.120.000.014	O-ring 15.0x2.0 NBR 90°Shore
66	311.045.000.013	Pressure spring clamping mechanism
67	321.120.000.012	Clamping sleeve
68	321.120.000.011	Clamping jaws (1 set = 3 pcs.)
69	321.120.000.010	Guide sleeve
71	321.082.000.010	Mandrel collector
unten	321.221.000.065	Extended mandrel collector

Nosepieces

70	321.120.000.124	Standard nosepiece 4.0 mm
71	321.120.000.125	Standard nosepiece 4.8/5.0 mm
72	321.120.000.126	Standard nosepiece 6.0 mm
73	321.120.000.127	Standard nosepiece 6.4 mm
o. Abb.	321.123.940.070	Extended nosepiece (7mm) 4.0 mm
o. Abb.	321.123.950.070	Extended nosepiece (7mm) 4.8/5.0 mm
o. Abb.	321.123.960.070	Extended nosepiece (7mm) 6.0 mm
	321.123.964.070	Extended nosepiece (7mm) 6.4 mm
o. Abb.	321.123.940.200	Extended nosepiece (20mm) 4.0 mm
o. Abb.	321.123.950.200	Extended nosepiece (20mm) 4.8/5.0 mm
o. Abb.	321.123.960.200	Extended nosepiece (20mm) 6.0 mm
	321.123.964.200	Extended nosepiece (20mm) 6.4 mm
o. Abb.	321.120.000.511	Facade nose piece 5.0 mm Head 11.0 mm
o. Abb.	321.120.000.514	Facade nose piece 5.0 mm Head 14.0 mm
	321.120.000.516	Facade nose piece 5.0 mm Head 16.0 mm
o. Abb.	361.121.008.401	Nosepieces FERRO-BOLT blind rivet 4.8 mm
	361.121.008.601	Nosepieces FERRO-BOLT blind rivet 6.4 mm
	321.123.716.052	Nosepieces for folding blind rivets 5.2 mm
	321.123.716.063	Nosepieces for folding blind rivets 6.3 mm



Extended collecting bin



Use our interactive product viewer for quick identification of further spare parts.

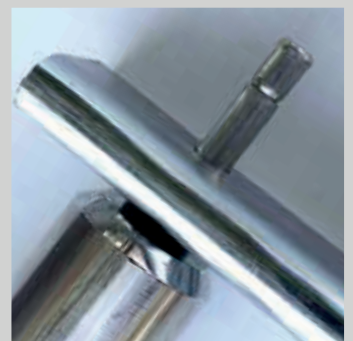
Pneumatic accessories on p.223

Extended front sleeves and further accessories pp 216/217

Special nosepieces can be produced at short notice for specific customer applications.



BZ 123 A with special front sleeve and nose piece for mounting of lashing rails with FERRO-BOLT blind rivets.



BZ 133 A

Setting tool for blind rivets

pneumatic-hydraulic | with permanent or intervalic suction



BZ 133 A. The powerful specialist for blind rivets of up to 8.0 mm in diameter!

Special high-strength FERRO®-BULB blind rivets are set conveniently and reliably according to the combination of the stroke and the very high setting force (24,000 N!). Our field service would be glad to provide you with all our pneumatic-hydraulic rivet tools. **Make an appointment!**



2,4	3,0	3,2	4,0	4,8	5,0	6,0	6,4	8,0
				Aluminium				
				Steel				
				Stainless steel				
				Copper alloys				

	4,8 mm		5-7 bar		< 75 dB(A)
	2,34 kg		18 mm		3,5 liter
	<ul style="list-style-type: none"> • 4 nosepieces • 1 set of clamping jaws • 1 bottle hydraulic oil / incl. re-fill unit • 2 mandrel collectors 		24.000 N at 7 bar		G 1/4 inside, installation left or right side

Item no. 320.133.000.000

Spare / Wear Parts and Nosepieces

321.120.000.124	Nosepiece 4.0 mm
321.120.000.125	Nosepiece 4.8/5.0 mm
321.120.000.126	Nosepiece 6.0 mm
321.120.000.127	Nosepiece 6.4 / 8.0 mm
361.122.000.022	Clamping sleeve
321.120.000.010	Guide sleeve
361.122.000.020	Clamping jaws
321.120.000.014	O-ring clamping mechanism
311.045.000.013	Pressure spring clamping mechanism

BZ 133 A



Eminently suitable for use with FERRO®-BULB blind rivets!



BZ 143 A

Setting tool for blind rivets

pneumatic-hydraulic | with permanent or intervalic suction



Clamping jaws with **trapezoidal grooves** specially designed to match the grooves in the rivet stud and a modified clamping mechanism guarantee reliable and **positive setting** of FERO®-BULB high-strength blind rivets (or comparable types) with a stud diameter from 3.80 to 6.15/6.5 mm!

Wear of the clamping jaws is minimised!



Perfected
for high-strength blind rivets
with 6.4 and 7.8 mm diameter
and grooved rivet stud!



2,4	3,0	3,2	4,0	4,8	5,0	6,0	6,4	8,0
							Aluminium	
							Steel	
							Stainless steel	

	6,5 mm		5-7 bar		< 75 dB(A)
	2,5 kg		18 mm		3,5 liter
	<ul style="list-style-type: none"> 2 nosepieces 1 set of clamping jaws 1 bottle hydraulic oil / incl. re-fill unit 2 mandrel collectors 		24.000 N at 7 bar		G 1/4 inside, installation left or right side

Item no. 320.143.000.000

Spare / Wear Parts and Nosepieces

321.528.200.066	Retension nosepiece 6.4 mm
321.528.200.067	Retension nosepiece 7.8 mm
321.528.045.080	Clamping jaws
321.143.000.010	Guide sleeve
321.143.000.012	Clamping sleeve BZ143
321.143.000.013	Pressure spring clamping mechanism BZ143
321.143.000.016	Front sleeve BZ143
321.143.000.025	Piston extension BZ143



The grooves in the stud are matched to the FERO®-BULB blind rivet.



BZ 143 A

EXTENDED FRONT SLEEVES



Particularly **low-lying rivet positions** can be excellently reached by the extended front sleeves.

These are immediately available from stock in a length up to 210 mm and can be easily mounted to existing tools.

The **extremely small diameter of 20 mm** makes processing possible even on very narrow, low-lying positions.

There are no blind rivets with extended mandrels necessary!

Extended front sleeves BZ 103 A (and BZ 102 A)	
Conversion kit complete 130 mm	321.103.010.130
Conversion kit complete 170 mm	321.103.010.170
Conversion kit complete 210 mm	321.103.010.210

Extended front sleeves BZ 123 A (and BZ 122 A)	
Conversion kit complete 130 mm	321.123.010.130
Conversion kit complete 170 mm	321.123.010.170
Conversion kit complete 210 mm	321.123.010.210

ANGULAR RIVET HEADS



Around the corner.

To be able to set blind rivets at difficult-to-reach places various **angular rivet heads** for mounting onto the BZ 103 A are available.

These angular rivet heads use setting forces between 5,000 N and 9,200 N with stroke length between 11 and 17 mm.

Angular rivet head 5000/11 5,000 N - 12 mm Hub Height with nosepiece 85.6 mm - Width 24.0 mm - Length 117.0 mm	321.102.000.600-1-1
Angular rivet head 9200/17 - for inox blind rivets up to 5.0 mm!! 9,200 N - 17 mm Hub Height with nosepiece 88.0 mm - Width 34.2 mm - Length 121.0 mm	360.008.800.000-2-1



**Combinable with DMSD-
Process monitoring!**

Special suspension or a vertical handling of the riveting tool.

Riveting tools with a pistol grip are optimal in their ergonomics for horizontal processing.

For the processing in vertical direction, especially in industrial applications, modified versions with the following features are available:

- extended front sleeve with soft grip
- modified trigger
- rivet tool bracket AXIAL (usable horizontally and vertically without mounting)

BZ 103 A AXIAL Item no. 320.103.000.000-2-1

FOOT CONTROLLED TRIGGER AND MANDREL DISCHARGE

Mandrel discharge

The special screw fitting with plug connector can be used as an alternative to the normal mandrel collector. The sheared mandrels can be discharged through the 2 m long hose into a large mandrel collector. Frequent emptying is no longer necessary – you can continue to work without interruption. The workplace is kept free of sheared rivet mandrels.

Mandrel discharge complet 321.102.000.018-1-1

Foot controlled trigger

Actuation of the riveter by foot controlled trigger to have both hands free for part handling. Ideal in combination with installation in an existing fixture / worktop.

BZ 103 A prepared for foot controlled trigger 320.103.000.000-20-1

Foot controlled trigger complete 321.103.001.504-1-1

Front sleeve/lock nut for installation* 321.101.000.016-2-1



* not illustrated

VNG 703

Setting tool for blind rivet nuts and blind rivet bolts
pneumatic-hydraulic | force-controlled



MOVIE

VNG 703. The force-controlled tool for fast handling of large numbers in serial manufacture..

The regulation through adjusting the necessary setting force guarantees that the blind rivet nut is always set in an **optimal and material-preserving** way. At the same time the VNG 703 features an **user-friendly conception** and **easy-to-use handling**. The switch from forward to backrun is extremely quick. Through light pressing on the mandrel the blind rivet nut is screwed on and after working screwed off automatically.



	M3	M4	M5	M6	M8	M10	M12
Aluminium							
Steel							
Stainless steel							
Steel							
Weight	2,5 kg						
Noise	< 75 dB(A) (68,32)						
Stroke	9 mm						
Pressure	20.000 N at 7 bar						
Speed	screwing 1800 rpm removing 2500 rpm						
Accessories	G 1/4 inside, installation left or right side						
	• conversion kits for blind rivet nuts						
	• 1 bottle hydraulic oil / incl. re-fill unit						

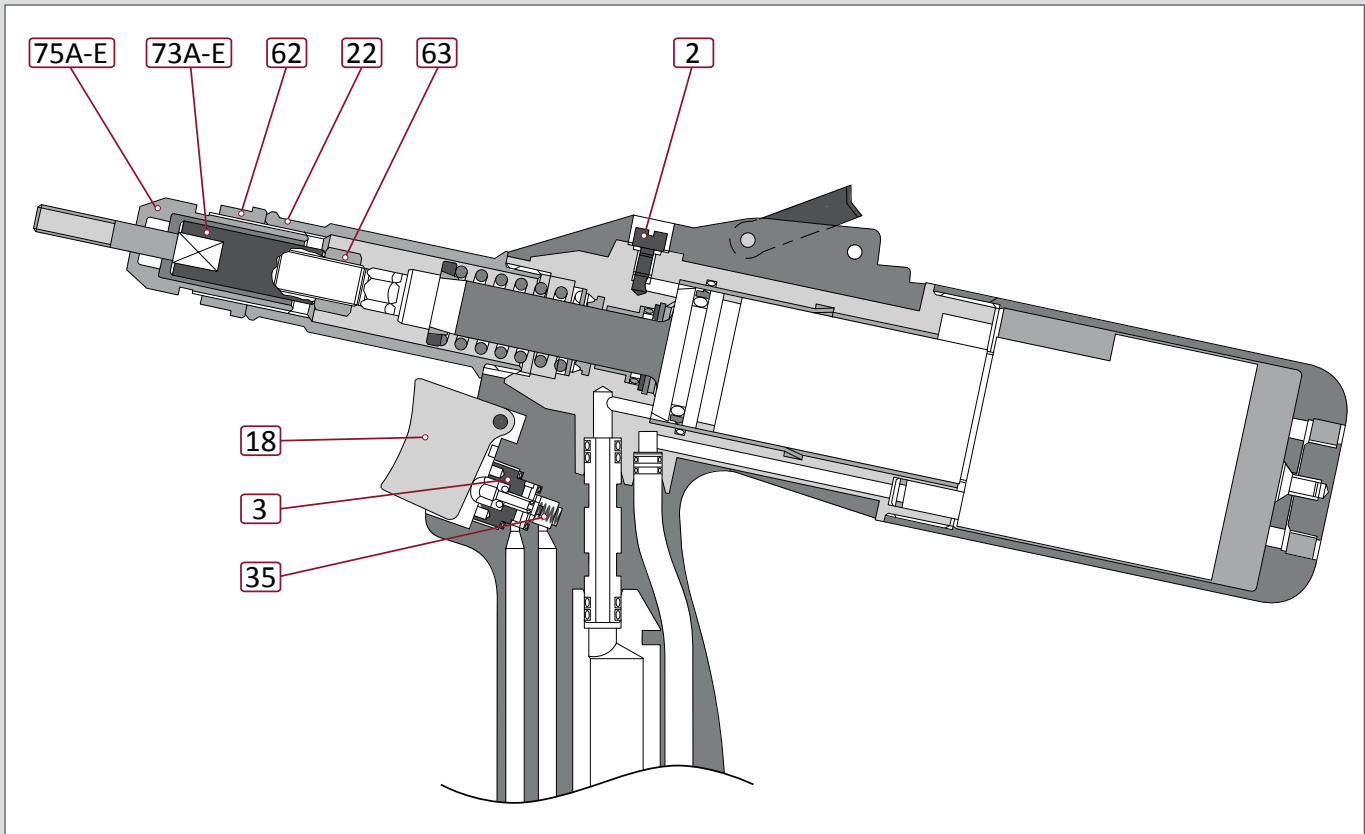
Item no. 320.703.000.000



Easy, **stepless adjustment** of the individually required setting force.



Special accessory angular adapter for keeping the needed rectangularity to the component.



Spare and Wear Parts

2	321.101.000.027	Oil drain plug including o-ring
3	321.102.000.007	Release valve
18	321.102.000.016	Trigger
22	321.703.000.024	Front sleeve
35	321.102.000.036	Pressure spring trigger
62	321.801.000.074	Lock nut M18x1
63	361.802.191.075	Lock nut M9x0.75

Nosepieces

75A	311.800.000.203	Nosepiece M3
75B	311.800.000.204	Nosepiece M4
75C	311.800.000.205	Nosepiece M5
75D	311.800.000.206	Nosepiece M6
75E	311.800.000.208	Nosepiece M8

Mandrels / Sleeves

73A	321.800.008.030	Mandrel M3
73B	321.800.008.040	Mandrel M4
73C	321.800.008.050	Mandrel M5
73D	321.800.008.060	Mandrel M6
73E	321.800.008.080	Mandrel M8
74B	321.800.009.040	Threaded sleeve Riffbolt M4
74C	321.800.009.050	Threaded sleeve Riffbolt M5
74D	321.800.009.060	Threaded sleeve Riffbolt M6



PARTS

Use our interactive product viewer for quick identification of further spare parts.



Pneumatic accessories on p. 223



Special accessories, nosepieces and mandrels, for example, extended, or for UNC/UNF coarse threads or for inside riveting locations are available on request.



Outstandingly suited to the setting of OPTO® multi-range blind rivet nuts (► pages 90/91).

VNG 903

Setting tool for blind rivet nuts and blind rivet bolts
pneumatic-hydraulic | stroke-controlled



MOVIE

VNG 903. The stroke-controlled solution for large tasks, optionally up to M12.

The mature design and the individual adjustment options make the VNG 903 your perfect partner for the powerful and reliable setting of all current forms of blind rivet nuts. These are **automatically threaded** onto the mandrel through light pressure. Threading is likewise stopped automatically; the threading time can be set. **Convenient, simple, practical.**

STROKE-CONTROLLED

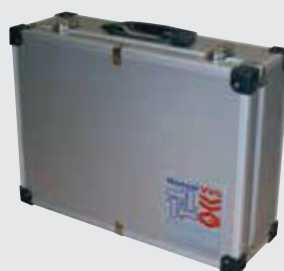
STROKE-CONTROLLED

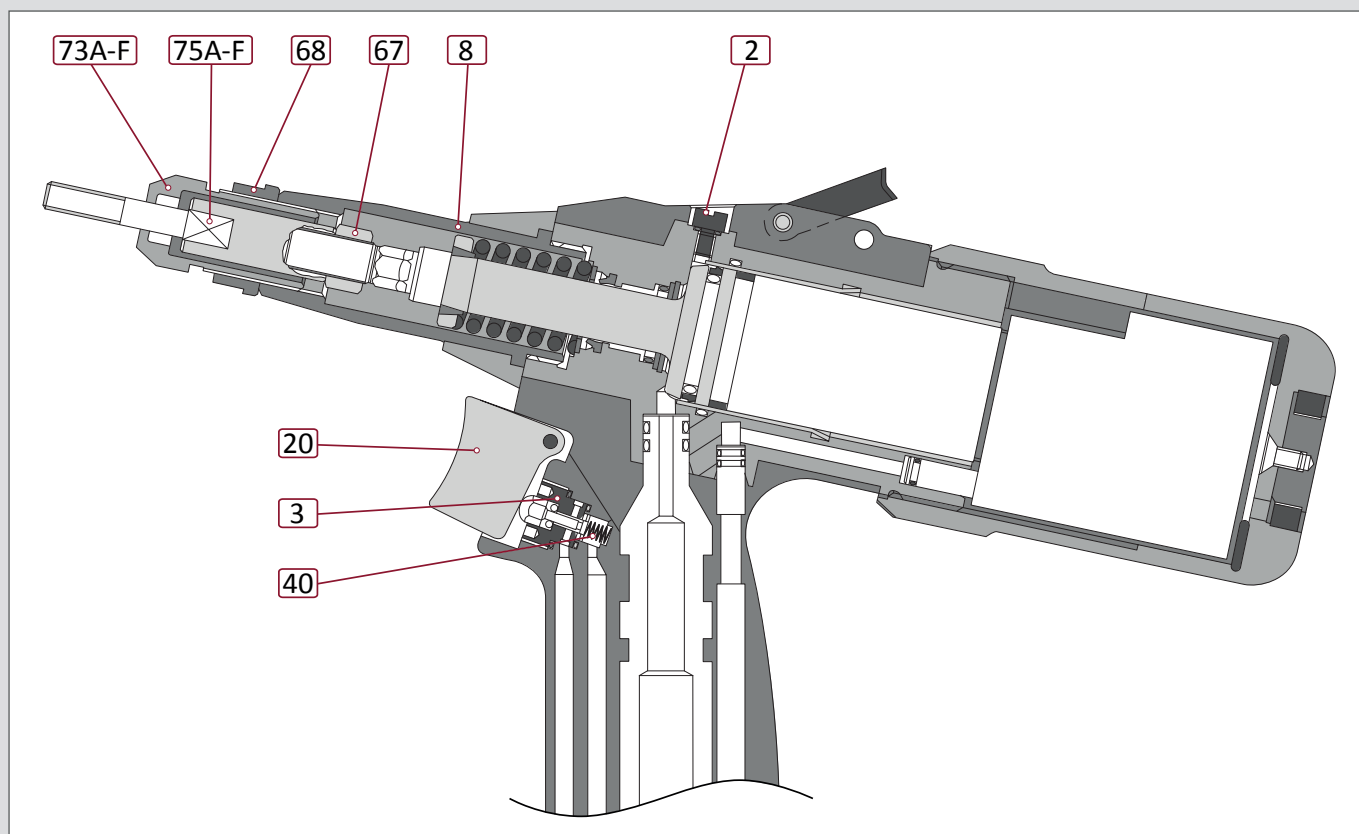
	M3	M4	M5	M6	M8	M10	M12
Aluminium							optional
Steel							optional
Stainless steel							optional
Steel							
Weight	2,7 kg						
Volume	7,5 liter						
Stroke	7 mm						
Power							
Speed							
Accessories							

Item no. 320.903.000.000



Exact adjustment of the setting stroke via scale on the adjustment cap.





Spare and Wear Parts

2	321.101.000.027	Oil drain plug including O-ring
3	321.102.000.007	Release valve
20	321.102.000.016	Trigger
8	321.903.000.016	Front sleeve
40	321.102.000.036	Pressure spring trigger
67	361.802.191.075	Lock nut M9x0,75
68	321.801.000.074	Lock nut M18x1

Nosepieces

73A	311.800.000.204	Nosepiece M4
73B	311.800.000.205	Nosepiece M5
73C	311.800.000.206	Nosepiece M6
73D	311.800.000.208	Nosepiece M8
73E	311.800.000.210	Nosepiece M10
73F	311.800.000.212	Nosepiece M12


PARTS

Use our interactive product viewer for quick identification of further spare parts.



Pneumatic accessories on p. 223

Mandrels / Sleeves

75A	321.800.008.040	Mandrel M4
75B	321.800.008.050	Mandrel M5
75C	321.800.008.060	Mandrel M6
75D	321.800.008.080	Mandrel M8
75E	321.800.008.100	Mandrel M10
(75F)	321.800.008.120	Mandrel M12
74A	321.800.009.040	Threaded sleeve Rifbolt M4
74B	321.800.009.050	Threaded sleeve Rifbolt M5
74C	321.800.009.060	Threaded sleeve Rifbolt M6
74D	321.800.009.080	Threaded sleeve Rifbolt M8



Special accessories, nosepieces and mandrels, for example, extended, or for UNC/UNF coarse threads or for inside riveting locations are available on request.



VNG 903 in daily use.
Guaranteed installation - powerful and reliable

Stroke circlip

The stroke circlip prevents any unwanted shifting of the adjusting cap.

> für VNG 701/801/802/903 :
321.801.000.080



VNG 753

Setting tool for folding blind rivet nuts
pneumatic-hydraulic | stroke-controlled












VNG 753. The special rivet tool for SFM-PL folding blind rivet nuts.

These can be set easily and perfectly through the **very long stroke** of up to 15 mm and the correspondingly **extended mandrel**.

See for yourself the capabilities of our pneumatic-hydraulic setting tools.

Our technical applications consultants would be glad to present them for you. Make an appointment.



M3	M4	M5	M6	M8	M10	M12
	optional		steel		optional	
 2.9 kg	 < 75 dB(A) (68.32)	 screwing 1800 rpm removing 2500 rpm				
 7.5 l	 5-7 bar	 G 1/4 inside, installation left or right side				
 8 - 15 mm	 19.000 N at 7 bar	 <ul style="list-style-type: none">• conversion kits for folding blind rivet nuts M6 and M8• 1 bottle hydraulic oil / incl. re-fill unit				
Item no. 320.753.000.000						

Spare / Wear Parts and Nosepieces

361.800.008.613	Mandrel M6
361.800.008.813	Mandrel M8
311.800.000.206	Nosepiece M6
311.800.000.208	Nosepiece M8
321.801.000.074	Lock nut M18x1
361.802.191.075	Lock nut M9x0,75



PNEUMATIC ACCESSORIES FOR BZ AND VNG TOOLS

Add to your order!

Have you considered the required pneumatic accessories? Save unnecessary expenditure and order the suitable accessories for the pneumatic tools of the BZ and VNG series with your tool purchase order!



No.	Description	Item no.
1	Angular pivoting fitting aluminium incl. hose with 1/4" outside thread and hose coupling	321.121.000.053-3-1
2	Pivoting threaded pipe angle, aluminium	321.121.000.053-1-1
3	Pivoting threaded pipe angle, stainless steel	321.121.000.053-2-1
4	Valve extension R1/8"	321.121.000.021
5	Screw-in hose connector -set- G 1/4" 6 mm	321.121.000.057
6	Screw-in hose connector -set- G 1/4" 9 mm	321.121.000.058
7a	Plug connection 7mm G 3/8 for compressed-air service unit	320.848.000.009
7b	Plug connection 7mm G 1/4 for pivoting threaded pipe angle	320.848.000.012
8	Coupling G 1/4"	320.848.000.010
9	Pressure controller 7 bar	320.848.000.004
10A	Compressed air spiral hose incl. coupling and plug connection -length 4m-	320.848.000.005
10B	Compressed air spiral hose incl. coupling and plug connection -length 6m-	320.848.000.006
10C	Compressed air spiral hose incl. coupling and plug connection -length 8m-	320.848.000.008
11	Oil re-fill unit for all tools of BZ- and VNG-series	321.101.006.467
12	Filter regulator G3/8 complete	320.848.000.001
13	Maintenance unit, 2-part, complete	320.848.000.002
---	Replacement filter for filter regulator	320.848.000.003
---	1 litre of pneumatic motor oil	320.848.000.011

For smooth operation of our pneumatic tools please note implicitly the information in our operating manuals! Important for preserving performance and to avoid damages are the **characteristics of the used compressed air**. Water condensation compromises the lubrication and causes corrosion inside the tool! The motors need to be greased continuously! **We recommend implicitly the use of maintenance units** for clean and greased air (VNG) or **filter-pressure reducers** for clean and dry air (BZ)!



Filter regulator G3/8 with filter-pressure regulator, manometer, plastic protective cage, fastening angle, plug connection G3/8 and coupling.



Maintenance unit G3/8, 2-part, including plastic protective cage, fastening angle, plug connection G3/8, coupling and 1 litre of pneumatic motor oil.

BZ.VNG. **DMSD 2G** *Process monitoring*



- In-process monitoring of blind rivet and blind rivet nut setting operations
- Early detection of quality deviations
- Minimisation of QA effort
- Quick feedback through transparency in the production process
- Traceable process results
- Reduction in additional test routines.



For more than 25 years, DMSD has been synonymous with **process monitoring in fastener technology.**

Display module – DIM



DIM and MEM directly connected



Measurement recording module – MEM

The measurement recording module can be connected to the display module via a connecting cable with a maximum cable length of 5 m or can be plugged in directly.

Almost any distance between the modules can be realised by incorporating DIMs and MEMs in a company-provided Ethernet. Alternatively, the measurement recording module (MEM) is directly connected to the display module (DIM).

2G *benefits at a glance*

- Connection possibility for measurement transducers with different output signals from DMS to incremental and piezo measurement transducers without additional amplifiers.
- The resolution of the distance measurement has been improved from 0.1 mm to 0.01 mm. This therefore complies with the VDA demand for 10 times resolution when recording with regard to the evaluation.
- The facility for monitoring maximum force and two additional control windows has been supplemented by two freely parametrisable control windows, even to the extent of envelope curve monitoring. It is possible to evaluate up to 10 evaluation elements in one measuring program.
- Up to 108 measuring programs can be stored in the monitoring.
- Up to 20 master programs are available for the monitoring.
- Parametrisation and programming take place via the firmware installed in the controller – no additional program is required.
- Operation and remote maintenance is possible using a VPN tunnel via a VNC viewer. The persons involved can access the functions of the software via the Internet and monitor the actions. The VNC viewer can also be connected to a large monitor.
- The measurement evaluation module (MEM) can be used with the display module (DIM) or also as a black box module without a display module.

BZ.VNG. DMSD2G

Up to eight measurement recording modules can be connected to a display module for extended applications.

When using a VNC viewer, applications can also alternatively be implemented that do not have a display module.



Up to 8 MEMs can be connected to a DIM and displayed simultaneously.

As well as the last process values, a history of the previous setting processes can be called up via the MEM.

The process monitoring measuring programs and settings can be stored on a USB storage medium, from where they can also be restored.

The process values can be archived on a USB storage medium or on a server via Ethernet (USB storage medium, server or QDAS).

The process values can be stored in Q-DAS, XML, CSV, PDF, QDA-9 or IPM 5.0 format. Process values stored in CSV format can be subjected to further processing using Excel.

A scanner for recording the components can be directly attached to the MEM. If a scanner is incorporated, the code that is read in is also stored, making tracking possible.

Connection to a customer controller is possible via digital inputs and outputs and via a field bus (PROFINET, PROFIBUS DP and EtherCAT).

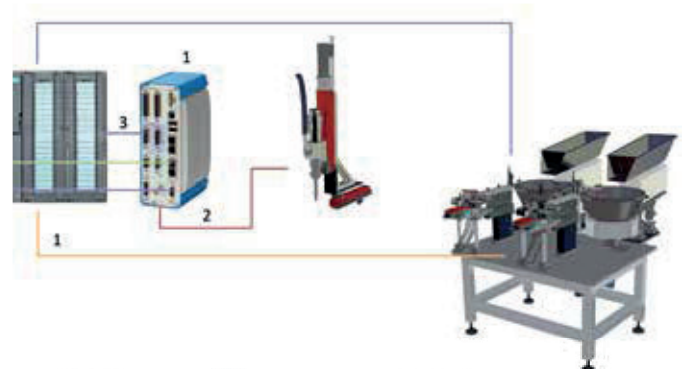
Connection option for hand-held tools

1. Hand scanner
2. USB storage medium
3. Server
4. Digital inputs (5x) and outputs (8x)
 - PROFINET
 - EtherCAT
 - PROFIBUS DP
5. RivSmart tools via WiFi
6. BZ and VNG components



Connection option for automatic units

1. Machine controller with PLC via digital inputs and outputs or fieldbus
2. Sensors for process monitoring
3. Communication: SPS <-> MEM via digital inputs and outputs or fieldbus



Connection between MEM and programming user interface

1. MEM fitted directly on DIM.
2. Distance between DIM and MEM up to 5 m via cable.
3. Operation via DIM connected via Ethernet.
4. Operation with VNC viewer on machine control unit via Ethernet.
5. Operation with VNC viewer on PC via Ethernet.
6. Remote maintenance via Internet and VPN.

