

Fiber Optic Cable Installation

3 in 1

SLIDE, BLOW, LUBRICATE

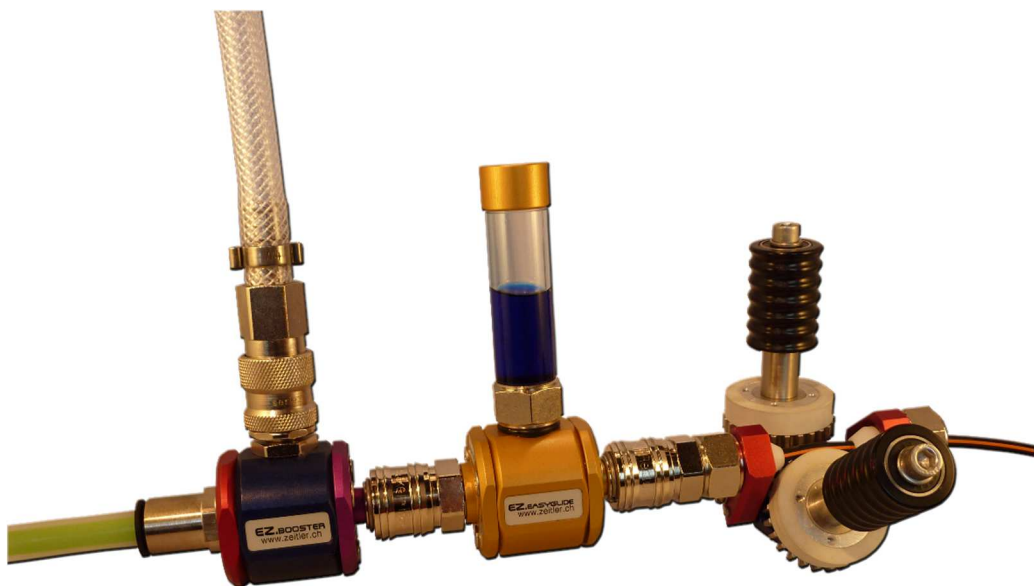
EZ.EASYGLIDE



EZ.BOOSTER



EZ.SPEEDY



Content

1. IMPORTANT INSTRUCTIONS	4
2. SAFETY PRECAUTIONS AND WORKING TECHNIQUES	4
3. SCOPE OF SUPPLY EZ.SPEEDY	7
4. STANDARD EQUIPMENT, SPARE PARTS EZ.SPEEDY	7
5. ACCESSORIES, EZ.SPEEDY	9
6. EZ.SPEEDY – APPLICATION, STEP BY STEP	11
7. SCOPE OF SUPPLY EZ.BOOSTER	13
8. STANDARD EQUIPMENT, SPARE PARTS EZ.BOOSTER	13
9. ACCESSORIES, SPARE PARTS EZ.BOOSTER	15
10. EZ.BOOSTER – APPLICATION, STEP BY STEP	16
11. SCOPE OF SUPPLY EZ.EASYGLIDE	17
12. STANDARD EQUIPMENT, SPARE PARTS EZ.EASYGLIDE	17
13. ACCESSORIES EZ.EASYGLIDE	18
14. EZ.EASYGLIDE– APPLICATION, STEP BY STEP	19
15. EZ.SPEEDY IN COMBINATION WITH EZ.BOOSTER – APPLICATION STEP BY STEP	19
16. EZ.EASYGLIDE IN COMBINATION WITH EZ.SPEEDY - APPLICATION STEP BY STEP	21
17. EZ.EASYGLIDE IN COMBINATION WITH EZ.BOOSTER – APPLICATION STEP BY STEP	22
18. EZ.SPEEDY / EZ.BOOSTER //EZ.EASYGLIDE – APPLICATION ALL TOGETHER	23
19. CLEANING	23
20. STORAGE	23
21. TRANSPORT	23
22. TROUBLESHOOTING EZ.SPEEDY	24
23. TROUBLESHOOTING EZ.BOOSTER	24
24. TROUBLESHOOTING EZ.EASYGLIDE	25
25. APPLY FOR SUPPORT?	26
26. MAINTENANCE AND REPAIR	27
27. COMPRESSOR	27
28. LUBRICANTS	28
29. TECHNICAL DATA	28
30. GUARANTEE / LEGAL DETAILS	29
31. CE DECLARATION OF CONFORMITY	30

1. Important Instructions

Congratulations on your purchase of an EZ50 Stringing Gun which is a product of the highest quality. The following instructions must be observed without fail and relevant regulations complied with, in order to guarantee the product remains functionally efficient and has a long service life.

As with all electrical equipment, when using this Stringing Gun, particular care must be taken to avoid personal injury and damage to equipment.

2. Safety Precautions and Working Techniques



Special safety precautions must be observed.



It is important to read and understand the operating instructions before using your tool for the first time. Always keep the operating instructions for future reference. Non-observance of the safety precautions may result in serious or even fatal injury.

Observe all regulations such as local safety regulations, standards and ordinances of Government, Insurances, and Associations etc.

If you have not used this tool before: Make sure to be instructed by a person knowing how to operate this tool properly.

Minors should never be allowed to use this tool except for minors over the age of 16 being trained under supervision during their apprenticeship.

Do not lend or rent your tool without the operating instructions. Be sure that anyone using this tool understands the information contained in the operating instructions.

Keep the tool away from spectators, children and animals.

Inform all people present on possible dangers.

When the tool is not in use place it so that it does not endanger others. Secure it against unauthorized use.

The user of the tool is responsible for avoiding injury to third parties or damage to their property.

Special safety regulations EZ.SPEEDY

The EZ.SPEEDY is powered by most types of electrical drills and screwdrivers. Please follow the instructions of the respective manufacturer. Read the instruction manual before the first application.

Using external power supply for the electric drill/screwdriver make sure the connector cable does not build a tripping hazard.

Special safety regulations EZ.BOOSTER

The EZ.BOOSTER is powered by pressed air of a standard compressor. Please follow the instructions of the respective manufacturer. Read the instruction manual before the first application.

Special safety regulations EZ.EASYGLIDE

As long as the EZ.EASYGLIDE is operated exclusively with the special lubricant BLUEGLISS, no special safety regulations apply.

ATTENTION: Do not mix lubricant types. Reactivity Hazard! Please clean EZ.EASYGLIDE components thoroughly with alcohol before filling with a new lubricant type.

Accessories and Spare Parts

Only use genuine replacement parts and accessories that are explicitly approved by ZEITLER AG. These parts are specifically designed to match your tool and meet your performance requirements and also to avoid the risk of accidents and damage to the tool. If you have any questions please consult an authorized servicing dealer.

Never attempt to modify your tool in any way since this will increase the risk of personal injury. ZEITLER AG excludes all liability for personal injury and damage to property caused while using unauthorized attachments.

Engineering improvement

ZEITLER's philosophy is to continually improve all of their products. For this reason, we may modify the design, engineering and appearance of our products periodically.

Therefore, some changes, modifications and improvements may not be covered in the operating instructions. No claims can be derived out of details and pictures of this operating manual.

Physical Condition

To operate this tool you must be rested, healthy and in good physical and mental condition. If your health condition does not allow physical effort, check with your doctor before operating this tool.

Do not operate this tool if you are under the influence of any substance (e.g. alcohol, medicine, drugs) which might affect your capacity of reaction or judgement.

Application

The EZ.SPEEDY and the EZ.BOOSTER are exclusively assigned for feeding or blowing fiber optic cables (Ø 0.5 to 8mm) in specially designed and planned cable protection conduits.

The EZ.EASYGLIDE is exclusively assigned to lubricate fiber optic cables (Ø 0.5 to 8mm) with special lubricant.

The use of the tools for other purposes is not permitted and can lead to accidents or damage to the tool or cable. Never attempt to modify your tool in any way since this will increase the risk of personal injury and damaging the tool.

Personal protective equipment

Wear proper protective clothing and equipment.



Clothing must be sturdy but allow complete freedom of movement. Wear snug-fitting clothing, an overall and jacket combination, do not wear a work coat.



Avoid wearing scarves, neckties and jewellery which could get pulled into the tool.



Tie up and confine long hair (e.g. with a hair net, cap, hard hat, etc.)



Wear sturdy shoes with non-slip soles.



Wear safety glasses and 'personal' hearing protection, e.g. earplugs or ear muffs.

Caution!

Improper use/application, modifications and/or maintenance can result in severe personal injury and/or property damage!

3. Scope of supply EZ.SPEEDY

Complete set in carry on plastic case

- Art.100194 (0,5-1,0mm)
- Art.100285 (1,0-2,0mm)
- Art.100286 (2,0-3,0mm)
- Art.100287 (3,0-4,0mm)
- Art.100288 (4,0-5,0mm)
- Art.100289 (5,0-6,0mm)
- Art.100290 (6,0-7,0mm)
- Art.100291 (7,0-8,0mm)



4. Standard equipment, spare parts EZ.SPEEDY

1 x EZ.SPEEDY



- Art.100195
- Art.100196

1 x entrance plate
1 x exit plate



- Art.100266

2 x spur gear



- Art.100206

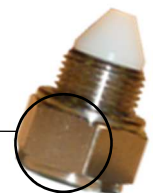
2 x handle

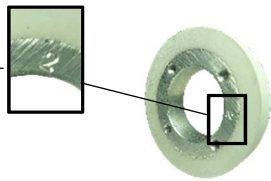











- Art.100258 (0,5-1,0mm)
- Art.100259 (1,0-2,0mm)
- Art.100260 (2,0-3,0mm)
- Art.100261 (3,0-4,0mm)
- Art.100262 (4,0-5,0mm)
- Art.100263 (5,0-6,0mm)
- Art.100264 (6,0-7,0mm)
- Art.100265 (7,0-8,0mm)

- Size 1
- Size 2
- Size 3
- Size 4
- Size 5
- Size 6
- Size 7
- Size 8

2 x Cable guide



Art.100197 Art.100199 Art.100201 Art.100203	Size «0» Size «2» Size «4» Size «6»	
2 x rubber roller		
Art.100218 Art.100219 Art.100220 Art.100221 Art.100222	1 x Tube coupling (outer) ø 6mm 1 x Tube coupling (outer) ø 8mm 1 x Tube coupling (outer) ø 10mm 1 x Tube coupling (outer) ø 12mm 1 x Tube coupling (outer) ø 14mm	
Art.100292	1 x Bit holder 8mm	
Art.100184	1 x Tube reductor 8/7mm	
Art.100277	1 x Coupling front	
Art.100317	1 x Plug-in nipple	
Art.100270	1 x Small container for spare screws	
Art.100281	8 x Countersunk screw	
Art.100271	1 x Allen key 5mm	
Art.100272	1 x Wrench 8mm	

5. Accessories, EZ.SPEEDY

We are always trying to improve and optimize the range of accessories and spare parts. You will find the current status in our online shop.

Art.100318 (0,5-2,0mm) Art.100319 (2,0-3,0mm) Art.100320 (3,0-4,0mm)	Cable guide „Gold“ for very soft cables	
Art.100321	Handle holder	
Art. 100391	EZ.SPEEDY mounting block	
Art. 100549	Safety handle	
Art.100308 (0,5-1,0mm) Art.100293 (1,0-2,0mm) Art.100294 (2,0-3,0mm) Art.100295 (3,0-4,0mm) Art.100296 (4,0-5,0mm) Art.100297 (5,0-6,0mm) Art.100298 (6,0-7,0mm) Art.100299 (7,0-8,0mm)	Upgrade set	
Art.100172 (10 bar) Art.100315 (15 bar)	Compressor	
Art.100155	Air hose (3 meter)	
Art.100323 (5mm) Art.100326 (10mm) Art.100329 (15mm)	„Lubriballs“ Cleaning and lubricating balls	
Art. 100342	Bluegliss 125 ml (special lubricant)	

Art.100332

Prelube 5000 (special lubricant)



Art.100338

Tube coupling (outer) ø 16mm



Art.100336

Ball tap



6. EZ.SPEEDY – Application, step by step

	Your EZ.SPEEDY comes assembled for use without additional equipment (rollers are mounted) for the cable dimension you specified. Please check all screws before use.
1.	<p>Check, if rubber rollers according to fiber optic cable dimension are assembled. (Dimension is stamped in the aluminum ring of the role)</p> <p>Before assembling, apply some grease on the inside of the aluminum ring and the shaft on which the gear is pushed. If using 2 different roller dimensions (check table below), the roller with larger profil radius has to be assembled on the fix part or EZ.SPEEDY</p> <p>Correct roller size according to cable dimension:</p> <p>0,5 to 1mm → 2 x Roller „0“ 1 to 2mm → 2 x Roller „0“ 2 to 3mm → 1 x Roller „0“ + 1 x Roller „2“ 3 to 4mm → 2 x Roller „2“ 4 to 5mm → 1 x Roller „2“ + 1 x Roller „4“ 5 to 6mm → 2 x Roller „4“ 6 to 7mm → 1 x Roller „4“ + 1 x Roller „6“ 7 to 8mm → 2 x Roller „6“</p>
2.	<p>Choose and assemble cable guides according to fiber optic cable dimension. (Dimension is stamped in hex)</p> <p>Correct cable guide according to cable dimension:</p> <p>0,5 to 1mm → Cable guide „1“ or Cable guide Gold „2“ (only on one side) 1 to 2mm → Cable guide „2“ or Cable guide Gold „2“ (only on one side) 2 to 3mm → Cable guide „3“ or Cable guide Gold „3“ (only on one side) 3 to 4mm → Cable guide „4“ or Cable guide Gold „4“ (only on one side) 4 to 5mm → Cable guide „5“ 5 to 6mm → Cable guide „6“ 6 to 7mm → Cable guide „7“ 7 to 8mm → Cable guide „8“</p> <p>Warning: When using "Cable Guide Gold"!</p> <p>The "Cable Guide Gold" may only be used on the side where the cable leaves the roller. On the other side, the standard cable guide shall be installed!</p>
3.	<p>Check conduit for permeability.</p> <p>(Screw correct* tube connection on plug-in nipple (Art. 100317), connect it to the conduit and to the compressor and blow air through) - in case of poor air performance, see chapter "Troubleshooting".</p> <p>*according to conduit size</p>
4.	<p>If needed, moisten inside of conduit with lubricant e.g. Bluegliss (Art. 100342) or Prelube 5000® (Art. 100332) (Pour lubricant in conduit and add a Lubriball, then blow it through the conduit. Repeat several times until lubricant is evenly distributed. Quantities - see chapter "Lubricant") or use EZ.EASYGLIDE to lubricate cable.</p> <p>Caution: ONLY use special lubricant for fiber optic applications!</p>
5.	Screw tube coupling according to chosen conduit size in both cable guides.
6.	Connect a 10 to 20 cm long piece of conduit to the insert side. This ensures that the cable is guided gently and precisely to the rubber rollers.
7.	Insert the cable into the EZ.SPEEDY.
8.	Plug bit holder (Art. 100292) on the cordless drill.

9.	<p>Set / Check torque.</p> <ol style="list-style-type: none"> 1. Set the torque of the cordless drill to the lowest level. 2. Close handles, attach handle holder if available (not included in the set). 3. Fix the cable or ask second person to hold it. 4. Place the cordless drill and start slowly. 5. If torque clutch slides, increase torque level to next step. 6. Repeat step 4 to 5 until torque clutch does no longer slide. 7. Now set the torque clutch one step back. 8. The torque is now well adjusted for the cable you are using. 9. Open handles (if using handle holder remove it first).
10.	Connect EZ.SPEEDY to the conduit.
11.	Insert fiber optic cable manually into the conduit (approx. 50-100 cm).
12.	Close handles, attach handle holder (art. 100321) if available (not included in the set).
13.	Plug the cordless drill to the hexagonal of EZ.SPEEDY and start the cable pushing process slowly. Speed might be increased gradually if cable pushing runs well (max. 400 rpm).
14.	<p>Cable is gradually pushed into the conduit.</p> <p>Warning: If using lubricants do not pull back the cable using EZ.SPEEDY. The rubber rollers will get in contact with the lubricant and the adhesion of the rollers is reduced. (If this happened, rubber rollers must be cleaned with alcohol before next use)</p>
15.	Pay attention to the insertion speed/torque until the cable pushing is completed (make adjustments if needed).
16.	Stop and remove cordless drill.
17.	Open handles (if using handle holder remove it first).
18.	Release conduit from tube coupling and remove EZ.SPEEDY.
19.	Cut cable to the desired length.
20.	Do you want to feed more conduits with same cable, repeat procedure from step 10 th
21.	If not, release cable from EZ.SPEEDY, clean it (see chapter Cleaning) and properly store it in the provided plastic case.



7. Scope of supply EZ.BOOSTER

Complete set in carry on plastic case

- Art.100208 (0,5-1,0mm)
- Art.100209 (1,0-2,0mm)
- Art.100210 (2,0-3,0mm)
- Art.100211 (3,0-4,0mm)
- Art.100212 (4,0-5,0mm)
- Art.100213 (5,0-6,0mm)
- Art.100214 (6,0-7,0mm)
- Art 100215 (7,0-8,0mm)



8. Standard equipment, spare parts EZ.BOOSTER

Art. 100216	1 x EZ.BOOSTER	
Art.100224 (0,5-1,0mm) Art.100225 (1,0-2,0mm) Art.100226 (2,0-3,0mm) Art.100227 (3,0-4,0mm) Art.100228 (4,0-5,0mm) Art.100229 (5,0-6,0mm) Art.100230 (6,0-7,0mm) Art.100231 (7,0-8,0mm)	1 x Guide head	
Art.100242 (0,5-1,0mm) Art.100243 (1,0-2,0mm) Art.100244 (2,0-3,0mm) Art.100245 (3,0-4,0mm) Art.100246 (4,0-5,0mm) Art.100247 (5,0-6,0mm) Art.100248 (6,0-7,0mm) Art.100249 (7,0-8,0mm)	1 x Connection plate	
Art.100233 (0,5-1,0mm) Art.100234 (1,0-2,0mm) Art.100235 (2,0-3,0mm) Art.100236 (3,0-4,0mm) Art.100237 (4,0-5,0mm) Art.100238 (5,0-6,0mm) Art.100239 (6,0-7,0mm) Art.100240 (7,0-8,0mm)	1 x Entrance plate	
Art.100218 Art.100219 Art.100220 Art.100221 Art.100222	1 x Tube coupling for ø 6mm 1 x Tube coupling for ø 8mm 1 x Tube coupling for ø 10mm 1 x Tube coupling for ø 12mm 1 x Tube coupling for ø 14mm	

Art.100317 1 x Plug-in nipple



Art.100184 1 x Tube reductor 8/7mm



Art.100270 1 x Small container for rubber discs



Art.100250 (0,5-1,0mm) 15 x Rubber disc

Art.100251 (1,0-2,0mm)

Art.100252 (2,0-3,0mm)

Art.100253 (3,0-4,0mm)

Art.100254 (4,0-5,0mm)

Art.100255 (5,0-6,0mm)

Art 100256 (6,0-7,0mm)

Art.100257 (7,0-8,0mm)



Art.100027 1 x Small container (25x75 mm)



Art.100268 6 x Countersunk screw










Art.100269 1 x TORX Wrench



9. Accessories, spare parts EZ.BOOSTER

We are always trying to improve and optimize the range of accessories and spare parts. You will find the current status in our online shop.

Art.100172 (10 bar) Art.100315 (15 bar)	Compressor	
Art.100300 (0,5-1,0mm) Art.100301 (1,0-2,0mm) Art.100302 (2,0-3,0mm) Art.100303 (3,0-4,0mm) Art.100304 (4,0-5,0mm) Art.100305 (5,0-6,0mm) Art.100306 (6,0-7,0mm) Art.100307 (7,0-8,0mm)	Upgrade set	
Art.100155	Air hose (3 meter)	
Art.100323 (5mm) Art.100326 (10mm) Art.100329 (15mm)	„Lubriballs“ Cleaning and lubricating balls for conduits ø 3-4 mm for conduits ø 4-7 mm for conduits ø 7-12 mm	
Art. 100342	Bluegliss 125 ml (special lubricant)	
Art.100332	Prelube 5000 (lubricant)	
Art.100338	Tube coupling for ø 16mm	
Art.100336	Ball tap	

10. EZ.BOOSTER – Application, step by step

.	Your EZ.BOOSTER comes assembled for use without additional equipment (green plate is mounted) for the cable dimension, you specified. Please check all screws before use.
1.	Get compressor ready to use. (Performance data, see chapter "compressor")
2.	Certify that the installed cable guide head (red) is according to chosen cable dimension. If not, install correct cable guide head.
3.	Check if rubber disk (according to chosen cable dimension) is on place.
4.	Check, if installed entrance plate (green) is according to chosen cable dimension.
5.	Check conduit for permeability. (Screw tube connection according to conduit size on plug-in nipple, connect it to the conduit and to the compressor and blow air through) - In case of poor air performance, see chapter "Troubleshooting".
6.	If needed, moisten inside of conduit with lubricant e.g. Bluegliss (Art. 100342) or Prelube 5000® (Art. 10032) (Pour lubricant in conduit and add a Lubriball, then blow it through the conduit. Repeat several times until lubricant is evenly distributed. Quantities - see chapter "Lubricant") or use EZ.EASYGLIDE to lubricate cable. Caution: ONLY use special lubricant for fiber optic applications!
7.	Unscrew tube coupling from plug-in nipple and screw to guide head (red).
8.	Insert fiber optic cable manually through entrance plate and EZ.BOOSTER
9.	Connect EZ.BOOSTER to conduit and insert approx. 50-100 cm of the cable into conduit.
10.	Connect air hose of compressor to EZ.BOOSTER and start compressor. If available, use ball tap (100336) to control air flow.
11.	Insert fiber optic cable carefully and gradually into conduit. (Caution, fiber optic cable must not be bent. In case of difficulties add EZ.SPEEDY)
12.	If cable pushing is completed, remove air hose of compressor carefully from EZ.BOOSTER. If using ball tap, close air supply.
13.	Wait until pressure is balanced in the conduit.
14.	Release conduit from tube coupling and gently remove EZ.BOOSTER and cut fiber optic cable to desired length.
15.	Do you want to feed more conduits with same cable, repeat procedure from step 9.
16.	If not, release cable from EZ.BOOSTER, clean it (see chapter Cleaning) and properly store it in the provided plastic case.





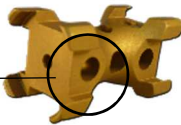
11. Scope of supply EZ.EASYGLIDE


Complete set in carry on plastic case


- Art.100343 (0,5-1,0mm)
- Art.100344 (1,0-2,0mm)
- Art.100345 (2,0-3,0mm)
- Art.100346 (3,0-4,0mm)
- Art.100347 (4,0-5,0mm)
- Art.100348 (5,0-6,0mm)
- Art.100349 (6,0-7,0mm)
- Art.100350 (7,0-8,0mm)





12. Standard equipment, spare parts EZ.EASYGLIDE

Art.100360		1 x EZ.EASYGLIDE basic body	
Art. 100369		1 x Thread plate	
Art.100370 Art.100371 Art.100372 Art.100373 Art.100374 Art.100375 Art.100376 Art.100377	(0,5-1,0mm) (1,0-2,0mm) (2,0-3,0mm) (3,0-4,0mm) (4,0-5,0mm) (5,0-6,0mm) (6,0-7,0mm) (7,0-8,0mm)	1 x Entrance plate	
Art.100378 Art.100379 Art.100380 Art.100381 Art.100382 Art.100383 Art.100384 Art.100385	(0,5-1,0mm) (1,0-2,0mm) (2,0-3,0mm) (3,0-4,0mm) (4,0-5,0mm) (5,0-6,0mm) (6,0-7,0mm) (7,0-8,0mm)	1 x Connection plate	
Art.100361 Art.100362 Art.100363 Art.100364 Art.100365 Art.100366 Art.100367 Art.100368	(0,5-1,0mm) (1,0-2,0mm) (2,0-3,0mm) (3,0-4,0mm) (4,0-5,0mm) (5,0-6,0mm) (6,0-7,0mm) (7,0-8,0mm)	Size 1 Size 2 Size 3 Size 4 Size 5 Size 6 Size 7 Size 8	1 x square guide 

Art. 100359 1 x glas cylinder 


Art. 100387 1 x lock nut for glas cylinder 


Art. 100386 1 x lock screw for body 


Art. 100342 1 x 125 ml Bluegliss special libricant silicon based 

Art.100218 1 x Tube coupling (out side) ø 6mm
 Art.100219 1 x Tube coupling (out side) ø 8mm
 Art.100220 1 x Tube coupling (out side) ø 10mm
 Art.100221 1 x Tube coupling (out side) ø 12mm
 Art.100222 1 x Tube coupling (out side) ø 14mm



Art.100184 1 x Tube reductor 8/7mm 


Art.100277 1 x Coupling 


Art.100270 2 x small plastic container 

Art.100250 (0,5-1,0mm)
 Art.100251 (1,0-2,0mm)
 Art.100252 (2,0-3,0mm)
 Art.100253 (3,0-4,0mm)
 Art.100254 (4,0-5,0mm)
 Art.100255 (5,0-6,0mm)
 Art 100256 (6,0-7,0mm)
 Art.100257 (7,0-8,0mm)

15 x rubber disc




Art.100268 6 x countersunk screw 

Art.100269 1 x TORX wrench 

13. Accessories EZ.EASYGLIDE

We are always trying to improve and optimize the range of accessories and spare parts. You will find the current status in our online shop.

Art.100351 (0,5-1,0mm)	Upgrade set	
Art.100352 (1,0-2,0mm)		
Art.100353 (2,0-3,0mm)		
Art.100354 (3,0-4,0mm)		
Art.100355 (4,0-5,0mm)		
Art.100356 (5,0-6,0mm)		
Art.100357 (6,0-7,0mm)		
Art.100358 (7,0-8,0mm)		

Art.100338	Tube coupling (out side) ø 16mm	
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14. EZ.EASYGLIDE– Application, step by step

1.	Your EZ.EASYGLIDE comes assembled for use without additional equipment (entrance plate is mounted) for the cable dimension, you specified. Please check all screws before use.
2.	The EZ.EASYGLIDE comes with the rubber disk according to ordered cable dimension. If using for different cable size, please choose and replace rubber disk accordingly.
3.	Choose and assemble tube coupling (tube coupling 14 mm is preassembled, please replace with respective size, if needed)
4.	Check conduit for permeability. Attention: In general, all conduits should be checked for permeability beforehand. For possible procedure see chapter 10, point 5.
5.	Fill glass cylinder with special lubricant (Bluegliss) and screw to EZ. EASYGLIDE from bottom.
6.	Feed cable through EZ. EASYGLIDE.
7.	Connect EZ. EASYGLIDE to the tube.
8.	Turn EZ. EASYGLIDE upside down to get glass cylinder up. Lubricant flows into EZ. EASYGLIDE body.
9.	Slip cable through EZ. EASYGLIDE. Cable will be uniformly covered with lubricant.
10.	If cable pushing is completed, disconnect EZ.EASYGLIDE from tube and cut cable to desired length.
11.	Do you want to feed more conduits with same cable, repeat procedure from step 7.
12.	If not, turn EZ. EASYGLIDE upside down to get cylinder downwards. Lubricant flows back to glass cylinder. EZ. EASYGLIDE is emptied.
13.	Release cable from EZ.EASYGLIDE.
14.	Unscrew glass cilinder from EZ.EASYGLIDE and close it with respective lock nut.
15.	Close EZ.EASYGLIDE with lock screw.
16.	Now clean EZ.EASYGLIDE (see chapter Cleaning) and properly store it in the provided plastic case.

15. EZ.SPEEDY in combination with EZ.BOOSTER – Application step by step

1.	Prepare EZ.SPEEDY as described in step 1 to 3 in chapter 6.
2.	Connect coupling front to EZ.SPEEDY, on the side where cable leaves the tool.
3.	Continue preparing EZ.SPEEDY as described in step 6 to 9 in chapter 6.
4.	Prepare EZ.BOOSTER as described in step 1 to 3 in chapter 10.
5.	Install connection plate (violet) according to chosen fiber optic cable.
6.	Screw tube coupling to EZ.BOOSTER guide head (red).
7.	Connect EZ.SPEEDY carefully to EZ.BOOSTER.
8.	Insert fiber optic cable manually through EZ.SPEEDY cable guides and EZ.BOOSTER.
9.	Connect EZ.BOOSTER to conduit and push cable 50-100 cm into conduit.
10.	Connect hose of compressor to EZ.BOOSTER. Do NOT switch on the compressor yet!
11.	Close EZ.SPEEDY handles and keep closed or use handle holder/mounting block.
12.	Switch on compressor. If available, use ball tap (100336) to control air flow.
13.	Plug the cordless drill to the hexagonal of EZ.SPEEDY and start the cable pushing process slowly. Speed might be increased gradually if cable pushing runs well (up to max. 400 RPM).
14.	Cable is gradually pushed into the conduit. Warning: If using lubricants do not pull back the cable using EZ.SPEEDY. The rubber rollers will get in contact with the lubricant and the adhesion of the rollers is reduced. (If this happened, rubber rollers must be cleaned with alcohol before next use)
15.	Pay attention to the insertion speed/torque until the cable pushing is completed (make adjustments if needed).
16.	Stop and remove cordless drill.
17.	Remove air hose of compressor carefully from EZ.BOOSTER. If using ball tap, close air supply.
18.	Wait until pressure is balanced in the conduit.
19.	Open handles of EZ.SPEEDY (if using handle holder remove it first).
20.	Release conduit from tube coupling and gently remove the tool combination.
21.	Cut cable to the desired length.
22.	Do you want to feed more conduits with same cable, repeat procedure from step 9.
23.	If not, clean both tools (see chapter Cleaning) and properly store them in their provided plastic cases.

16. EZ.EASYGLIDE in Combination with EZ.SPEEDY - Application step by step

1.	Your EZ.EASYGLIDE comes assembled for use without additional equipment (entrance plate is mounted) for the cable dimension, you specified. Please check all screws before use.
2.	Remove entrance plate and install connection plate to EZ.EASYGLIDE.
3.	Choose and assemble tube coupling (tube coupling 14 mm is preassembled, please replace with respective size, if needed).
4.	Assemble coupling (part n° 100277) to EZ.SPEEDY where the cables leaves the tool.
5.	Connect EZ.EASYGLIDE to EZ.SPEEDY prepared accordingly (s. chapter 6)
6.	Check conduit for permeability. Attention: In general, all conduits should be checked for permeability beforehand. For possible procedure see chapter 10, point 5.
7.	Push cable through EZ.SPEEDY and EZ.EASYGLIDE.
8.	Connect EZ.EASYGLIDE to conduit and continue pushing the cable manually into the conduit.
9.	Fill glass cylinder with special lubricant (Bluegliss) and screw to EZ. EASYGLIDE from bottom.
10.	Turn EZ. EASYGLIDE upside down to get glass cylinder up. Lubricant flows into EZ. EASYGLIDE body.
11.	Close EZ.SPEEDY handles and keep closed or use handle holder/mounting block. Follow instructions EZ.SPEEDY, chapter 6 point 13-16. Cable will be forwarded and uniformly covered with lubricant.
12.	If cable pushing is completed, disconnect EZ.EASYGLIDE from tube and cut cable to desired length.
13.	Do you want to feed more conduits with same cable, repeat procedure from step 8.
14.	If not, turn EZ. EASYGLIDE upside down to get cylinder downwards. Lubricant flows back to glass cylinder. EZ. EASYGLIDE is emptied.
15.	Open EZ.SPEEDY handles and remove cable.
16.	Unscrew glass cylinder from EZ.EASYGLIDE and close it with respective lock nut.
17.	Close EZ.EASYGLIDE with lock screw.
18.	Disconnect, clean (see chapter Cleaning) and properly store the tools in their provided plastic cases.

17. EZ.EASYGLIDE in combination with EZ.BOOSTER – Application step by step

1.	Your EZ.EASYGLIDE comes assembled for use without additional equipment (entrance plate is mounted) for the cable dimension, you specified. Please check all screws before use.
2.	Prepare EZ.BOOSTER according to instruction (chapter 10).
3.	Remove tube coupling from EZ.EASYGLIDE and replace by coupling (part n° 100277).
4.	Connect EZ.EASYGLIDE to respective EZ.BOOSTER (see chapter 10).
5.	Check conduit for permeability. Attention: In general, all conduits should be checked for permeability beforehand. For possible procedure see chapter 10, point 5.
6.	Push cable through EZ.BOOSTER and EZ.EASYGLIDE.
7.	Connect EZ.BOOSTER to conduit and continue pushing the cable approx. 50-100 cm into the conduit.
8.	Fill glass cylinder with special lubricant (Bluegliss) and screw to EZ. EASYGLIDE from bottom.
9.	Turn EZ. EASYGLIDE upside down to get glass cylinder up. Lubricant flows into EZ. EASYGLIDE body.
10.	Connect air hose of compressor to EZ.BOOSTER and start compressor. If available, use ball tap (100336) to control air flow. Cable will be forwarded and uniformly covered with lubricant.
11.	If cable pushing is completed, remove air hose of compressor carefully from EZ.BOOSTER. If using ball tap, close air supply.
12.	Wait until pressure is balanced in the conduit.
13.	Release conduit from tube coupling and gently remove EZ.BOOSTER and cut fiber optic cable to desired length.
14.	Do you want to feed more conduits with same cable, repeat procedure from step 7.
15.	If not, turn EZ. EASYGLIDE upside down to get cylinder downwards. Lubricant flows back to glass cylinder. EZ. EASYGLIDE is emptied.
16.	Unscrew glass cilinder from EZ.EASYGLIDE and close it with respective lock nut.
17.	Close EZ.EASYGLIDE with lock screw.
18.	Disconnect, clean (see chapter Cleaning) and properly store the tools in their provided plastic cases.

18. EZ.SPEEDY / EZ.BOOSTER / /EZ.EASYGLIDE – Application all together

Please follow instructions in chapter 16 and 17, to combine all 3 tools.
The EZ.EASYGLIDE shall be connected between EZ.SPEEDY and EZ.BOOSTER.
The cable will be fed through EZ.SPEEDY → EZ.EASYGLIDE → EZ.BOOSTER into the conduit.

19. Cleaning

Clean with a damp cloth and a dry brush

- Do not use solvents.
- Never immerse in water.
- Never poke objects of any kind into the device.
- Do not use pressed air for cleaning.
- Clean EZ.SPEEDY rubber rollers with a cloth moist with alcohol.
- Clean EZ.EASYGLIDE with a dry paper tissue/towel. If changing lubricant, clean all components thoroughly with alcohol. (Risk of reaction!)

20. Storage

- Store the unit in its original case to protect it from damage (with the Operating Instructions)
- Protect the unit from moisture and dust.
- Secure tool against unauthorized use.

21. Transport

- Transport the unit in its original carrying case, making sure it is correctly closed.
- If the unit is dispatched by any mode of transport, it must be in its original carrying case, correctly closed and secured.

22. Troubleshooting EZ.SPEEDY

Not enough air coming through conduit:

- Cap on conduit? → Remove
- Conduit extremely kinked/bended?
- Wrong conduit? (e.g. Conduit ending in another chamber)
- Low pressure from compressor?

Slipping of rubber rollers:

- Please control torque of cordless drill
- Close handles tighter.
- Rubber rollers dirty → clean them
- Cable dirty → clean it

Unable to push cable:

- Resistance/Friction too high
 - Use lubricant:
 - a) Use Lubriballs to lubricate the conduit or
 - b) use EZ.EASYGLIDE
 - Add/connect EZ.BOOSTER
- Cable too thick, gets stuck at cable guides
 - Check tolerance, choose different size
- Combination with EZ.BOOSTER and /or EZ.EASYGLIDE
 - Make sure the tools are assembled in the correct order

Cable slips off the cable guide

- cable too soft for standard cable guide.
 - please use cable guide GOLD

23. Troubleshooting EZ.BOOSTER

Not enough air coming through conduit:

- Cap on conduit? → Remove
- Conduit extremely kinked/bended?
- Wrong conduit? (e.g. Conduit ending in another chamber)
- Low pressure from compressor?
- Air leaking at rubber disk → replace rubber disk

Unable to push cable:

- Resistance/Friction too high
 - Use lubricant:
 - a) Use Lubriballs to lubricate the conduit or
 - b) use EZ.EASYGLIDE
 - Check tolerance, choose different size
- Cable too thick, gets stuck at cable guides
 - Check tolerance, choose different size
- Combination with EZ.SPEEDY and /or EZ.EASYGLIDE
 - Make sure the tools are assembled in the correct order

24. Troubleshooting EZ.EASYGLIDE

Unable to push cable:

- Cable too thick, gets stuck at entrance plate
 - Check tolerance, choose different size
- Combination with EZ.SPEEDY and /or EZ.BOOSTER
 - Make sure the tools are assembled in the correct order

Lubricant leaking

- Rubber disk (sealing) worn out
 - Replace rubber disk
- Cable surface very rough
 - Cable not suitable for EZ.EASYGLIDE
- Viscosity of lubricant too low
 - Use different lubricant. (Clean all components thoroughly, before refilling)

26. Maintenance and repair

ZEITLER AG recommends that you have maintenance and repair work carried out exclusively by an authorized servicing dealer for EZ.SPEEDY/EZ.BOOSTER/EZ.EASYGLIDE. Service dealers are regularly given the opportunity to attend training courses and are supplied with the necessary technical information.

Only use genuine replacement parts and accessories that are explicitly approved for EZ.SPEEDY/EZ.BOOSTER/EZ.EASYGLIDE by ZEITLER AG. These parts are specifically designed to match your tool and meet your performance requirements and also to avoid the risk of accidents and damage to the tool. If you have any question please consult an authorized servicing dealer.

In the absence of alternative arrangements, the manufacturer's or importer's service will include

- restoration to the original as-delivered condition
- restoration to the original equipment included in the scope of supply

The user is responsible for all damage caused by non-observance of the safety precautions and operating and maintenance details in the Operating Instructions.

Given the situation, all warranty rights are nil. This includes in particular:

- Alterations or modifications to the product not approved by ZEITLER AG
- Using tools or accessories which are neither approved or suitable for the product or are of a poor quality
- Using the product for purposes for which it was not designed.
- Using the product for sports or competitive events.
- Consequential damages due to the further use of the equipment with defective parts

27. Compressor

Recommended technical requirements for best results:

Internal tube Ø	Liter/min	Pressure
4mm	50 Liter/min	max. 15 bar
5mm	80 Liter/min	max. 15 bar
6mm	120 Liter/min	max. 15 bar
7mm	150 Liter/min	max. 15 bar
8mm	200 Liter/min	max. 15 bar
9mm	250 Liter/min	max. 15 bar
10mm	320 Liter/min	max. 15 bar
11mm	380 Liter/min	max. 15 bar
12mm	450 Liter/min	max. 15 bar

28. Lubricants

Internal tube Ø	Feeding length of:		
	250 meter	500 meter	1000 meter
4mm	8cm = 0,5ml	16cm = 1ml	31cm = 2ml
5mm	7cm = 1,0ml	14cm = 2ml	27cm = 3ml
6mm	6cm = 1,0ml	12cm = 2ml	23cm = 4ml
7mm	5cm = 1,0ml	10cm = 2ml	19cm = 4ml
8mm	4cm = 1,5ml	8cm = 3ml	16cm = 5ml
10mm	3cm = 1,5ml	6cm = 3ml	12cm = 6ml
12mm	3cm = 2,0ml	5cm = 4ml	10cm = 7ml
14mm	2cm = 2,5ml	4cm = 5ml	8cm = 9ml

29. Technical Data

Standard equipment for tube diameters 6 to 14 mm

Weight:

EZ.SPEEDY	1.2 kg
EZ.BOOSTER	0.8 kg
EZ.EASYGLIDE	0,9 kg

Maximum pressure: 15 bar

Dimensions:

EZ.SPEEDY	99x82x91 mm
EZ.BOOSTER:	95x67x42 mm
EZ.EASYGLIDE:	95x67x42 mm

We reserve the right to make technical modifications without notice.