

SHRINKFIT DEVICES



EASYSHRINK® 20 PACKS
EASYSHRINK® 15

Range overview

Easyshrink® 15 : compact Shrinkfit device

Induction heating and air cooling in compact design.



ZFM08IN

Packs Easyshrink® 20 : Three new Shrinkfit packs resulting from efficient “combinations” of previous Easyshrink® 20 modules replace these previous individual modules.

Only one part number to order a selected pack, always including heating, cooling (air and/or water) and shrink depth setting (with or without height measuring) features.



ZFM07IN10



ZFM07IN20



ZFM07IN30

Common heating features of Easyshrink® 15 and Packs Easyshrink® 20

Induction heating with shrink grip and shrink release capacity 3 to 32 mm for carbide and heavy metal, 6 to 32 mm for steel and HSS. Induction heating achieves shrink grip and shrink release in a few seconds.

2 heating modes: Automatic or programming

- Automatic: user starts the cycle on the control panel, no need to select any diameter or holder type; the required heating cycle is automatically calculated by a holder recognition system. Heating cycle stop is automatic.
- Programming: allows the programming of 30 specific heating times, when required e.g. for special holders. Start the selected cycle on the control panel. Heating cycle stop is automatic.



Easyshrink® 15

Compact Shrinkfit device. Supports carrying Shrinkfit holders can be slid from station to station (1 heating and 2 ventilator fans air cooling stations), operator doesn't touch hot spots. Cooling made in idle time, approx. 3 minutes with finned cooling tubes or 8 minutes with cooling cones. Plate made from hard anodized aluminium allowing smooth sliding. The universal sliding support(s) can be equipped with interchangeable support rings in order to carry any kind of Shrinkfit holder. The cooling cone(s) direct the air flow towards holder's front end, for faster cooling.

Delivery content:

Device is delivered with:

- 5 Standard (full set) heat focusing stoppers for 3 to 32 mm.
- 1 Universal sliding support.
- 1 Support ring for HSK63-A/C/E & HSK80-B/D/F holders.
- 1 Air cooling cone.
- A pair of gloves.
- Operating instructions.

Connections:

AC 3x400V + PE/ 16 A/ 50-60Hz. 3 meter cable is supplied.



Accessories and Spare parts for Easyshrink® 15

Only a few accessories related to the Shrinkfit holders used have to be ordered separately.

Required Easyshrink® 15 accessories:

Only one support ring for HSK63-A/C/E & HSK80-B/D/F is in the delivery content: In order to carry different Shrinkfit holders types (SA, HSK, Seco-Capto™), please order more support rings.

Optional Easyshrink® 15 accessories:

More universal sliding supports will provide idle cooling cycles: e.g. with 3 sliding supports, all 3 device's stations can be operated simultaneously.

More cooling cones may be useful when several sliding supports are in use.

When required, 5 interchangeable split heat focusing stoppers for tools with a larger head than shank, and a fitting ring, are available as Accessories.

Other optional accessories:

Several items can be added to the Easyshrink® 15 device operation: - E.g. finned cooling tubes (ZFAR02C...), or the refrigerated cooling bells water cooler (ZFM07RE1).

See Accessories and spare parts pages.



Packs Easyshrink® 20 : N°1, 2, 3

Easy to order, easy to use: Only one part number to order a selected pack, always including heating, cooling (air and/or water) and shrink depth setting (with or without height measuring) features.

Pack Easyshrink® 20 N°1, ZFM07IN10

A complete set with induction heating, 1 operating + shrink depth setting station and 2 cooling stations.



Pack Easyshrink® 20 N°2, ZFM07IN20

A complete set with induction heating, rotary plate of 3 operating + shrink depth setting + cooling stations.



Pack Easyshrink® 20 N°3, ZFM07IN30

A complete set with induction heating, rotary plate of 3 operating + shrink depth setting + cooling stations, height measuring and a refrigerated cooling bells water cooler.



Delivery content:

All Packs are delivered with:

A pair of gloves.

Five standard (full set) heat focusing stoppers for 3 to 32 mm, their storage rack and adapter.

Note: When required, 5 split heat focusing stoppers for tools with a larger head than shank are available as Accessories.

A set of 4 standard stop rods in a rack.

Operating instructions are supplied.

Additional in Packs N°1 and 2:

Two cooling cones

Connections:

All Packs:

AC 3x400V + PE/ 16 A/ 50-60Hz/ Differential breaker 30 mA. 3 metre cable is supplied. Air 3 to 6 bar/ pipe internal Ø 7 mm required (for heating system).

AC 1x230V + PE/5A/50-60Hz, cable with a DE/FR electrical plug is supplied (for air cooling).

Additional for Pack N°3 :

AC 1x230V + PE/5A/50-60Hz, cable with a DE/FR electrical plug is supplied (for refrigerated water cooler).

Packs Easyshrink® 20 : N°1, 2, 3

Accessories and Spare parts for Packs Easyshrink® 20

Only a few accessories related to the Shrinkfit holders used have to be ordered separately.

For shrink grip and shrink release operating:

Required at minimum: 1 finned support per type of Shrinkfit holder taper.

For air cooling:

Required at minimum: 1 finned support or 1 support ring per type of Shrinkfit holder taper. More supports and rings allow up to 3 simultaneous stations equipment.

For shrink depth setting:

Packs are delivered with a set of 4 standard stop rods with 4,2 mm front end for Shrinkfit holders Ø 6 mm and above.

A set of 4 thin stop rods with 2,5 mm front end for Shrinkfit holders Ø 3 to 5 mm is available as accessories.

See also depth comparators, depth rulers and stop end screw setting adapters available as accessories.

For height measuring of Pack Easyshrink 20 N°3:

Required at minimum: 1 tool supporting sleeve for stop rod per Ø of tool shank bore.

For water cooler of Pack Easyshrink 20 N°3:

Required at minimum: 1 contact bush per size of Shrinkfit holder front end.

More contact bushes allow simultaneous cooling of up to 2 holders.

See Easyshrink Accessories and Spare parts pages.

Common and dedicated features of Packs Easyshrink® 20

Heating features

See previous 'Common heating features of Easyshrink® 15 and Packs Easyshrink® 20'



Bearing features

Operating stations hold the finned support with tool holder during the heating and cooling cycles. Pack N° 1 has one operating station with height setting.

In Packs N°2 and 3, all three stations of the rotary plate are operating, shrink depth setting and cooling stations.

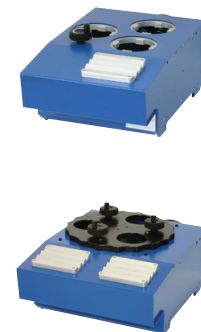
Air cooling features

Ventilator fans stream air through the finned support, towards the finned cooling tube fitted onto the tool holder front end or towards the cooling cone fitted onto finned supports: cooling time approx. 3 minutes with finned supports, approx. 7 minutes with cooling cones.

Pack N°1 has 2 cooling stations.

In Packs N°2 and 3, all three stations are cooling stations. The rotary plate prevents the user having any contact with hot holders: by a simple plate rotation, each station switches from the heating position to a cooling position. Each station is equipped with an LED indicator which switches on automatically when the table is rotated into a cooling position (timing approx. 3 min).

Note : the refrigerated cooling bells water cooler of Pack N°3 achieves shorter cooling times, see specific description.



Shrink depth setting features

The fittings consist of a stop rod adjusting system, with a setting wheel (adjusting range of the fitted stop rod is 60 mm) and a set of stop rods.

Pack N° 1 has one operating station with shrink depth setting.

In Packs N°2 and 3, all three stations of the rotary plate have shrink depth setting.

Shrink depth setting instructions

A required stop rod is fitted into the shrink depth setting system, and adjusted by the setting wheel to the required Shrinkfit depth. A depth comparator or ruler (available as accessories) is used to control the stop rod front end position in reference to the holder's front face. The tool shank will bear onto the stop rod front end when fitted into the holder during the shrink grip cycle. The stop rod can also be used during the shrink release cycle to push a broken tool out from the holder.

Note: Stop rod used in combination with the height measuring of Pack N°3, allows the tool's gauge length setting. Stop rod used in Packs N°1 and 2 allows only the shrink depth setting.



Height measuring features (of Pack Easyshrink® 20 N°3)

The height measuring fittings include:

- A fine adjustment of the sliding support using a height adjustment setting wheel.
- A digital rule to control the sliding support /comparator position (0,01 mm display).
- A comparator (0,01 mm) fixed onto the inductor sliding support.

Height measuring instructions:

Precise cutting edge gauge length can be achieved when the stop rod position is set taking into account the actual tool to be shrink gripped: therefore, the shrink depth setting fittings (stop rod adjustment with a setting wheel) have to be used in combination with the height measuring fittings (depth comparator or depth rulers, fine adjustment setting wheel, digital rule with display, set of standard stop rods). The tool shank has to be located onto the stop rod front end, in order to adjust the stop rod until the cutter front end reaches the required position controlled by the digital rule and comparator. Gauge length precision $\pm 0,05$ mm is possible.



Easyshrink® refrigerated cooling bells water cooler

Note: a refrigerated cooling bells water cooler is part of Pack Easyshrink® 20 N°3. It can be added to the Easyshrink® 15 device as well as to the Packs Easyshrink® 20 N° 1 and 2.

The cooler includes a refrigeration unit and a support unit for cooling bells and contact bushes. Two aluminium bells are cooled by refrigerated water and placed over contact bushes onto the front end of the holder, cooling time approx. 1 minute. There are 2 storing rests for the bells and 6 storage locations for contact bushes.

Note: If needed, one storage station can be created by the user on the body, by moving the storing rests towards the column (1 more holder placed on support rings can then be cooled by the two bells). The refrigeration unit can be stored under or to one side of the device. Operating with tap water, to be changed at minimum every 6 months. Operating instructions are supplied.



Accessories: Contact bushes for cooling bells

The bushes in contact with the holder front end disperse heat towards the refrigerated cooling bell. Select the suitable contact bushes available as accessories to be ordered separately, see Accessories for Easyshrink.

Required at minimum: 1 contact bush per size of Shrinkfit holder front end.

More contact bushes allow simultaneous cooling of up to 2 holders.

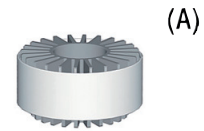
Connections:

AC 1x230V + PE/5A/50-60Hz, cable with a DE/FR electrical plug is supplied.

Accessories for Easyshrink® 15 and Packs Easyshrink® 20

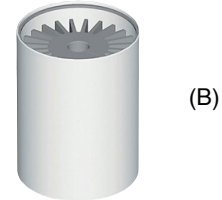
Finned supports (A)

Required to provide positioning of the tool holder onto the support module (corner plate or box) during heating and cooling. Designed to let air stream towards the finned cooling tube or cooling cone. Select the suitable sizes for HSK, SA, DIN, JIS-BT, ANSI or Seco-Capto™ holder tapers, see Product pages.



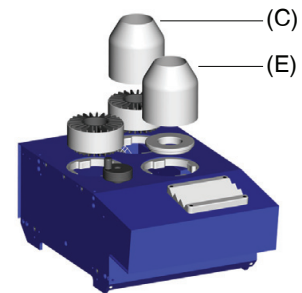
Finned cooling tubes (B)

Fins in contact with the holder's front end offer a large surface area for fast heat dispersal; cooling time approx. 3 minutes. Select the suitable tube sizes for type 5600 or 5603 Shrinkfit holders.



Air cooling cone (C)

The cone is a simple solution to direct the air stream towards the holder's front end (instead of using finned cooling tubes); cooling time is approx. 7 minutes. The unique cone (Part No. ZFAR03C) fits all holders. The cone fits directly onto stations of support boxes.



Support ring (E)

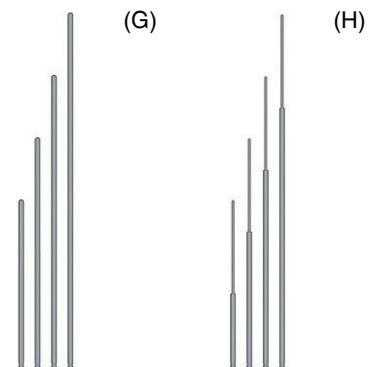
Note: Support rings are suitable for the two cooling stations of the three-station support boxes, the storage stations of the refrigerated water cooling bells unit, as an economical means of direct holder bearing, instead of using finned supports. Select the suitable support rings for HSK, DIN, JIS-BT, ANSI or Seco-Capto™ holder tapers.

Sets of stop rods (G)+(H)

Stop rods are required in conjunction with the shrink depth setting fittings.

Packs Easyshrink® 20 are delivered with a set of 4 standard stop rods with 4,2 mm front end for Shrinkfit holders Ø 6 mm and above.

A set of 4 thin stop rods with 2,5 mm front end for Shrinkfit holders Ø 3 to 5 mm is available as accessories.



Tool supporting sleeves for stop rods (for Packs Easyshrink® 20 N°3 only)

These sleeves can be used for locating the cutter onto the stop rod, to free both hands, when using the direct tool height measuring. Select the suitable sleeve diameters in regard to the tool shank diameters:

Type 05RS5600 sleeves are for tool shanks Ø (d2) 6 to 32 mm and for current standard stop rods (d1) 4,2 mm.

Type 05RS5800 sleeves are for tool shanks Ø (d2) 3, 4 or 5 mm and slim stop rods (d1) 2,5 mm.



Depth comparator for Shrinkfit depth setting

Part No. Z847031. User friendly measuring accessory, to set stop rod's position for reliable Shrinkfit depth on Packs EasyShrink® 20. The distance between stop rod's front and holder's front face is directly readable on the comparator. Depth capacity 25 to 75 mm, comparator resolution 0.010 mm. Comparator's delivery content includes two comparator stylus (Ø 8 mm and slim Ø 5 mm) and a magnetic storage sleeve also used for calibrating.

When using a stop end screw, the depth comparator allows also to measure the stop screw position.



Depth rulers for Shrinkfit depth setting

A depth ruler is an economic alternative to the depth comparator, enabling easy setting of the stop rods on Packs Easyshrink® 20 according to a required Shrinkfit depth. The distance between stop rod's front and holder's face is directly readable on the ruler.

Depth ruler size 1 (Ø 2,5 mm) for Shrinkfit holders dia. 3 to 5 mm, depth capacity 10 to 35 mm:

Part No. ZFCM07IN282.

Depth ruler size 2 (Ø 5 mm) for Shrinkfit holders dia. 6 to 32 mm, depth capacity 20 to 75 mm: Part No. ZFCM07IN254.

Note: Depth comparator and depth rulers can also be used to check the Shrinkfit depth when using the stop end screw of type 5600 or 5603 Shrinkfit holders: stop screws are mainly used with Easyshrink® 15 (stop screws are also possible with Packs Easyshrink® 20, instead using the stop rods).



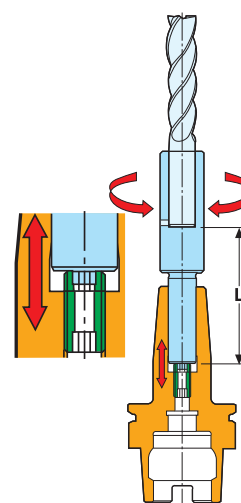
Stop end screw setting adapters with hexagonal back-end

Stop end screw setting adapters type 05R5600 have hexagonal sizes suitable for stop end screws of current Shrinkfit holders type 5600 or 5603.

The adapter bore is oversized in relation to the cutting tool shank, and the adapter shank is undersized to the Shrinkfit holder bore. The tool is placed into the adapter. The hexagonal nose on adapter's back end engages the stop end screw to set it until the cutter front end reaches the required position, taking into account the adapter's length from the bottom of the bore to the back end of the shank (L = 80 mm).

Available for tool shanks Ø 6 to 32 mm.

When using Packs Easyshrink® 20 stop rod setting features, there is no need for a stop end screw, nor a stop end screw setting adapter with hexagonal back-end. Using stop rods instead of stop end screws eliminates the risks of vibrations (unbalance caused by a loose screw).



Easyshrink® 15, heating and air cooling device



	Part No.	Capacity, tool shank mm		Shrinking time, approx.	Dimensions in mm			 KG
		Carbide/ Heavy metal	Steel/ HSS		Width	Depth	Height	
<ul style="list-style-type: none"> • Induction heating • 1 operating + cooling station • 1 cooling station 	ZFM08IN	Ø 3-32	Ø 6-32	10 sec.	830	410	910	45,0


Pack Easyshrink® 20, N°1



	Part No.	Capacity, tool shank mm		Shrinking time, approx.	Dimensions in mm			 KG
		Carbide/ Heavy metal	Steel/ HSS		Width	Depth	Height	
<ul style="list-style-type: none"> • Induction heating • 1 operating + shrink depth setting station • 2 cooling stations 	ZFM07IN10	Ø 3-32	Ø 6-32	10 sec.	688	570	960	60,0


Pack Easyshrink® 20, N°2



	Part No.	Capacity, tool shank mm		Shrinking time, approx.	Dimensions in mm			 KG
		Carbide/ Heavy metal	Steel/ HSS		Width	Depth	Height	
<ul style="list-style-type: none">• Induction heating• Rotary plate of 3 operating + shrink depth setting + cooling stations	ZFM071N20	Ø 3-32	Ø 6-32	10 sec.	759	570	960	65,0


Pack Easyshrink® 20, N°3



	Part No.	Capacity, tool shank mm		Shrinking time, approx.	Dimensions in mm			 KG
		Carbide/ Heavy metal	Steel/ HSS		Width	Depth	Height	
<ul style="list-style-type: none">• Induction heating• Rotary plate of 3 operating + shrink depth setting + cooling stations• Height measuring• Refrigerated cooling bells water cooler	ZFM071N30	Ø 3-32	Ø 6-32	10 sec.	1084	570	960	126,0

Easyshrink® refrigerated cooling bells water cooler



	Part No.	Cooling Bells Qty.	Cooling time approx.	Dimensions in mm			
				Width	Depth	Height	
<ul style="list-style-type: none">• Refrigeration unit• Support unit	ZFM07RE1	2	1 min	325	507	762	60,0

Contact bushes are required, see page 257
This fast cooling equipment can be added onto Easyshrink® 15 or Packs Easyshrink® N°1 & N°2; it is part of Pack Easyshrink® 20 N°3

Accessories and spare parts for Easyshrink® 15 and Easyshrink® 20 Packs, induction heating

Group 1 Heat focusing stopper for tools with a larger head* (pairs of half plates ZFCE... and ring ZFCM...)	Group 2 Heat focusing stopper	Group 3 Pair of protective gloves

Group	Part No.	For Easyshrink		For tool shank \varnothing mm	d ₃ mm	 KG
		15	Packs 20			
1						
	ZFCE2521	■	■	3-6	6,5	0,25
	ZFCE2522	■	■	8-14	15	0,25
	ZFCE2523	■	■	16-18	20	0,21
	ZFCE2524	■	■	20-25	27	0,18
	ZFCE2525	■	■	32	34	0,16
	ZFCM08IN000	■	■	–	–	0,04
2						
	ZFAT08C01	□	□	3-6	6,5	0,29
	ZFAT08C02	□	□	8-14	15	0,28
	ZFAT08C03	□	□	16-18	20	0,24
	ZFAT08C04	□	□	20-25	27	0,19
	ZFAT08C05	□	□	32	34	0,17
3						
	ZFAG01	□	□	–	–	0,2

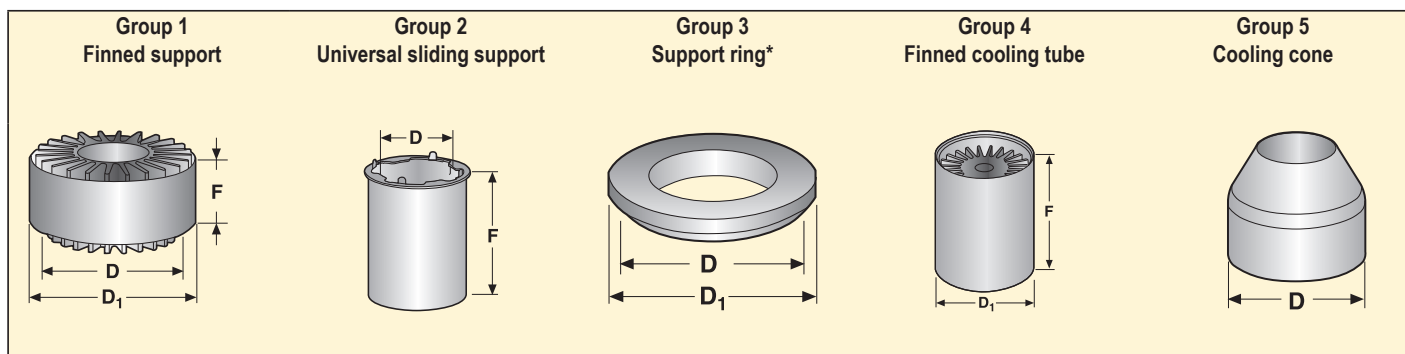
■ Accessories

□ Spare parts

* Maximum tool head that can pass through the inductor is 65 mm

For Shrinkfit holder cleaning brushes, see MN 2012 Tooling

Accessories and spare parts for Easyshrink® 15 and Easyshrink® 20 Packs, operating stations



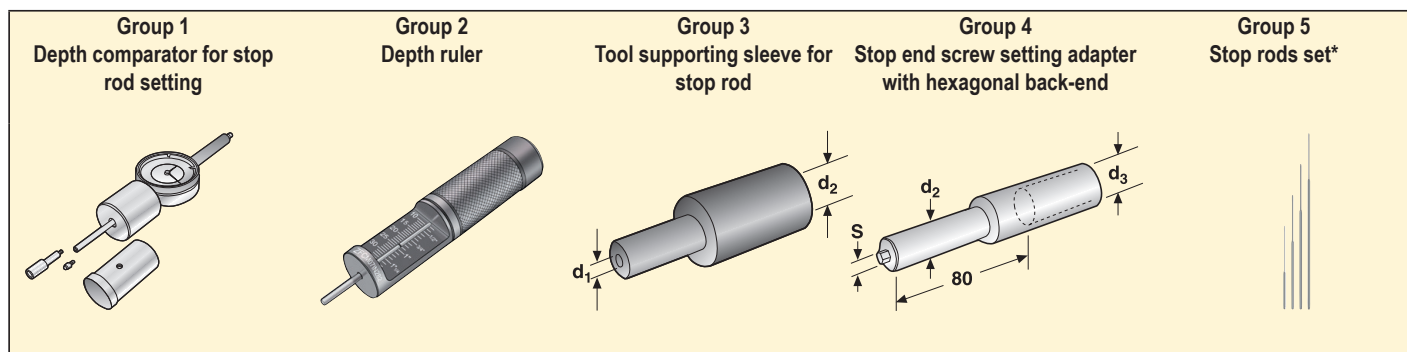
Group	Part No.	For Easyshrink		For Shrinkfit holder	Dimensions in mm			 KG
		15	Packs 20		D	D ₁	F	
1	ZFAD05H32		■	HSK32 A/C/E & HSK40 B/D	90	114	50	0,7
	ZFAD05H40		■	HSK40 A/C/E & HSK50 B/D/F	90	114	50	0,7
	ZFAD05H50		■	HSK50 A/C/E & HSK63 B/D/F	90	114	50	0,7
	ZFAD05H63		■	HSK63 A/C/E & HSK80 B/D/F	90	114	50	0,7
	ZFAD05H10		■	HSK100 A/C & HSK125 B/D	90	114	50	0,7
	ZFAD05S30		■	SA30	90	114	50	0,7
	ZFAD05S40		■	SA40	90	114	50	0,7
	ZFAD05S50		■	SA50	90	114	110	1,4
	ZFAD05C3		■	Seco-Capto™ C3	90	114	50	0,7
	ZFAD05C4		■	Seco-Capto™ C4	90	114	50	0,7
	ZFAD05C5		■	Seco-Capto™ C5	90	114	50	0,7
	ZFAD05C6		■	Seco-Capto™ C6	90	114	50	0,7
	ZFAD05C8		■	Seco-Capto™ C8	90	114	50	0,7
2	ZFAR08T	□		–	90	–	150	0,1
3	ZFAR07H32	■	■	HSK32 A/C/E & Seco-Capto™ C3	90	99,5	–	0,2
	ZFAR07H40	■	■	HSK40 A/C/E & HSK50 B/D/F & Seco-Capto™ C4	90	99,5	–	0,2
	ZFAR07H50	■	■	HSK50 A/C/E & HSK63 B/D/F	90	99,5	–	0,2
	ZFAR07H63	□	■	HSK63 A/C/E & HSK80 B/D/F	90	99,5	–	0,2
	ZFAR07H10	■	■	HSK100 A/C	90	99,5	–	0,2
	ZFAR07C5	■	■	Seco-Capto™ C5	90	99,5	–	0,2
	ZFAR07C6	■	■	Seco-Capto™ C6	90	99,5	–	0,2
	ZFAR07C8	■	■	Seco-Capto™ C8	90	99,5	–	0,2
	ZFAR07S30	■	■	SA30	90	99,5	–	0,2
	ZFAR07S40	■	■	SA40	90	99,5	–	0,2
	ZFAR07S50	■	■	SA50	90	99,5	–	0,2
4	ZFAR02C306	■	■	5603 Ø 6 and 8 mm	–	114	180	1,55
	ZFAR02C310	■	■	5603 Ø 10 and 12 mm & 5600 Ø 6 and 8 mm	–	114	180	1,55
	ZFAR02C314	■	■	5603 Ø 14 and 16 mm & 5600 Ø 10 and 12 mm	–	114	180	1,55
	ZFAR02C318	■	■	5603 Ø 18 and 20 mm & 5600 Ø 14 and 16 mm	–	114	180	1,55
	ZFAR02C325	■	■	5603 Ø 25 and 32 mm & 5600 Ø 18 and 20 mm	–	114	180	1,55
	ZFAR02C425	■	■	5600 Ø 25 and 32 mm	–	114	180	1,55
5	ZFAR03C	□	□	–	110	–	–	0,1

■ Accessories

□ Spare parts

* Support ring: Both for operating and cooling on Easyshrink® 15. For cooling only on Easyshrink® 20 Packs.

Accessories and spare parts for Easyshrink® 15 and Easyshrink® 20 Packs, shrink depth setting



Group	Part No.	For Easyshrink		For stop rod dia d_1	S mm	Depth capacity	d_2 mm	Thread fitting/ \varnothing Front	For length capacity	For Shrinkfit holder and tool shank sizes \varnothing mm	For Shrinkfit holder and tool shank sizes d_2 d_3 \varnothing mm	KG
		15	Packs 20									
1	Z847031	■	■	–	–	25-75	–	–	–	6-32	–	0,1
2	ZFCM07IN282	■	■	–	–	10-35	–	–	–	3-5	–	0,6
	ZFCM07IN254	■	■	–	–	20-75	–	–	–	6-32	–	0,9
3	05RS580003		■	2,5	–	–	3	–	–	–	–	0,25
	05RS580004		■	2,5	–	–	4	–	–	–	–	0,25
	05RS580005		■	2,5	–	–	5	–	–	–	–	0,25
	05RS580006		■	4,2	–	–	6	–	–	–	–	0,11
	05RS580008		■	4,2	–	–	8	–	–	–	–	0,11
	05RS580010		■	4,2	–	–	10	–	–	–	–	0,13
	05RS580012		■	4,2	–	–	12	–	–	–	–	0,18
	05RS580014		■	4,2	–	–	14	–	–	–	–	0,17
	05RS580016		■	4,2	–	–	16	–	–	–	–	0,17
	05RS580018		■	4,2	–	–	18	–	–	–	–	0,23
	05RS580020		■	4,2	–	–	20	–	–	–	–	0,23
	05RS580025		■	4,2	–	–	25	–	–	–	–	0,41
	05RS580032		■	4,2	–	–	32	–	–	–	–	0,3
4	05R560006	■	■	–	2,5	–	–	–	–	–	6	0,3
	05R560008	■	■	–	3	–	–	–	–	–	8	0,3
	05R560010	■	■	–	4	–	–	–	–	–	10	0,3
	05R560012	■	■	–	5	–	–	–	–	–	12	0,35
	05R560014	■	■	–	5	–	–	–	–	–	14	0,35
	05R560016	■	■	–	6	–	–	–	–	–	16	0,35
	05R560018	■	■	–	6	–	–	–	–	–	18	0,35
	05R560020	■	■	–	8	–	–	–	–	–	20	0,35
	05R560025	■	■	–	8	–	–	–	–	–	25	0,4
	05R560032	■	■	–	8	–	–	–	–	–	32	0,4
5	ZFS07IN018		■	–	–	–	–	2,5	0-240	3-5	–	0,12
	ZFS07IN043		□	–	–	–	–	4,2	0-240	6-32	–	0,15

■ Accessories


□ Spare parts

* A storage rack and a stop rods set for sizes 6-32 mm are part of the delivery content of the Easyshrink® 20 Packs N°1, N°2 and N°3.

Accessories for the Pack Easyshrink® 20 N°3 and the Easyshrink® refrigerated cooling bells water cooler

Contact bush for cooling bells



Part No.	For Shrinkfit holder	 KG
ZFAR10D006	5800 Ø 6 mm	0,6
ZFAR10D008	5800 Ø 8 mm	0,6
ZFAR10D010	5800 Ø 10 mm	0,6
ZFAR10D012	5800 Ø 12 mm	0,6
ZFAR10D014	5800 Ø 14 mm	0,6
ZFAR10D016	5800 Ø 16 mm	0,6
ZFAR10D018	5800 Ø 18 mm	0,6
ZFAR10D020	5800 Ø 20 mm	0,6
ZFAR10D025	5800 Ø 25 mm	0,6
ZFAR10D032	5800 Ø 32 mm	0,6
ZFAR10D103	5801 Ø 3 mm	0,6
ZFAR10D104	5801 Ø 4 mm	0,6
ZFAR10D105	5801 Ø 5 mm	0,6
ZFAR10D106	5801 Ø 6 mm	0,6
ZFAR10D108	5801 Ø 8 mm	0,6
ZFAR10D110	5801 Ø 10 mm	0,6
ZFAR10D112	5801 Ø 12 mm	0,6
ZFAR10D114	5801 Ø 14 mm	0,6
ZFAR10D116	5801 Ø 16 mm	0,6
ZFAR10D306	5603 Ø 6 and 8 mm	0,6
ZFAR10D310	5603 Ø 10 and 12 mm & 5600 Ø 6 and 8 mm	0,6
ZFAR10D314	5603 Ø 14 and 16 mm & 5600 Ø 10 and 12 mm	0,6
ZFAR10D318	5603 Ø 18 and 20 mm & 5600 Ø 14 and 16 mm	0,6
ZFAR10D325	5603 Ø 25 and 32 mm & 5600 Ø 18 and 20 mm	0,6
ZFAR10D425	5600 Ø 25 and 32 mm	0,6
ZFAR10D303S	5603 extra short Ø 3, 4 and 5 mm	0,6
ZFAR10D306S	5603 extra short Ø 6 and 8 mm	0,6
ZFAR10D310S	5603 extra short Ø 10 and 12 mm & 5600 extra short Ø 6 and 8 mm	0,6
ZFAR10D314S	5603 extra short Ø 14 and 16 mm & 5600 extra short Ø 10 and 12 mm	0,6
ZFAR10D318S	5603 extra short Ø 18 and 20 mm & 5600 extra short Ø 14 and 16 mm	0,6
ZFAR10D325S	5603 extra short Ø 25 and 32 mm & 5600 extra short Ø 18 and 20 mm	0,6

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