

# SAN<sup>®</sup>

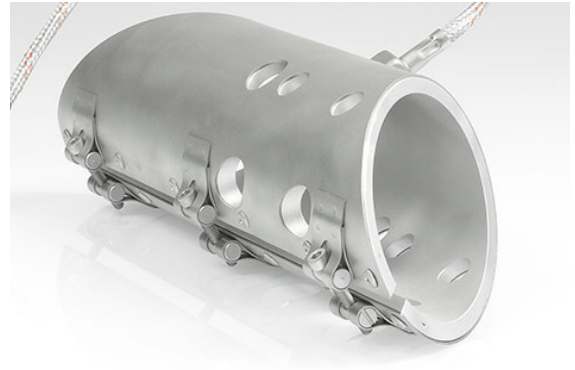
Electro Heat



## **Band Heaters**

Band Heaters . . . . .	page 3
ZAK aluminium compact band heater . . . . .	page 4
M/MC mineral insulated band heater . . . . .	page 5
KHK ceramic insulated band heater . . . . .	page 6
Z/ZAW/ZWM mica insulated band heater . . . . .	page 7
Heat insulation jackets . . . . .	page 8
Decision-making Matrix band heaters . . . . .	page 9
Sketch template, band heaters . . . . .	page 10
Nozzle band heaters . . . . .	page 11
DAK/DMK aluminium/brass compact nozzle band heater . . . . .	page 12
DGM nozzle band heater . . . . .	page 13
DG/DGS nozzle band heater . . . . .	page 14
Decision-making Matrix nozzle band heaters . . . . .	page 15
Tool heaters . . . . .	page 16
FAK/FMK aluminium/brass compact tool heater . . . . .	page 17
BDM/RAM/BM tool heater . . . . .	page 18
BD/RA/B tool heater . . . . .	page 19
Sketch template, frame and flat heaters . . . . .	page 20

# Band Heaters



## Applications

Band Heaters are an ideal heating for general cylindrical heating tasks. They are especially suitable for injection moulding machines and tools, for extrusion machines and tools, for Hot Runner tools, for transferring tubes with bitumen processing, for bag sealers, for filling devices (food industry), for special purpose machinery manufacture, for tube tools, for coating devices, for blow moulding technology, for sleeve cut-outs and for rubber processing. They are proven as reliable OEM equipment for several common machinery types.

- ZAK:** aluminium compact Band Heater
- M:** mineral insulated Band Heater
- MC:** ceramic insulated Band Heater in closed stainless steel tube
- KHK:** ceramic insulated Band Heater
- Z:** mica insulated Band Heater
- ZAW:** mica Band Heater + insulation
- ZWM:** mica Band Heater + air protection jacket

	ZAK	M	MC	KHK	Z	ZAW	ZWM
<b>Material</b>	heater: aluminium clamp band: stainless steel or FAL	stainless steel		FAL hot-dip aluminium coated steel sheet			
<b>wall thickness</b>	~ 11 mm	~ 5 mm	~ 7 mm	~ 11 mm	~ 3,5 mm	~ 8 mm	~ 20 mm
<b>max operating temperature<sup>1</sup></b>	450°C	450°C	550°C	400°C	280°C		
<b>max load</b>	4,5W/cm <sup>2</sup>	5W/cm <sup>2</sup>	6W/cm <sup>2</sup>	6,5W/cm <sup>2</sup>	3,5W/cm <sup>2</sup>		
<b>operating voltage</b>	230-250 Volt			230 Volt			
<b>clamp gap</b>	6 mm						
<b>high voltage stability</b>	1000 Volt AC						
<b>insulation resistance</b>	cold ≥ 1MΩ at 500 Volt DC						
<b>performance tolerance</b>	± 5%						
<b>temperature sensor</b>	type: L, J + K	type: L, J, K + PT100		separate with thermocouple connector			

<sup>1</sup> measured at the heated surface.

## Aluminium Compact Band Heater Type ZAK



### Applications

ZAK aluminium compact band heaters are used with machinery and tools of the polymer processing industry as well as with other devices with uniform heat demand.

- Closed/melt dense construction
- Shape fulfilling contact with superior geometry
- Perfect heat transfer as well with several holes and cut outs
- Energy efficient

### Specifications

- Surface load: up to 4.5W/cm<sup>2</sup>
- Operating temperature: up to 450°C
- Wall thickness: Ca. 11 mm

### Options

- Various dimensions and connection versions
- Other voltage, single or multi-phase, star or delta connection
- With holes and/or thermocouple bridges
- Additional cut outs
- With integral thermocouple (grounded or not grounded)
- Other clamp gap
- Multi part construction or segment heaters
- As mandrel heater (heating to the outside)
- With warning sign - "Attention - hot surface"
- With disc spring lock

## Mineral Insulated Band Heater Type M/MC



### Applications

M/MC high performance band heaters are used at injection moulding and extrusion machinery as well as for other devices with superior polymer processing.

Operating temperatures up to 550°C

- Reaction fast with temperature modification
- No storage effect

### Specifications

- Surface load: M: up to 5W/cm<sup>2</sup>, MC: up to 6W/cm<sup>2</sup>
- Operating temperature: M: up to 450°C, MC: up to 550°C
- Wall thickness: M: ca. 5 mm, MC: ca. 7 mm

### Options

- Various dimensions and connection versions
- Other voltage, single or multi-phase, star or delta connection
- With holes and/or thermocouple bridges
- Additional cut outs
- With integral thermocouple (grounded or not grounded)
- Other clamp gap
- Multi part construction or segment heaters
- As mandrel heater (heating to the outside)
- With warning sign - "Attention - hot surface"
- With disc spring lock

# Ceramic Insulated Band Heater Type KHK



## Applications

KHK ceramic insulated band heaters are proven on all common machinery of the injection moulding and extrusion industry.

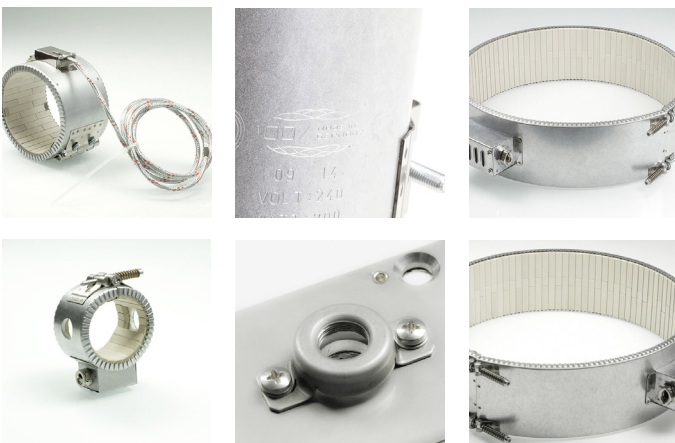
## Specifications

- Surface load: up to  $6.5\text{W}/\text{cm}^2$
- Operating temperature: up to  $400^\circ\text{C}$
- Wall thickness: Ca. 11 mm

## Options

- Various dimensions and connection versions
- Other voltage, single or multi-phase, star or delta connection
- With holes and/or thermocouple bridges
- Additional cut outs
- Other clamp gap
- Multi part construction or segment heaters
- With warning sign - "Attention - hot surface"
- With disc spring lock

Type	Ø	length	V	W	Leads	Extras
KHK	90 mm	66 mm	230 V	740 W	KA	
KHK	95 mm	81 mm	230 V	1100 W	1650 mm DR A	
KHK	105 mm	66 mm	230 V	1100 W	2000 mm DR A	
KHK	150 mm	51 mm	230 V	800 W	2500 mm DR A	1 hole D20 mm
KHK	167 mm	103 mm	230 V	2800 W	2000 mm GLA	



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## Mica Insulated Band Heater Type Z/ZAW/ZWM



### Applications

Z/ZAW/ZWM mica insulated band heaters are proven on all common machinery of the injection moulding and extrusion industry.

### Specifications

- Surface load: up to 3.5W/cm<sup>2</sup>  
Operating temperature: up to 280°C  
Wall thickness:  
Z: ca. 3.5 mm  
ZAW: ca. 8 mm  
ZWM: ca. 20 mm

### Options

- Various dimensions and connection versions
- Other voltage, single or multi-phase, star or delta connection
- With holes and/or thermocouple bridges
- Additional cut outs
- Other clamp gap
- Multi part construction or segment heaters
- With warning sign - "Attention - hot surface"
- With disc spring lock

Type	Ø	Length	V	W	Leads	Extras
Z	50 mm	100 mm	240 V	450 W	2500 mm DR	
Z	120 mm	45 mm	230 V	350 W	2000 mm DR A	
ZWM	60 mm	120 mm	240 v	800 W	KA	
ZWM	60 mm	160 mm	240 V	1120 W	KA	Thermocouple connector
ZWM	60 mm	190 mm	240 V	1330 W	KA	Thermocouple connector
ZWM	65 mm	130 mm	230-250 V	1050 W	650 mm DR	+ 2pin earthed plug, 1 hole D15 mm
ZWM	75 mm	172 mm	240 V	1420 W	KA	Thermocouple connector
ZWM	80 mm	150 mm	230-250 V	1300 W	730 mm DR	
XWM	80 mm	175 mm	230-250 V	1750 W	1000 mm DR	+ 2pin earthed plug, 1 hole D15 mm



## Heat Insulation Jackets



### Applications

Heat insulation jackets are perfect for heat energy savings with all types of polymer processing machinery and comparable applications. The insulations are corresponding to the Factory Act for reducing of surface temperatures. Due to the individual production we are able to offer customized solutions for your isolation demand.

- for heat energy savings and as anti-burn protection
- temperature stability: up to 500°C
- material: non-aging glass fibre
- isolation: mineral wool filling
- thickness: ca. 20 mm
- dimensions and production as per customer request

### Specifications

- heat energy saving
- reduction of surface temperature
- steady mass temperature
- turn off or reduction of draught influence
- touch protection (risk of injury and burn prevention)
- simple self-assembly with heat-resistant hook and eye closure or Velcro fastener
- reduction of radiant heat
- protection of machinery periphery

### Options

- Various outer coatings (teflon, aluminium or silicone)
- With holes and cut outs
- Diverse locking options (hook, Velcro or snap fastener)



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Enquiry      No.:

Type:     Z     KHK     M

Order      No.:

ZAK

Customer:

QTY:

Street/Adress:

Size:    Ø =                      Length =

Post Code/City:

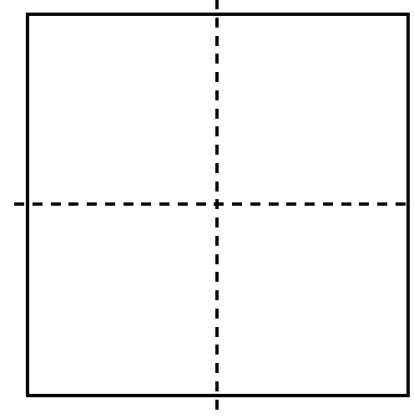
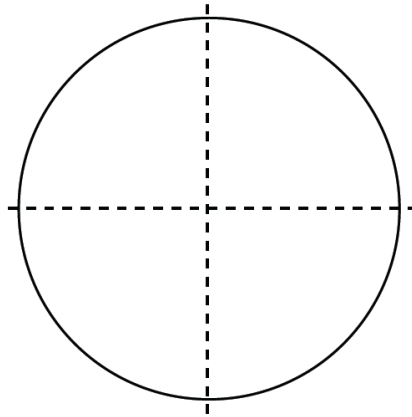
Volt:

Contact:

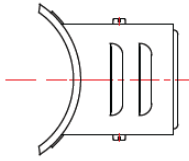
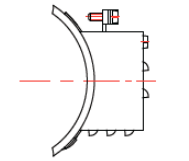
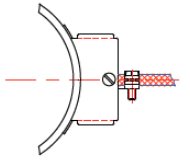
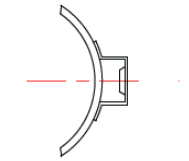
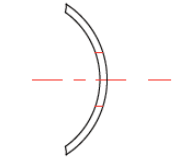
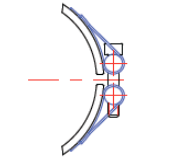
Watt:

Direct Dial:

Brass baffle plate



Please transfer the letters to the appropriate locations in the sketch.

<b>A:</b> contact fitting type KO	<b>B:</b> cable fitting type KA	<b>C:</b> nozzle cap with solid leads	<b>D:</b> thermocouple connector	<b>E:</b> borehole	<b>F:</b> position of clamp lock
					
Please indicate lead exit direction by arrow and specify if necessary lead length			state thread	state Ø	



**Decision-making Matrix - BAND HEATERS**

	ZAK	M	MC	KHK	Z	ZAW	ZWM
Special features	stiff, efficient Aluminium compact Band Heaters with uniform heat course for superior geometry.	fast reacting, high loadable, mineral-/ or ceramic isolated contact heater with low storing effect	electric robust, ceramic isolated radiate Heater with stroing effect	Mica isolated standard Band Heater for injection mould and extrusion			
max operating temperature	450°C	450°C	550°C	400°C	280°C		
Jacket material	Heater: Aluminium Clamp band: stainless steel or FAL	Stainless steel		Hot-dip aluminised steel sheet FAL			
Standard operating voltage	230-250V	230-250V	230V				
Star 230/400V Delta 3x400V	from 110 mm length	not possible	from 81 mm length	from 80 mm length			
Max load	4,5W/cm <sup>2</sup>	5W/cm <sup>2</sup>	6W/cm <sup>2</sup>	6,5W/cm <sup>2</sup>	3,5W/cm <sup>2</sup>		
Wall thickness	~11/14 mm (depends on dimension)	~5 mm	~7 mm	~11 mm	~3,5 mm	~8 mm	~20 mm
Dimension are - one-piece	Ø	length	length	length	length	length	length
	≥ 80 mm until 399 mm	≥ 40 mm until 400 mm	≥ 65 mm until 399 mm	≥ 38 mm ≥ 50 in 10 mm steps until 250 mm	≥ 28 mm until 501 mm	≥ 40 mm max 3 times Ø until 500 mm	≥ 50 mm max 3 times Ø until 500 mm
Multi-piece execution	from Ø	partition	partition	partition	partition	partition	partition
	400 mm in 2/2 in 3/3 in 4/4	400 mm in 2/2 in 3/3 in 4/4	400 mm in 2/2 in 3/3 in 4/4	400 mm in 2/2 in 3/3 in 4/4	400 mm in 2/2 in 3/3 in 4/4	400 mm in 2/2 in 3/3 in 4/4	400 mm in 2/2 in 3/3 in 4/4
standard clamp gap	6/8/12 mm (Ø dependent)	clamp loops from Ø 200 mm disc spring locks (TFV)	clamp loops from Ø 200 mm disc spring locks (TFV)	clamp loops from Ø 200 mm disc spring locks (TFV)	clamp loops from Ø 200 mm disc spring locks (TFV)	clamp loops from Ø 200 mm disc spring locks (TFV)	clamp loops from Ø 200 mm disc spring locks (TFV)
clamp lock	from Ø 100mm with 2-parted internal band	possible	from Ø 100 mm with 2-parted internal band	possible	possible	possible	possible
Spreadability	axial A or S radial B tangential C	axial A or S radial B, tangential C (max 8 A at 230V)	axial A or S radial B, tangential C (max 8 A at 230V)	axial A or S radial B tangential C	axial A radial B tangential C	axial A radial B tangential C	axial A radial B tangential C
Connection caps with solit leads (max 17,4 A at 230V)	metal braided leads until 250°C, GLS type 600 until 600°C	metal braided leads until 250°C, GLS type 600 until 600°C	metal braided leads until 250°C, GLS type 600 until 600°C	metal braided leads until 250°C	metal braided leads until 250°C	metal braided leads until 250°C	metal braided leads until 250°C
Contact fitting (3-pin) max. 16A/230V plug direction	type: L, J, K	type: L, J, K, and PT100	type: L, J, K, and PT100	type: L, J, K, and PT100	type: L, J, K, and PT100	type: L, J, K, and PT100	type: L, J, K, and PT100
Cable fitting max. 16 - 30A direction of lead exit	particularly suitable for superior geometry	as power reset dimensions	as power reset dimensions	as power reset dimensions	as power reset dimensions	as power reset dimensions	as power reset dimensions
Lead execution	X	X	X	X	X	X	X
Integral temperature sensor	X	X	X	X	X	X	X
Holes/cutouts							
Possible thermocouple connector							
Warning sign "hot surface"							

subject to technical change - other dimensions and loads available on request - for more details see as well our technical data.



**Applications**

Nozzle band heaters find their usage at injection moulding machinery in the polymer processing industry. They melt dense and safeguard the temperature on the crucial spots. They are further suitable for hot runner tools, for transferring tubes with bitumen processing, for bag sealers, for filling devices (food industry) and for special purpose machinery manufacture. They are proven as reliable OEM equipment for several common machinery types.

	DAK	DMK	DGM	DGS	DG
<b>Material</b>	Aluminium	Brass	Stainless steel	Stainless steel	Brass tube
<b>with separate clamp band</b>	Stainless steel			-	-
<b>wall thickness</b>	~ 7 mm		~ 5 mm		~ 3,5 mm
<b>max operating temperature<sup>1</sup></b>	450°C	550°C	600°C	350°C	280°C
<b>max load</b>	7,5W/cm <sup>2</sup>		10W/cm <sup>2</sup>	6,5W/cm <sup>2</sup>	3,5W/cm <sup>2</sup>
<b>operating voltage</b>	230-250 Volt			230 Volt	
<b>clamp gap</b>	6 mm				
<b>high voltage stability</b>	1000 Volt AC				
<b>insulation resistance</b>	cold ≥ 1MOhm at 500 Volt DC		cold ≥ 3MOhm at 500 Volt DC	cold ≥ 1MOhm at 500 Volt DC	
<b>performance tolerance</b>	± 5%				
<b>clamping</b>	tension band with adjusting brace			tensioning bracket	
<b>temperature sensor</b>	type: L, J + K		type: L, J, K + PT100		separate ring sensor or TC bridge

<sup>1</sup> measured at the heated surface.

## Aluminium/Brass Compact Nozzle Band Heater - Type DAK/DMK



### Applications

DAK/DMK aluminium/brass compact nozzle band heaters are used with machinery and tools of the polymer processing industry as well as with other devices with uniform heat demand.

- Closed/melt dense construction
- Shape fulfilling contact with superior geometry
- Perfect heat transfer as well with several holes and cut outs
- Energy efficient

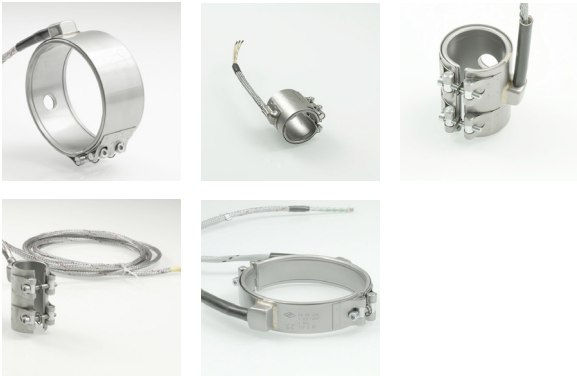
### Specifications

- Surface load: up to 7.5W/cm<sup>2</sup>
- Operating temperature:  
DAK (aluminium): up to 450°C  
DMK (brass): up to 550°C
- Wall thickness: Ca. 7 mm

### Options

- Various dimensions and connection versions
- Other voltage and/or wattage
- With holes and/or thermocouple bridges
- With integral thermocouple (grounded or not grounded)
- With flat cap and wedge lock

## Nozzle Band Heater Type DGM



### Applications

DGM high performance nozzle band heaters are used at injection moulding and extrusion machinery as well as for other devices with superior polymer processing.

Operating temperatures up to 600°C

- Suitable for superior materials (e.g. PTFE-/PEEK-processing)
- Fast pre-heating and reduced cycling time
- High operating safety and long working life

### Specifications

- Surface load: up to 10W/cm<sup>2</sup>
- Operating temperature: up to 600°C
- Wall thickness: ca. 5 mm

### Options

- Various dimensions and connection versions
- Other voltage and/or wattage
- With holes and/or thermocouple bridges
- With integral thermocouple (grounded or not grounded) or resistance sensor
- With flat cap and wedge lock

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## Nozzle Band Heater Type DG/DGS



### Applicatons

The standard DG/DGS nozzle band heaters are proven on all common machinery of the injection moulding industry.

### Spcifications

- Surface load:  
DG: up to 3.5W/cm<sup>2</sup>  
DGS: up to 6.5W/cm<sup>2</sup>
- Operating temperature:  
DG: up to 280°C  
DGS: up to 350°C
- Wall thickness: Ca. 3,5 mm

### Options

- Various dimensions and connection versions
- Other voltage and/or wattage
- With holes
- With separate leaf sensor or with thermocouple bridge



**Decision-making Matrix - NOZZLE BAND HEATERS**

	DAK	DMK	DGM	DGS	DG
Special features	Energy efficient nozzle band heaters with made to order holes and cut outs with excellent heat distribution	High performance nozzle band heaters with significantly longer life than standard nozzle band heaters allow the processing of all plastics.	Million times proven standard nozzle band heaters in the plastics processing industry		
max operating temperature	450°C	550°C	600°C	350°C	280°C
Jacket material	Aluminium/stainless steel	Brass / Stainless steel	Stainless steel	Stainless steel tube	brass tube
Minimum offset circle	clamp loop: Ø + 38 mm mini wedge lock (MKV): Ø + 20 mm standard cap: Ø + 54 mm flat cap: Ø + 32 mm	clamp loop: Ø + 34 mm wedge lock (KV): Ø + 24 mm standard cap: Ø + 50 mm flat cap: Ø + 28 mm			angular clamp: Ø + 31 mm Standard clamp: Ø + 48 mm
Max load	7,5W/cm <sup>2</sup>	10W/cm <sup>2</sup>	6,5W/cm <sup>2</sup>	3,5W/cm <sup>2</sup>	
Wall thickness	~7mm	~5 mm	~3.5 mm		
Dimensions	Ø length from 18 mm from 28 mm from 45 mm from 60 mm max. 200 mm	Ø length until 100 mm until 170 mm until 250 mm until 370 mm max. 370 mm	Ø length until 75 mm until 140 mm max 140 mm	Ø length until 38 mm until 55 mm max. 60 mm	Ø length from 25 mm from 40 mm max. 200 mm
graduated length in mm	25, 30, 38, 40 from 40 in 5 mm steps	25, 30, 38, 50, 60, 75 80, 90, 95, 100, 110, 120, 130, 140	22, 25, 30, 34, 38, 48, 55, 60	16, 18, 20, 22, 25, 30, 34, 38, 44, 48, 55, 60, 65, 70	
standard clamp gap	6 mm				
clamp lock	clamp loops from Ø 120 mm disc spring lock (TFV)	clamp loops wedge lock (KV)			angular clamp
Connection caps		standard cap: A, B, C, S flat cap: A and C			standard cap: A, B, C, S
Lead execution		metal braided leads until 250°C, GLS type 600 until 600°C			metal braided leads until 250°C
Integral temperature sensor Separate temperature sensor	type: L, J, K	type: L, J, K and PT100			X
Connection options	option: 1, 2, 3, 4 and 5				
Holes	length 25 30 38 45 50 55	hole 8 10 12 15 20 25	length 25 30 38 45 50 55	length 20 25 30 34 38 48	hole 6 10 11 12 14 20
Number of holes and cut outs	multiple			1	
TC connector possible	X				

subject to technical change - other dimensions and loads available on request - for more details see as well our technical data.

### Applications

Flat and frame heaters are generally used on tools of the extrusion-, injection moulding, automold as well as on tools for distortion. They are especially suitable for extrusion tools, for diverters, for flat dies, for blow moulding technology, for all types of material pre-heating, for rubber processing, for sealing machinery and for hot and welding bars.

**FAK:** Flat heater aluminium compact

**FMK:** Flat heater brass compact

**BDM:** Mineral insulated flat heater with pressure plate

**RAM:** Mineral insulated frame heater with pressure plate

**BM:** Mineral insulated flat heater

**BD:** Mica flat heater with pressure plate

**RA:** Mica insulated frame heater with pressure plate

**B:** Mica insulated flat heater

	FAK	FMK	BDM	RAM	BM	BD	RA	B
<b>Material</b>	Aluminium	brass	stainless steel			galvanized plate		
<b>thickness</b>	12/20 mm		~ 13 mm	~ 5 mm	~ 6/8/11 mm	~ 8/11 mm	~ 3 mm	
<b>brass liner</b>	-		2 mm recommended		possible		-	
<b>steel pressure plate / -frame</b>	-		~ 8 mm	-	~ 2,5/5/8 mm	~ 5/8 mm	-	
<b>max. operating temperature<sup>1</sup></b>	450°C	550°C	450°C			280°C		
<b>max. load</b>	3,5 - 5W/cm <sup>2</sup>		5W/cm <sup>2</sup>			3,5 W/cm <sup>2</sup>		
<b>operating voltage</b>	230 - 250 Volt					230 Volt		
<b>high voltage stability</b>	1000 Volt AC							
<b>insulation resistance</b>	cold ≥ 1 MOhm at 500 Volt DC							
<b>performance tolerance</b>	± 5%							
<b>fastening</b>	Flat heaters: fastening holes or long holes Frame heaters: with hexagonbolt diagonal in all 4 corners or at 2 corners diagonal in opposite at L-shape							
<b>temperature sensor</b>	type: L, J, K + PT100		type: L, J + K			separate with thermocouple connector		

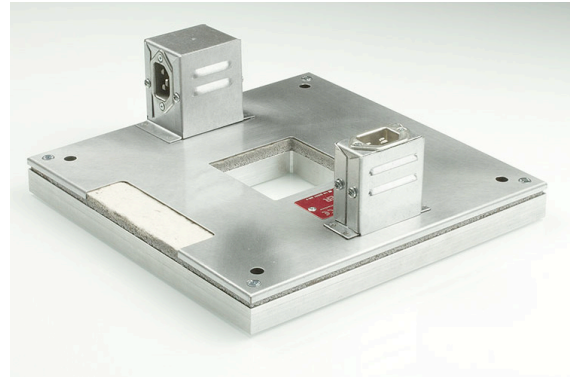
<sup>1</sup> measured at the heated surface.

	Min dimension (length x width x strength)	Max dimension (length x width x strength)
<b>FAK/FKM<sup>2</sup></b>	80 mm x 40 mm x 20 mm	1000 mm x 600 mm x 20 mm
	Min dimension (length x width x height)	Max dimension (length x width x height)
<b>BDM/BM</b>	80 mm x 38 mm	1000 mm x 350 mm
<b>RAM</b>	80 mm x 80 mm x 38 mm	500 mm x 500 mm x 250 mm
<b>BD/B</b>	60 mm x 20 mm	1800 mm x 350 mm
<b>RA</b>	80 mm x 80 mm x 20 mm	500 mm x 500 mm x 250 mm

<sup>2</sup> tolerance ±0,2 mm



# Aluminium/Brass Compact Tool Heater Type FAK/FMK



## Applications

FAK/FMK aluminium/brass compact tool heaters are used with machinery and tools of the polymer processing industry as well as with other devices with uniform heat demand.

## Specifications

- Surface load: up to 3,5 - 5 W/cm<sup>2</sup>
- Operating temperature:  
FAK: up to 450°C  
FMK: up to 550°C
- thickness: 12 / 20 mm

## Options

- Various dimensions and connection versions
- Other voltage, single or multi-phase, star or delta connection
- With holes and/or thermocouple bridges
- With integral thermocouple (isolated or non isolated) or resistance sensor
- additional cut outs
- additional insulation
- with warning sign - "Attention - hot surface"
- type FAK/FMK: front side connection from 20 mm thickness
- with fastening angular
- available in all technical possible shapes (round-, profile-, U-/L-shape) as per drawing, sketch or sample.



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CVR No.: 42 16 59 13

## Tool Heaters Type BDM/RAM/BM



### Applications

BDM/RAM/BM tool heaters are used at injection moulding and extrusion machinery as well as for other devices with superior polymer processing.

### Specifications

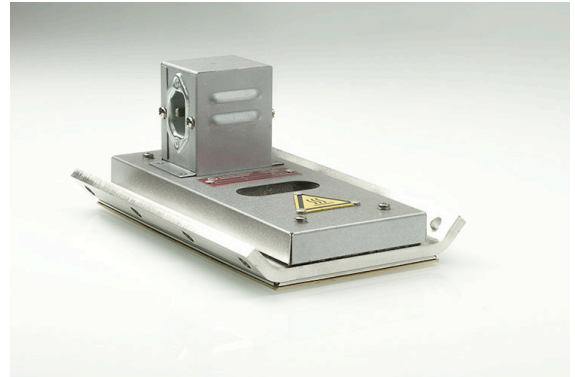
- Surface load: up to 5 W/cm<sup>2</sup>
- Operating temperature: up to 450°C
- thickness:  
BDM/RAM: ~ 13 mm  
BM: ~ 5 mm

### Options

- Various dimensions and connection versions
- Other voltage, single or multi-phase, star or delta connection
- With holes and/or thermocouple bridges
- With integral thermocouple (grounded or non grounded)
- additional cut outs
- additional insulation
- with warning sign - "Attention - hot surface"
- type RAM: additional, welded reinforce band with sides longer as 500 mm
- RAM: in 2 parted or 4 parted design ( 2 or 4 separate connections)
- with fastening angular
- available in all technical possible shapes (round-, profile-, U-/L-shape) as per drawing, sketch or sample.



## Tool Heater Type BD/RA/B



### Applications

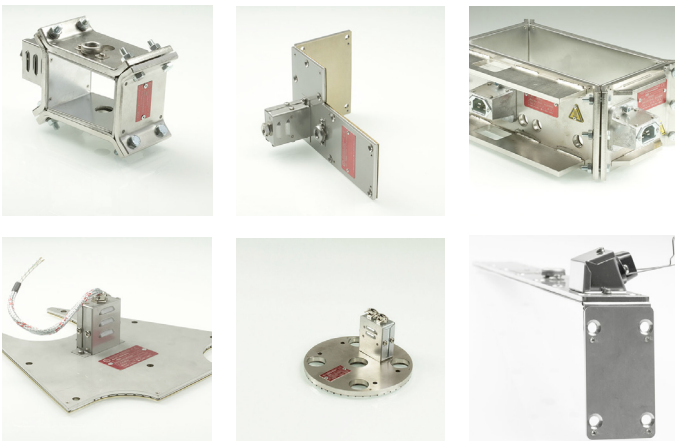
Mica insulated BD/RA/B tool heaters are used with extrusion, injection moulding, automold as well as with tools for distortion.

### Specifications

- Surface load: up to 3,5 W/cm<sup>2</sup>
  - Operating temperature: up to 280°C
- thickness:  
BD: ~ 6/8/11 mm  
RA: ~ 8/11 mm  
B: ~ 3 mm

### Options

- Various dimensions and connection versions
- Other voltage, single or multi-phase, star or delta connection
- With holes and/or thermocouple bridges
- additional cut outs
- additional insulation
- with warning sign - "Attention - hot surface"
- RA: additional, welded reinforce band with sides longer as 500 mm
- RA: in 2 parted or 4 parted designs (2 or 4 separate connections)
- stainless steel execution
- with fastening angular
- available in all technical possible shapes (round-, profile-, U-/L-shape) as per drawing, sketch or sample.



**SAN** Electro Heat a/s

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CVR No.: 42 16 59 13

## Sketch Template Frame and Flat Heaters

Enquiry      No.:

Type:     Z     KHK     M

Order      No.:

ZAK

Customer:

QTY:

Street/Adress:

Size:    L =                  W =                  D =

Post Code/City:

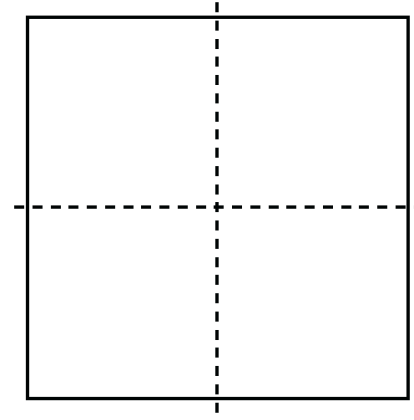
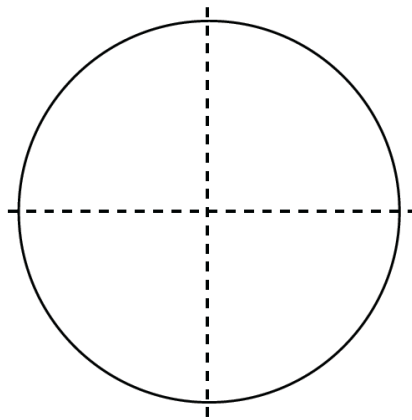
Volt:

Contact:

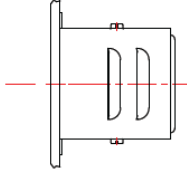
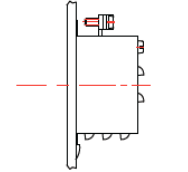
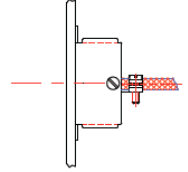
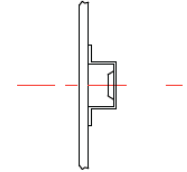
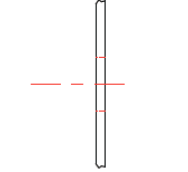
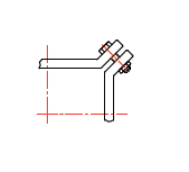
Watt:

Direct Dial:

Brass baffle plate



Please transfer the letters to the appropriate locations in the sketch.

A: contact fitting type KO	B: cable fitting type KA	C: nozzle cap with solid leads	D: thermocouple connector	E: borehole	F: position of clamp lock
					
<p>Please indicate lead exit direction by arrow and specify if necessary lead length</p>			<p>state thread</p>	<p>state Ø</p>	<p>only with frame heaters</p>

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- Frost Protection
- Ex-Material
- Oilfilled Radiators
- Drum Heaters
- Heating Pads
- Flow Heaters
- Air Duct Heaters
- High-voltage
- Resistors
- Controllers



With more than 50 years of experience SAN Electro Heat's most valuable asset is special knowhow about design, product development and manufacturing of professional electrical heating equipment for industrial use.

The company is geared to deliver 100% customized products, and thus functions both as a catalyst for a development project and as supplier of the final product. At the same time we insure and maintain the required quality level, mechanical and electrical dimensioning, approvals and documentation.



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2015/Nov 12th