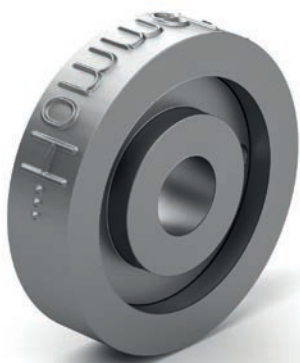


## Marking roll n° 41



### Benefits

- Especially versatile since it is independent of the workpiece diameter
- Marking is possible at high speed
- Change of the reading direction is possible (see operating manual)

### Application

- Precise positioning of characters on workpiece circumference
- Centre height corresponds to the first marking point
- Marking positions can be set as desired

### Features

- The design of marking roll n° 41 is independent of the workpiece diameter
- Three driving points guarantee a perfect impression. They may be placed to the side of the characters
- Full depth and definition are accomplished in one go
- All characters can be used as a drive, e.g. logos, backslash, asterisks, number signs, etc.

Standard design		For marking tools
Flank angle	90°	421
Dimensions (Ø x width x bore) [mm]	25 x 6 x 6	
Typeface	According to DIN 1451	
Max. character height	See "Technology" starting on page 20	

# Spring-return system

Independent of the workpiece diameter; modular design for extra flexibility



## Tool set 421



### Product features

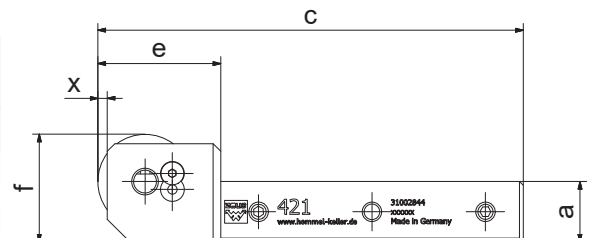
- Modular design:  
Tool can be used as right-hand and left-hand version
- Modular shank design:  
shank size 16 x 16 mm, adaptable
- Top edge of shank = centre height
- Set screws in shank for correcting alignment
- Hardened pin
- Right spring (pre-mounted) for spindle direction M3 (CW), see page 27

### Set consisting of

- 1 x base shank (solid shank version) tool 421-16M
- 1 x shank adapter 20 x 20 mm
- 1 x shank adapter 25 x 25 mm
- 1 x spring, left (for changing the direction of rotation)
- In high-quality case

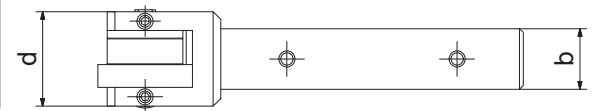
### TOOL SET

Order no.	Tool holder designation	Dimension [mm]						
		a	b	c	d	e	f	x
31002844	421-16M250606	16	16	112.5	25	32.5	28.5	2.5
	With shank adapter 20 x 20 mm	20	20	112.5	25	32.5	32.5	2.5
	With shank adapter 25 x 25 mm	25	25	112.5	25	32.5	37.5	2.5



### E-KIT

Order no.	Direction	
21BHR1503	right	
21BHR1504	left	



## Marking roll n° 41



### Benefits

- Especially versatile since it is independent of the workpiece diameter
- Marking is possible at high speed

### Features

- The design of marking roll n° 41 is independent of the workpiece diameter
- Three driving points guarantee a perfect impression. They may be placed to the side of the characters
- Full depth and definition are accomplished in one go
- All characters can be used as a drive, e.g. logos, backlash, asterisks, number signs, etc.

### Application

- Precise positioning of characters on workpiece circumference
- Centre height corresponds to first marking point
- Marking positions can be set as desired
- Possible to mark workpieces up to a shoulder

Standard design		For marking tools
Flank angle	90°	422
Dimensions (Ø x width x bore) [mm]	15 x 5 x 6 15 x 7 x 6	
Typeface	According to DIN 1451	
Max. character height	See "Technology" starting on page 20	

# Spring-return system

Ideal for lathes with limited space;  
enables marking directly at a shoulder



## Tool set 422



### Product features

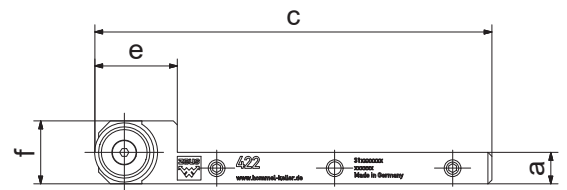
- Modular shank design: shank size 8 x 8 mm, adaptable
- Top edge of shank = centre height
- Set screws in shank for correcting alignment
- Possible to mark workpieces up to a shoulder (for 15 x 7 x 6 mm marking roll)
- Hardened pin
- Right spring (pre-mounted) for spindle direction M3 (CW), see page 27

### Set consisting of

- 1 x base shank (solid shaft version) tool 422-08R
- 1 x shank adapter 10 x 10 mm
- 1 x shank adapter 12 x 12 mm
- 1 x shank adapter 16 x 16 mm
- In high-quality case

### TOOL SET

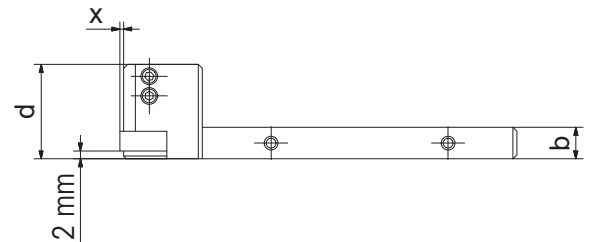
Order no.	Tool holder designation	Dimension [mm]						
		a	b	c	d	e	f	x
31002843	422-08R150506-A	8	8	101	24	21	16	1
	With shank adapter 10 x 10 mm	12	12	101	24	21	18	1
	With shank adapter 12 x 12 mm	12	12	101	24	21	20	1
	With shank adapter 16 x 16 mm	16	16	101	24	21	24	1



### E-KIT

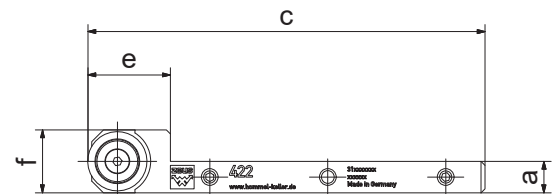
Order no.	Direction	
21BHR1505	right	

Set and E-kit also available in l/h version on request



### TOOL SET UP TO A SHOULDER

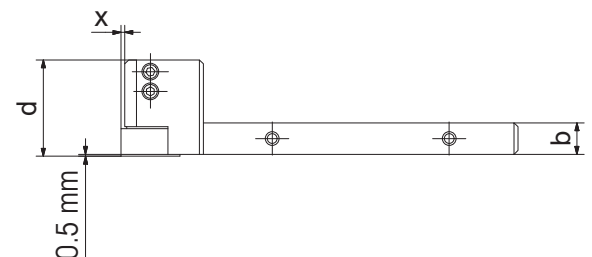
Order no.	Tool holder designation	Dimension [mm]						
		a	b	c	d	e	f	x
31002846	422-08R150706	8	8	101	24.5	21	16	1
	With shank adapter 10 x 10 mm	10	10	101	24.5	21	18	1
	With shank adapter 12 x 12 mm	12	12	101	24.5	21	20	1
	With shank adapter 16 x 16 mm	16	16	101	24.5	21	24	1



### E-KIT

Order no.	Direction	
21BHR1507	right	

Set and E-kit also available in l/h version on request



## Marking segment n° 42



### Benefits

- Especially versatile, since it is independent of the workpiece diameter
- Exchangeable segments enable fast, flexible, and economical adaptation of the text for different applications
- Marking is possible at high speed
- Change of the reading direction is possible (see operating manual)
- Exchangeable segment mount unit for faster switching to a different text
- Segments can be exchanged individually
- Full depth and definition are accomplished in one go
- All characters can be used as a drive, e.g. logos, backlash, asterisks, number signs, etc.

### Application

- Precise positioning of characters on workpiece circumference
- Centre height corresponds to first marking point
- Marking positions can be set as desired

### Features

- The design of marking segment n° 42 is independent of the workpiece diameter
- Three driving points guarantee a perfect impression. They may be placed to the side of the characters
- Marking without driving points is generally possible

Standard design		For marking tools
Flank angle	90°	431
Dimensions (Ø x width x bore) [mm]	45 x 6 x 33	
Typeface	According to DIN 1451	
Max. character height	See "Technology" starting on page 20	

Order no. character height 2 mm	Order no. character height 3 mm	Segments designation
82000067		Start segment
82002237	82002300	Letter set A–Z
82000441	82000378	Numeral set 0–9
82000433	82000041	Special character . (dot)
82000879	82002230	Special character/(slash)
82000416	82000040	Special character – (minus)
82000065		End segment

## Tool set 431



### Product features

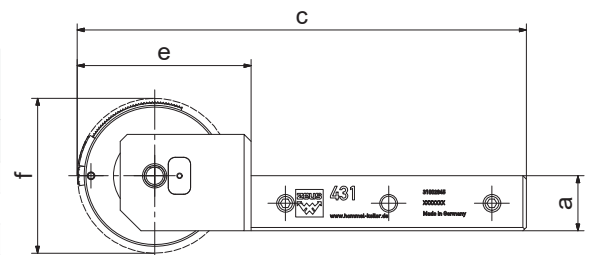
- Modular design:  
Tool can be used as right-hand and left-hand version
- Modular shank design:  
shank size 16 x 16 mm, adaptable
- Top edge of shank = centre height
- Set screws in shank for correcting alignment
- Hardened pin
- Right spring (pre-mounted) for spindle direction M3 (CW), see page 27

### Set consisting of


- 1 x base shank (solid shank version) tool 431-16M
- 1 x shank adapter 20 x 20 mm
- 1 x shank adapter 25 x 25 mm
- 1 x spring, left (for changing the direction of rotation)
- 1 x start and end segment
- In high-quality case

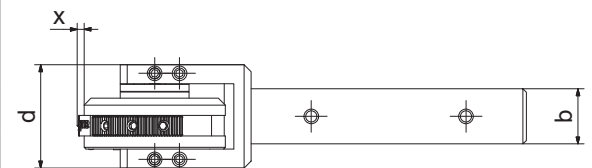
### TOOL SET

Order no.	Tool holder designation	Dimension [mm]						
		a	b	c	d	e	f	x
31002845	431-16M450633-A	16	16	130.5	30	50.5	45	2
	With shank adapter 20 x 20 mm	20	20	130.5	20	50.5	45	2
	With shank adapter 25 x 25 mm	25	25	130.5	20	50.5	47.5	2



### E-KIT

Order no.	Direction	
21BHR1509	right	
21BHR1510	left	



## Marking segment n° 43



### Benefits

- Especially versatile, since it is independent of the workpiece diameter
- Exchangeable segments enable fast, flexible, and economical adaptation of the text for different applications
- Marking is possible at high speed
- Reading direction can be changed by turning the T-shaped segments
- Possible to mark workpieces up to a shoulder
- Exchangeable segment mount unit for faster switching to a different text

### Features

- The design of marking segment n° 43 is independent of the workpiece diameter
- Three driving points guarantee a perfect impression. They may be placed to the side of the characters
- Marking without driving points is generally possible
- Segments can be exchanged individually
- Full depth and definition are accomplished in one go
- All characters can be used as a drive, e.g. logos, backlash, asterisks, number signs, etc.

### Application

- Precise positioning of characters on workpiece circumference
- Centre height corresponds to first marking point
- Marking positions can be set as desired

Standard design		For marking tools
Flank angle	90°	432
Dimensions (Ø x width x bore) [mm]	30 x 8 x 18 50 x 8 x 38	
Typeface	According to DIN 1451	
Max. character height	See "Technology" starting on page 20	

### SEGMENTS Ø 30

Order no. character height 2 mm	Order no. character height 3 mm	Segments designation
85000000		Start segment
85001018	85001139	Letter set A-Z
85000991	85000621	Numeral set 0-9
85001019	85002485	Special character . (dot)
85001059	85001537	Special character / (slash)
85001654	85001257	Special character - (minus)
85000003		End segment

### SEGMENTS Ø 50

Order no. character height 2 mm	Order no. character height 3 mm	Segments designation
85000113		Start segment
85001819	85001283	Letter set A-Z
85001431	85000476	Numeral set 0-9
85002486	85002487	Special character . (dot)
85001857	85001131	Special character / (slash)
85001912	85001600	Special character - (minus)
85000114		End segment



## Tool set 432



### Product features

- Modular shank design: shank size 8 x 8 mm and 16 x 16 mm, adaptable
- Top edge of shank = centre height
- Set screws in shank for correcting alignment
- Hardened pin
- Right spring (pre-mounted) for spindle direction M3 (CW), see page 27

### Set consisting of

#### Tool 432-08R

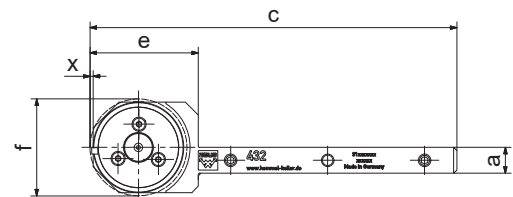
- 1 x base shank (solid shank version) tool 432-08R
- 1 x shank adapter 10 x 10 mm
- 1 x shank adapter 12 x 12 mm
- 1 x shank adapter 16 x 16 mm
- 1 x start and end segment
- In high-quality case

#### Tool 432-16R

- 1 x base shank (solid shank version) tool 432-16R
- 1 x shank adapter 20 x 20 mm
- 1 x shank adapter 25 x 25 mm
- 1 x start and end segment
- In high-quality case

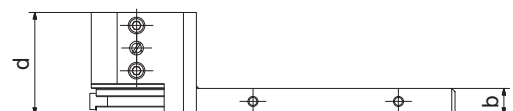
### TOOL SET

Order no.	Tool holder designation	Dimension [mm]						
		a	b	c	d	e	f	x
31002833	432-08R300818	8	8	113.5	31.5	33.5	30	1
	With shank adapter 10 x 10 mm	10	10	113.5	31.5	33.5	30	1
	With shank adapter 12 x 12 mm	12	12	113.5	31.5	33.5	30	1
	With shank adapter 16 x 16 mm	16	16	113.5	31.5	33.5	31	1



### E-KIT

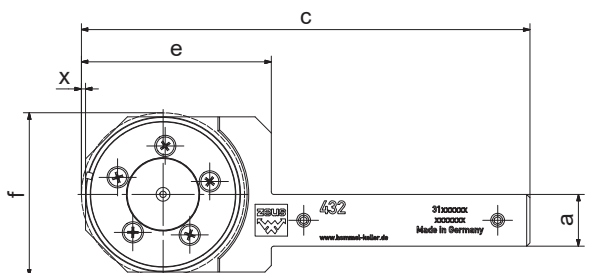
Order no.	Direction	
21BHR1081	right	



Set and E-kit also available in l/h version on request

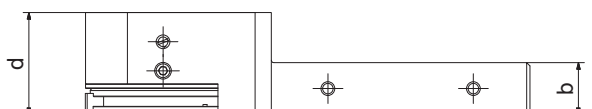
### TOOL SET

Order no.	Tool holder designation	Dimension [mm]						
		a	b	c	d	e	f	x
31002849	432-16R500838	16	16	138.5	31.5	58.5	50	1
	With shank adapter 20 x 20 mm	20	20	138.5	31.5	58.5	50	1
	With shank adapter 25 x 25 mm	25	25	138.5	31.5	58.5	50	1



### E-KIT

Order no.	Direction	
21BHR1111	right	



Set and E-kit also available in l/h version on request