

UKB[®]



UNIBEND WINGBEND PLUS

WWW.UKB-GMBH.COM

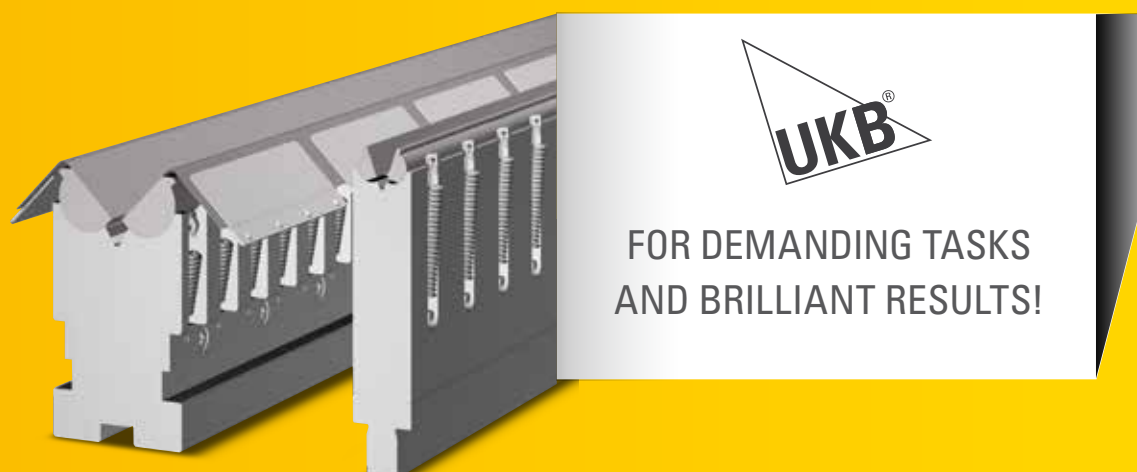
UKB-UNIBEND UKB-WINGBEND PLUS

As a producer of press brake tools and special tools, the company UKB - Uwe Krumm GmbH stands since more than 25 years for its precision, high quality, modern technology and first-class know-how. We produce on 5,000 m², in close cooperation with you, high-quality special tools for fast and economical work processes. A wide range of press brake tools we deliver to you from stock.

Individual customer support is at the center of all projects at UKB.
From consultation and development, through construction and production until delivery - everything is done in-house.
The UKB-Teamplayer want you to be fascinated, not just satisfied!

In this catalogue you find our dies UKB-UniBend and UKB-WingBend PLUS to realize complex bending tasks.

See for yourself - expect the best!



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VIDEO
Image



UKB-Service: Test bending

First test bending - then order!

To point out all the advantages of the dies UniBend (page 4) and WingBend PLUS (page 10), we carry out test bending for you free of charge.

Together we determine the optimum tool for your bending tasks.

VIDEO

UniBend/

WingBend PLUS



Use one of the following possibilities:

- Live-demonstrations by our UKB-Field service on your press brake
- Visit our UKB-Test center with your sample sheets
- Send us your sample sheets



Field service: We would be happy to visit you for a live demonstration on your press brake



Test bending: With your sample sheets in our UKB-Test center.

UKB-AVAILABILITY

Monday to Friday from 7:30am to 6:00pm

Phone +49 (0) 27 36 / 44 42 - 0

Fax +49 (0) 27 36 / 44 42 - 22

E-Mail post@ukb-gmbh.com

Web www.ukb-gmbh.com

UKB-Contact persons see

www.ukb-gmbh.com

We are glad to help you!

Dies UniBend

APPLICATION

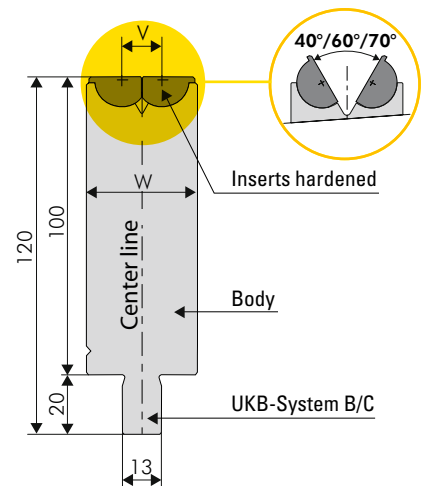
- Material thickness up to 12,0 mm
- Bending angle up to 40°/60°/70°
- Clamping UKB-System B / Type Trumpf and UKB-System C / Type Bystronic
- Via die adaptor applicable on all other press brakes

ADVANTAGES

- Reduces bending marks on sheets
- Short flanges with minimal marking
- Holes close to the bending line without deformation
- Ideal for diagonal and tapered bending
- Repeatability for punched sheets with steady flanges and exact angles
- Bulb and chequered plates with minimal marking at the visible surface
- No damage of the foil while bending laminated sheets
- Less tool change

SERVICE

- Test bends (free of charge)
-  24h from stock
- Order till 4:00pm - same day dispatch



VIDEO

UniBend/
WingBend PLUS



UKB-QUALITY

- Optimal materials
- Precision ground
- Guaranteed exchangeability
- Parallelism

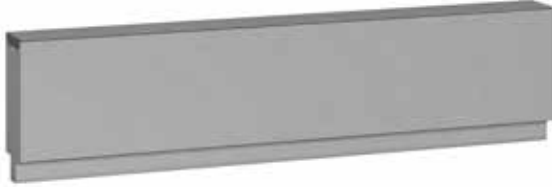


Dies UniBend 29.000, 29.100, 29.150, 29.200 and 29.300

Tool lengths

Dies

Length 500 mm



Length 300 mm



Length 200 mm



Length 100 mm



Length 50 mm

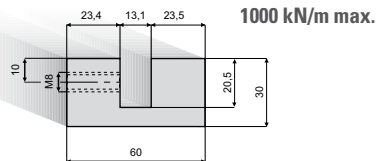


Die adaptors

60.910

1000 mm	208,- €	15,0 kg
500 mm	120,- €	7,5 kg

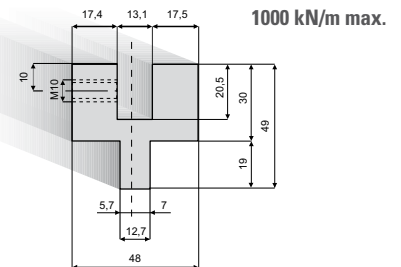
UKB-System A → UKB-System B/C



60.935

1000 mm	378,- €	11,0 kg
500 mm	208,- €	5,5 kg

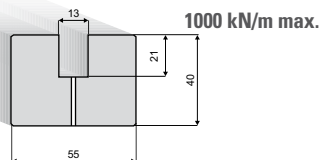
UKB-System L → UKB-System B/C



60.940

500 mm	248,- €	7,5 kg
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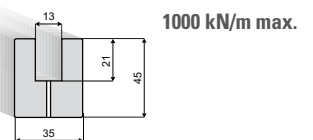
UKB-System E → UKB-System B/C



60.950

500 mm	230,- €	4,5 kg
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UKB-System W → UKB-System B/C



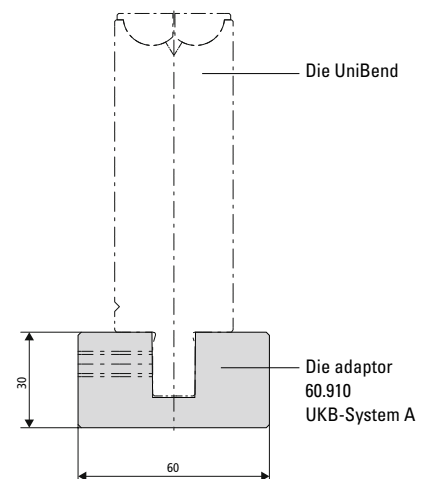
UKB-INFO

Individual die holders available - according agreement within 1-3 working days.
Prices on request!



Die UniBend 29.150 with die adaptor 60.910

MOUNTING EXAMPLE

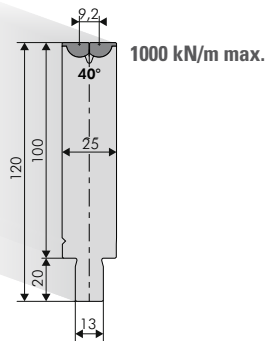


Dies UniBend

29.000

500 mm	1.580,- €	10,0 kg
300 mm	1.150,- €	6,0 kg
200 mm	862,- €	4,0 kg
100 mm	576,- €	2,0 kg
50 mm	384,- €	1,0 kg

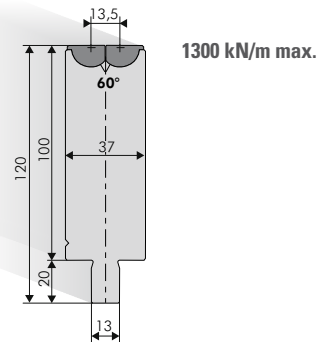
max. 2,0 mm material thickness



29.100

500 mm	1.724,- €	14,0 kg
300 mm	1.294,- €	8,4 kg
200 mm	958,- €	5,6 kg
100 mm	622,- €	2,8 kg
50 mm	432,- €	1,4 kg

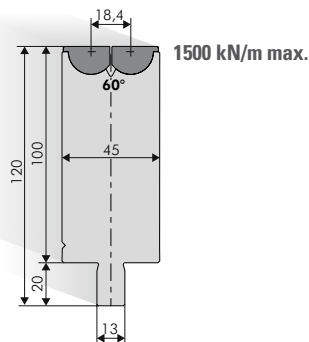
max. 3,0 mm material thickness



29.150

500 mm	1.940,- €	15,0 kg
300 mm	1.484,- €	9,0 kg
200 mm	1.102,- €	6,0 kg
100 mm	694,- €	3,0 kg
50 mm	456,- €	1,5 kg

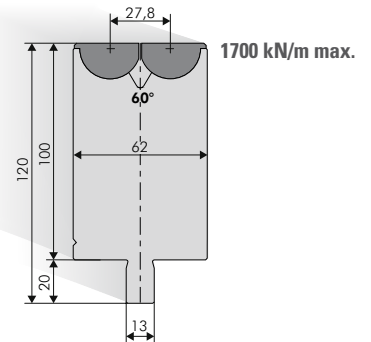
max. 4,0 mm material thickness



29.200

500 mm	2.156,- €	22,5 kg
300 mm	1.676,- €	13,5 kg
200 mm	1.246,- €	9,0 kg
100 mm	766,- €	4,5 kg
50 mm	480,- €	2,3 kg

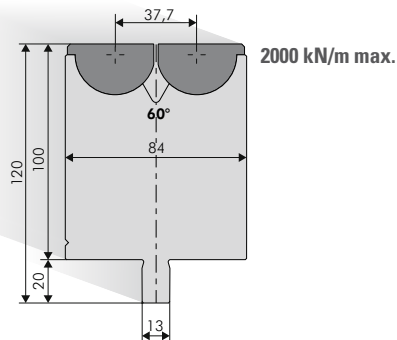
max. 5,0 mm material thickness



29.300

500 mm	2.490,- €	29,0 kg
300 mm	1.868,- €	17,4 kg
200 mm	1.342,- €	11,6 kg
100 mm	862,- €	5,8 kg
50 mm	594,- €	2,9 kg

max. 6,0 mm material thickness



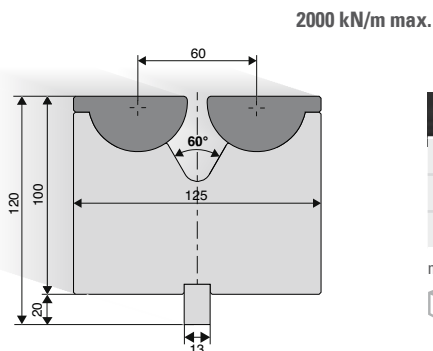
UKB-TEST BENDING

First test bending - then order!
Free of charge - with your sample
sheets in your or our house!

29.600

500 mm	3.048,- €	45,3 kg
300 mm	2.312,- €	27,2 kg
200 mm	1.746,- €	18,2 kg

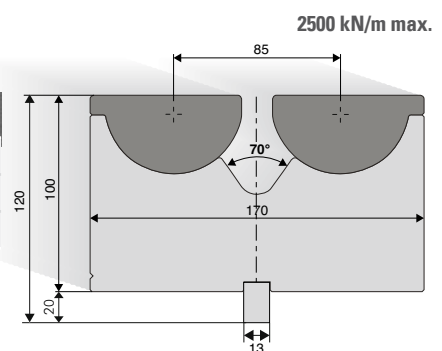
max. 8,0 mm material thickness



29.850

500 mm	3.486,- €	61,5 kg
300 mm	2.630,- €	36,8 kg
200 mm	1.944,- €	24,6 kg

max. 12,0 mm material thickness



Technical data

Table of force: Tensile strength $R_m = 450 \text{ N/mm}^2$, bending angle 90°

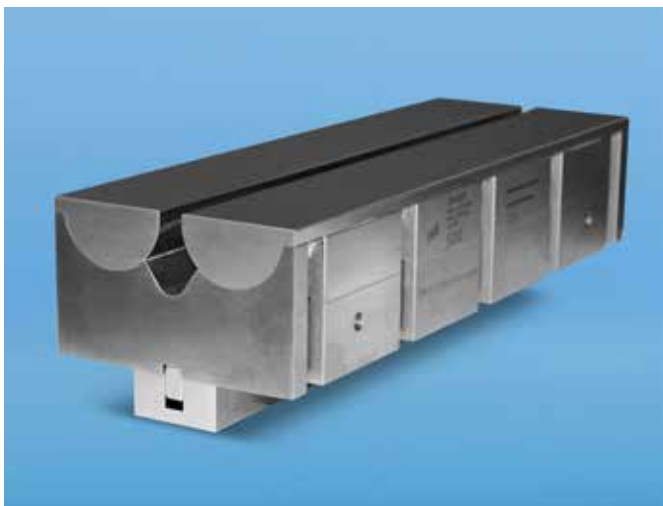
Model	29.000	29.100	29.150	29.200	29.300	29.600	29.850
Radius of the punch/top-tool	R 1,0	R 1,0	R 1,0	R 1,0	R 1,0	R 6,0	R 10,0
Material thickness 0,5 mm	30	30	20				
Material thickness 1,0 mm	100	60	40	30			
Material thickness 1,5 mm	240	130	90	50			
Material thickness 2,0 mm	530	260	150	100	80		
Material thickness 2,5 mm		460	270	160	130		
Material thickness 3,0 mm		770	510	270	180		
Material thickness 4,0 mm			970	530	400		
Material thickness 5,0 mm				880	660	210	
Material thickness 6,0 mm					1050	580	
Material thickness 8,0 mm						1310	720
Material thickness 10,0 mm							1350
Material thickness 12,0 mm							1630

Reference value for minimum flange: mild steel

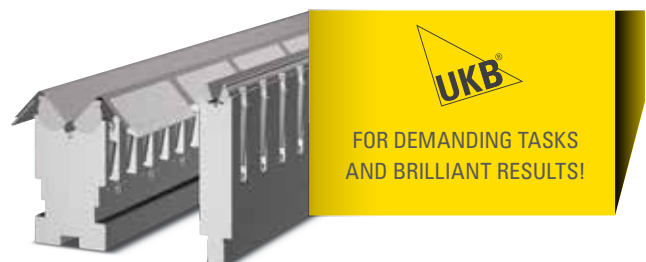
Model	29.000		29.100	29.150		29.200		29.300		29.600		29.850	
Radius of the punch/top-tool	R 0,5	R 1,0	R 1,0	R 1,0	R 3,0	R 1,0	R 4,0	R 1,0	R 4,0	R 4,0	R 6,0	R 6,0	R 10,0
Material thickness 0,5 mm	4,6	4,7	5,6	10,0	10,4								
Material thickness 1,0 mm	5,3	5,3	6,8	10,1	10,5	15,6	16,0						
Material thickness 1,5 mm	5,6	5,7	7,6	10,6	11,0	16,0	16,6						
Material thickness 2,0 mm	5,9	6,1	8,0	10,8	11,2	16,3	17,8	19,4	19,5				
Material thickness 2,5 mm			8,2	11,1	11,5	16,4	17,9	19,8	20,0				
Material thickness 3,0 mm			8,3	11,4	11,9	16,5	18,5	20,6	20,6				
Material thickness 4,0 mm				13,1	13,5	16,8	18,7	21,1	21,2				
Material thickness 5,0 mm						17,0	19,3	22,0	22,0	40,4	40,6		
Material thickness 6,0 mm								23,4	23,2	41,0	41,2		
Material thickness 8,0 mm										42,4	43,0	54,8	55,0
Material thickness 10,0 mm												55,7	56,3
Material thickness 12,0 mm												57,3	57,5

Reference value for stainless steel and aluminium on our Website:

www.ukb-gmbh.com or please phone us: Phone +49 (0) 27 36 / 44 42 - 0



Die UniBend 29.850 and die adaptor 60.910



Die UniBend VARIO

ADVANTAGES UNIBEND VARIO

(See page 4 UniBend die)

ADDITIONAL ADVANTAGES UNIBEND VARIO

- Flexible adjustable V-openings
 - V = 40-100 mm
- Die width fast and easy adjustable, by changing strips, in 5 mm steps

VIDEO

UniBend/
WingBend PLUS



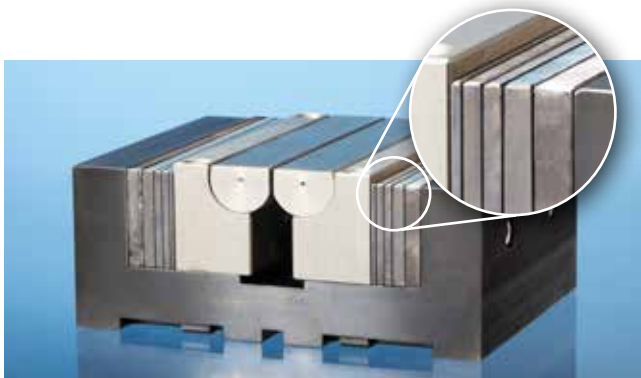
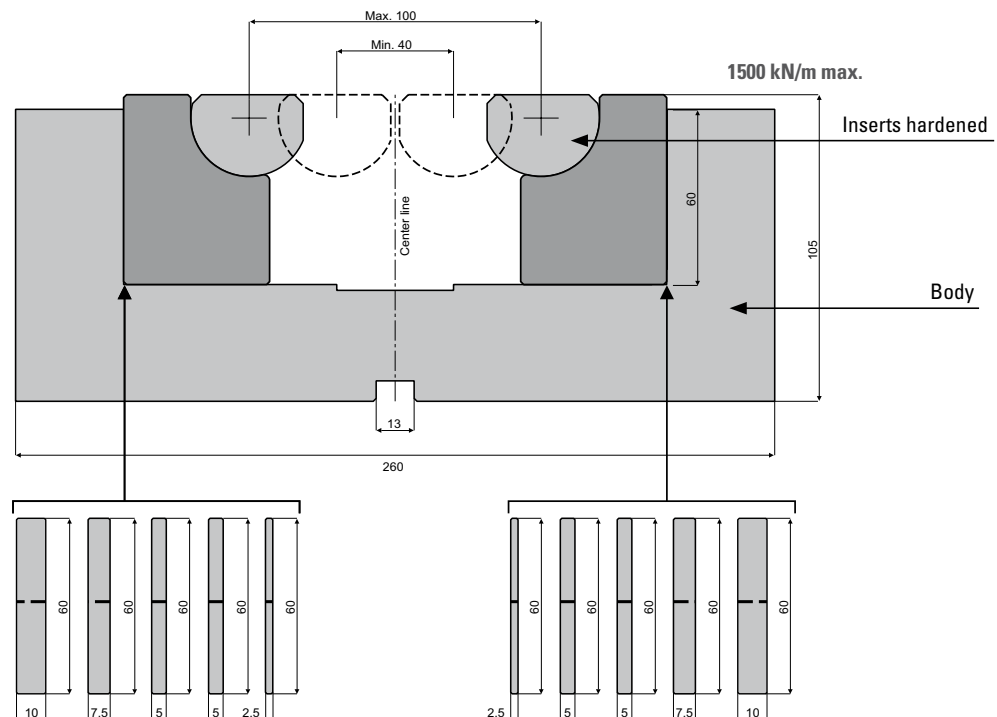
UKB-QUALITY

- Optimal materials
- Precision ground
- Guaranteed exchangeability
- Parallelism

62.094

200 mm 2.850,- € 40,0 kg

UniBend VARIO including inserts
type flat and strips in a set:
Width = 2 x each 2,5/5/7,5/10
max. 12,0 mm material thickness



Strips inserted, V = 40 mm



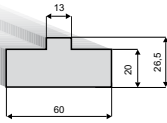
Without strips, V = 100 mm

Die holders

20.701

198 mm 80,- € 2,0 kg

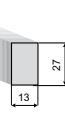
Screwed on holder UKB-System A



20.703

198 mm 35,- € 0,6 kg

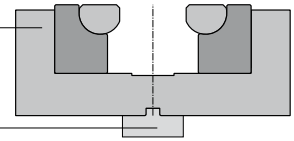
Screwed on holder UKB-System B/C



MOUNTING EXAMPLE

UniBend VARIO
62.094

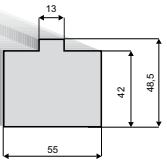
Die holder
20.701
UKB-System A



20.707

198 mm 110,- € 3,0 kg

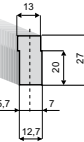
Screwed on holder UKB-System E



20.705

198 mm 55,- € 0,6 kg

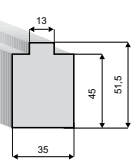
Screwed on holder UKB-System L



20.709

198 mm 80,- € 2,4 kg

Screwed on holder UKB-System W

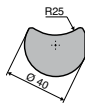


Changeable inserts

62.181

200 mm 260,- € 1,5 kg

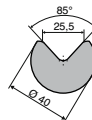
Inserts type concave for 62.094
Price per piece



62.182

200 mm 260,- € 1,5 kg

Inserts type V for 62.094
Price per piece



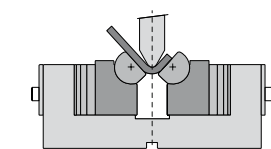
62.183

200 mm 210,- € 1,5 kg

Inserts type flat for 62.094
Price per piece



EXAMPLES OF USE



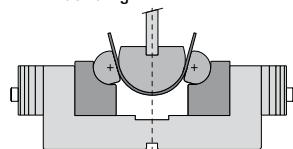
V-bending



Inserts
type flat



Result



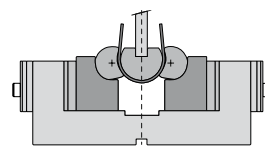
Radius bending



Inserts
type flat



Result



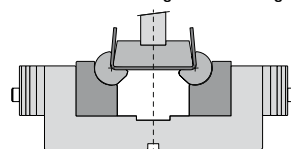
Radius bending/overbending



Inserts
type concave



Result



U-bending



Inserts
type V



Result



Bending results with UniBend VARIO

Dies WingBend PLUS

APPLICATION

- Material thickness up to 6,5 mm
- Bending angle up to 60°
- Via die holders direct applicable on UKB-System A/B/C/L

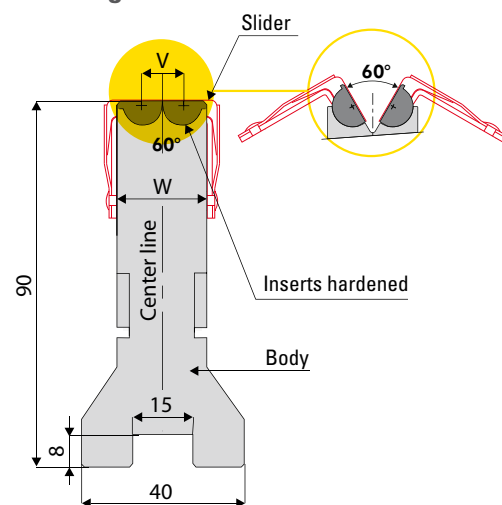
ADVANTAGES

- Avoids bending marks on sheets via Slider
- Short flanges with minimal marking
- Holes close to the bending line without deformation
- Ideal for diagonal and tapered bending
- Repeatability for punched sheets with steady flanges and exact angles
- Bulb and chequered plates with minimal marking at the visible surface
- No tool contamination while bending galvanized material or aluminium
- No reworking of workpieces necessary
- Increased product quality
- Less tool change

SERVICE

- Test bends (free of charge)
-  24h from Stock
- Order till 4:00pm
- same day dispatch

WingBend PLUS



VIDEO

UniBend/
WingBend PLUS



UKB-QUALITY

- Optimal materials
- Precision ground
- Guaranteed exchangeability
- Parallelism

Tool lenghts

Length 500 mm



Length 200 mm



Length 100 mm



Length 50 mm



Length 90 mm sectionalized

- Sectionalized dies are delivered as a complete set
- 4 Segments



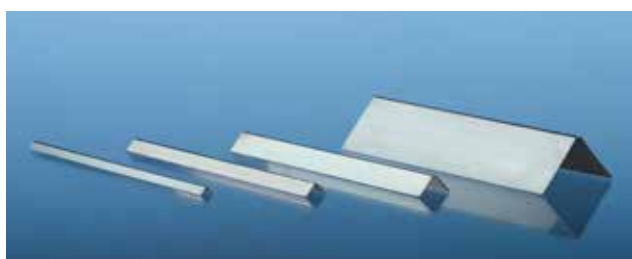
Die WingBend PLUS 62.230 incl. Slider

Slider for WingBend PLUS

- Avoids bending marks on sheets
- No reworking of workpieces necessary
- Increased product quality
- Continuously slider in favoured lengths up to 2000/3000 mm available
- Slider for model 62.120 up to a length of 2000 mm in one-piece available
- Slider for models 62.230, 62.350, 62.650s up to a length of 3000 mm in one-piece available
-  24h from stock

UKB-INFO

Prices on request
or visit www.ukb-gmbh.com



Slider for WingBend PLUS



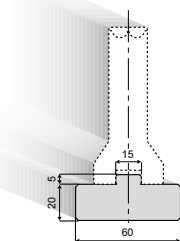
Dies WingBend PLUS with continuously Slider

Die holders

60.102

499 mm	140,- €	5,2 kg
198 mm	82,- €	2,0 kg
98 mm	54,- €	1,0 kg
48 mm	38,- €	0,5 kg
90 mm sectionalized	130,- €	0,9 kg

Screwed on holder UKB-System A
(60 mm base) for dies
WingBend PLUS



60.103

499 mm	120,- €	1,5 kg
198 mm	52,- €	0,6 kg
98 mm	46,- €	0,3 kg
48 mm	44,- €	0,2 kg
90 mm sectionalized	136,- €	0,3 kg

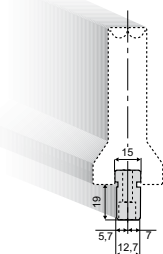
Screwed on holder UKB-System B/C
(13 x 20 mm tang) for dies
WingBend PLUS



60.105

499 mm	120,- €	1,5 kg
198 mm	58,- €	0,6 kg
98 mm	52,- €	0,3 kg
48 mm	46,- €	0,2 kg
90 mm sectionalized	154,- €	0,3 kg

Screwed on holder UKB-System L
(12,7 x 19 mm tang) for dies
WingBend PLUS



UKB-INFO

More die holders available!
Prices and delivery times on request!



The comparison: Bending results with WingBend PLUS and standard-V-die

UKB-WINGBEND PLUS

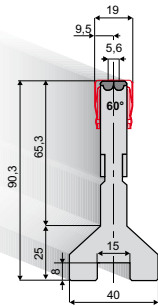
Phone +49 (0) 27 36 / 44 42 - 0 . Fax +49 (0) 27 36 / 44 42 - 22

Dies WingBend PLUS

62.120

500 mm	1.780,- €	5,5 kg
200 mm	892,- €	2,2 kg
100 mm	642,- €	1,1 kg
50 mm	350,- €	0,6 kg
90 mm sectionalized	1.402,- €	1,0 kg

Incl. Slider in particular tool length
max. 1,2 mm material thickness

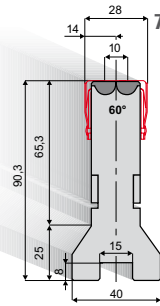


500 kN/m max.

62.230

500 mm	1.944,- €	8,0 kg
200 mm	918,- €	3,2 kg
100 mm	656,- €	1,6 kg
50 mm	370,- €	0,8 kg
90 mm sectionalized	1.474,- €	1,5 kg

Incl. Slider in particular tool length
max. 2,3 mm material thickness

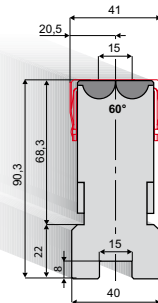


700 kN/m max.

62.350

500 mm	2.104,- €	8,3 kg
200 mm	1.184,- €	4,1 kg
100 mm	854,- €	2,1 kg
50 mm	462,- €	1,1 kg

Incl. Slider in particular tool length
max. 3,5 mm material thickness

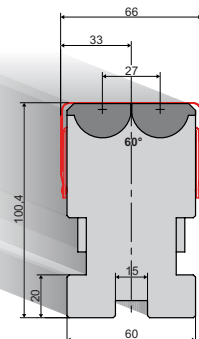


1000 kN/m max.

62.650s

500 mm	3.010,- €	18,0 kg
200 mm	1.250,- €	7,2 kg
100 mm	880,- €	3,6 kg
50 mm	486,- €	1,8 kg

Incl. Slider in particular tool length
max. 6,5 mm material thickness
narrow design



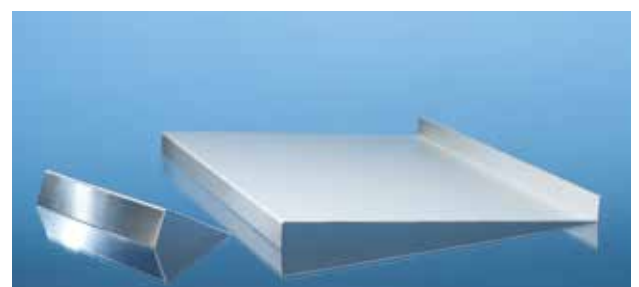
1500 kN/m max.



Dies WingBend PLUS 62.120, 62.230, 62.350 and 62.650s incl. Slider



Holes near the bending line without deformation possible



Anodized aluminium and polished stainless steel sheet
with no visible bending marks on the surface

Technical data

Table of force: Tensile strength $R_m = 450 \text{ N/mm}^2$, bending angle 90°

Model	62.120		62.230			62.350			62.650s			
Radius of the punch/top-tool	R 0,2	R 1,0	R 0,2	R 1,0	10,3	R 0,2	R 1,0	R 3,0	R 1,0	R 3,0	R 5,0	R 10,0
Material thickness 0,3 mm	40	50	40	50	50							
Material thickness 0,5 mm	50	60	50	50	50	40	40	40	100	100	100	220
Material thickness 0,8 mm	100	130	70	80	90	40	50	50	100	110	130	230
Material thickness 1,0 mm	150	190	80	100	130	60	60	70	120	120	140	250
Material thickness 1,2 mm	240	300	110	140	180	70	70	80	120	120	150	270
Material thickness 1,6 mm			200	220	250	120	130	140	120	130	160	280
Material thickness 2,0 mm			300	330		190	200	220	130	140	160	360
Material thickness 2,3 mm			400	420		240	240	260	140	150	190	390
Material thickness 2,6 mm						340	360	470	190	200	240	510
Material thickness 3,2 mm						550	660		270	280	310	
Material thickness 4,0 mm									430	440	510	
Material thickness 4,6 mm									530	540	660	
Material thickness 6,0 mm									1000	1070		

Reference value for minimum flange: Mild steel

Model	62.120		62.230		62.350	62.650s	
Radius of the punch/top-tool	R 0,5	R 1,0	R 0,5	R 1,0	R 1,0	R 1,0	R 4,0
Material thickness 0,5 mm	2,7	2,9					
Material thickness 0,8 mm	3,2	3,4	4,7	4,9	5,6		
Material thickness 1,0 mm	3,5	3,6	5,4	5,5	7,1	7,7	7,2
Material thickness 1,5 mm			6,0	6,1	8,1	8,2	9,2
Material thickness 2,0 mm			6,4	6,6	8,3	10,4	10,9
Material thickness 2,5 mm					8,9	11,7	12,3
Material thickness 3,0 mm					9,4	13,3	13,9
Material thickness 4,0 mm						15,1	15,8
Material thickness 5,0 mm						16,1	16,3

Reference values for stainless steel and aluminium on our Website:
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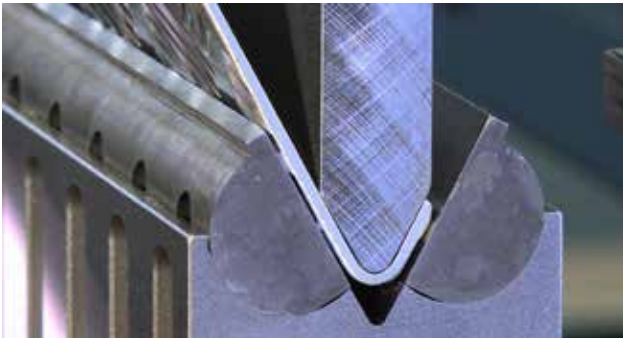
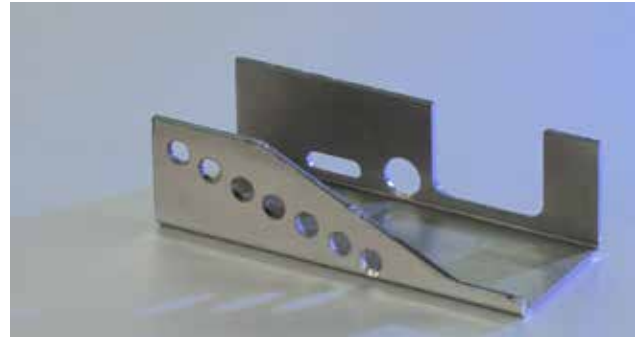


Examples of use UKB-UniBend



Die UniBend 29.000:

- 1,5 mm mild steel
- Diagonal tapered bend part - short flanges - holes near the bending line



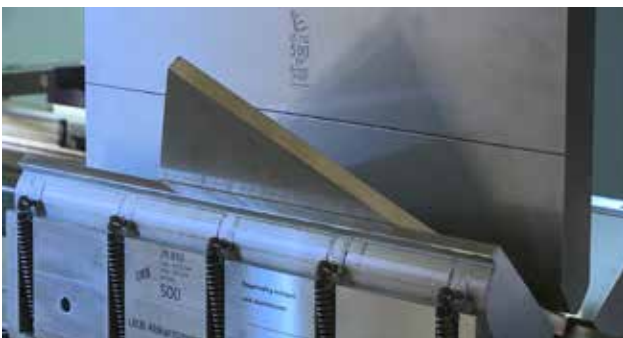
Die UniBend 29.200:

- 2,5 / 4,0 mm aluminium chequered plate
- Bend part with short flanges - mark reduced - without damage of the die



Die UniBend 29.300:

- 6,0 mm stainless steel (1.4301)
- Bend part with holes near the bending line - without deformation and mark reduced

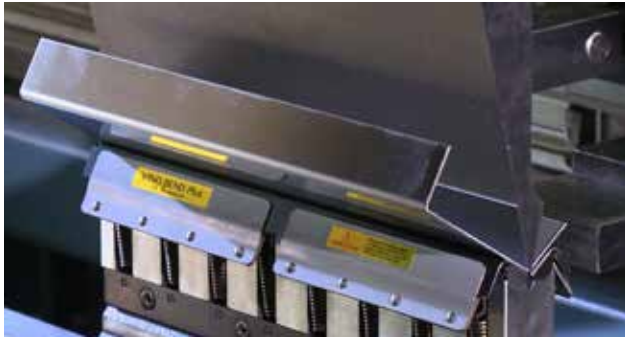


Die UniBend 29.850:

- 6,0 mm aluminium
- Tapered bend part - without deformation of the profile

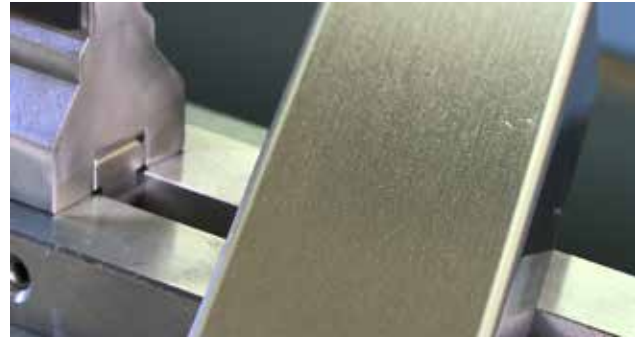


Examples of use UKB-WingBend PLUS



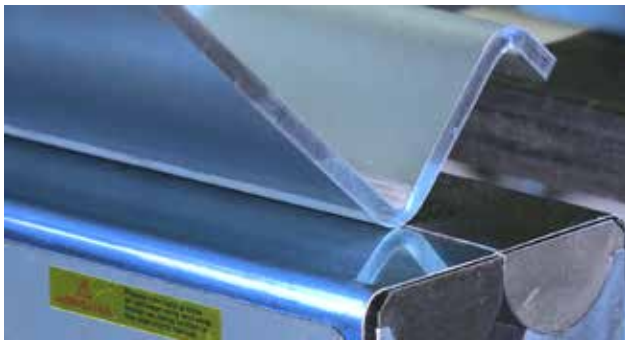
Die WingBend PLUS 62.230:

- 1,5 mm aluminium, polished
- Bend part mark free - no reworking necessary



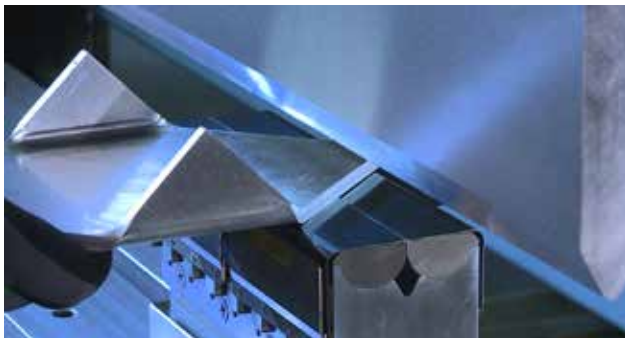
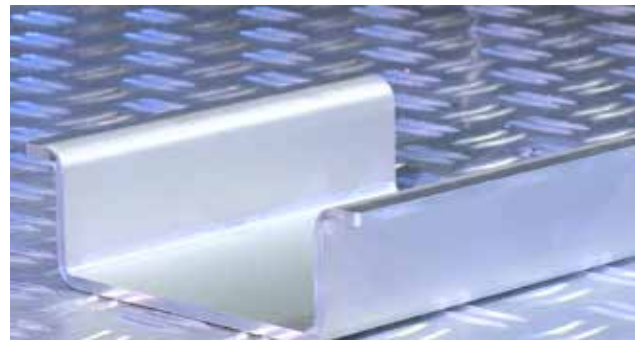
Die WingBend PLUS 62.350:

- 3,0 mm anodised aluminium
- Bend part with short flanges - mark free



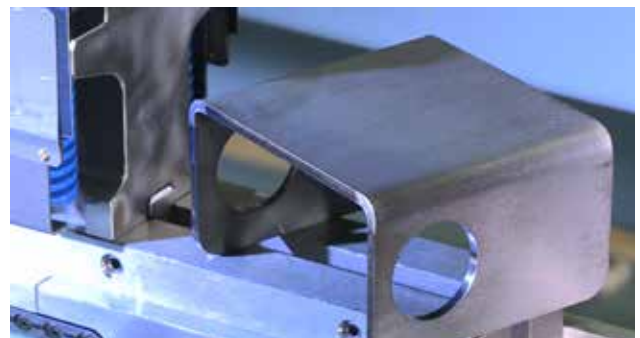
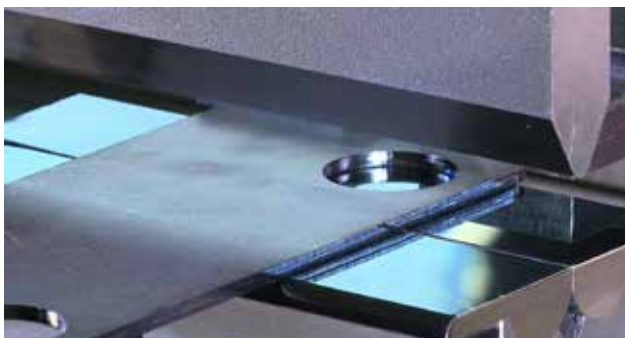
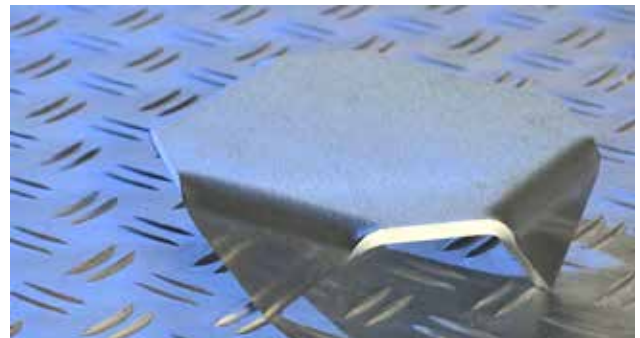
Die WingBend PLUS 62.650s:

- 6,0 mm aluminium, polished
- Diagonal bending - without deformation of the profile



Die WingBend PLUS 62.650:

- 3,0 mm mild steel
- Bend part with holes near the bending line - without deformation





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