

Explanation of symbols



Max. continuous load



Folding



Material, tensile strength



Weight



Final processing working surface
hardened and ground



Max. box height



Vertically exchangeable (Safety-Click)



Minimum side length
(at maximum sheet thickness and
minimum punch-radius)



Minimum Z-dimension
at max. sheet thickness



Technical information

Dies with bore holes for folding tools



Bore holes available (from 25 mm)



Bore hole possible
(ordering price + 10% surcharge)

Punches up to H = 200 mm

Punch



Delivery time: ex warehouse

OW200/K	Radius:	R1,0 mm
	Angle:	86°
	Height:	120 mm
	Mat. No.	Price
VAR. B		
4050	0823788	- EUR
3050	0823787	- EUR
2550	0835174	- EUR
2050	0823786	- EUR
1250	0825696	- EUR
1050	0867268	- EUR
VAR. A		
2050	0823783	- EUR
1250	0825695	- EUR
1050	1576196	- EUR
550	1601819	- EUR
SET 250		
250	0825692	- EUR
SINGLE		
500	0823781	- EUR
300	0823780	- EUR
200	0823779	- EUR
100	0824474	- EUR
Horn left 100	0824472	- EUR
Horn right 100	0824473	- EUR
50	0824471	- EUR
45	0824470	- EUR
40	0824469	- EUR
35	0824468	- EUR
30	0824467	- EUR
25	0824466	- EUR
20	0838231	- EUR
15	0838230	- EUR
10	0838229	- EUR

Lengths in [mm]

Technical data



800 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

28,9 kg/m



~60 HRC

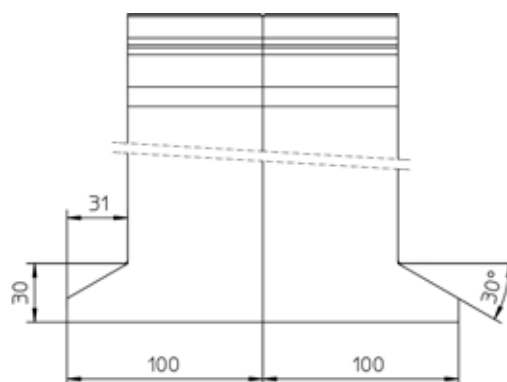


64 mm



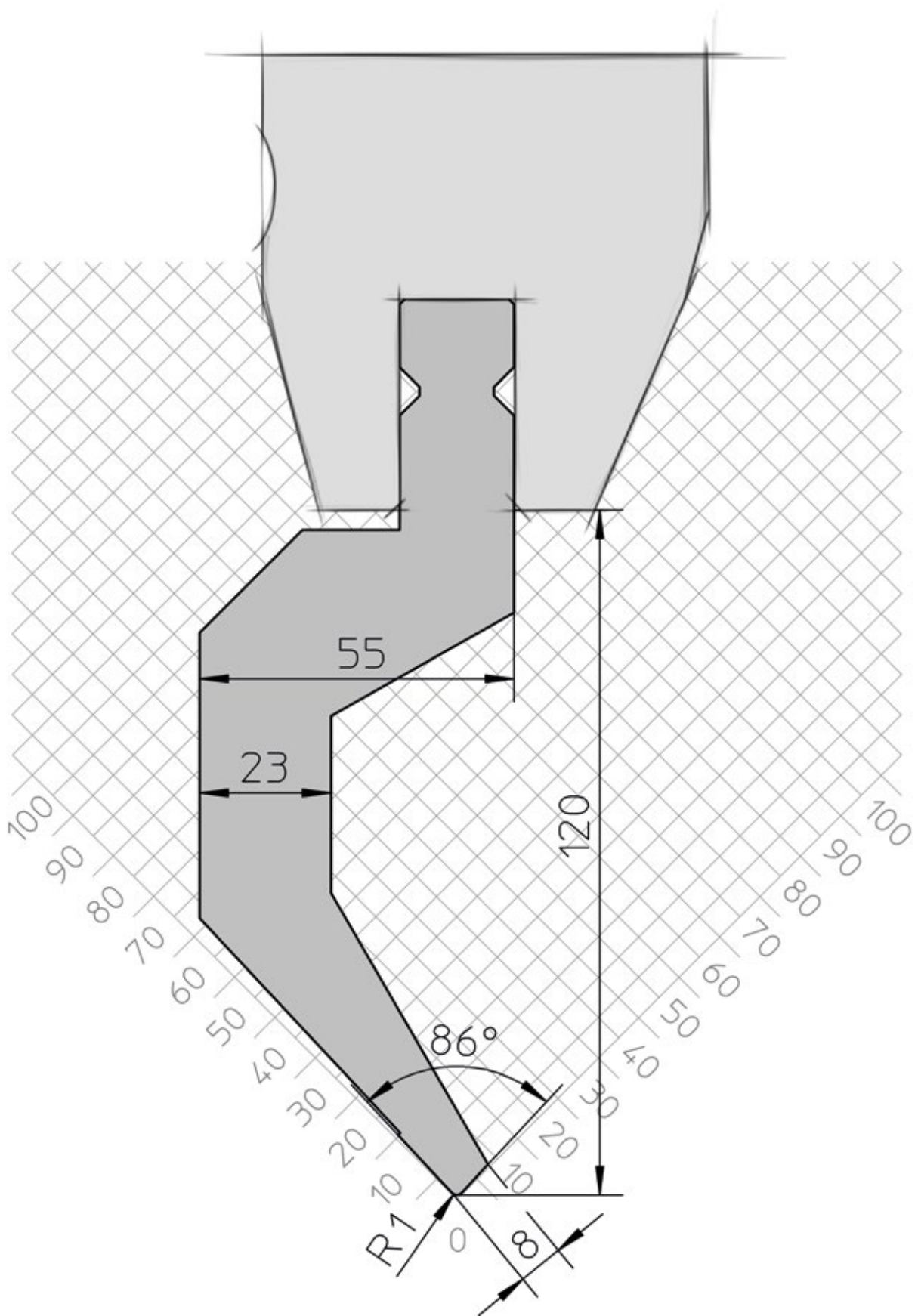
10 mm - 300 mm

Horn left / right

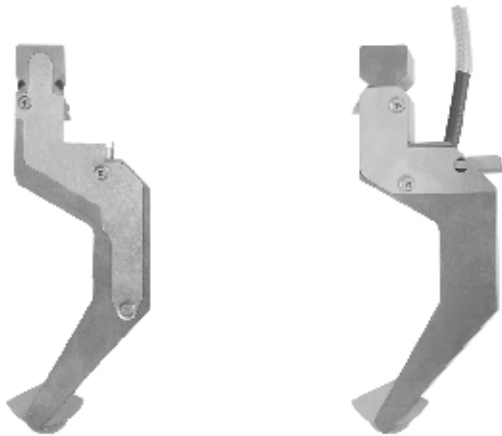


More working radii											Delivery time: 2 weeks
OW200/K	R0,5	R1,6	R2	R2,3	R2,5	R3	R3,2	R4	R5	R6	Radius
	86°	86°	86°	86°	86°	86°	86°	86°	86°	86°	Angle
	119,8	119,2	119,2	119	119	118,7	118,6	118,3	117,8	117,3	Height
	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Price
VAR. B											
4050	0868289	0868295	0868300	0868312	0868319	0868324	0855080	0868407	1938318	0874746	- EUR
3050	0846063	0832791	0831478	0839065	0834501	0834516	0839066	0834532	0834556	0861678	- EUR
2550	0868288	0839388	0847141	0839383	0850076	0853797	0839380	0854438	0864476	0854878	- EUR
2050	0833552	0839386	0852195	0839384	0854453	0848442	0839381	0848454	0873905	0857213	- EUR
1250	0848070	0839387	0860478	0839385	0829977	0868325	0839382	0842424	1254712	0832068	- EUR
1050	1667589	1593107	1645116	1871095	1593190	1674887	1837176	1593195	1658290	1593198	- EUR
VAR. A											
2050	0868284	0868291	0868296	0868308	0868315	0868321	0868395	0868403	2416033	1205298	- EUR
1250	0868283	0868290	0868329	0868307	0868314	0868320	0868394	0868402	1525467	1568387	- EUR
1050	1667588	1871061	1871070	1576241	1871132	1666717	1837175	1753378	2312768	1990209	- EUR
550	1667587	1871050	1651650	1871094	1871131	1697998	1651651	1651652	1674889	1674935	- EUR
SET 250											
250	0833575	0832790	0831477	0839331	0829963	0834515	0839282	0834531	0834555	0832066	- EUR
SINGLE											
500	0833562	0832777	0827213	0839316	0829961	0827226	0839268	0827240	0834542	0832050	- EUR
300	0833561	0832776	0831471	0839315	0829960	0834506	0839267	0834521	0834541	0832049	- EUR
200	0833560	0832775	0827212	0839314	0829959	0827225	0839266	0827239	0834540	0832048	- EUR
100	0833569	0832784	0827218	0839323	0829973	0827234	0839275	0827243	0834549	0832057	- EUR
Horn left 100	0833572	0832787	0831474	0839327	0829971	0834512	0839278	0834528	0834552	0832064	- EUR
Horn right 100	0833573	0832788	0831475	0839329	0829972	0834513	0839279	0834529	0834553	0832065	- EUR
50	0833568	0832783	0827217	0839322	0829970	0827233	0839274	0834525	0834548	0832056	- EUR
45	0833567	0832782	0827216	0839321	0829969	0827232	0839273	0834524	0834547	0832055	- EUR
40	0833566	0832781	0827215	0839320	0829968	0827231	0839272	0834523	0834546	0832054	- EUR
35	0833565	0832780	0831473	0839319	0829967	0834508	0839271	0827242	0834545	0832053	- EUR
30	0833564	0832779	0827214	0839318	0829966	0827230	0839270	0834522	0834544	0832052	- EUR
25	0833563	0832778	0831472	0839317	0829964	0834507	0839269	0827241	0834543	0832051	- EUR
20	1307796	1472577	1472595	1871098	1871135	0853796	1871152	1871211	2623207	1292586	- EUR
15	1307795	1472576	1472593	1871097	1871134	0853794	1871151	1871160	2623206	1292585	- EUR
10	1307794	1489520	1871092	1871096	1871133	0853793	1871140	1871159	2623204	1292584	- EUR

Lengths, radius and height in [mm]



Sensor tool



Delivery time: ex warehouse

**ACB
OW200/K**

Radius:	R1,0 mm
Angle:	86°
Height:	120 mm
Mat. No.	Price

ACB

Sensor tool 25	0902753	- EUR
Initial equipment 2.G	1273588	- EUR

ACB Wireless

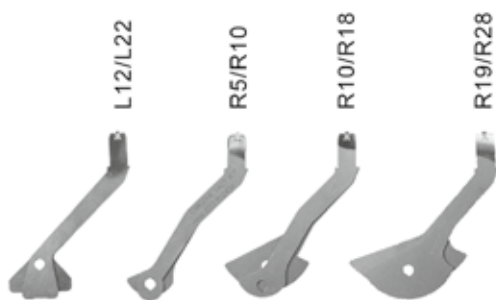
Sensor tool 25	1858866	- EUR
Initial equipment	2040948	- EUR

Sensor disk

L22	0912267	- EUR
L12	0912266	- EUR
R28	0902666	- EUR
R19	0904046	- EUR
R18	0901125	- EUR
R10	0901126	- EUR
R05	0902436	- EUR

The sensor disks marked with a star (*) are included in the sensor tool scope of delivery.

Sensor disks OW 200/K

**R5/R10 ***

Mat.	s	W	α	R (OW)
StSt	≤ 2.5	≤ 16	90 - 95	≤ 2
St	≤ 2.5	≤ 16	90 - 105	≤ 2
Al	≤ 2.5	≤ 16	90 - 105	≤ 2

R10/R18 *

Mat.	s	W	α	R (OW)
StSt	≤ 3.0	≤ 20	90 - 100	≤ 4
St	≤ 4.0	≤ 24	90 - 105	≤ 4
Al	≤ 4.0	≤ 24	90 - 105	≤ 4

R19/R28

Mat.	s	W	α	R (OW)
StSt	≤ 6.0	≤ 50	90 - 95	≤ 6
St	≤ 10.0	≤ 70	90 - 100	≤ 6
Al	≤ 8.0	≤ 70	90 - 100	≤ 6

L12/L22

Mat.	s	W	α	R (OW)
StSt	≤ 2.5	≤ 16	105 - 135	≤ 3
St	≤ 2.5	≤ 16	105 - 135	≤ 3
Al	≤ 2.5	≤ 16	105 - 135	≤ 3

For bigger tool radii restricted angle measurements ranges are valid!
Angles of 120°-135° possible, depending on the sensor and application.

Punch



Delivery time: ex warehouse

OW280/K	Radius:	R0,5 mm
	Angle:	80°
	Height:	140 mm
	Mat. No.	Price
VAR. B		
4050	1203552	- EUR
3050	1203551	- EUR
2550	1203550	- EUR
2050	1202371	- EUR
1250	0994475	- EUR
1050	1483114	- EUR
VAR. A		
2050	1203506	- EUR
1250	1203505	- EUR
1050	1607695	- EUR
550	1587197	- EUR
SET 250		
250	0994474	- EUR
SET 150		
150	1207217	- EUR
SINGLE		
500	0994464	- EUR
300	0994463	- EUR
200	0994462	- EUR
100	0994465	- EUR
Horn left 100	0994472	- EUR
Horn right 100	0994473	- EUR
50	0994471	- EUR
45	0994470	- EUR
40	0994469	- EUR
35	0994468	- EUR
30	0994467	- EUR
25	0994466	- EUR
20	1465755	- EUR
15	1465754	- EUR
10	1293086	- EUR

Lengths in [mm]

Technical data



400 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

30,8 kg/m



~60 HRC

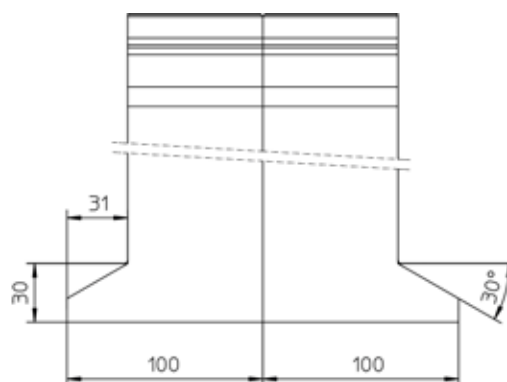


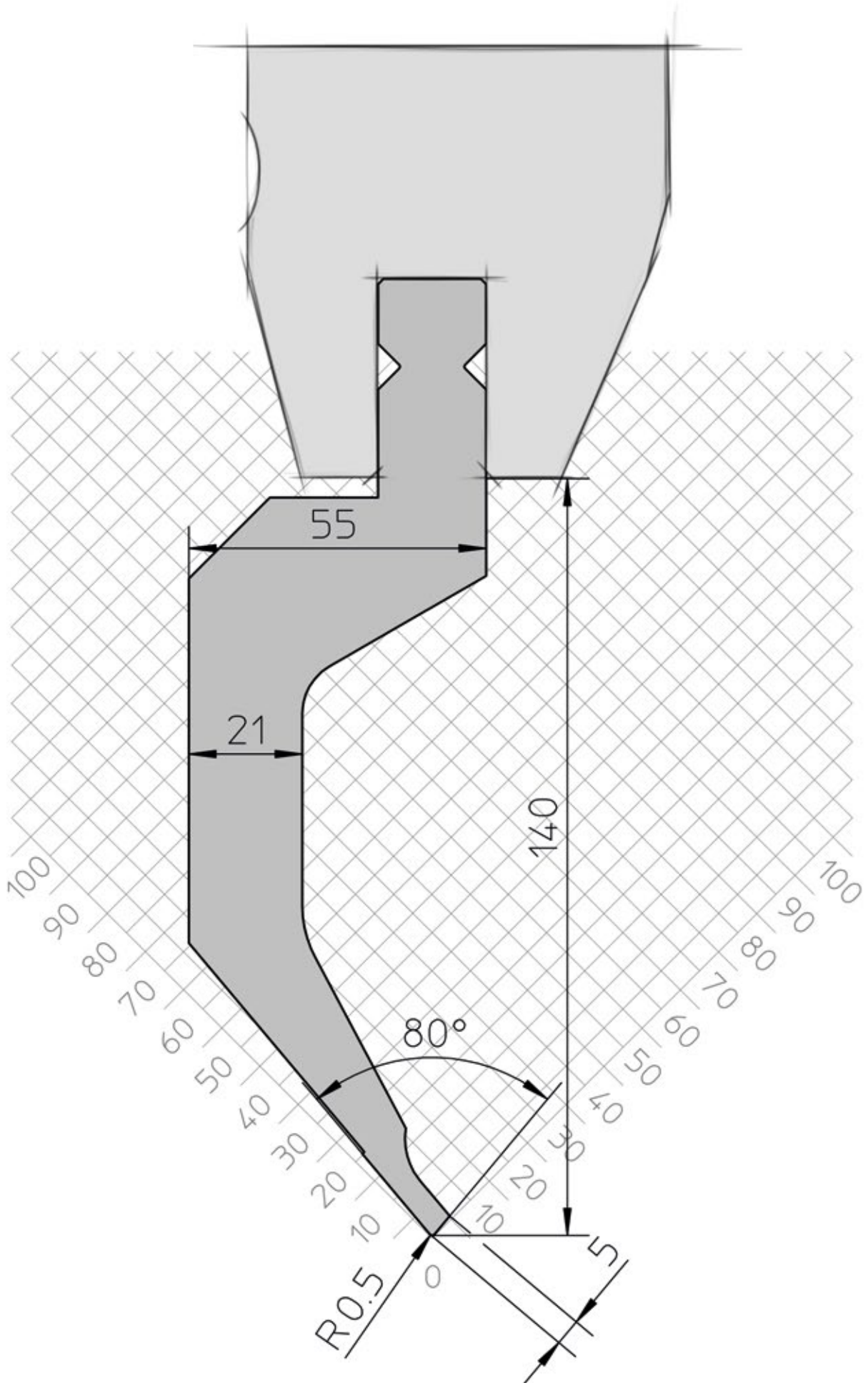
78 mm



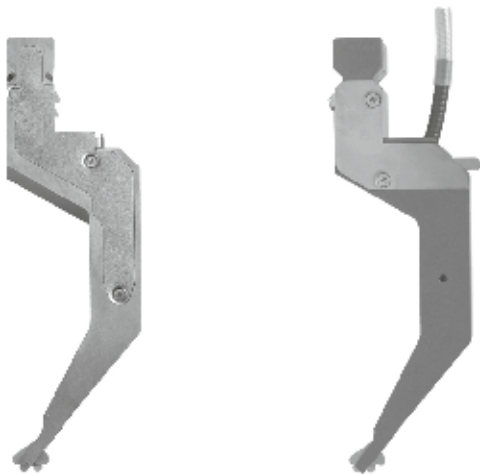
10 mm - 300 mm

Horn left / right





Sensor tool



Delivery time: ex warehouse

**ACB
OW280/K****Radius:** R0,5 mm**Angle:** 80°**Height:** 140 mm**Mat. No.** **Price****ACB**

Sensor tool 25 1206823 - EUR

Initial equipment 2.G 1273600 - EUR

ACB Wireless

Sensor tool 25 1942753 - EUR

Initial equipment 2040912 - EUR

Sensor disk

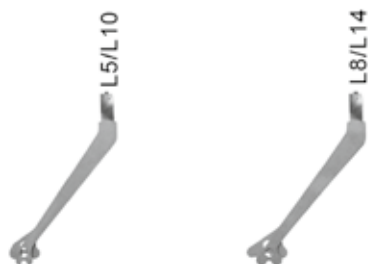
L14 1206832 - EUR

L10 1206830 - EUR

L08 1206831 - EUR

L05 1206829 - EUR

The sensor disks marked with a star (*) are included in the sensor tool scope of delivery.

Sensor disks OW 280/K**L5/L10 ***

Mat.	s	W	α	R (OW)
StSt	≤ 1.0	≤ 8	85 - 110	≤ 1.0
St	≤ 1.5	≤ 10	85 - 110	≤ 1.5
Al	≤ 1.5	≤ 10	85 - 110	≤ 1.5

L8/L14 *

Mat.	s	W	α	R (OW)
StSt	≤ 2.0	≤ 12	85 - 110	≤ 2.0
St	≤ 2.5	≤ 16	85 - 110	≤ 2.5
Al	≤ 2.5	≤ 16	85 - 110	≤ 2.5

For bigger tool radii restricted angle measurements ranges are valid!

Angles of 120°-135° possible, depending on the sensor and application.

Punch



Delivery time: see E-Shop

OW223/K	Radius:	R1,0 mm
	Angle:	86°
	Height:	160 mm
	Mat. No.	Price
VAR. B		
4050	2895262	- EUR
3050	2895261	- EUR
2550	2895260	- EUR
2050	2895259	- EUR
1250	2895258	- EUR
1050	2895257	- EUR
VAR. A		
2050	2895253	- EUR
1250	2895252	- EUR
1050	2895251	- EUR
550	2895180	- EUR
SET 250		
250	2895276	- EUR
SINGLE		
500	2895275	- EUR
300	2895274	- EUR
200	2895273	- EUR
100	2895269	- EUR
Horn left 100	2895277	- EUR
Horn right 100	2895278	- EUR
50	2895268	- EUR
45	2895267	- EUR
40	2895266	- EUR
35	2895265	- EUR
30	2895264	- EUR
25	2895263	- EUR
20	2895272	- EUR
15	2895271	- EUR
10	2895270	- EUR

Lengths in [mm]

Technical data



430 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

34,4 kg/m



~60 HRC

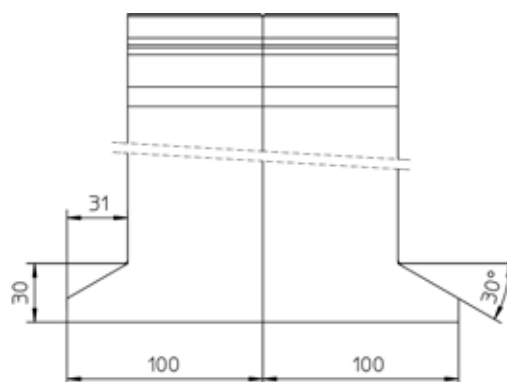


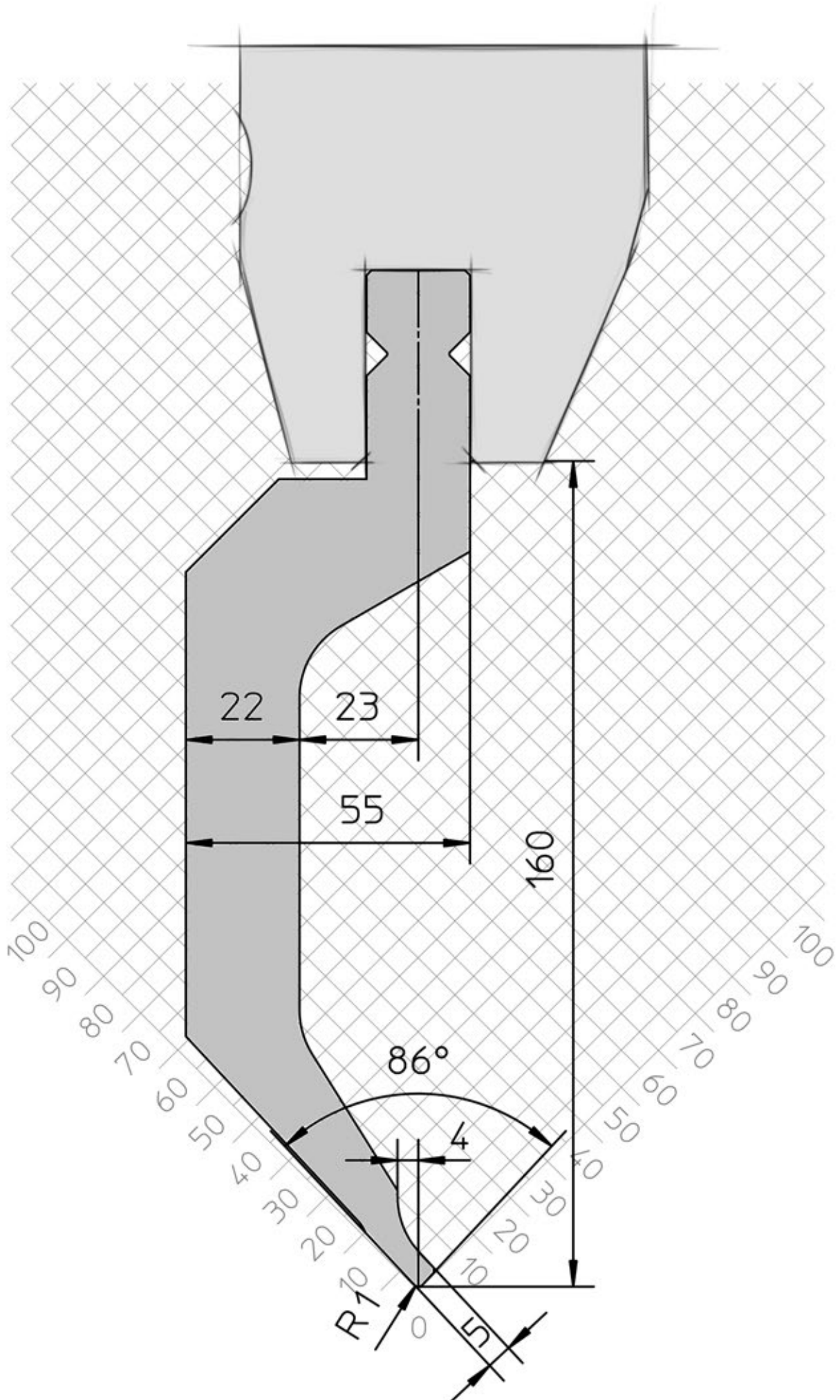
91 mm



10 mm - 300 mm

Horn left / right





Punch



Delivery time: see E-Shop

OW243/K	Radius:	R1,0 mm
	Angle:	86°
	Height:	160 mm
	Mat. No.	Price
VAR. B		
4050	2894421	- EUR
3050	2894420	- EUR
2550	2894419	- EUR
2050	2894418	- EUR
1250	2894417	- EUR
1050	2894416	- EUR
VAR. A		
2050	2894412	- EUR
1250	2894411	- EUR
1050	2894310	- EUR
550	2894309	- EUR
SET 250		
250	2894435	- EUR
SINGLE		
500	2894434	- EUR
300	2894433	- EUR
200	2894432	- EUR
100	2894428	- EUR
Horn left 100	2894436	- EUR
Horn right 100	2894437	- EUR
50	2894427	- EUR
45	2894426	- EUR
40	2894425	- EUR
35	2894424	- EUR
30	2894423	- EUR
25	2894422	- EUR
20	2894431	- EUR
15	2894430	- EUR
10	2894429	- EUR

Lengths in [mm]

Technical data



430 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

43,2 kg/m



~60 HRC

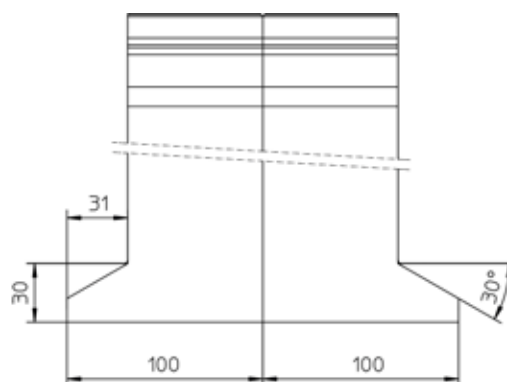


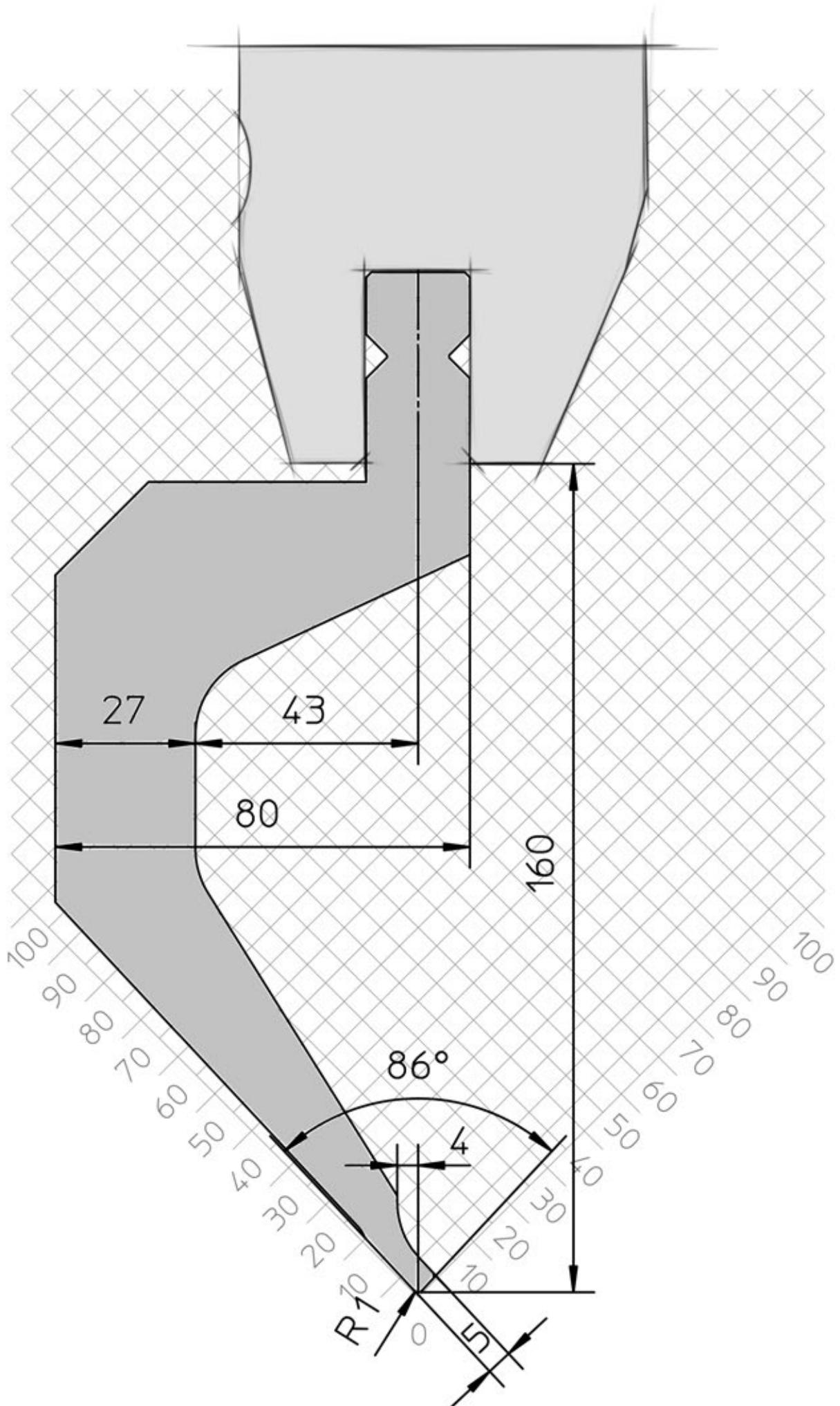
91 mm



10 mm - 300 mm

Horn left / right





Punch



Delivery time: see E-Shop

OW255/K	Radius:	R1,0 mm
	Angle:	55°
	Height:	160 mm
	Mat. No.	Price
VAR. B		
4050	2894974	- EUR
3050	2894973	- EUR
2550	2894972	- EUR
2050	2894971	- EUR
1250	2894960	- EUR
1050	2894959	- EUR
VAR. A		
2050	2894955	- EUR
1250	2894954	- EUR
1050	2894953	- EUR
550	2894952	- EUR
SET 250		
250	2894988	- EUR
SINGLE		
500	2894987	- EUR
300	2894986	- EUR
200	2894985	- EUR
100	2894981	- EUR
Horn left 100	2894989	- EUR
Horn right 100	2894990	- EUR
50	2894980	- EUR
45	2894979	- EUR
40	2894978	- EUR
35	2894977	- EUR
30	2894976	- EUR
25	2894975	- EUR
20	2894984	- EUR
15	2894983	- EUR
10	2894982	- EUR

Lengths in [mm]

Technical data



700 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

34,7 kg/m



~60 HRC

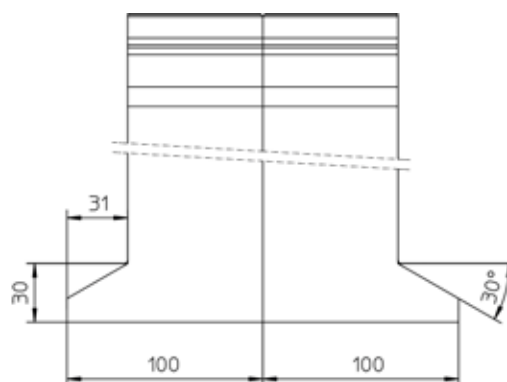


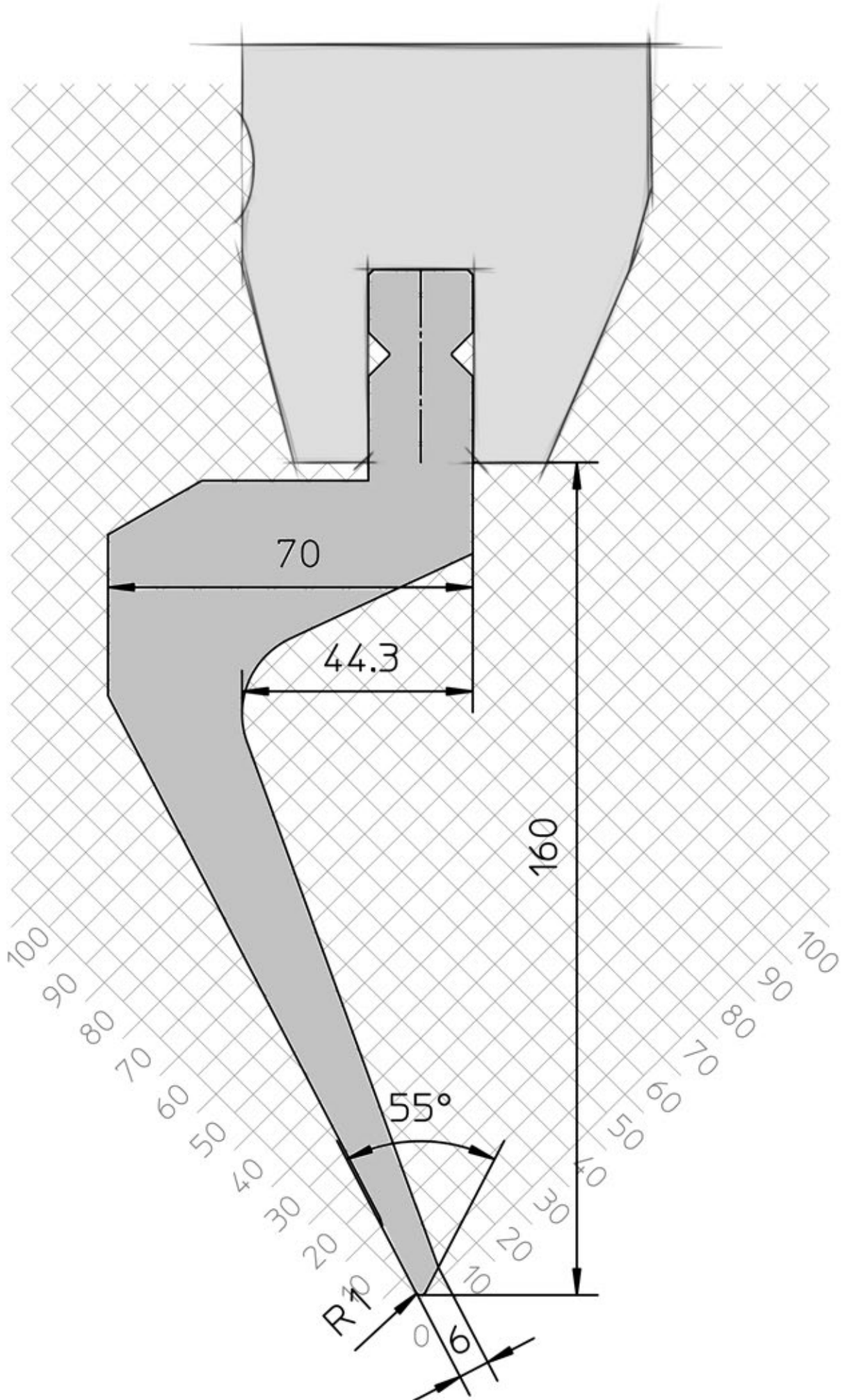
91 mm



10 mm - 300 mm

Horn left / right





Punch



Delivery time: ex warehouse

OW201/K	Radius:	R1,0 mm
	Angle:	86°
	Height:	120 mm
	Mat. No.	Price
VAR. B		
4050	0823918	- EUR
3050	0823917	- EUR
2550	0835179	- EUR
2050	0823916	- EUR
1250	0825685	- EUR
1050	0867269	- EUR
VAR. A		
2050	0823912	- EUR
1250	0825684	- EUR
1050	1576193	- EUR
550	1606659	- EUR
SET 250		
250	0825683	- EUR
SINGLE		
500	0823908	- EUR
300	0823907	- EUR
200	0823905	- EUR
100	0824548	- EUR
Horn left 100	0824542	- EUR
Horn right 100	0824545	- EUR
50	0824539	- EUR
45	0824537	- EUR
40	0824534	- EUR
35	0824531	- EUR
30	0824525	- EUR
25	0824523	- EUR
20	0855800	- EUR
15	0855799	- EUR
10	0855798	- EUR

Lengths in [mm]

Technical data



800 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

24,0 kg/m



~60 HRC

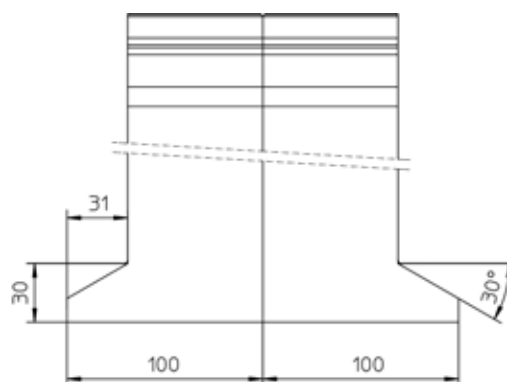


64 mm



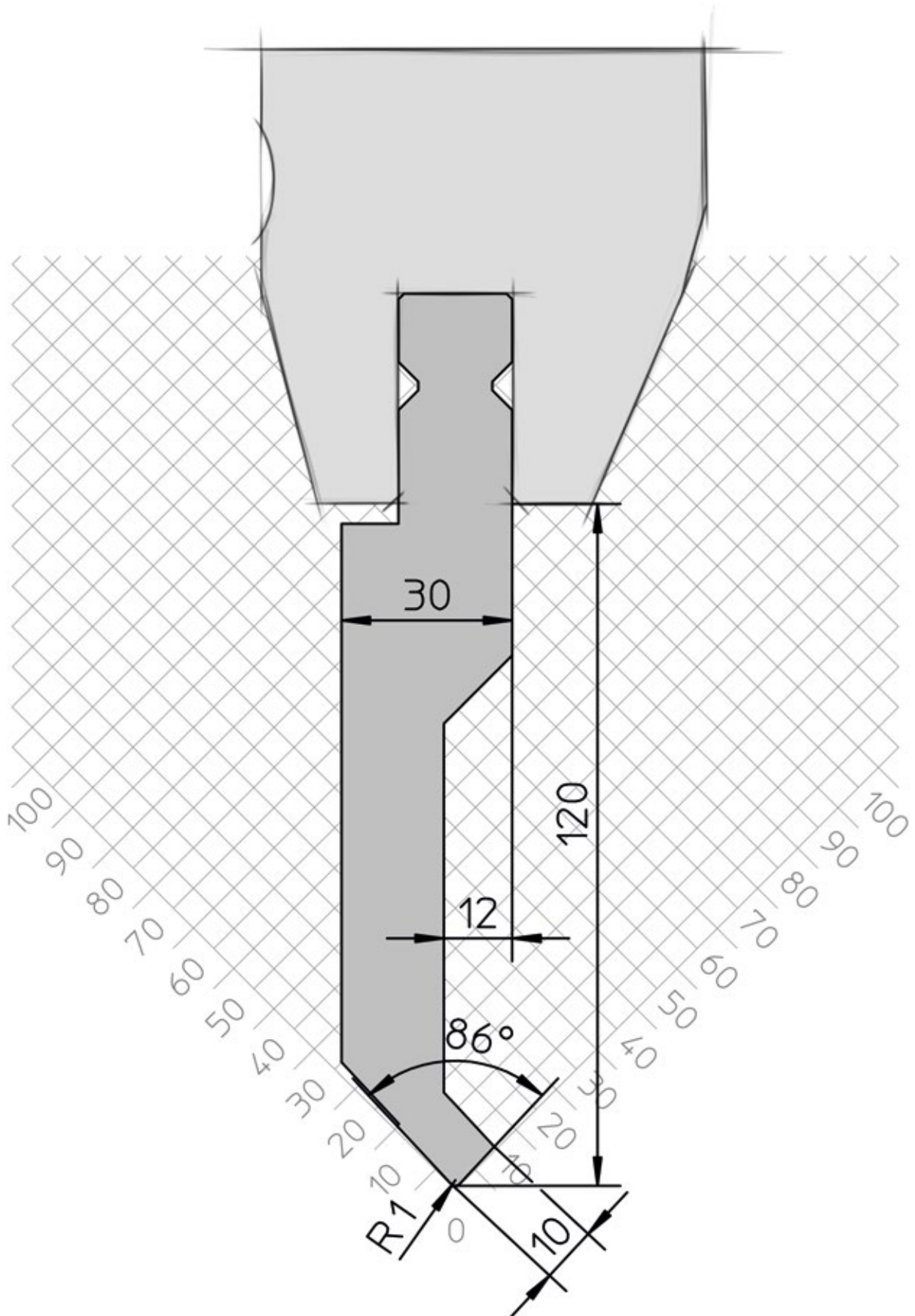
10 mm - 500 mm

Horn left / right

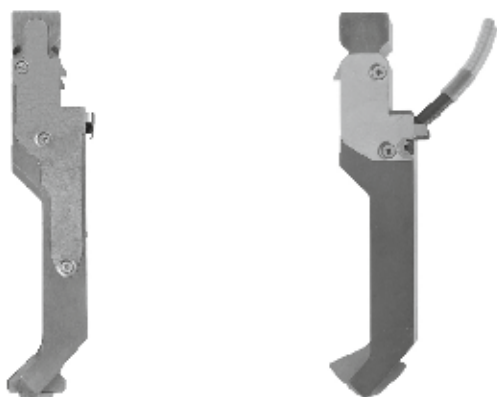


More working radii									Delivery time: 2 weeks
OW201/K	R0,5 86° 119,8	R1,6 86° 119,4	R2 86° 119,2	R2,3 86° 119	R2,5 86° 119	R3 86° 118,8	R3,2 86° 118,6	R4 86° 118,2	Radius Angle Height
	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Price
VAR. B									
4050	0868497	0868656	0826169	0868679	0868688	0868697	0868711	0868719	- EUR
3050	0846122	0839398	0826168	0839402	0859508	0831479	0839406	0859510	- EUR
2550	0868496	0839397	0868660	0839401	0868687	0859662	0839405	0868718	- EUR
2050	0868495	0839396	0826167	0839400	0868686	0850134	0839404	0868717	- EUR
1250	0868494	0839395	0826166	0839399	0868685	0831153	0839403	0848067	- EUR
1050	1871251	1827392	1679400	1871265	1871284	1871313	1871319	1871347	- EUR
VAR. A									
2050	0868490	0868652	0826163	0868675	0868681	0868693	0868707	0868713	- EUR
1250	0868489	0868651	0826162	0868674	0868680	0868692	0868706	0868712	- EUR
1050	1576195	1827391	1871260	1871267	1871283	1871312	1871318	1871346	- EUR
550	1859495	1827360	1871259	1871266	1871282	1751926	1871317	1871345	- EUR
SET 250									
250	0846121	0840090	0826161	0840114	0859507	0831151	0840137	0848066	- EUR
SINGLE									
500	0846113	0840077	0826150	0840100	0845638	0831139	0840124	0848055	- EUR
300	0846112	0840076	0826149	0840099	0859493	0831138	0840123	0848054	- EUR
200	0846111	0840075	0826148	0840098	0859492	0831137	0840122	0834059	- EUR
100	0831586	0840086	0826159	0840112	0845639	0831148	0840135	0834061	- EUR
Horn left 100	0846118	0840087	0826157	0840103	0859504	0831149	0840127	0848063	- EUR
Horn right 100	0846119	0840088	0826158	0840104	0859505	0831150	0840128	0848064	- EUR
50	0846110	0840085	0826156	0840111	0859499	0831147	0840134	0834060	- EUR
45	0846109	0840084	0826155	0840109	0859498	0831146	0840133	0848060	- EUR
40	0846108	0840083	0826154	0840108	0859497	0831145	0840132	0848059	- EUR
35	0846107	0840082	0826153	0840107	0859496	0831144	0840131	0848058	- EUR
30	0846106	0840081	0826152	0840106	0859495	0831143	0840130	0848057	- EUR
25	0846105	0840080	0826151	0840105	0859494	0831142	0840129	0848056	- EUR
20	1739016	1827395	1865852	1871270	1871287	1871316	1871342	1871350	- EUR
15	1739015	1827394	1865851	1871269	1871286	1871315	1871341	1871349	- EUR
10	1739014	1827393	1865830	1871268	1871285	1871314	1871320	1871348	- EUR

Lengths, radius and height in [mm]



Sensor tool

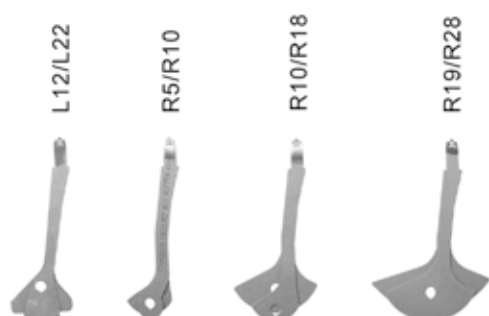


Delivery time: ex warehouse

ACB OW201/K	Radius:	R1,0 mm
	Angle:	86°
	Height:	120 mm
	Mat. No.	Price
ACB		
Sensor tool 25	0902755	- EUR
Initial equipment 2.G	1273590	- EUR
ACB Wireless		
Sensor tool 25	2040404	- EUR
Initial equipment	2040989	- EUR
Sensor disk		
L22	0912271	- EUR
L12	0912270	- EUR
R28	0907795	- EUR
R19	0907796	- EUR
R18	0907792	- EUR
R10	0907793	- EUR
R05	0907794	- EUR

The sensor disks marked with a star (*) are included in the sensor tool scope of delivery.

Sensor disks OW 201/K



R5/R10 *				
Mat.	s	W	α	R (OW)
StSt	≤ 2.5	≤ 16	90 - 95	≤ 2
St	≤ 2.5	≤ 16	90 - 105	≤ 2
Al	≤ 2.5	≤ 16	90 - 105	≤ 2
R10/R18 *				
Mat.	s	W	α	R (OW)
StSt	≤ 3.0	≤ 20	90 - 100	≤ 4
St	≤ 4.0	≤ 24	90 - 105	≤ 4
Al	≤ 4.0	≤ 24	90 - 105	≤ 4
R19/R28				
Mat.	s	W	α	R (OW)
StSt	≤ 6.0	≤ 50	90 - 95	≤ 6
St	≤ 10.0	≤ 70	90 - 100	≤ 6
Al	≤ 8.0	≤ 70	90 - 100	≤ 6
L12/L22				
Mat.	s	W	α	R (OW)
StSt	≤ 2.5	≤ 16	105 - 135	≤ 3
St	≤ 2.5	≤ 16	105 - 135	≤ 3
Al	≤ 2.5	≤ 16	105 - 135	≤ 3

For bigger tool radii restricted angle measurements ranges are valid!
Angles of 120°-135° possible, depending on the sensor and application.

Punch



Delivery time: ex warehouse

OW202/K	Radius:	R1,0 mm
	Angle:	28°
	Height:	120 mm
	Mat. No.	Price
VAR. B		
4050	0823827	- EUR
3050	0823826	- EUR
2550	0835183	- EUR
2050	0823825	- EUR
1250	0825705	- EUR
1050	0867272	- EUR
VAR. A		
2050	0823822	- EUR
1250	0825704	- EUR
1050	1579145	- EUR
550	1606730	- EUR
SET 250		
250	0825658	- EUR
SINGLE		
500	0823820	- EUR
300	0823819	- EUR
200	0823818	- EUR
100	0824603	- EUR
Horn left 100	0824599	- EUR
Horn right 100	0824601	- EUR
50	0824598	- EUR
45	0824597	- EUR
40	0824596	- EUR
35	0824595	- EUR
30	0824594	- EUR
25	0824593	- EUR
20	0827316	- EUR
15	0838227	- EUR
10	0838228	- EUR

Lengths in [mm]

Technical data



600 kN/m



800 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

19,5 kg/m



~60 HRC

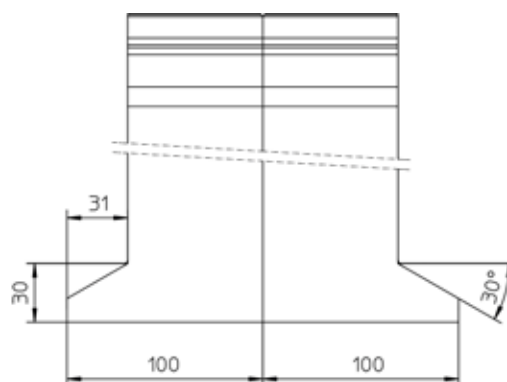


64 mm



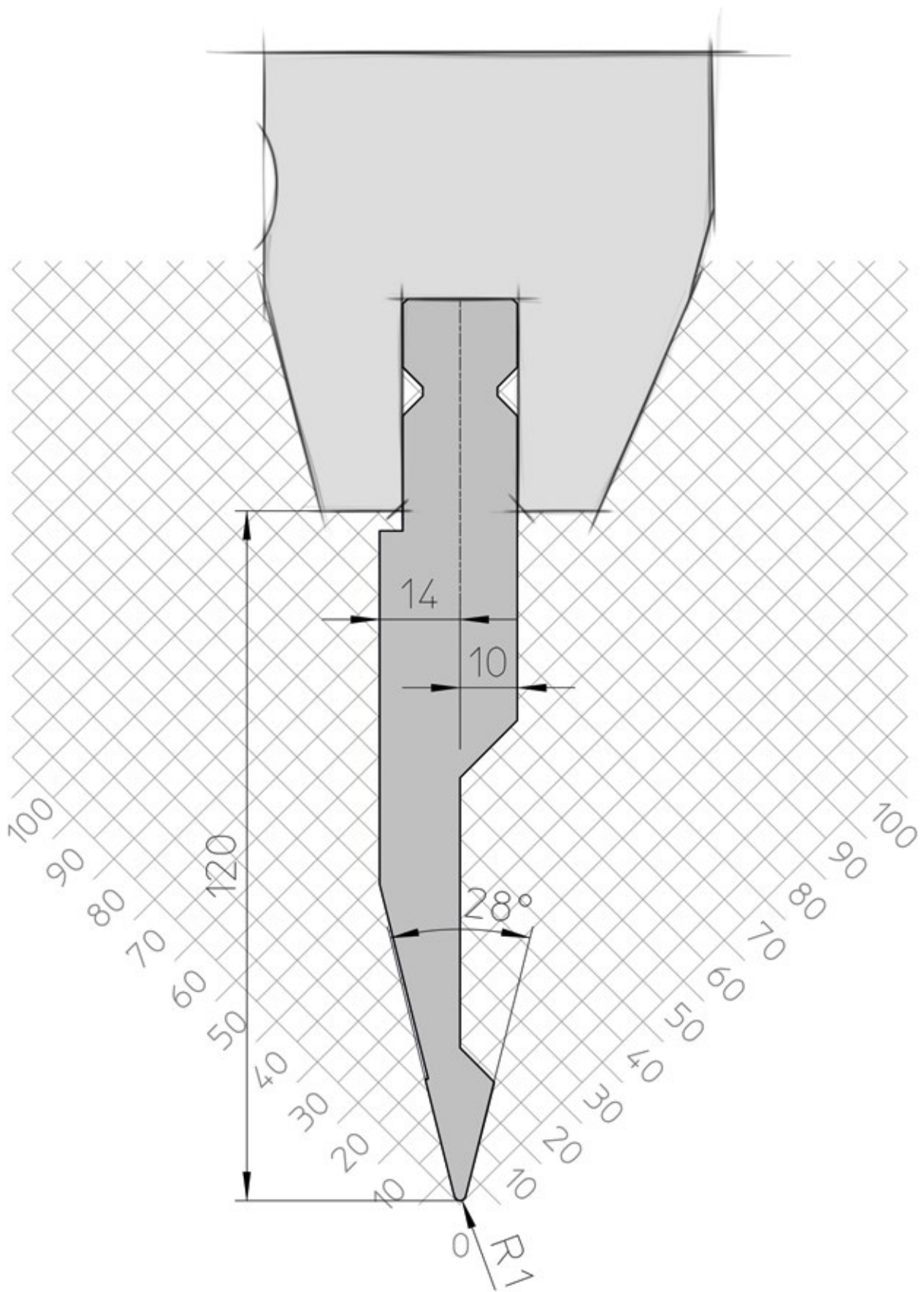
10 mm - 500 mm

Horn left / right

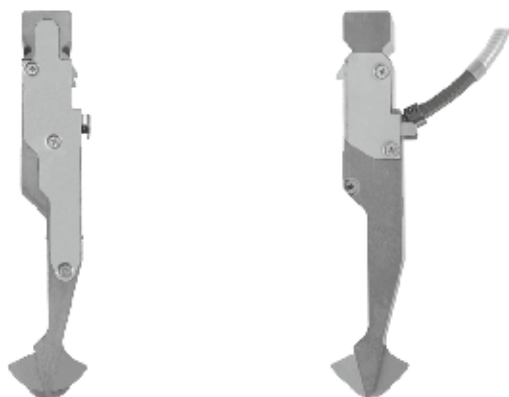


More working radii									Delivery time: 2 weeks
OW202/K	R0,5 28° 119,8	R1,6 28° 117,2	R2 28° 116	R2,3 28° 115,1	R2,5 28° 114,4	R3 28° 112,8	R3,2 28° 112,7	R4 28° 109,8	Radius Angle Height
	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Price
VAR. B									
4050	0868521	0868551	0868558	0868564	0868631	0868639	0868644	0868650	- EUR
3050	0829264	0839414	0848038	0839392	0859511	0868638	0839389	0840414	- EUR
2550	0868520	0839413	0868557	0837579	0856001	0868637	0837580	0856002	- EUR
2050	0866975	0839412	0848443	0839393	0827267	0832092	0839390	0842426	- EUR
1250	0839904	0839411	0841286	0839394	0831538	0850922	0839391	0848582	- EUR
1050	1648152	1593248	1673024	1777766	1593265	1624505	1871627	1593283	- EUR
VAR. A									
2050	0868516	0868547	0868553	0868560	0868627	0868633	0868640	0868646	- EUR
1250	0868515	0868546	0868552	0868559	0868626	0868632	0840008	0868645	- EUR
1050	1648151	1871508	1871592	1871597	1726409	1854721	1871626	1871630	- EUR
550	1648150	1871506	1651654	1871596	1863825	1672865	1651656	1651657	- EUR
SET 250									
250	0829262	0840067	0841285	0837836	0827266	0832091	0837892	0840413	- EUR
SINGLE									
500	0829249	0840054	0841274	0837823	0827253	0832078	0837879	0840400	- EUR
300	0829248	0840053	0841273	0837822	0827252	0832077	0837878	0840399	- EUR
200	0829247	0840052	0841272	0837821	0827251	0832076	0837877	0840398	- EUR
100	0829259	0840061	0841283	0837830	0827262	0832085	0837886	0840401	- EUR
Horn left 100	0829257	0840064	0841281	0837833	0827263	0832088	0837889	0840410	- EUR
Horn right 100	0829258	0840065	0841282	0837834	0827264	0832089	0837890	0840411	- EUR
50	0829256	0840060	0841280	0837829	0827261	0832084	0837885	0840407	- EUR
45	0829255	0840059	0841279	0837828	0827260	0832083	0837884	0840406	- EUR
40	0829254	0840058	0841278	0837827	0827259	0832082	0837883	0840405	- EUR
35	0829253	0840057	0841277	0837826	0827258	0832081	0837882	0840404	- EUR
30	0829252	0840056	0841276	0837825	0827257	0832080	0837881	0840403	- EUR
25	0829251	0840055	0841275	0837824	0827256	0832079	0837880	0840402	- EUR
20	1307813	1389671	0863282	1871595	1871621	0853722	1871625	1809416	- EUR
15	1307811	1389655	1809375	1871594	1871600	0853721	1871624	1809415	- EUR
10	0865760	1389652	1809374	1871593	1871599	0853720	1871623	1809414	- EUR

Lengths, radius and height in [mm]



Sensor tool



Delivery time: ex warehouse

**ACB
OW202/K**

Radius:	R1,0 mm
Angle:	28°
Height:	120 mm
Mat. No.	Price

ACB

Sensor tool 25	0902757	- EUR
Initial equipment 2.G	1273592	- EUR

ACB Wireless

Sensor tool 25	1837174	- EUR
Initial equipment	2040986	- EUR

Sensor disk

L22	0912273	- EUR
L12	0912272	- EUR
R28	0902668	- EUR
R19	0904178	- EUR
R18	0901129	- EUR
R10	0901130	- EUR
R05	0902438	- EUR

The sensor disks marked with a star (*) are included in the sensor tool scope of delivery.

Sensor disks OW 202/K**R5/R10 ***

Mat.	s	W	α	R (OW)
StSt	≤ 2.5	≤ 16	75 - 95	≤ 2
St	≤ 2.5	≤ 16	75 - 105	≤ 2
Al	≤ 2.5	≤ 16	75 - 105	≤ 2

R10/R18 *

Mat.	s	W	α	R (OW)
StSt	≤ 3.0	≤ 20	80 - 100	≤ 4
St	≤ 4.0	≤ 24	80 - 105	≤ 4
Al	≤ 4.0	≤ 24	80 - 105	≤ 4

R19/R28

Mat.	s	W	α	R (OW)
StSt	≤ 6.0	≤ 50	85 - 95	≤ 6
St	≤ 10.0	≤ 70	85 - 100	≤ 6
Al	≤ 8.0	≤ 70	85 - 100	≤ 6

L12/L22

Mat.	s	W	α	R (OW)
StSt	≤ 2.5	≤ 16	105 - 135	≤ 3
St	≤ 2.5	≤ 16	105 - 135	≤ 3
Al	≤ 2.5	≤ 16	105 - 135	≤ 3

For bigger tool radii restricted angle measurements ranges are valid!

Angles of 120°-135° possible, depending on the sensor and application.

Punch



Delivery time: see E-Shop

OW222/K	Radius:	R1,0 mm
	Angle:	20°
	Height:	166 mm
	Mat. No.	Price
VAR. B		
4050	2895441	- EUR
3050	2895440	- EUR
2550	2895439	- EUR
2050	2895438	- EUR
1250	2895437	- EUR
1050	2895436	- EUR
VAR. A		
2050	2895432	- EUR
1250	2895431	- EUR
1050	2895350	- EUR
550	2895349	- EUR
SET 250		
250	2895455	- EUR
SINGLE		
500	2895454	- EUR
300	2895453	- EUR
200	2895452	- EUR
100	2895448	- EUR
Horn left 100	2895456	- EUR
Horn right 100	2895457	- EUR
50	2895447	- EUR
45	2895446	- EUR
40	2895445	- EUR
35	2895444	- EUR
30	2895443	- EUR
25	2895442	- EUR
20	2895451	- EUR
15	2895450	- EUR
10	2895449	- EUR

Lengths in [mm]

Technical data



600 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

22,9 kg/m



~60 HRC

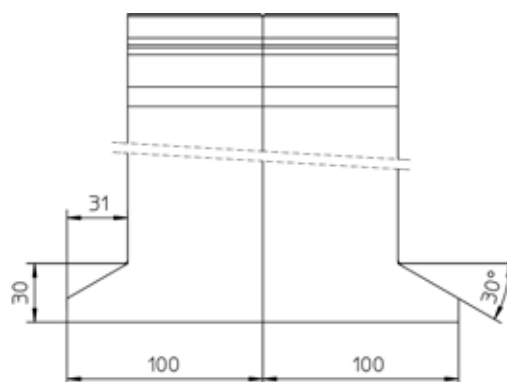


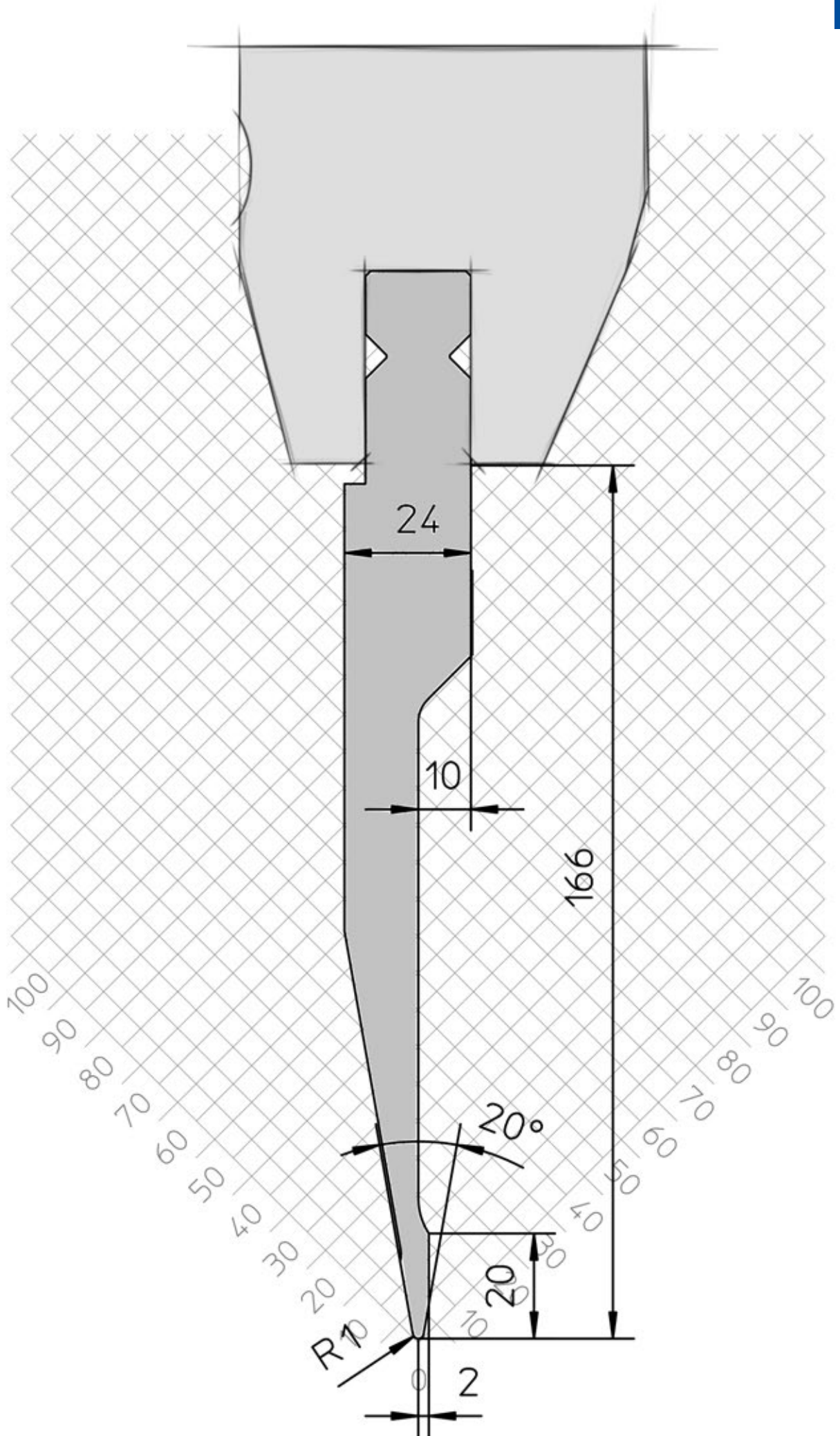
95 mm



10 mm - 500 mm

Horn left / right





Punch



Delivery time: see E-Shop

OW282/K	Radius:	R1,0 mm
	Angle:	28°
	Height:	166 mm
	Mat. No.	Price
VAR. B		
4050	2894644	- EUR
3050	2894643	- EUR
2550	2894642	- EUR
2050	2894641	- EUR
1250	2894640	- EUR
1050	2894639	- EUR
VAR. A		
2050	2894635	- EUR
1250	2894634	- EUR
1050	2894633	- EUR
550	2894632	- EUR
SET 250		
250	2894658	- EUR
SINGLE		
500	2894657	- EUR
300	2894656	- EUR
200	2894655	- EUR
100	2894651	- EUR
Horn left 100	2894659	- EUR
Horn right 100	2894660	- EUR
50	2894650	- EUR
45	2894649	- EUR
40	2894648	- EUR
35	2894647	- EUR
30	2894646	- EUR
25	2894645	- EUR
20	2894654	- EUR
15	2894653	- EUR
10	2894652	- EUR

Lengths in [mm]

Technical data



600 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

16,6 kg/m



~60 HRC

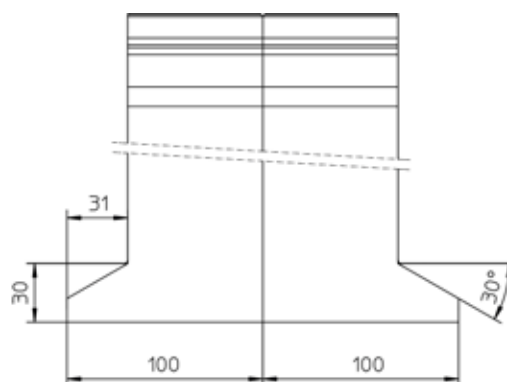


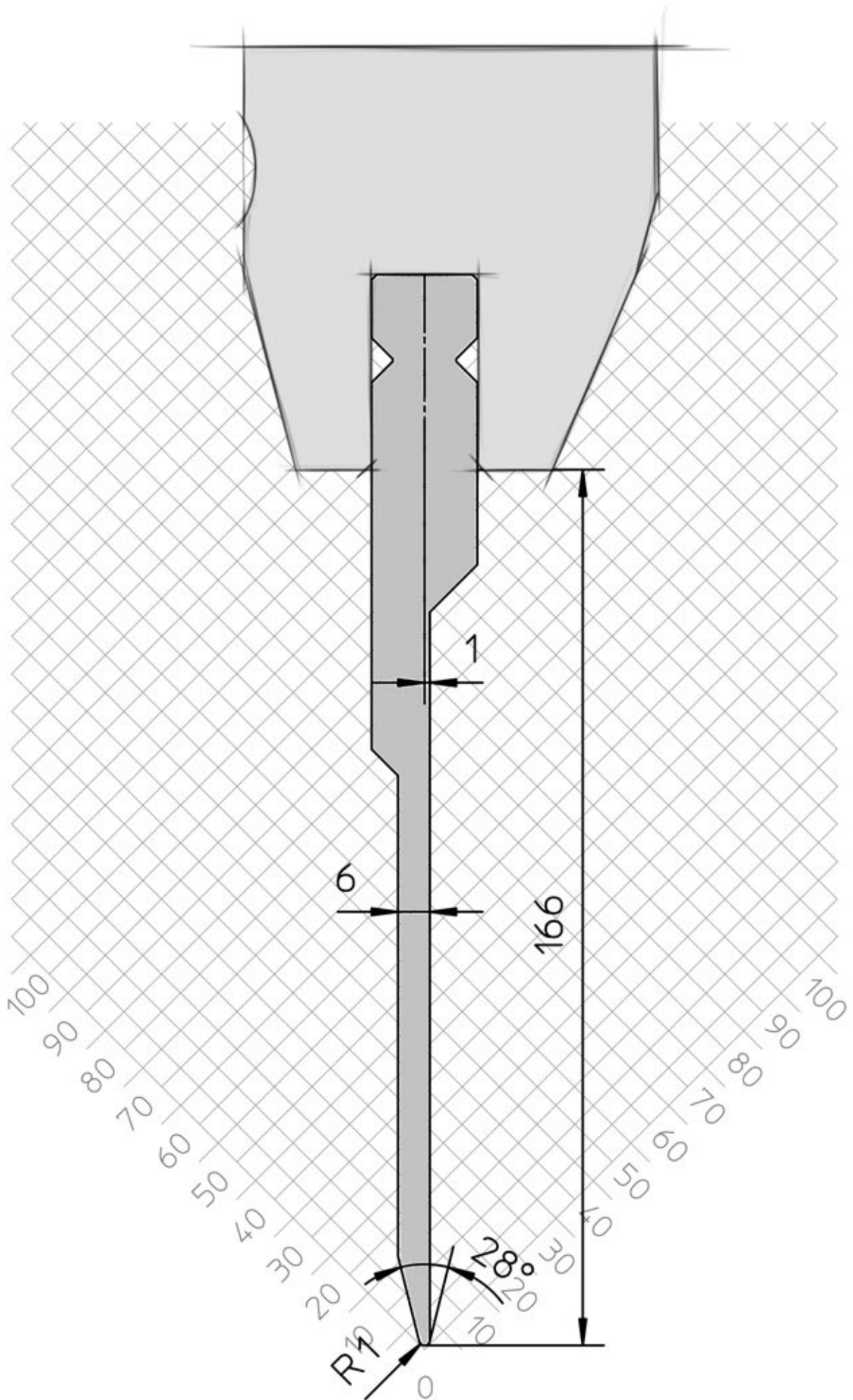
95 mm



10 mm - 500 mm

Horn left / right





Punch



Delivery time: ex warehouse

OW203/K	Radius:	R4,0 mm
	Angle:	60°
	Height:	120 mm
	Mat. No.	Price
VAR. B		
4050	0825385	- EUR
3050	0825384	- EUR
2550	0835187	- EUR
2050	0825383	- EUR
1250	0825711	- EUR
1050	0867273	- EUR
VAR. A		
2050	0825380	- EUR
1250	0825710	- EUR
1050	1606787	- EUR
550	1606786	- EUR
SET 250		
250	0825709	- EUR
SINGLE		
500	0825378	- EUR
300	0825377	- EUR
200	0825376	- EUR
100	0825394	- EUR
Horn left 100	0825392	- EUR
Horn right 100	0825393	- EUR
50	0825391	- EUR
45	0825390	- EUR
40	0825389	- EUR
35	0825388	- EUR
30	0825387	- EUR
25	0825386	- EUR
20	1247241	- EUR
15	1465780	- EUR
10	1465757	- EUR

Lengths in [mm]

Technical data



1800 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

23,8 kg/m



~60 HRC

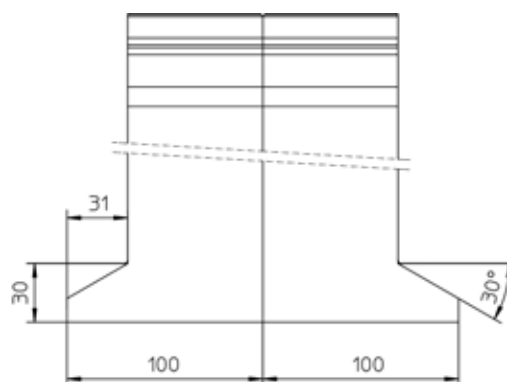


64 mm



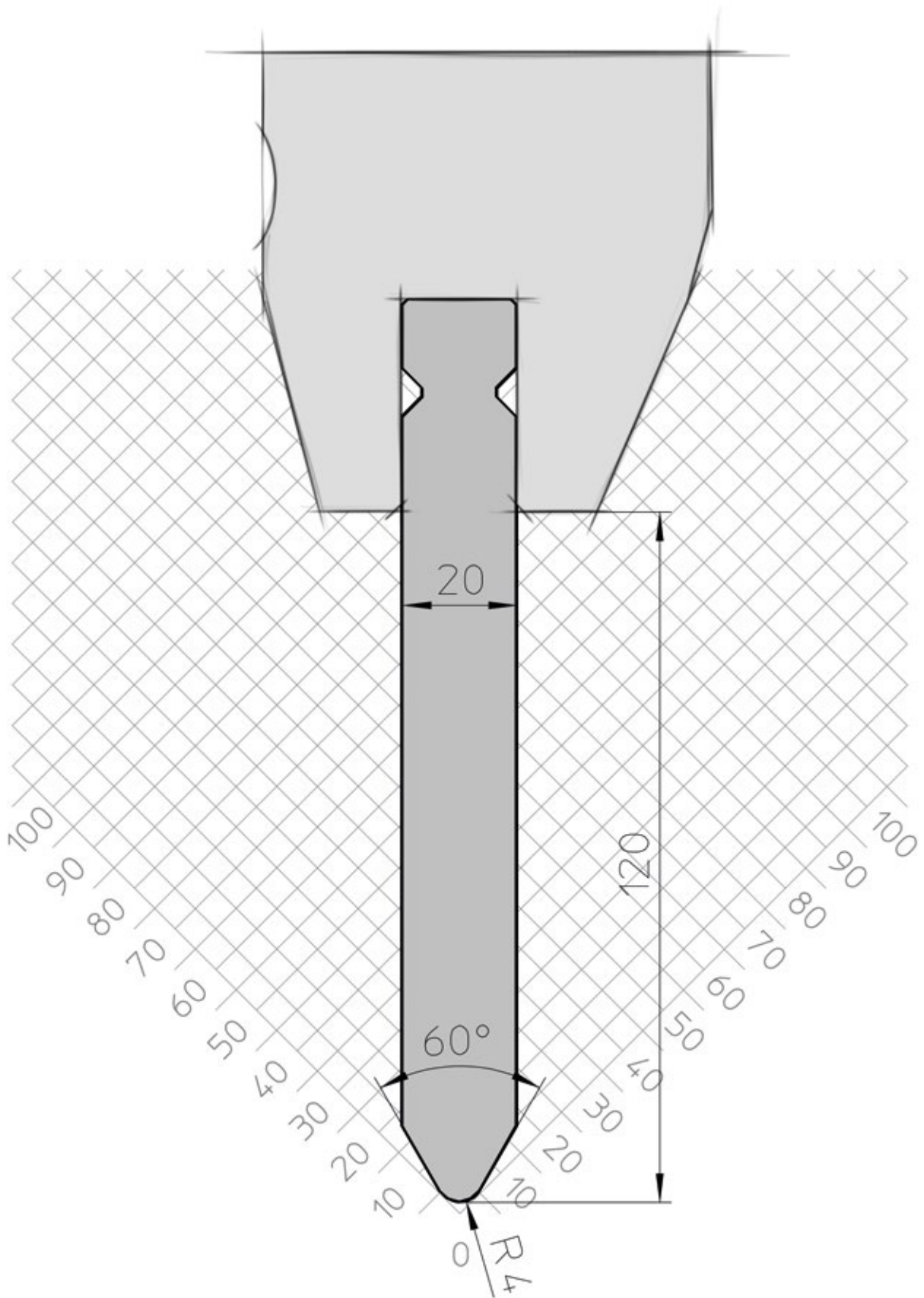
10 mm - 500 mm

Horn left / right

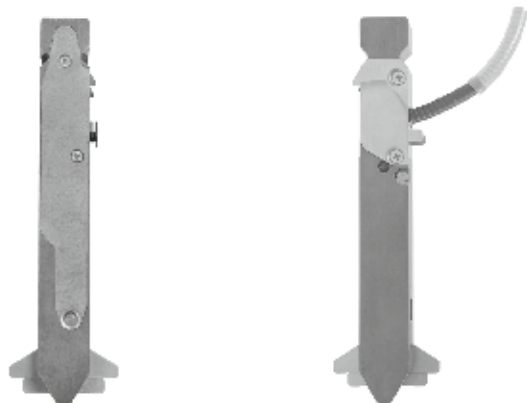


More working radii										Delivery time: 2 weeks
OW203/K	R2 60° 119,8 Mat. No.	R2,5 60° 119,8 Mat. No.	R3 60° 119,8 Mat. No.	R4,7 60° 119,1 Mat. No.	R5 60° 118,8 Mat. No.	R6 60° 117,6 Mat. No.	R6,35 60° 117,2 Mat. No.	R8 60° 120 Mat. No.	R10 10° 120 Mat. No.	Radius Angle Height Price
VAR. B										
4050	0868931	0868937	0869041	0853703	0869057	0826203	0845500	1325283	1867943	- EUR
3050	0868930	0854737	0847913	0869048	0862440	0826202	0865305	0837201	1358925	- EUR
2550	0868929	0855748	0869040	0837582	0869056	0847142	0852372	0849425	1445059	- EUR
2050	0867449	0865844	0840544	0869047	0855020	0826201	0842342	0841596	1207083	- EUR
1250	0842337	0846233	0839343	0858961	0864668	0826200	0869064	0831201	1246653	- EUR
1050	1657208	1871654	1699901	1871661	1701319	1727938	1835008	1737265	1667217	- EUR
VAR. A										
2050	0868925	0868933	0869036	0869043	0869052	0826197	0869060	2048330	2047825	- EUR
1250	0868924	0868932	0859049	0869042	0869051	0826196	0869059	0863783	2047824	- EUR
1050	1871653	1871656	1699900	1871663	1871665	1871668	1871669	2048329	2047823	- EUR
550	1871652	1871655	1699899	1871662	1871664	1772708	1651709	1773012	2047822	- EUR
SET 250										
250	0842336	0846234	0839357	0837915	0855019	0826195	0842515	0831193	0993996	- EUR
SINGLE										
500	0842322	0846225	0839349	0837902	0850704	0826182	0842504	0831180	0866627	- EUR
300	0842321	0846224	0839348	0837901	0855007	0826181	0842503	0831179	0994030	- EUR
200	0842320	0846223	0839347	0837900	0855006	0826180	0842502	0831178	0872099	- EUR
100	0842323	0839863	0830319	0837909	0850705	0826193	0842512	0831187	0852371	- EUR
Horn left 100	0842333	0846238	0839354	0837912	0855016	0826191	0842513	0831190	1206989	- EUR
Horn right 100	0842334	0846239	0839355	0837913	0855017	0826192	0842514	0831191	1207080	- EUR
50	0842329	0846231	0830990	0837908	0855013	0826190	0842511	0831186	0866628	- EUR
45	0842328	0846230	0839351	0837907	0855012	0826188	0842510	0831185	0993994	- EUR
40	0842327	0846229	0830989	0837906	0855011	0826187	0842509	0831184	0993993	- EUR
35	0842326	0846228	0830988	0837905	0855010	0826186	0842508	0831183	0993992	- EUR
30	0842325	0846227	0830987	0837904	0855009	0826184	0842507	0831182	0993991	- EUR
25	0842324	0846226	0839350	0837903	0855008	0826183	0842506	0831181	0993990	- EUR
20	1980615	1969911	0872719	1980715	1980718	1980733	1980740	2048328	2047821	- EUR
15	1455102	1969840	0872718	1980714	1980717	1980732	1980739	2048327	2047760	- EUR
10	1980614	1969839	0872717	1980713	1980716	1980731	1980737	2048326	2047759	- EUR

Lengths, radius and height in [mm]



Sensor tool



Delivery time: ex warehouse

ACB OW203/K

Radius:	R4,0 mm
Angle:	60°
Height:	120 mm
Mat. No.	Price

ACB

Sensor tool 25	0902759	- EUR
Initial equipment 2.G	1273594	- EUR

ACB Wireless

Sensor tool 25	1858869	- EUR
Initial equipment	2040985	- EUR

Sensor disk

L43	0908872	- EUR
L32	0908873	- EUR
L27	0919840	- EUR
L18	0919842	- EUR

The sensor disks marked with a star (*) are included in the sensor tool scope of delivery.

Sensor disks OW 203/K



L18/L27 *

Mat.	s	W	α	R (OW)
StSt	≤ 4.0	≤ 24	85 - 105	≤ 4
St	≤ 4.0	≤ 24	85 - 105	≤ 4
Al	≤ 4.0	≤ 24	85 - 105	≤ 4

L32/L43 *

Mat.	s	W	α	R (OW)
StSt	≤ 6.0	≤ 40	85 - 95	≤ 6
St	≤ 10.0	≤ 70	85 - 95	≤ 6
Al	≤ 10.0	≤ 70	85 - 95	≤ 6

For bigger tool radii restricted angle measurements ranges are valid!
Angles of 120°-135° possible, depending on the sensor and application.

Punch



Delivery time: ex warehouse

OW204/K	Radius:	R1,0 mm
	Angle:	86°
	Height:	120 mm
	Mat. No.	Price
VAR. B		
4050	1751096	- EUR
3050	1751094	- EUR
2550	1751092	- EUR
2050	1751090	- EUR
1250	1751088	- EUR
1050	1751086	- EUR
VAR. A		
2050	1751089	- EUR
1250	1751087	- EUR
1050	1751085	- EUR
550	1751084	- EUR
SET 250		
250	1751081	- EUR
SINGLE		
500	1751083	- EUR
300	1751082	- EUR
200	1751080	- EUR
100	1751077	- EUR
Horn left 100	1751078	- EUR
Horn right 100	1751079	- EUR
50	1751076	- EUR
45	1751075	- EUR
40	1751074	- EUR
35	1751073	- EUR
30	1751072	- EUR
25	1751071	- EUR
20	1751030	- EUR
15	1751029	- EUR
10	1751028	- EUR

Lengths in [mm]

Technical data



400 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

19,8 kg/m



~60 HRC

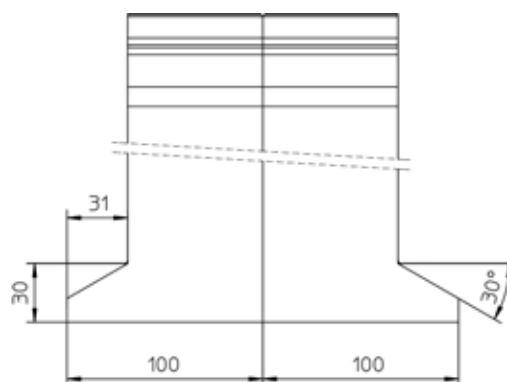


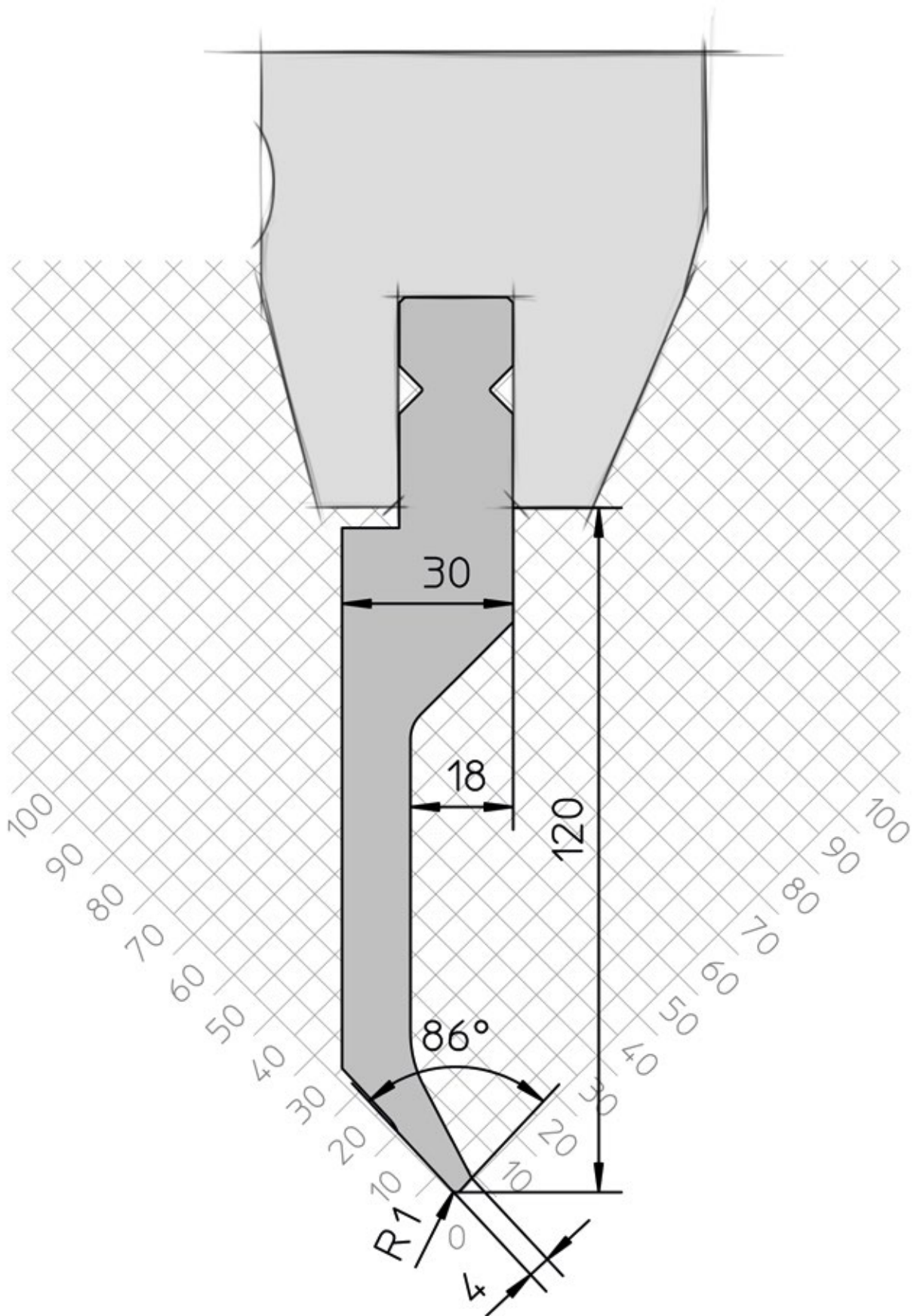
64 mm



10 mm - 500 mm

Horn left / right





Punch



Delivery time: see E-Shop

OW244/K	Radius:	R1,0 mm
	Angle:	86°
	Height:	160 mm
	Mat. No.	Price
VAR. B		
4050	2894769	- EUR
3050	2894768	- EUR
2550	2894767	- EUR
2050	2894766	- EUR
1250	2894765	- EUR
1050	2894764	- EUR
VAR. A		
2050	2894710	- EUR
1250	2894709	- EUR
1050	2894708	- EUR
550	2894707	- EUR
SET 250		
250	2894783	- EUR
SINGLE		
500	2894782	- EUR
300	2894781	- EUR
200	2894780	- EUR
100	2894776	- EUR
Horn left 100	2894784	- EUR
Horn right 100	2894785	- EUR
50	2894775	- EUR
45	2894774	- EUR
40	2894773	- EUR
35	2894772	- EUR
30	2894771	- EUR
25	2894770	- EUR
20	2894779	- EUR
15	2894778	- EUR
10	2894777	- EUR

Lengths in [mm]

Technical data



500 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

20,6 kg/m



~60 HRC

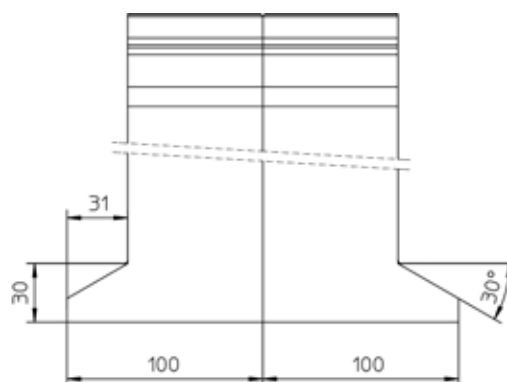


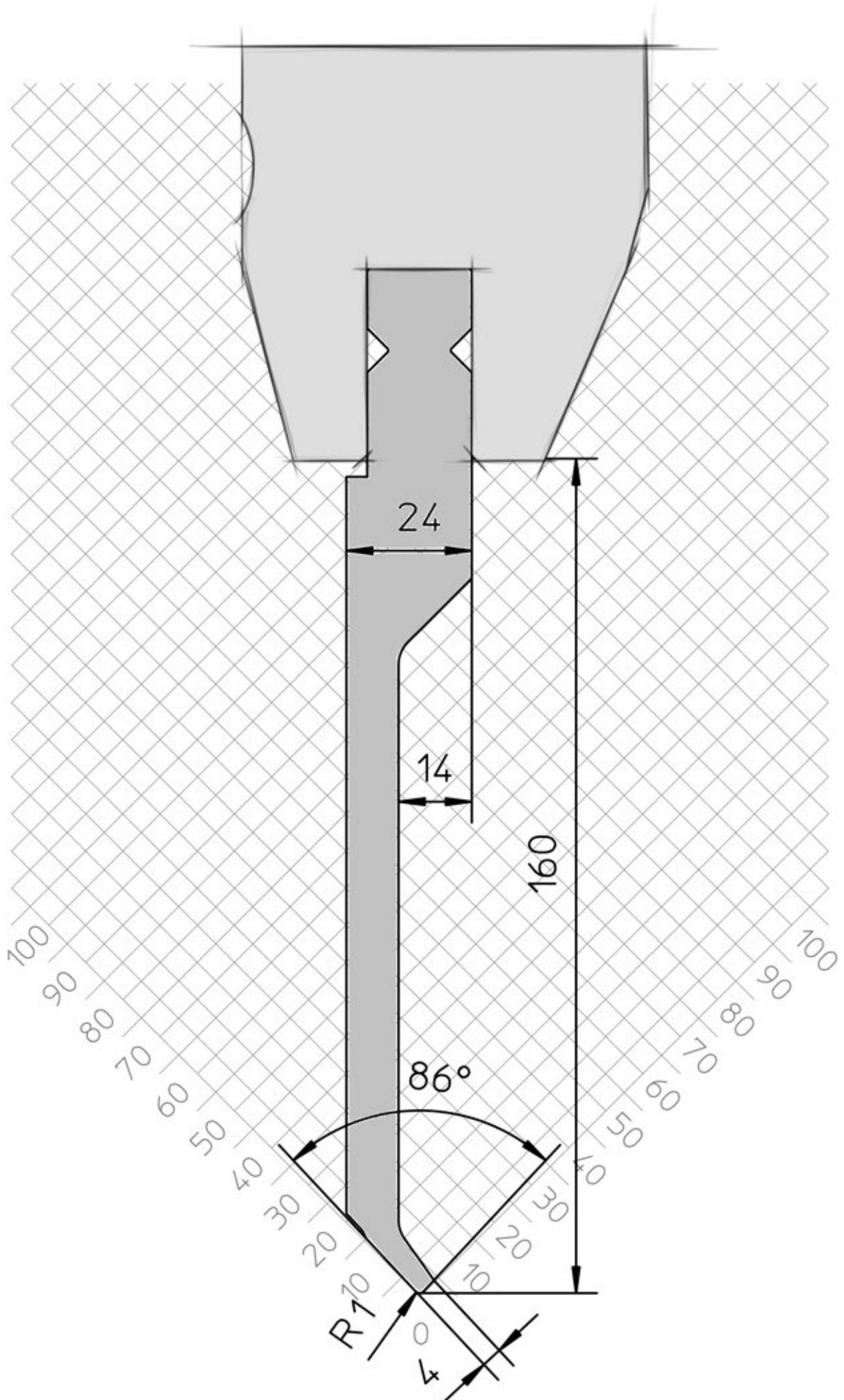
91 mm



10 mm - 500 mm

Horn left / right





Punch



Delivery time: ex warehouse

OW210/S	Radius:	R1,0 mm
	Angle:	28°
	Height:	140 mm
	Mat. No.	Price
VAR. B		
4050	0824010	- EUR
3050	0824008	- EUR
2550	0835193	- EUR
2050	0824006	- EUR
1250	0825720	- EUR
1050	0867279	- EUR
VAR. A		
2050	0824000	- EUR
1250	0825719	- EUR
1050	1576244	- EUR
550	1607489	- EUR
SET 250		
250	0825717	- EUR
SINGLE		
500	0823995	- EUR
300	0823993	- EUR
200	0823991	- EUR
100	0824653	- EUR
Horn left 100	0824651	- EUR
Horn right 100	0824652	- EUR
50	0824650	- EUR
45	0824649	- EUR
40	0824648	- EUR
35	0824647	- EUR
30	0824646	- EUR
25	0824641	- EUR
20	0836712	- EUR
15	0836711	- EUR
10	0836710	- EUR

Lengths in [mm]

Technical data



400 kN/m



1300 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

28,7 kg/m



~60 HRC

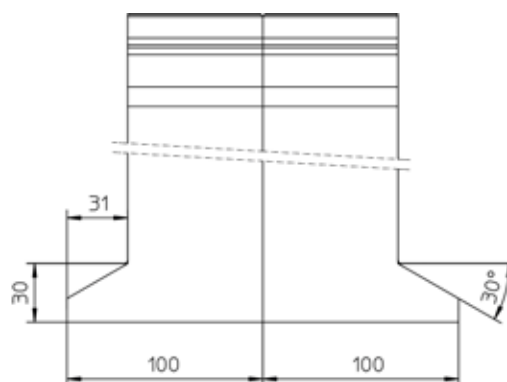


78 mm



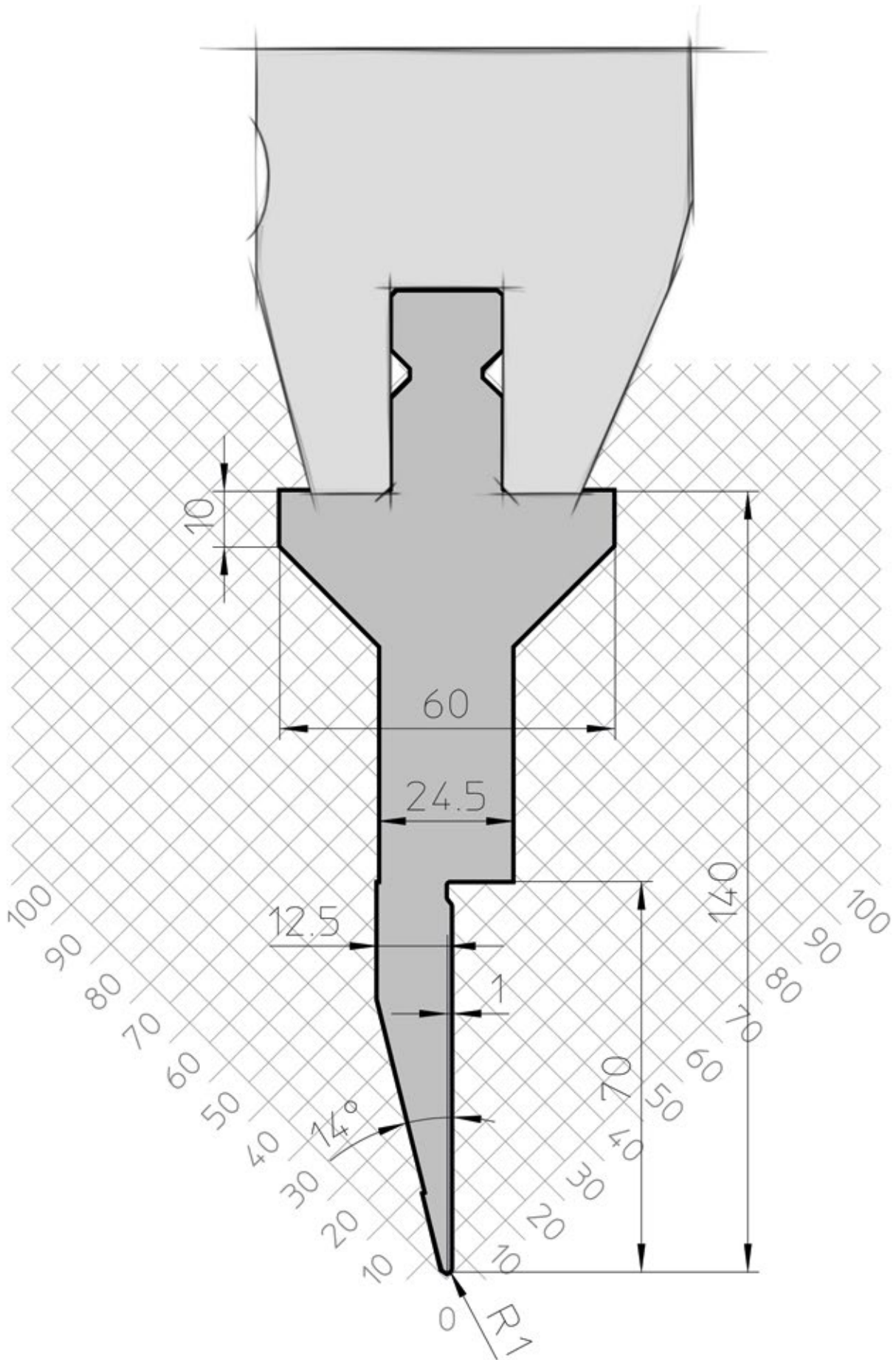
25 mm - 300 mm

Horn left / right

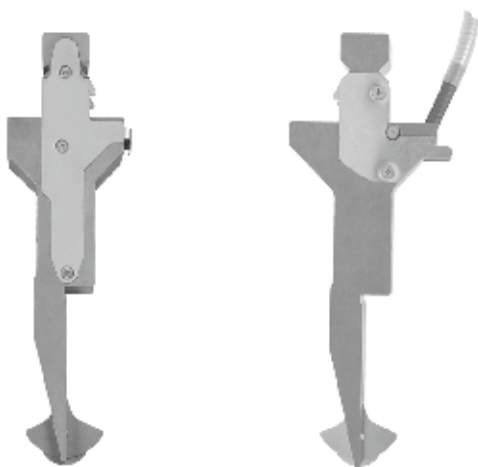


More working radii			Delivery time: 2 weeks
OW210/S	R0,5		Radius
	28°		Angle
	139,8		Height
	Mat. No.	Price	
VAR. B			
4050	0869246	- EUR	
3050	0869245	- EUR	
2550	0869244	- EUR	
2050	0833957	- EUR	
1250	0853694	- EUR	
1050	1674937	- EUR	
VAR. A			
2050	0863333	- EUR	
1250	0869240	- EUR	
1050	1576245	- EUR	
550	1727645	- EUR	
SET 250			
250	0833991	- EUR	
SINGLE			
500	0833978	- EUR	
300	0833977	- EUR	
200	0833976	- EUR	
100	0833985	- EUR	
Horn left 100	0833988	- EUR	
Horn right 100	0833989	- EUR	
50	0833984	- EUR	
45	0833983	- EUR	
40	0833982	- EUR	
35	0833981	- EUR	
30	0833980	- EUR	
25	0833979	- EUR	
20	1498688	- EUR	
15	1498687	- EUR	
10	1451033	- EUR	

Lengths, radius and height in [mm]



Sensor tool

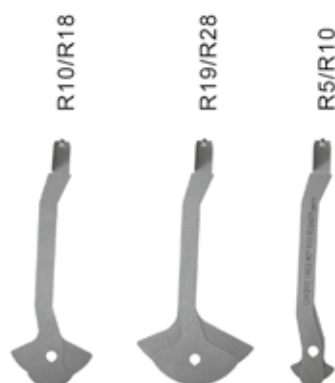


Delivery time: ex warehouse

ACB OW210/S	Radius:	R1,0 mm
	Angle:	28°
	Height:	140 mm
	Mat. No.	Price
ACB		
Sensor tool 25	0902761	- EUR
Initial equipment 2.G	1273597	- EUR
ACB Wireless		
Sensor tool 25	1858870	- EUR
Initial equipment	2040984	- EUR
Sensor disk		
L22	0912277	- EUR
L12	0912276	- EUR
R28	0902700	- EUR
R19	0904180	- EUR
R18	0902627	- EUR
R10	0902628	- EUR
R05	0902629	- EUR

The sensor disks marked with a star (*) are included in the sensor tool scope of delivery.

Sensor disks OW 210 - H140



R10/R18 *				
Mat.	s	W	α	R (OW)
StSt	≤ 3.0	≤ 20	80 - 100	≤ 4
St	≤ 4.0	≤ 24	80 - 105	≤ 4
Al	≤ 4.0	≤ 24	80 - 105	≤ 4
R19/R28				
Mat.	s	W	α	R (OW)
StSt	≤ 6.0	≤ 50	85 - 95	≤ 6
St	≤ 10.0	≤ 70	85 - 100	≤ 6
Al	≤ 8.0	≤ 70	85 - 100	≤ 6
R5/R10 *				
Mat.	s	W	α	R (OW)
StSt	≤ 2.5	≤ 16	75 - 95	≤ 2
St	≤ 2.5	≤ 16	75 - 105	≤ 2
Al	≤ 2.5	≤ 16	75 - 105	≤ 2
L12/L22				
Mat.	s	W	α	R (OW)
StSt	≤ 2.5	≤ 16	105 - 135	≤ 3
St	≤ 2.5	≤ 16	105 - 135	≤ 3
Al	≤ 2.5	≤ 16	105 - 135	≤ 3

For bigger tool radii restricted angle measurements ranges are valid!

Angles of 120°-135° possible, depending on the sensor and application.

Punches up to H = 400 mm

Punch



Delivery time: ex warehouse

OW200/S	Radius:	R1,0 mm
	Angle:	86°
	Height:	220 mm
	Mat. No.	Price
VAR. B		
4050	0823806	- EUR
3050	0823805	- EUR
2550	0835176	- EUR
2050	0823804	- EUR
1250	0825699	- EUR
1050	0867275	- EUR
VAR. A		
2050	0823801	- EUR
1250	0825698	- EUR
1050	1606802	- EUR
550	1606801	- EUR
SET 250		
250	0825697	- EUR
SINGLE		
300	0823799	- EUR
200	0823798	- EUR
100	0824549	- EUR
Horn left 100	0824481	- EUR
Horn right 100	0824482	- EUR
50	0824480	- EUR
45	0824479	- EUR
40	0824478	- EUR
35	0824477	- EUR
30	0824476	- EUR
25	0824475	- EUR
20	0848757	- EUR
15	0837118	- EUR
10	0837117	- EUR

Lengths in [mm]

Technical data



800 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

65,8 kg/m



~60 HRC

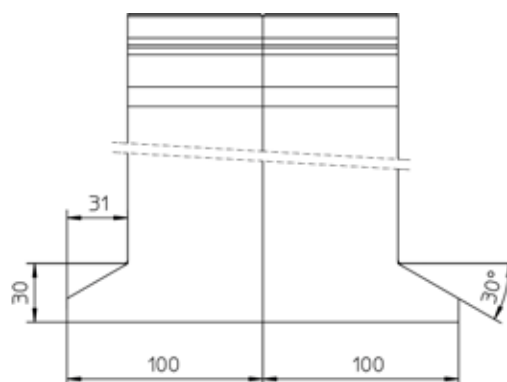


132 mm



25 mm - 200 mm

Horn left / right



More working radii											Delivery time: 2 weeks
OW200/S	R0,5	R1,6	R2	R2,3	R2,5	R3	R3,2	R4	R5	R6	Radius
	86°	86°	86°	86°	86°	86°	86°	86°	86°	86°	Angle
	219,8	219,2	219,2	219	218,7	218,5	218,5	218,3	217,8	217,5	Height
	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Price
VAR. B											
4050	0868415	0828060	0868437	0868470	0828090	0836797	0868485	0825969	0851629	1297183	- EUR
3050	0868414	0828059	0857218	0868469	0828089	0847467	0865362	0825968	0860540	0851946	- EUR
2550	0865720	0868418	0851010	0868468	0868473	0849135	0868484	0862529	0849134	0862530	- EUR
2050	0868413	0828058	0840936	0868467	0828088	0830780	0857669	0825967	0853549	0854879	- EUR
1250	0835648	0828054	0841064	0868466	0828087	0850119	0868483	0825966	0836742	0843708	- EUR
1050	1871735	1871752	1871756	1871782	1871832	1581018	1871835	1718990	1944549	1871840	- EUR
VAR. A											
2050	0868409	0828051	0868435	0868462	0828084	0835901	0868479	0825963	2466235	1766321	- EUR
1250	0868408	0828050	0868434	0868461	0828083	0868474	0868478	0825962	2330453	0859122	- EUR
1050	1871737	1871753	1871757	1871783	1871833	1581017	1871836	1871838	1688297	1871851	- EUR
550	1871736	1871754	1871758	1871784	1871834	1581016	1871837	1871839	2268612	1700246	- EUR
SET 250											
250	0835646	0828048	0840958	0868460	0828081	0830778	0857854	0825960	0836741	0843707	- EUR
SINGLE											
300	0835634	0828036	0840947	0868447	0828069	0830766	0857822	0825958	0836728	0837052	- EUR
200	0835633	0828035	0840946	0868446	0828068	0830765	0857821	0825957	0836727	0843695	- EUR
100	0835644	0828045	0840956	0868448	0828078	0830773	0857823	0825979	0836735	0837053	- EUR
Horn left 100	0835642	0828046	0840954	0868457	0828079	0830776	0857849	0825977	0836738	0843704	- EUR
Horn right 100	0835643	0828047	0840955	0868458	0828080	0830777	0857851	0825978	0836739	0843705	- EUR
50	0835641	0828044	0840953	0868454	0828077	0830772	0857829	0825976	0836734	0843703	- EUR
45	0835640	0828043	0840952	0868453	0828076	0830771	0857828	0825975	0836733	0843702	- EUR
40	0835639	0828042	0840951	0868452	0828075	0830770	0857827	0825974	0836732	0843701	- EUR
35	0835638	0828041	0840950	0868451	0828074	0830769	0857826	0825973	0836731	0843700	- EUR
30	0835637	0828040	0840949	0868450	0828073	0830768	0857825	0825971	0836730	0843699	- EUR
25	0835636	0828039	0840948	0868449	0828072	0830767	0857824	0825970	0836729	0843698	- EUR
20	1474043	1984753	1616395	1984760	1984778	1604677	1984816	1799107	2466234	1563090	- EUR
15	1347156	1984752	1616394	1984759	1984777	1604676	1984815	1799106	2466233	1563059	- EUR
10	1347155	1984751	1984756	1984758	1984776	1604675	1984814	1799105	2466232	1563058	- EUR

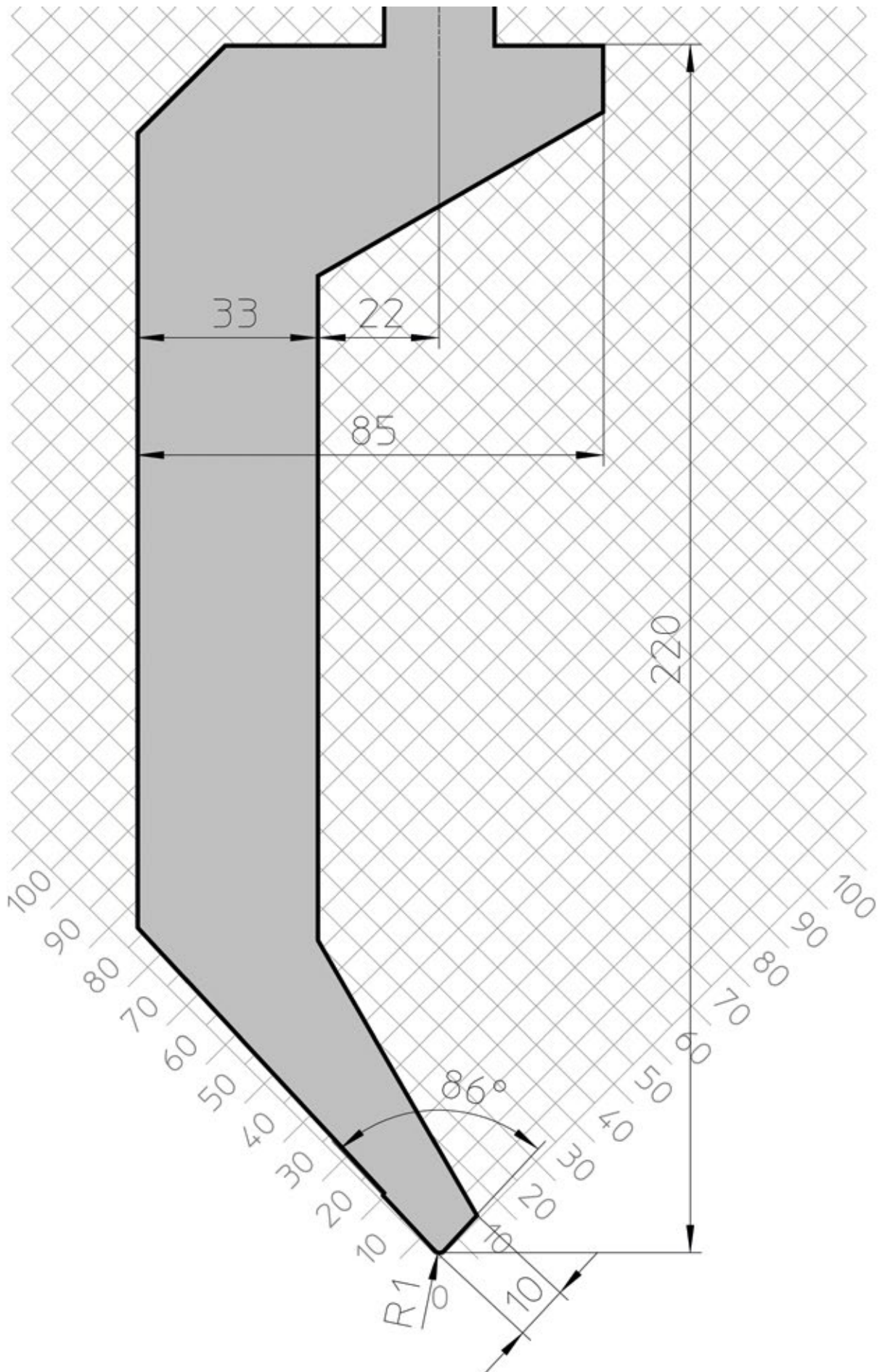
Lengths, radius and height in [mm]

More working radii											Delivery time: 3 weeks
Sensor OW200/S	R0,5	R1,6	R2	R2,3	R2,5	R3	R3,2	R4	R5	R6	Radius
	86°	86°	86°	86°	86°	86°	86°	86°	86°	86°	Angle
	219,8	219,2	219,2	219	218,7	218,5	218,5	218,3	217,8	218,5	Height
	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Mat. No.	Price
ACB											
Sensor tool 25	1285225	0987320	0933594	1602978	0957801	0951078	1271775	0951079	0951080	0951081	- EUR
Initial equipment 2.G	1408977	1397876	1282571	1602990	1354761	1282572	1598742	1282573	1431450	1464788	- EUR
ACB Wireless											
Sensor tool 25	2289882	2298105	2285738	2298110	2298238	2298263	2298268	2298274	2466827	2284790	- EUR
Initial equipment	2289883	2298106	2285739	2298151	2298239	2298264	2298269	2298275	2466828	2284881	- EUR
Sensor disk											
L43	0949405	0949405	0949405	0949405	0949405	0949405	0949405	1410933	1410933	1410933	- EUR
L33	0949404	0949404	0949404	0949404	0949404	0949404	0949404	1410931	1410931	1410931	- EUR
L27	0949406	0949406	0949406	0949406	0949406	0949406	0949406	0949406	0949406	0949406	- EUR
L17	0949402	0949402	0949402	0949402	0949402	0949402	0949402	0949402	0949402	0949402	- EUR
L15	0949407	0949407	0949407	0949407							- EUR
L09	0949403	0949403	0949403	0949403							- EUR

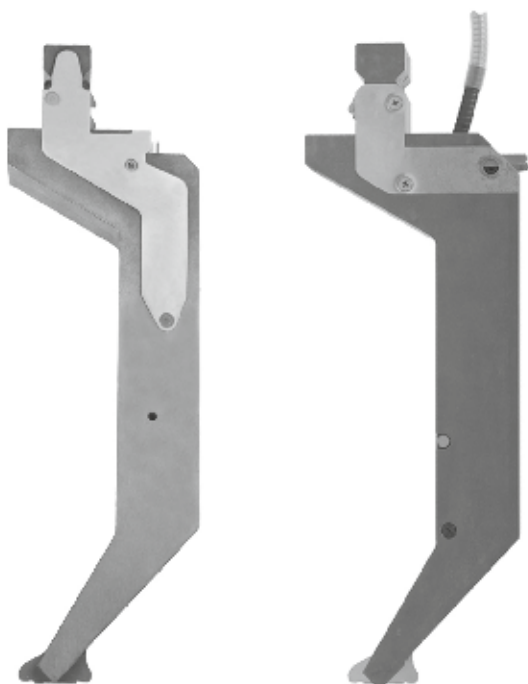
Radius and height in [mm]

Refer to the standard sensor tool for the scope of delivery of the sensor discs included with the sensor tool.

Delivery time for 1410931, 1410933 on request.



Sensor tool



Delivery time: ex warehouse

ACB OW200/S

Radius:	R1,0 mm
Angle:	86°
Height:	220 mm
Mat. No.	Price

ACB

Sensor tool 25	0938411	- EUR
Initial equipment 2.G	1273589	- EUR

ACB Wireless

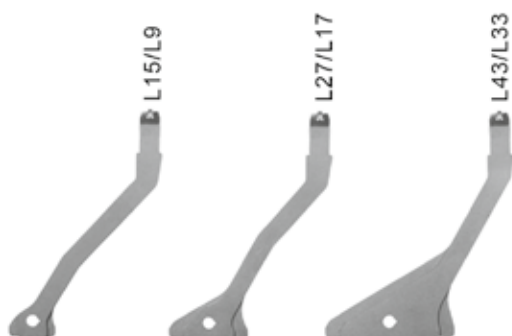
Sensor tool 25	1873173	- EUR
Initial equipment	2040281	- EUR

Sensor disk

L43	0949405	- EUR
L33	0949404	- EUR
L27	0949406	- EUR
L17	0949402	- EUR
L15	0949407	- EUR
L09	0949403	- EUR

The sensor disks marked with a star (*) are included in the sensor tool scope of delivery.

Sensor disks OW 200/S



L15/L9 *

Mat.	s	W	α	R (OW)
StSt	≤ 2.0	≤ 16	90 - 105	≤ 2
St	≤ 2.0	≤ 12	90 - 135	≤ 2
Al	≤ 2.0	≤ 12	90 - 135	≤ 2

L27/L17 *

Mat.	s	W	α	R (OW)
StSt	≤ 3.0	≤ 24	90 - 135	≤ 4
St	≤ 4.0	≤ 30	90 - 135	≤ 4
Al	≤ 4.0	≤ 24	90 - 135	≤ 4

L43/L33

Mat.	s	W	α	R (OW)
StSt	≤ 6.0	≤ 50	90 - 135	≤ 6
St	≤ 10.0	≤ 70	90 - 135	≤ 6
Al	≤ 10.0	≤ 70	90 - 135	≤ 6

For bigger tool radii restricted angle measurements ranges are valid!
Angles of 120°-135° possible, depending on the sensor and application.

Punch



Delivery time: ex warehouse

OW240/S	Radius:	R4,0 mm
	Angle:	86°
	Height:	220 mm
	Mat. No.	Price
VAR. B		
4050	2866847	- EUR
3050	2866846	- EUR
2550	2866845	- EUR
2050	2866844	- EUR
1250	2866843	- EUR
1050	2866842	- EUR
VAR. A		
2050	2866838	- EUR
1250	2866837	- EUR
1050	2866836	- EUR
550	2866835	- EUR
SET 250		
250	2866860	- EUR
SINGLE		
300	2866859	- EUR
200	2866858	- EUR
100	2866854	- EUR
Horn left 100	2866861	- EUR
Horn right 100	2866862	- EUR
50	2866853	- EUR
45	2866852	- EUR
40	2866851	- EUR
35	2866850	- EUR
30	2866849	- EUR
25	2866848	- EUR

Lengths in [mm]

Technical data



1400 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

75,4 kg/m



~60 HRC

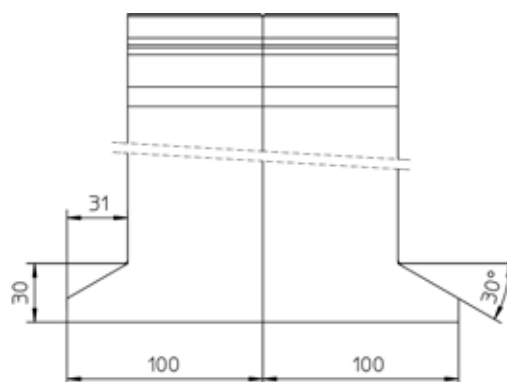


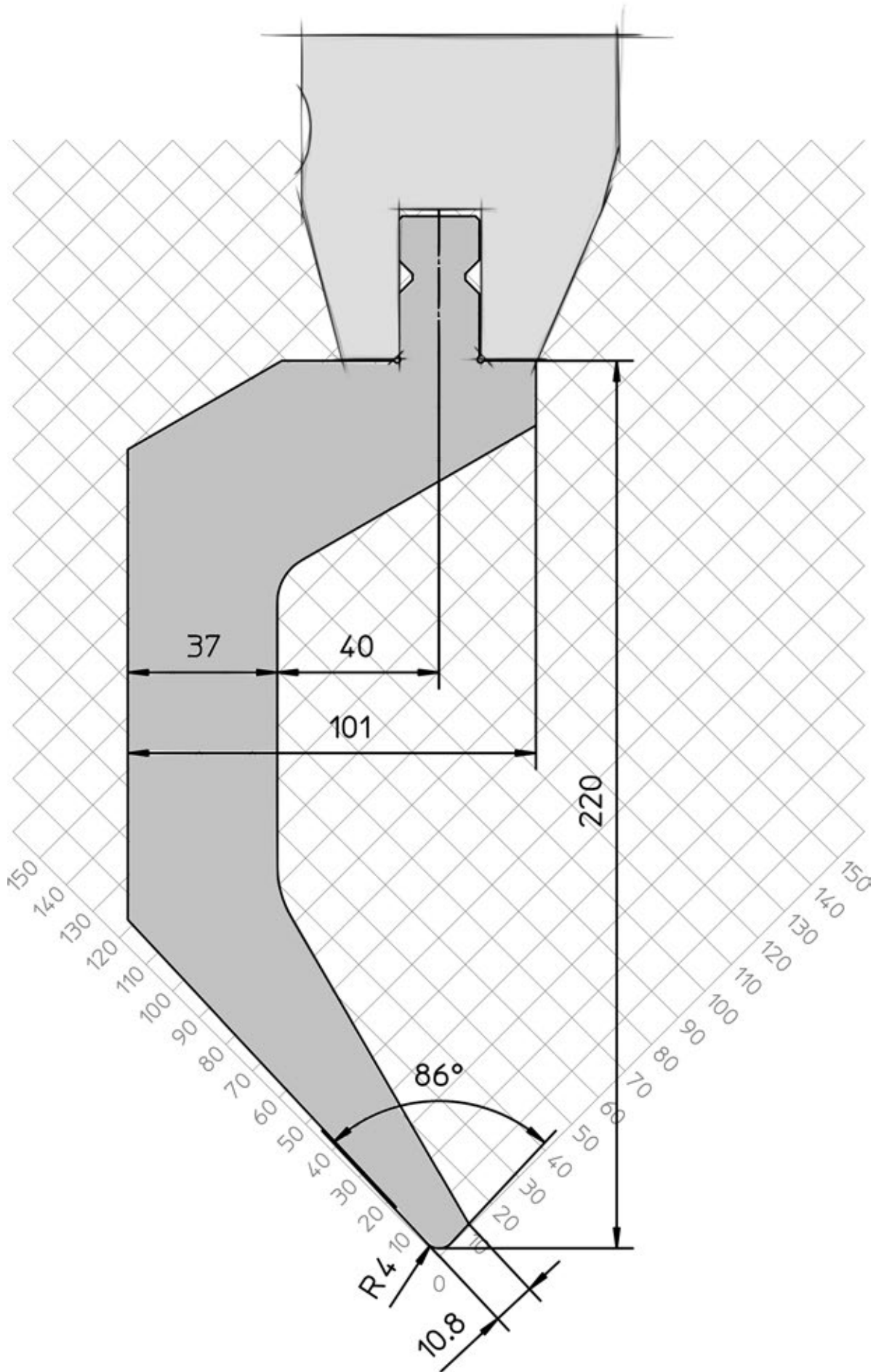
132 mm



25 mm - 100 mm

Horn left / right





Punch



Delivery time: see E-Shop

OW250/S	Radius:	R1,0 mm
	Angle:	86°
	Height:	234 mm
	Mat. No.	Price
VAR. B		
4050	2867301	- EUR
3050	2867300	- EUR
2550	2867299	- EUR
2050	2867298	- EUR
1250	2867297	- EUR
1050	2867296	- EUR
VAR. A		
2050	2867292	- EUR
1250	2867291	- EUR
1050	2867240	- EUR
550	2867239	- EUR
SET 250		
250	2867313	- EUR
SINGLE		
200	2867312	- EUR
100	2867308	- EUR
Horn left 100	2867314	- EUR
Horn right 100	2867315	- EUR
50	2867307	- EUR
45	2867306	- EUR
40	2867305	- EUR
35	2867304	- EUR
30	2867303	- EUR
25	2867302	- EUR

Lengths in [mm]

Technical data



1400 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

83,9 kg/m



~60 HRC



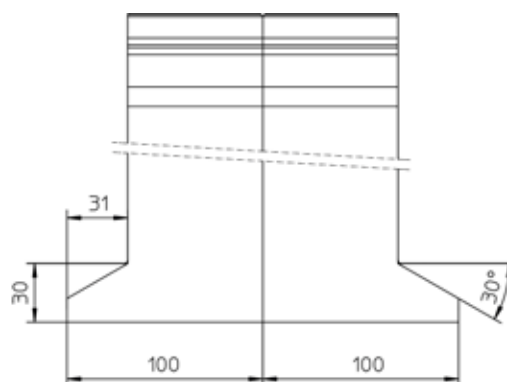
141 mm

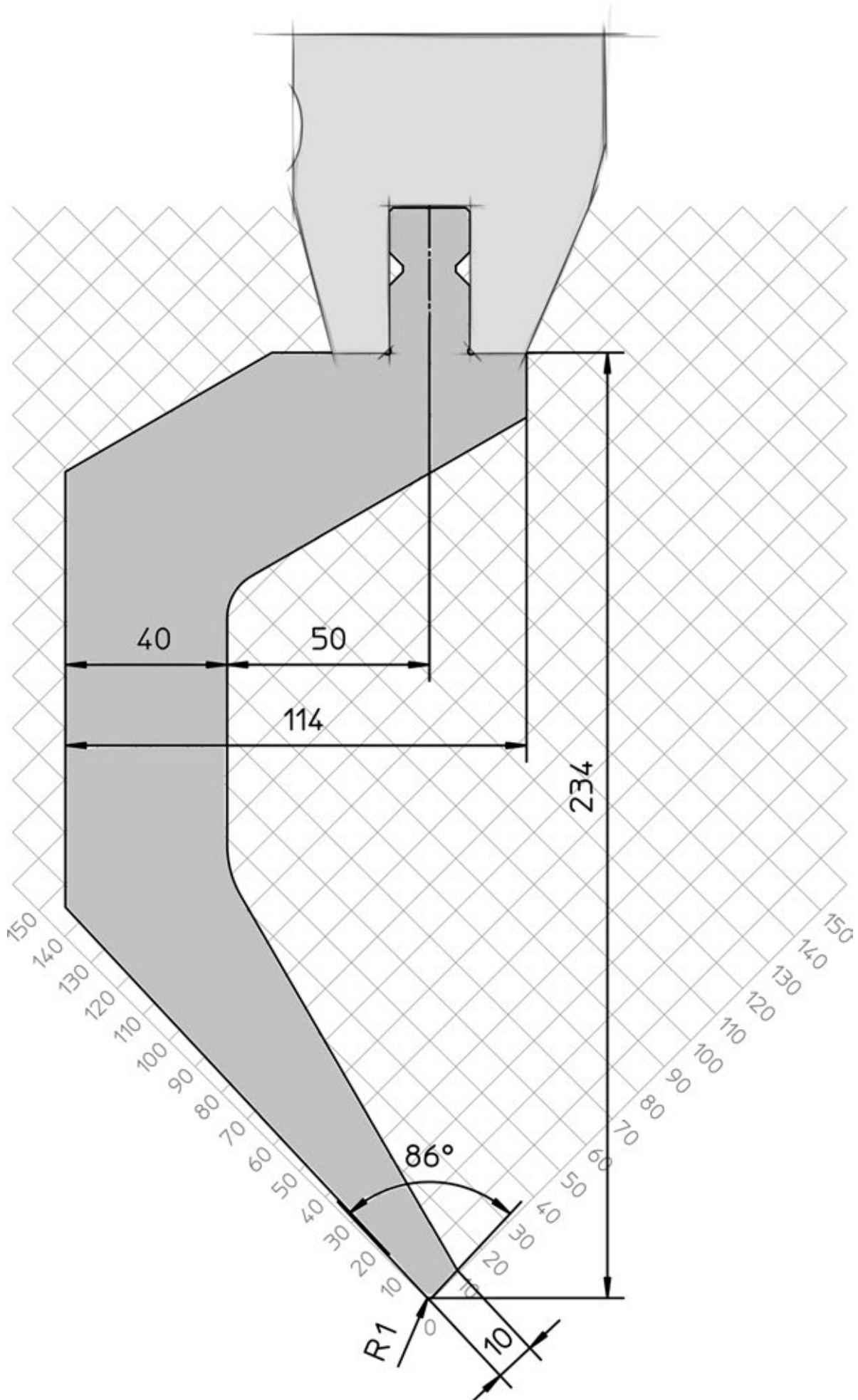


25 mm - 100 mm

Suitable for station operation in
combination with OW210/S H240

Horn left / right





Punch



Delivery time: see E-Shop

OW260/S	Radius:	R4,0 mm
	Angle:	60°
	Height:	250 mm
	Mat. No.	Price
VAR. B		
4050	2868535	- EUR
3050	2868534	- EUR
2550	2868533	- EUR
2050	2868532	- EUR
1250	2868531	- EUR
1050	2868490	- EUR
VAR. A		
2050	2868486	- EUR
1250	2868485	- EUR
1050	2868484	- EUR
550	2868483	- EUR
SET 250		
250	2868547	- EUR
SINGLE		
200	2868546	- EUR
100	2868542	- EUR
Horn left 100	2868548	- EUR
Horn right 100	2868549	- EUR
50	2868541	- EUR
45	2868540	- EUR
40	2868539	- EUR
35	2868538	- EUR
30	2868537	- EUR
25	2868536	- EUR

Lengths in [mm]

Technical data



2200 kN/m

42 Cr Mo 4
1080 - 1180 N/mm²

89,2 kg/m



~60 HRC

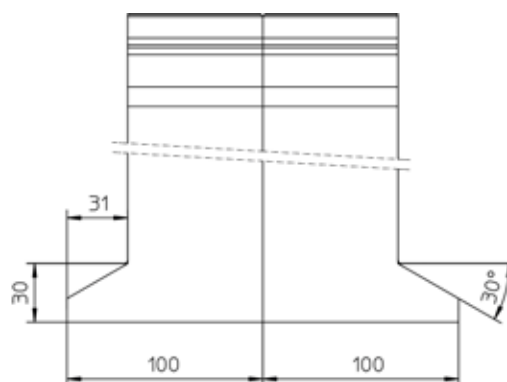


152 mm



25 mm - 100 mm

Horn left / right



More working radii			Delivery time: see E-Shop
OW260/S	R10		Radius
	60°		Angle
	250		Height
	Mat. No.	Price	
VAR. B			
4050	2868315	- EUR	
3050	2868314	- EUR	
2550	2868313	- EUR	
2050	2868312	- EUR	
1250	2868311	- EUR	
1050	2868270	- EUR	
VAR. A			
2050	2868266	- EUR	
1250	2868265	- EUR	
1050	2868264	- EUR	
550	2868263	- EUR	
SET 250			
250	2868327	- EUR	
SINGLE			
200	2868326	- EUR	
100	2868322	- EUR	
Horn left 100	2868328	- EUR	
Horn right 100	2868329	- EUR	
50	2868321	- EUR	
45	2868320	- EUR	
40	2868319	- EUR	
35	2868318	- EUR	
30	2868317	- EUR	
25	2868316	- EUR	

Lengths, radius and height in [mm]