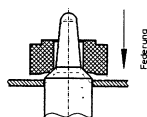



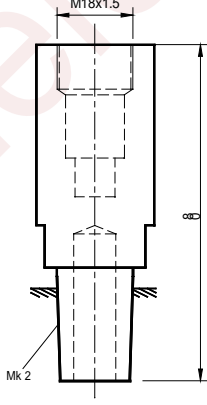
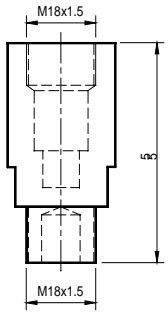
## Electrodes for welding nuts M3 - M14 for sheet metal hole-Ø 4,5 to 16,8

- welding pins of high performance ceramic
- precise centering of the weld nut
- short pin (k)** for manual insertion,  
**long pin (l/B)** for automated feeding
- electrode with compressed air connection for blowing of scale and spatter




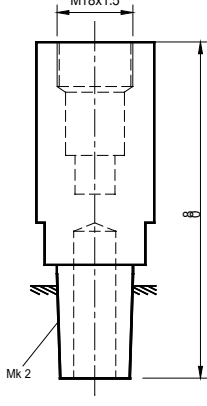
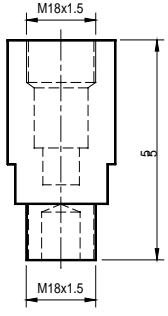
### Ceramic welding pins for nut M4

order example for complete electrode: **Mk2\_M4\_6,0\_k**

sheet hole Ø	short pin (k)	long pin (l/B)	electrode-top CuCoBe	spring	electrode base with air connection cone Mk2	electrode base with air connection thread M18x1,5
4,5	40-106-000	40-106-060	40-052-610	 <p>40-100-970</p> <p>quick fit-connection 1/8" a - 6mm</p> <p>40-132-216</p>	 <p>40-052-980</p> <p>(Cone A3/1:10=18 40-052-985)</p>	 <p>40-052-982</p>
4,6	40-106-001	40-106-061	40-052-611			
4,7	40-106-002	40-106-062	40-052-612			
4,8	40-106-003	40-106-063	40-052-613			
4,9	40-106-004	40-106-064	40-052-614			
5,0	40-106-005	40-106-065	40-052-615			
5,1	40-106-006	40-106-066	40-052-616			
5,2	40-106-007	40-106-067	40-052-617			
5,3	40-106-008	40-106-068	40-052-618			
5,4	40-106-009	40-106-069	40-052-619			
5,5	40-106-010	40-106-070	40-052-620			
5,6	40-106-011	40-106-071	40-052-621			
5,7	40-106-012	40-106-072	40-052-622			
5,8	40-106-013	40-106-073	40-052-623			
5,9	40-106-014	40-106-074	40-052-624			
6,0 *	<b>40-106-015</b>	<b>40-106-075</b>	<b>40-052-625</b>			

### Ceramic welding pins for nut M5

order example for complete electrode: **Mk2\_M5\_7,0\_k**

sheet hole Ø	short pin (k)	long pin (l/B)	electrode-top CuCoBe	spring	electrode base with air connection cone Mk2	electrode base with air connection thread M18x1,5
5,5	40-106-100	40-106-160	40-052-620	 <p>40-100-970</p> <p>quick fit-connection 1/8" a - 6mm</p> <p>40-132-216</p>	 <p>40-052-980</p> <p>(Cone A3/1:10=18 40-052-985)</p>	 <p>40-052-982</p>
5,6	40-106-101	40-106-161	40-052-621			
5,7	40-106-102	40-106-162	40-052-622			
5,8	40-106-103	40-106-163	40-052-623			
5,9	40-106-104	40-106-164	40-052-624			
6,0	40-106-105	40-106-165	40-052-625			
6,1	40-106-106	40-106-166	40-052-626			
6,2	40-106-107	40-106-167	40-052-627			
6,3	40-106-108	40-106-168	40-052-628			
6,4	40-106-109	40-106-169	40-052-629			
6,5	40-106-110	40-106-170	40-052-630			
6,6	40-106-111	40-106-171	40-052-631			
6,7	40-106-112	40-106-172	40-052-632			
6,8	40-106-113	40-106-173	40-052-633			
6,9	40-106-114	40-106-174	40-052-634			
7,0 *	<b>40-106-115</b>	<b>40-106-175</b>	<b>40-052-635</b>			

**Ceramic welding pins for nut M6**

order example for complete electrode: **Mk2\_M6\_8,0\_k**

	short pin (k)	long pin (l/B)	electrode-top CuCoBe	spring	electrode base with air connection cone Mk2	electrode base with air connection thread M18x1,5
sheet hole Ø						
6,5	40-106-200	40-106-260	40-052-630	40-100-970	40-052-980	40-052-982
6,6	40-106-201	40-106-261	40-052-631			
6,7	40-106-202	40-106-262	40-052-632			
6,8	40-106-203	40-106-263	40-052-633			
6,9	40-106-204	40-106-264	40-052-634			
7,0	40-106-205	40-106-265	40-052-635			
7,1	40-106-206	40-106-266	40-052-636			
7,2	40-106-207	40-106-267	40-052-637			
7,3	40-106-208	40-106-268	40-052-638			
7,4	40-106-209	40-106-269	40-052-639			
7,5	40-106-210	40-106-270	40-052-640			
7,6	40-106-211	40-106-271	40-052-641			
7,7	40-106-212	40-106-272	40-052-642			
7,8	40-106-213	40-106-273	40-052-643			
7,9	40-106-214	40-106-274	40-052-644			
8,0 *	<b>40-106-215</b>	<b>40-106-275</b>	<b>40-052-645</b>			
8,1	40-106-216	40-106-276	40-052-646			
8,2	40-106-217	40-106-277	40-052-647			
8,3	40-106-218	40-106-278	40-052-648			
8,4	40-106-219	40-106-279	40-052-649			
8,5	40-106-220	40-106-280	40-052-650			

quick fit-connection  
1/8" a - 6mm



40-132-216

(Cone A3/1:10=18  
40-052-985)

**Ceramic welding pins for nut M8**

order example for complete electrode: **Mk2\_M8\_10,5\_k**

	short pin (k)	long pin (l/B)	electrode-top CuCoBe	spring	electrode base with air connection cone Mk2	electrode base with air connection thread M18x1,5
sheet hole Ø						
8,5	40-106-300	40-106-360	40-052-650	40-100-970	40-052-980	40-052-982
8,6	40-106-301	40-106-361	40-052-651			
8,7	40-106-302	40-106-362	40-052-652			
8,8	40-106-303	40-106-363	40-052-653			
8,9	40-106-304	40-106-364	40-052-654			
9,0	40-106-305	40-106-365	40-052-655			
9,1	40-106-306	40-106-366	40-052-656			
9,2	40-106-307	40-106-367	40-052-657			
9,3	40-106-308	40-106-368	40-052-658			
9,4	40-106-309	40-106-369	40-052-659			
9,5	40-106-310	40-106-370	40-052-660			
9,6	40-106-311	40-106-371	40-052-661			
9,7	40-106-312	40-106-372	40-052-662			
9,8	40-106-313	40-106-373	40-052-663			
9,9	40-106-314	40-106-374	40-052-664			
10,0	40-106-315	40-106-375	40-052-665			
10,1	40-106-316	40-106-376	40-052-666			
10,2	40-106-317	40-106-377	40-052-667			
10,3	40-106-318	40-106-378	40-052-668			
10,4	40-106-319	40-106-379	40-052-669			
10,5 *	<b>40-106-320</b>	<b>40-106-380</b>	<b>40-052-670</b>			
10,6	40-106-321	40-106-381	40-052-671			
10,7	40-106-322	40-106-382	40-052-672			
10,8	40-106-323	40-106-383	40-052-673			
10,9	40-106-324	40-106-384	40-052-674			
11,0	40-106-325	40-106-385	40-052-675			

quick fit-connection  
1/8" a - 6mm



40-132-216

(Cone A3/1:10=18  
40-052-985)

**Ceramic welding pins for nut M10**

order example for complete electrode: **Mk2\_M10\_12,5\_k**

	short pin (k)	long pin (l/B)	electrode-top CuCoBe	spring	electrode base with air connection cone Mk2	electrode base with air connection thread M18x1,5
sheet hole Ø						
11,0	40-106-400	40-106-460	40-052-750	40-100-985	40-052-990	40-052-992
11,1	40-106-401	40-106-461	40-052-751			
11,2	40-106-402	40-106-462	40-052-752			
11,3	40-106-403	40-106-463	40-052-753			
11,4	40-106-404	40-106-464	40-052-754			
11,5	40-106-405	40-106-465	40-052-755			
11,6	40-106-406	40-106-466	40-052-756			
11,7	40-106-407	40-106-467	40-052-757			
11,8	40-106-408	40-106-468	40-052-758			
11,9	40-106-409	40-106-469	40-052-759			
12,0	40-106-410	40-106-470	40-052-760			
12,1	40-106-411	40-106-471	40-052-761			
12,2	40-106-412	40-106-472	40-052-762			
12,3	40-106-413	40-106-473	40-052-763			
12,4	40-106-414	40-106-474	40-052-764			
12,5 *	<b>40-106-415</b>	<b>40-106-475</b>	<b>40-052-765</b>			
12,6	40-106-416	40-106-476	40-052-766			
12,7	40-106-417	40-106-477	40-052-767			
12,8	40-106-418	40-106-478	40-052-768			
12,9	40-106-419	40-106-479	40-052-769			
13,0	40-106-420	40-106-480	40-052-770			

quick fit-connection  
1/8" a - 6mm



40-132-216

(Cone A3/1:10=18  
40-052-995)

**Ceramic welding pins for nut M12**

order example for complete electrode: **Mk2\_M12\_14,8\_k**

	short pin (k)	long pin (l/B)	electrode-top CuCoBe	spring	electrode base with air connection cone Mk2	electrode base with air connection thread M18x1,5
sheet hole Ø						
13,0	40-106-500	40-106-560	40-052-770	40-100-985	40-052-990	40-052-992
13,1	40-106-501	40-106-561	40-052-771			
13,2	40-106-502	40-106-562	40-052-772			
13,3	40-106-503	40-106-563	40-052-773			
13,4	40-106-504	40-106-564	40-052-774			
13,5	40-106-505	40-106-565	40-052-775			
13,6	40-106-506	40-106-566	40-052-776			
13,7	40-106-507	40-106-567	40-052-777			
13,8	40-106-508	40-106-568	40-052-778			
13,9	40-106-509	40-106-569	40-052-779			
14,0	40-106-510	40-106-570	40-052-780			
14,1	40-106-511	40-106-571	40-052-781			
14,2	40-106-512	40-106-572	40-052-782			
14,3	40-106-513	40-106-573	40-052-783			
14,4	40-106-514	40-106-574	40-052-784			
14,5	40-106-515	40-106-575	40-052-785			
14,6	40-106-516	40-106-576	40-052-786			
14,7	40-106-517	40-106-577	40-052-787			
14,8 *	<b>40-106-518</b>	<b>40-106-578</b>	<b>40-052-788</b>			
14,9	40-106-519	40-106-579	40-052-789			
15,0	40-106-520	40-106-580	40-052-790			

quick fit-connection  
1/8" a - 6mm



40-132-216

(Cone A3/1:10=18  
40-052-995)

\* standard sheet hole-Ø

**Complete electrodes for welding nuts M3 - M 14 / standard sheet hole-Ø**

Nut	Sheet hole-Ø	Cone/Thread	Pin	Designation	Article-no.
M3	4,5	Mk2	short (k)	Mk2_M3_4,5_k	40-053-915
M3	4,5	Mk2	long (I/B)	Mk2_M3_4,5_I/B	40-053-975
M3	4,5	M18x1,5	short (k)	M18x1,5_M3_4,5_k	40-054-915
M3	4,5	M18x1,5	long (I/B)	M18x1,5_M3_4,5_I/B	40-054-975
M3	4,5	A3 (1:10=18)	short (k)	A3_M3_4,5_k	40-056-915
M3	4,5	A3 (1:10=18)	long (I/B)	A3_M3_4,5_I/B	40-056-975
M4	6,0	Mk2	short (k)	Mk2_M4_6,0_k	40-053-015
M4	6,0	Mk2	long (I/B)	Mk2_M4_6,0_I/B	40-053-075
M4	6,0	M18x1,5	short (k)	M18x1,5_M4_6,0_k	40-054-015
M4	6,0	M18x1,5	long (I/B)	M18x1,5_M4_6,0_I/B	40-054-075
M4	6,0	A3 (1:10=18)	short (k)	A3_M4_6,0_k	40-056-015
M4	6,0	A3 (1:10=18)	long (I/B)	A3_M4_6,0_I/B	40-056-075
M5	7,0	Mk2	short (k)	Mk2_M5_7,0_k	40-053-115
M5	7,0	Mk2	long (I/B)	Mk2_M5_7,0_I/B	40-053-175
M5	7,0	M18x1,5	short (k)	M18x1,5_M5_7,0_k	40-054-115
M5	7,0	M18x1,5	long (I/B)	M18x1,5_M5_7,0_I/B	40-054-175
M5	7,0	A3 (1:10=18)	short (k)	A3_M5_7,0_k	40-056-115
M5	7,0	A3 (1:10=18)	long (I/B)	A3_M5_7,0_I/B	40-056-175
M6	8,0	Mk2	short (k)	Mk2_M6_8,0_k	40-053-215
M6	8,0	Mk2	long (I/B)	Mk2_M6_8,0_I/B	40-053-275
M6	8,0	M18x1,5	short (k)	M18x1,5_M6_8,0_k	40-054-215
M6	8,0	M18x1,5	long (I/B)	M18x1,5_M6_8,0_I/B	40-054-275
M6	8,0	A3 (1:10=18)	short (k)	A3_M6_8,0_k	40-056-215
M6	8,0	A3 (1:10=18)	long (I/B)	A3_M6_8,0_I/B	40-056-275
M8	10,5	Mk2	short (k)	Mk2_M8_10,5_k	40-053-320
M8	10,5	Mk2	long (I/B)	Mk2_M8_10,5_I/B	40-053-380
M8	10,5	M18x1,5	short (k)	M18x1,5_M8_10,5_k	40-054-320
M8	10,5	M18x1,5	long (I/B)	M18x1,5_M8_10,5_I/B	40-054-380
M8	10,5	A3 (1:10=18)	short (k)	A3_M8_10,5_k	40-056-320
M8	10,5	A3 (1:10=18)	long (I/B)	A3_M8_10,5_I/B	40-056-380
M10	12,5	Mk2	short (k)	Mk2_M10_12,5_k	40-053-415
M10	12,5	Mk2	long (I/B)	Mk2_M10_12,5_I/B	40-053-475
M10	12,5	M18x1,5	short (k)	M18x1,5_M10_12,5_k	40-054-415
M10	12,5	M18x1,5	long (I/B)	M18x1,5_M10_12,5_I/B	40-054-475
M10	12,5	A3 (1:10=18)	short (k)	A3_M10_12,5_k	40-056-415
M10	12,5	A3 (1:10=18)	long (I/B)	A3_M10_12,5_I/B	40-056-475
M12	14,8	Mk2	short (k)	Mk2_M12_14,8_k	40-053-518
M12	14,8	Mk2	long (I/B)	Mk2_M12_14,8_I/B	40-053-578
M12	14,8	M18x1,5	short (k)	M18x1,5_M12_14,8_k	40-054-518
M12	14,8	M18x1,5	long (I/B)	M18x1,5_M12_14,8_I/B	40-054-578
M12	14,8	A3 (1:10=18)	short (k)	A3_M12_14,8_k	40-056-518
M12	14,8	A3 (1:10=18)	long (I/B)	A3_M12_14,8_I/B	40-056-578
M14	16,8	Mk2	short (k)	Mk2_M14_16,8_k	40-053-618
M14	16,8	Mk2	long (I/B)	Mk2_M14_16,8_I/B	40-053-678
M14	16,8	M18x1,5	short (k)	M18x1,5_M14_16,8_k	40-054-618
M14	16,8	M18x1,5	long (I/B)	M18x1,5_M14_16,8_I/B	40-054-678
M14	16,8	A3 (1:10=18)	short (k)	A3_M14_16,8_k	40-056-618
M14	16,8	A3 (1:10=18)	long (I/B)	A3_M14_16,8_I/B	40-056-678