DIN 1041 Hammers for locksmiths

1. Cutting:
Cutting material is the first operation in the technological procedure of wrench manufacturing. Optimum design of a cut provides optimal use of material.

2. Forjarea:
forjarea este clasica la cald permitand obtinerea formei dorite. Fibrajul corespunzator curgerii materialului in matrita asigura obtinerea de proprietati mecanice foarte bune si a unei cantitati minime de bavura.

3. Trimming:
Super& uous material around a forged part is removed using a specialpurpose trimming tool; material is trimmed to the desired shape, always making the weight of trimmings as low as possible.

INDUCTION HEAT TREATMENT ON THE HEADS

4. Eye:
is made according to DIN 1195.

5. Grinding:
it is made between two polishing stones

6. Induction heat treatment:
induction heat treatment of the striking parts ensures a high hardness of the hammer and a corresponding microstructure that gives it a very long service life.

7. Policing of active parts:
to avoid recoil and the release of chips as much as possible. Chamfer angle 45-50º. The small side of the octagon is strictly regulated on each hammer size.

8. Painting:
a layer of protective paint is made by painting in an electrostatic field with ecological paints without cadmium and lead.

9. Handle:
it is made of selected ash wood that meets the requirements of DIN 68340 and is protected with a colorless varnish. Profiled shape obtained from turning by copying with benefits for ergonomics, grip and anti-slip. Humidity 9-11%.

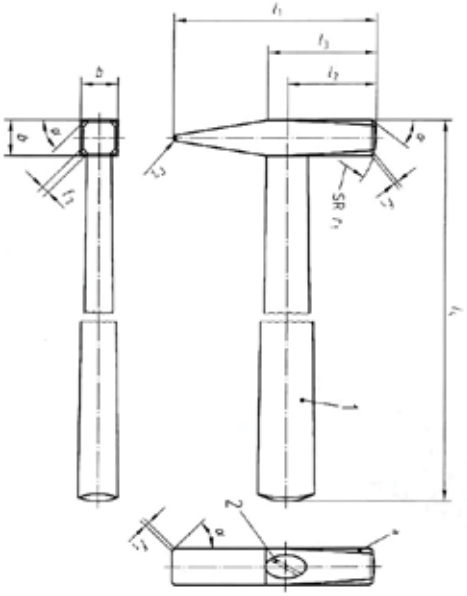
10. Mark:
The blue marking  reminds the user of the mandatory security measures.

11. Final assembly:
the components are joined by the operator obtaining a high quality product. Fixation of the tail: according to technical delivery conditions DIN 1193.

Nominal weight [a]		b	f_1 min.	f_2 min.	l_1	l_2	l_3 min.	$l_4 = l_1$ conform DIN 5111	r_1 max.	r_2 min.	α chamfer angle	Eye according to DIN 1195 dimension
g	Deviation from limits g											
50	± 5	11	0,9	2	75 ± 2	34 ± 2	40	250	190	0,75	45º-50º	12,5 x 7,1
100	± 10	15	1,3	3	82 ± 2	36 ± 2	44	260	190	1,0	45º-50º	16 x 9
200	± 20	19	1,6	4	95 ± 2	43 ± 2	51	280	200	1,5	45º-50º	18 x 10
300	± 25	23	1,9	5	105 ± 3	48 ± 3	58	300	220	1,75	45º-50º	20 x 11,2
500	± 35	27	2,3	6,5	118 ± 3	52,5 ± 3	65	320	240	2,25	45º-50º	25 x 14
800	± 50	33	2,8	7	130 ± 3	59,5 ± 3	72	350	265	2,5	45º-50º	28 x 16
1 000	± 60	36	3,0	8,5	135 ± 3	59 ± 3	75	360	280	3,0	45º-50º	30 x 17
1 500	± 80	42	3,5	10	145 ± 4	65 ± 4	81	380	295	3,5	45º-50º	31,5 x 18
2 000	± 100	47	3,9	11,5	155 ± 4	69 ± 4	87	400	315	4,0	45º-50º	35,5 x 20

General tolerances: ISO 2768-v

[a] The indications regarding the weight are valid for hammers without a tail and with a feather.



Don't use handles that are rough, cracked, broken, splintered and loosely attached to head.

Don't use one hammer to strike another hammer.

Don't grind, weld or reheat-treat a hammer head.

PERSONAL SAFETY
- Wear gloves and eye protection.
- Avoid striking equally hard surfaces. Do not use a hammer on surfaces exceeding 46 HRc. Use a mallet instead.
- Do not use suspect tools such as hammers with chipped heads, insecure or cracked handles,
excessively mushroomed chisels or punch ends. Check handle fit before use.
- Hammering may generate sparks. Do not use hammers in a fire-risk area.

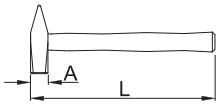
CORRECT TOOL SELECTION
- Rule of thumb: hammer head should have a diameter about 10 mm larger than the surface to be struck. Avoid hitting with the edge of the hammer.
- Select chisels and punches fitted with a guard for increased safety and comfort.
- Do not use punches for leverage.

Euro price without VAT included.

7812A

Locksmiths` hammer

- *forged from C-45 carbon steel*
- *striking face and nose induction hardened*
- *rubber coated handle*

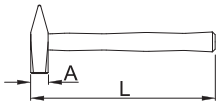


	gr	L		
621776	500	320	625	**7.67**

7812

Locksmiths` hammer

- *forged from C-45 carbon steel*
- *striking face and nose induction hardened: 45 ± 3 HRC*
- *surface finish: lacquered*
- *ash wood handle with special oval wedge*
- *made according to standard DIN 1041*

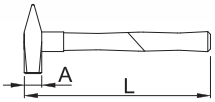


	gr	A	L		
71431	100	13 x 13	260	145	**3.29**
71432	200	17 x 17	280	280	**3.96**
71433	300	20 x 20	300	380	**4.68**
71434	400	22 x 22	310	487	**6.10**
71435	500	25 x 25	320	625	**6.63**
71440	1000	33 x 33	360	1150	**11.08**
71446	1500	37 x 37	380	1690	**14.78**
71449	2000	41 x 41	400	2195	**18.47**

7812F

Locksmiths` hammer with fibreglass handle

- *forged from C-45 carbon steel*
- *machined, induction hardened and tempered*
- *coated with black powder paint*
- *striking face and pein polished*
- *accurate chamfer with fiberglass handle.*
- *made according to standard DIN 1041*



	gr	A	L		
900482	500	25 x 25	320	625	**12.51**

7817

Club hammer

- *forged from C-45 carbon steel*
- *striking face and nose induction hardened*
- *haedness: 48 ± 3 HRC*
- *surface finish: lacquered*
- *ash wood handle with special oval wedge*
- *made according to standard DIN 6475*

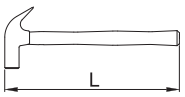
	gr	A	L		
71476	1000	36 x 36	260	1070	**9.00**

7805

Claw hammer

- *material: iron*
- *cast*
- *untreated*
- *coating: painted*
- *ash wood handle with special oval feather*

71479 varianta cu magnet

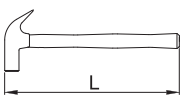


	gr	model	L		
71473	300	-	400	380	**5.70**
71479	300	cu magnet	400	390	**5.39**

7805A

Claw hammer

- *material: 45 carbon steel*
- *high frequency heat treatment on two side with 45 ± 3 HRC*
- *middle part no heat treatment*
- *handle is hardwood*
- *taper shape to fix with head*



	gr	A	L		
71483	350	-	400	380	**6.34**

7820/2

Rubber mallet black

- *head: black rubber*
- *handle: hard wood*

	gr		
71495	360	396	**4.54**
71496	450	531	**5.38**
71497	625	792	**6.83**

70227

Axe with fibreglass handle 1500 g

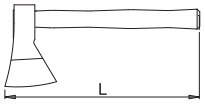
- *material: 45 carbon steel*
- *high frequency heat treatment on two side with 48 ± 3 HRC*
- *fibre glass handle*
- *length: 900 mm*
- *taper shape to fix with head*

	gr	A	L		
70227	1500	-	800	1750	**30.33**

71312

Axe with wood handle

- *material: 45 carbon steel*
- *high frequency heat treatment on two side with 48 ± 3 HRC*
- *handle is hardwood*
- *taper shape to fix with head*
- *with rubber protection on the blade*



	gr	L		
70222	300	360	300	**9.69**
70224	500	360	500	**10.69**
70226	700	360	700	**11.43**