

Raised and depressed lettering for cast, pressed and plastic parts

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1 Scope

This Bosch-Norm specifies guidelines that are mandatory for the labeling of any product of the Bosch Group.
Labeling rules for products see [N41A A1](#).

2 Introduction

All details in product labeling are based on the font "Bosch Sans", except for the Bosch symbol and logotype. This font family is exclusively designed for Bosch, it can be downloaded from the Bosch Bosch Brand Guide ([brandguide.bosch.com](#)) (see [N41A F1](#) and [N41A F4/1](#)).

The specified sizes are empirical values for the various manufacturing methods treated here. A distinction is made between font size h₁ (see figure 1) and raised font or depressed font. h₂ (see figure 2)

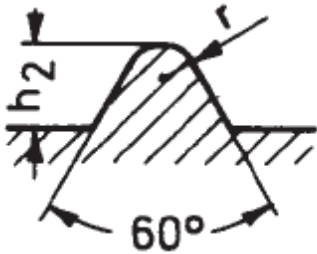
Figure 1: Font size h₁=cap height of capital letters



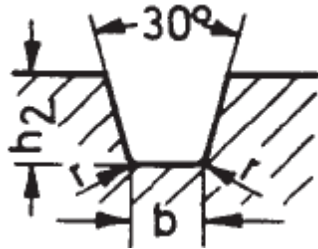
3 Pressed metal parts

Prefer the raised font for pressed parts of aluminum and other metals. Use the depressed font only if it cannot be avoided due to production-related reasons. Use the font Bosch Sans Engraving for depressed purposes. For raised fonts use Bosch Sans regular.

Figure 2: Raised and depressed fonts for pressed parts



Raised font
Designation: B1/1/..



Depressed font
Designation: B1/2/..

Table 1: Designation of raised fonts for pressed parts

Designation	h_1 [mm]	h_2 [mm]	r [mm]
B1/1/3	3	0,3	0,2
B1/1/4	4	0,4	0,3
B1/1/5	5	0,5	0,35
B1/1/6	6	0,6	0,45
B1/1/8	8	0,8	0,6
B1/1/10	10	1	0,6
B1/1/12,5	12,5	1,25	0,6
B1/1/16	16	1,6	0,6

Table 2: Designation of depressed fonts for pressed parts

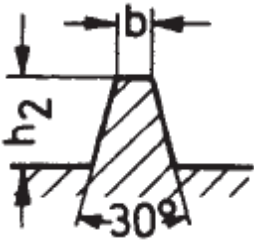
Designation	h_1 [mm]	h_2 [mm]	r [mm]	b [mm]
B1/2/3	3	0,3	0,05	0,2
B1/2/4	4	0,3	0,1	0,3
B1/2/5	5	0,4	0,1	0,4
B1/2/6	6	0,4	0,1	0,4
B1/2/8	8	0,6	0,2	0,6
B1/2/10	10	0,8	0,2	0,8
B1/2/12,5	12,5	1	0,3	1
B1/2/16	16	1,2	0,4	1,2

4 Pressure diecasting, permanent mold casting, plastics

Prefer the raised font for products manufactured by pressure diecasting or permanent mold casting, and for plastic parts. Use the depressed font only if it cannot be avoided due to production-related reasons.

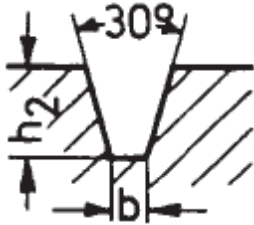
The font size h_1 (see figure 1) used for permanent mold casting parts has to be at least 4mm.

Figure 3: Raised and depressed fonts for parts manufactured by pressure diecasting, permanent mold casting, and for plastic parts



Raised font

Designation: B1/3/..



Depressed font

Designation: B1/4/..

Table 3: Designation of raised fonts for parts manufactured by pressure diecasting, permanent mold casting, and for plastic parts

Designation	h_1 [mm]	h_2 [mm]	b [mm]
B1/3/1,6	1,6	0,1	0,1
B1/3/2	2	0,2	0,1
B1/3/2,5	2,5	0,2	0,2
B1/3/3	3	0,3	0,2
B1/3/4	4	0,4	0,3
B1/3/5	5	0,5	0,4
B1/3/6	6	0,6	0,5
B1/3/7	7	0,7	0,6
B1/3/8	8	0,8	0,7
B1/3/10	10	1	0,9
B1/3/12,5	12,5	1,2	1,1
B1/3/16	16	1,6	1,5

Table 4: Designation of depressed fonts for parts manufactured by pressure diecasting, permanent mold casting, and for plastic parts

Designation	h_1 [mm]	h_2 [mm]	b [mm]
B1/4/1,6	1,6	0,1	0,1
B1/4/2	2	0,2	0,1
B1/4/2,5	2,5	0,2	0,2
B1/4/3	3	0,3	0,2
B1/4/4	4	0,4	0,3
B1/4/5	5	0,5	0,4
B1/4/6	6	0,6	0,5
B1/4/7	7	0,7	0,6
B1/4/8	8	0,8	0,7
B1/4/10	10	1	0,9
B1/4/12,5	12,5	1,2	1,1
B1/4/16	16	1,6	1,5

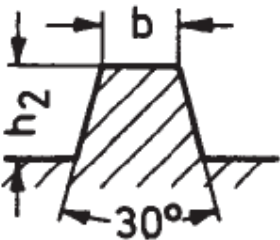
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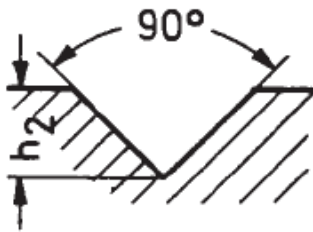
5 Sand casting

Prefer depressed fonts for products manufactured by sand casting. Use the raised font only if it is unavoidable due to production-related reasons.

Figure 4: Raised and depressed fonts for sand casting parts



Raised font
Designation: B1/5/..



Depressed font
Designation: B1/6/..

Table 5: Designation of raised fonts for sand casting parts

Designation	h_1 [mm]	h_2 [mm]	b [mm]
B1/5/8	8	1	0,8
B1/5/10	10	1,2	1
B1/5/12,5	12,5	1,5	1
B1/5/15	15	1,5	1,5
B1/5/16	16	1,5	2
B1/5/20	20	2	2,5
B1/5/25	25	2	3

Table 6: Designation of depressed fonts for sand casting parts

Designation	h_1 [mm]	h_2 [mm]
B1/6/5	5	0,5
B1/6/6	6	0,6
B1/6/7	7	0,7
B1/6/8	8	0,8
B1/6/10	10	1
B1/6/12,5	12,5	1
B1/6/15	15	1,2
B1/6/16	16	1,2

Designation example: font size $h_1 = 4$ mm (raised) for pressure diecasting→ font N41A B1/3/4

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6 Normative references

The following documents are necessary for using this Bosch-Norm. With dated references solely the edition referred to applies. With undated references the last edition of the indicated document applies (including all revisions). Intentionally cited historical standards are additionally identified as "H" in the column "Type".

No.	Document number (edition date)	Title	Type
1	N41A A1	Labeling rules for products and parts	Z
2	N41A A10	Use of the Bosch trademarks	Z
3	N41A F1	Product labeling, Bosch Sans for labels	Z
4	N41A F4/1	Engraving font, General	Z

Type: M = Document to be supplied; Z = Cited document; H = Historical document