



Designs

Material

- standard material: steel
- alternative material: cast and nonferrous metal (bronze, copper, aluminium, etc.), stainless steel
- customer material

Surface finishing

- uncoated, tinned, coppered

Types of attachment

- without attachment, with branch, with adhesive coating
- almost all fast studs and box studs in welded design (improved seals, mechanical and thermal stability compared with riveted designs)

Special designs

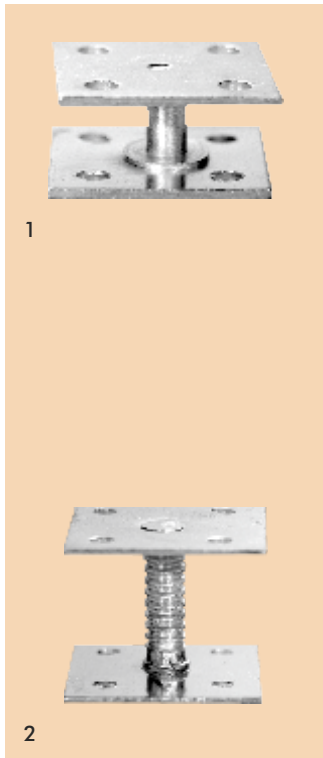
- curved studs
- clamp studs
- Y and Ω -shaped studs
- clamp box studs
- curved centre wires and nails
- sleeves and studs for core and mould boxes
- rod studs



CASTING SUPPLIES

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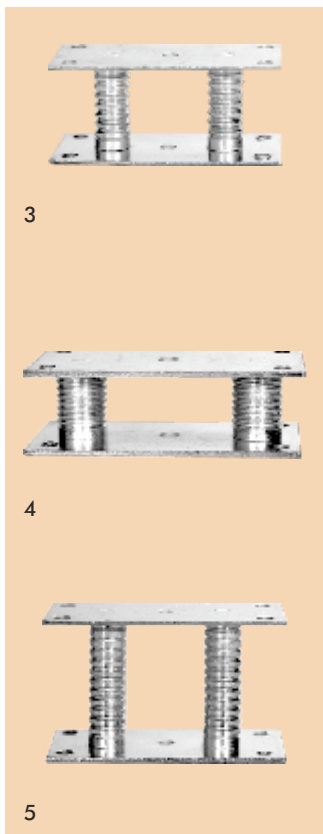
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Studs (1 web, without welding plate), Fig. 1 and 2

Plates (mm)	Web Ø (mm)	Height (mm)
15 x 15 x 1.0	4	10- 20
20 x 20 x 1.0	5	10- 20
25 x 25 x 1.0	5	10- 30
	6	32- 40
30 x 30 x 1.0	6	10- 40
	8	12- 50
30 x 30 x 1.5	8	12- 50
	10	12- 50
	12	12- 50
40 x 40 x 1.5	8	15- 50
	10	15- 60
	12	15- 70
40 x 40 x 2.0	10	15- 60
	12	15- 70
	15	20- 80
	18	20- 80
	20	30-100
	25	40-100

Fig. 1: 1 web, smooth
 Fig. 2: 1 web, grooved
 Designs: – production in welded design
 – other designs possible on request



Studs (2 webs, grooved, without welding plate) Fig. 3, 4 and 5

Plates (mm)	Web Ø (mm)	Height (mm)
30 x 15 x 1.0	4	10- 15
50 x 25 x 1.0	5	10- 30
	6	32- 40
	8	15- 50
60 x 30 x 1.0	6	10- 40
	8	15- 50
	8	12- 50
	10	15- 50
	12	15- 50
80 x 40 x 1.5	8	15- 50
	10	15- 60
	12	15- 70
80 x 40 x 2.0	10	15- 60
	12	15- 70
	15	20- 80
	18	20- 80
	20	30-100
	25	40-100
100 x 50 x 3.0	20	40-100
	25	50-120
	30	50-120
120 x 60 x 3.0	25	50-120
	30	50-120

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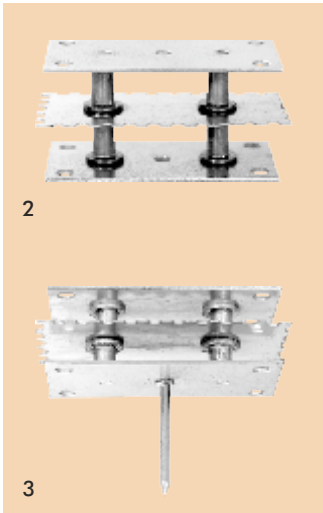
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Studs (1 web, with welding plate), Fig. 1

Plates (mm)	Web Ø (mm)	Welding plate (mm)	Height (mm)
15 x 15 x 1.0	4	16 Ø x 0.3	10-20
20 x 20 x 1.0	5	16 Ø x 0.5 23 Ø x 0.5	10-25
25 x 25 x 1.0	5	23 Ø x 0.5	10-30

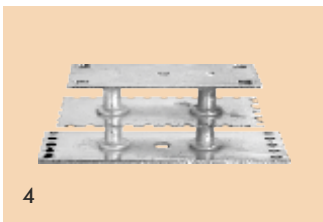


Studs (2 webs, with welding plate), Fig. 2 and 3

Plates (mm)	Web Ø (mm)	Welding plate (mm)	Height (mm)
50 x 25 x 1.0	5	54 x 27 x 0.5	10-30
60 x 30 x 1.0	6	60 x 30 x 0.5	12-40
60 x 30 x 1.5	8 10 12	60 x 30 x 0.5	15-50
80 x 40 x 1.5	8 10 12	80 x 40 x 0.5	15-60
80 x 40 x 2.0	10 12 15	80 x 40 x 0.5	15-60

Fig. 2: with 2 webs and welding plate

Fig. 3: with 2 webs and pint



Studs (2 webs, with extended base plate), Fig. 4

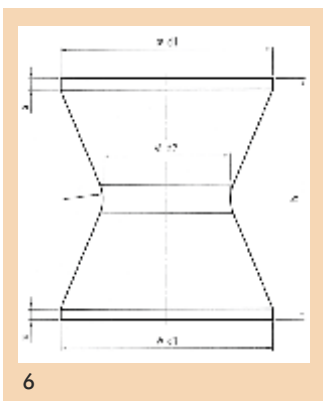
Plate top (mm)	Plate bottom (mm)
50 x 25	66 x 25
60 x 30	80 x 30
80 x 40	100 x 40

Plate thickness, webs, welded plate and heights based on the upper plate!



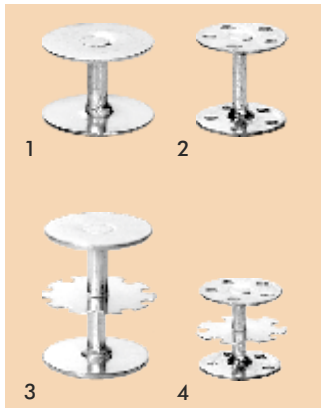
Rod studs, Fig. 5

Rod Ø (mm)	Plate (mm)
6	50 x 25 x 1.5
8	80 x 40 x 2.0
10	80 x 40 x 2.0
12	85 x 45 x 2.0
15	100 x 60 x 3.0
18	120 x 70 x 3.0
20	150 x 80 x 3.0



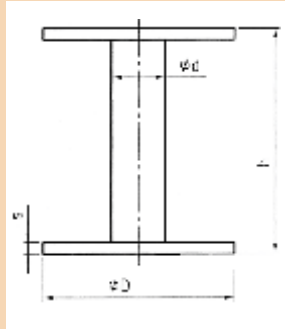
Diabolo studs, Fig. 6

Rated size Ø x h (mm)	d1 (mm)	d2 (mm)	h (mm)	s (mm)	r (mm)
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Box studs (1 web, without welded plate), Fig. 1 and 2

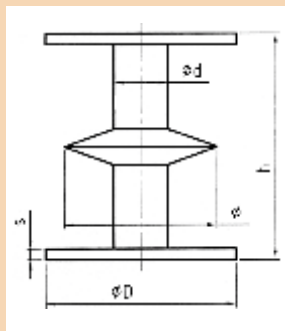
Plate \varnothing D x s (mm)	Web \varnothing d (mm)	Height h (mm)	Minimum order quantity (piece)
10 x 0.4	1.6 2.5	6-20	1000
14 x 0.5	2.5	6-20	1000
15 x 1.0	3.0 3.5 4.0	8-20 10-25 10-25	1000
20 x 1.0	4.0 5.0	10-25	500
25 x 1.0	5.0 6.0	10-30 12-30	500



5

Box studs (1 web, with welded plate), Fig. 3 and 4

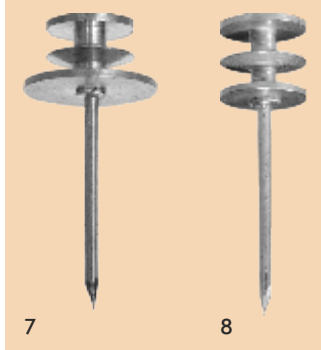
Plate \varnothing D x s (mm)	Web \varnothing d (mm)	Welding plate \varnothing E x s (mm)	Height h (mm)	Minimum order quantity (piece)
10 x 0.4	1.6 2.5	11 x 0.3	6-20	1000
14 x 0.5	2.5	16 x 0.3	6-20	1000
15 x 1.0	3.0 3.5 4.0	16 x 0.3	8-20 10-25 10-25	1000
20 x 1.0	4.0 5.0	23 x 0.5	10-25	500
25 x 1.0	5.0 6.0	23 x 0.5	10-30 12-30	500



6

Box studs (1 web, with or without welded plate, twisted), Fig. 5 and 6

Plate \varnothing D (mm)	Web \varnothing d (mm)	Height h (mm)	Plate thickness s (mm)	Welding plate \varnothing E (mm)
8-40	1.6-30	3-100	0.5-5	\leq plate



7

8

Box studs (1 web, with welded plate, twisted), Fig. 7 and 8

Plate top \varnothing D1 (mm)	Plate bottom \varnothing D2 (mm)	Web \varnothing d (mm)	Plate thickness s (mm)	Welding plate \varnothing E (mm)
5-15	10-20	3-6	0.5-2	6-15

D = \varnothing plate; d = \varnothing web; s = plate thickness; E = \varnothing welding plate; h = height



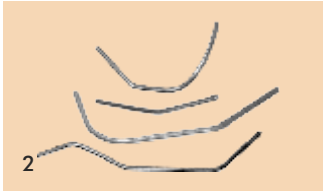
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Core nails, Fig. 1

Designs	Length (mm)
form 11 tinned	40-220
rectangular, cylindrically pressed	25-320
round	25-320



Core stabilising wires, Fig. 2

Wire thickness \varnothing (mm)	Length (mm)
1-3	max. 320

Designs: - bending options on 2 and 3



Molder's pins, Fig. 3

Wire thickness \varnothing (mm)	Length (mm)
1-8	≤ 320 = standard product > 320 = special product

Designs: - head form: without (standard), forged, bent | - tip: Chisel tip (standard), nail tip, smooth body | shaft: smooth (standard), notched or ribbed
- surface: uncoated (standard), tinned, coppered



Wire sections, Fig. 4

Wire thickness \varnothing (mm)	Length (mm)
1-6	max. 1000



Downsprue plates (round), Fig. 5

\varnothing (mm)	Plate (mm)
10-150	0.2-3

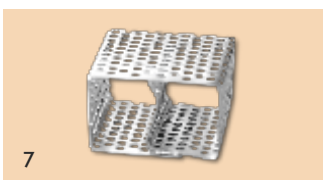
Designs: - standard: tinned
- with or without holes



Core plates (angular), Fig. 6

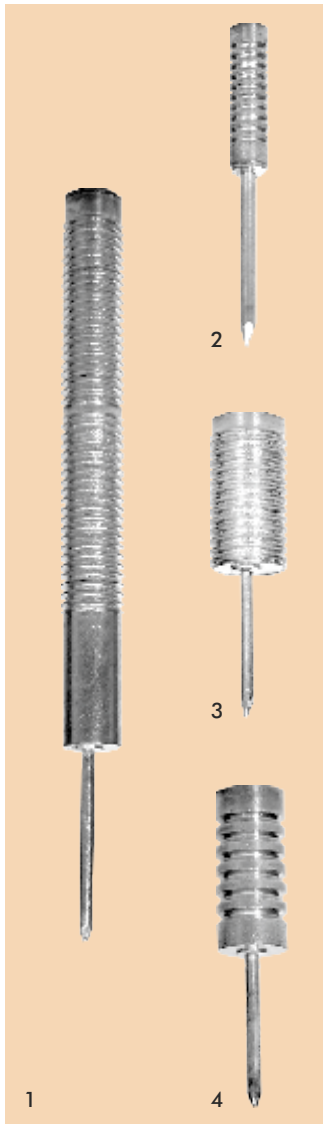
Rectangular (mm)	Plate (mm)
30 x 15	1.0
50 x 25	1.0 2.0
60 x 30	1.0 1.5 2.0
80 x 40	1.0 1.5 2.0
100 x 50	2.0
100 x 60	2.0 3.0

Quadratic (mm)	Plate (mm)
25 x 25	1.0 2.0
30 x 30	1.0 1.5 2.0
40 x 40	1.0 1.5



Wall thickness - studs, Fig. 7

Dimensions on request.



Cooling nails , Fig. 1, 2, 3 and 4

Dimensions (mm)	
Ø	Length
5	10- 35
6	10- 35
8	15- 80
10	15-100
12	15-100
15	20-100
18	30-100
20	30-100
25	50-150
30	50-150
40	50-150

Designs: - tip designed to suit the cooling nail size



Cooling studs, Fig. 5

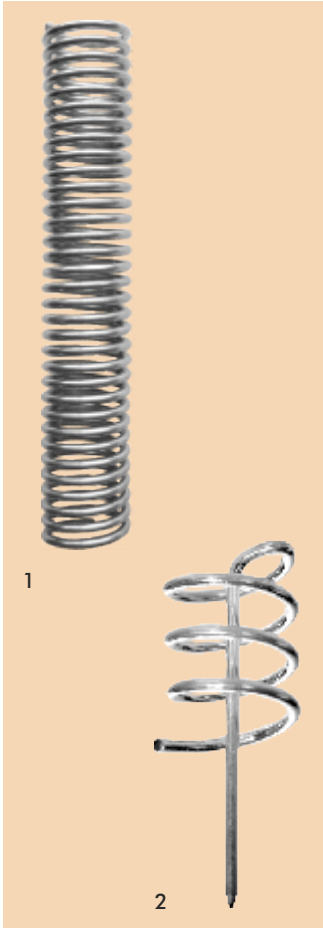
Ø (mm)	Length (mm)
5	10- 30
6	10- 30
8	15- 80
10	15-100
12	15-100
15	20-100
18	30-100
20	30-100
25	30-100
30	30-100
40	30-100



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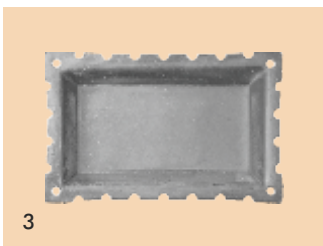


Cooling springs, Fig. 1

Dimensions (mm) ∅ spring x wire ∅	Rise (mm)
10.0 x 1.0	5.0
15.0 x 2.5	9.0
20.0 x 2.5	9.0
25.0 x 2.0	7.5
30.0 x 3.0	7.5
40.0 x 3.0	10.0

Cooling springs (with a tip running through the centre), Fig. 2

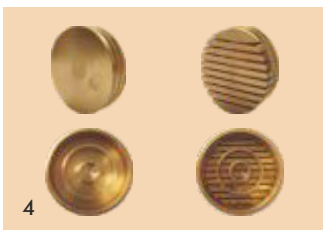
Dimensions (mm) ∅ spring x wire ∅	Rise (mm)	max. length (mm)	Tip length based on body length (mm)
8.0 x 1.0	5.0	35	25
10.0 x 1.0	5.0	15	25
15.0 x 1.5	5.0	30	25
15.0 x 2.0	6.0	20	30
15.0 x 2.0	7.0	20	30
20.0 x 1.0	5.0	30	25
20.0 x 1.5	5.0	20	25
20.0 x 2.0	5.0	40	25
25.0 x 2.5	5.5	20	25
25.0 x 3.0	7.0	20	25
30.0 x 3.5	7.0	30	40
60.0 x 2.0	5.0	95	30



Tablets (tinned), Fig. 3

Dimensions (mm)	Sheet thickness (mm)
50 x 25	1.0
60 x 30	1.0
80 x 40	1.0

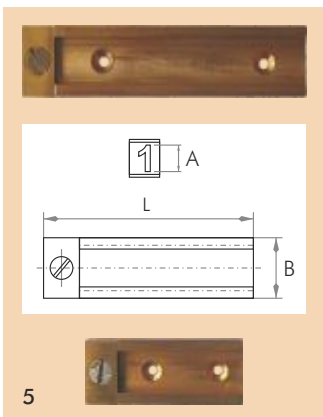
Other dimensions on request.



Slot type nozzles, Fig. 4

Dimensions ∅ (mm)	Slit width straight (mm)	Slit width conical (mm)
3.0-30.0	0.2-0.5	0.2 and 0.3

Designs:
- steel, brass
- from diameter 10 mm with reinforcement ring

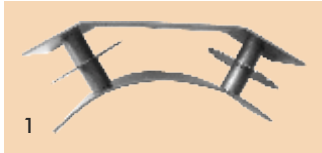


Date plates, Fig. 5

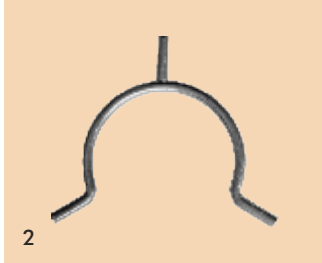
Lettering height A (mm)	4	6	8	10	13	20
Frame width B (mm)	10	15	20	20	25	30
Number of characters	Length L (mm)					
4	26.0	34.0	42.0	48.0	58.0	92.0
5	30.0	40.0	50.0	57.5	69.5	110.0
6	34.0	46.0	58.0	67.0	81.0	128.0
7	38.0	52.0	66.0	76.5	92.5	146.0
8	42.0	58.0	74.0	86.0	104.0	164.0
10	50.0	70.0	90.0	105.0	127.0	200.0

Special products

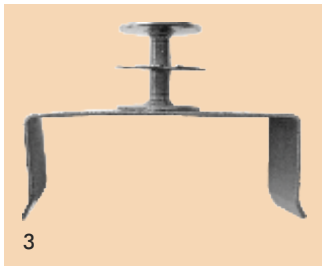
Studs (curved), Fig. 1



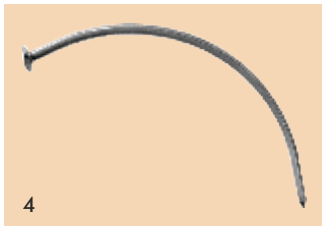
Y and Ω-studs, Fig. 2



Clamp studs, Fig. 3



Core nails (curved), Fig. 4



Sleeve and studs for core and mould box, Fig. 5 and 6



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