

Product range

1. Construction nails GOST¹⁾ 4028-63.
2. Round clout nails GOST 4029-63.
3. Roofing nails GOST 4030-63.
4. Container-making round nails GOST 4034-63.
5. Twisted square shanked nails TU²⁾ 14-4-1161-2003.
6. Profiled wire nails TU 14-178-241-2004.
7. Extra-large flat-head nails TU 14-178-259-2004.
8. Duplex-head nails TU 14-178-301-97.
9. Flat-head round nails DIN 1151 form A.
10. Countersunk-head round nails
DIN 1151 form B.
11. Lost-head round nails DIN 1152.
12. Extra-large-head round nails (clout nails
for gypsum board fixing) DIN 1160
13. Finishing nails FF-N-105B
14. Round moulding pins GOST 4035-63
15. Round nails TU 14-178-326-2004
16. Hot-dip galvanized nails TU 14-178-357-2003

General information

Round and profiled wire nails are manufactured on domestic and foreign nail-making machines using cold forming technique.

Wire mechanical properties meet the requirements for non-heat-treated wire GOST 3282-74.

Specifications for the nails satisfy GOST 283-75.

Nails are bright, without coating, or zinc-coated. Prior to packing into cardboard containers, nails without coating can be de-oiled by rumbling according to the customer's demand. Depending on dimension and type, the nails are packed into different containers (Table 1).



Nails packaging

Table 1.

Package type	External dimensions, mm	Capacity, kg
Octahedral deca-layer corrugated cardboard container	1180×780×950	up to 1000
Polypropylene container MKP-1.5	1100×700×(850–1150)	up to 1000
Wooden box	468×302×252	up to 50
Corrugated cardboard box	298×263×184	25
Corrugated cardboard box	398×239×69	10
Corrugated cardboard box	158×148×130 238×158×90 398×117×69	5
Corrugated cardboard box	155×146×94	3
Corrugated cardboard box	158×148×75	2.5
Corrugated cardboard box	135×75×51	1

The boxes are stacked on wooden pallets where they are combined into shipping packages with dimensions of 800×1200 mm and a height not exceeding 1100 mm. The packages are wrapped with a “Stretch” tape. The packages may be stacked in two levels for transportation with wooden panels being used for package strengthening.



¹⁾ TU = Technical Specification

²⁾ GOST = Russian State Standard

Construction nails

GOST¹⁾ 4028-63

Application area:

Construction nails are suitable for wooden parts and construction fastening.

Description:

Round nails with flat- or tapered head. Flat-head surface is plain. Tapered head surface is corrugated.

Gauge and geometrics are given in Table 2.

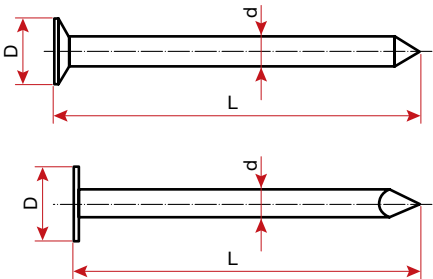


Table 2.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approx. weight per 1000 nails, kg
Flat head nails			
1.2	16	2.4	0.147
	20		0.183
	25		0.219
1.4	25	2.8	0.302
	32		0.385
	40		0.482
1.6	25	3.2	0.397
	40		0.633
	50		0.791

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approx. weight per 1000 nails, kg
Tapered head nails			
1.8	32	3.5	0.640
	40		0.787
	50		0.967
	60		1.160
2.0	40	4.0	0.949
	50		1.190
2.5	50	5.0	1.870
	60		2.230
3.0	70	6.0	3.770
	80		4.330
3.5	90	7.0	6.600
4.0	100	7.5	9.500
	120		11.500
5.0	120	9.0	17.800
	150		21.900
6.0	150	11.0	32.400
	200		43.100
8.0	250	14.0	96.200

¹⁾ GOST = Russian State Standard

Round clout nails

GOST¹⁾ 4029-63

Application area:

Clout nails are suitable to fasten soft sheet materials (roofing felt, ruberoid, etc.).

Description:

Round nails with flat head. Head surface is plain.

Gauge and geometrics are given in Table 3.

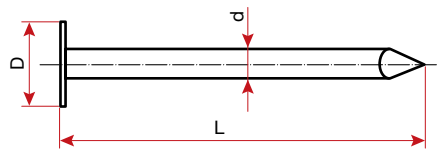


Table 3.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
2.0	20	5.0	0.482
	25		0.605
2.5	32	6.3	1.220
	40		1.520
3.0	40	7.5	2.230

¹⁾ GOST = Russian State Standard

Roofing nails

GOST¹⁾ 4030-63

Application area:

Roofing nails are suitable for metallic plates fastening against wooden parts and constructions.

Description:

Round nails with tapered head. Head surface is corrugated.

Gauge and geometrics are given in Table 4.

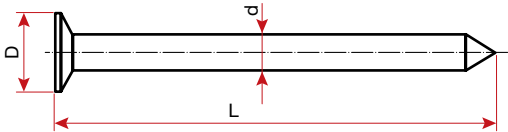


Table 4.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
3.5	40	8.0	2.670

¹⁾ GOST = Russian State Standard

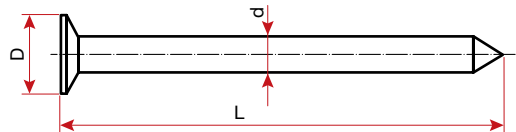
Container-making round nails

GOST¹⁾ 4034-63

Application area:

Container-making nails are suitable for manufacture of wooden boxes and containers, with or without nailing machines.

Extra large head size even makes the nails suitable for cardboard fixing at box factories and furniture plants.



Description:

Round nails with tapered head.

Gauge and geometrics are given in Table 5.

Table 5.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
2.0	40	5.0	0.970
	45		1.120
2.2	50	5.5	1.490
2.5	50	6.0	1.910
	60		2.280
3.0	70	6.5	3.810
	80		4.360

¹⁾ GOST = Russian State Standard

Twisted square shanked nails

TU¹⁾ 14-4-1161-2003

Application area:

Twisted square shanked nails are suitable for fastening of wooden euro box pallets and containers, battens and other wooden constructions where a high strength is required of the joined parts.

Description:

The nails are made from twisted square steel wire. Head surface is plain or corrugated.

Gauge and geometrics are given in Table 6.

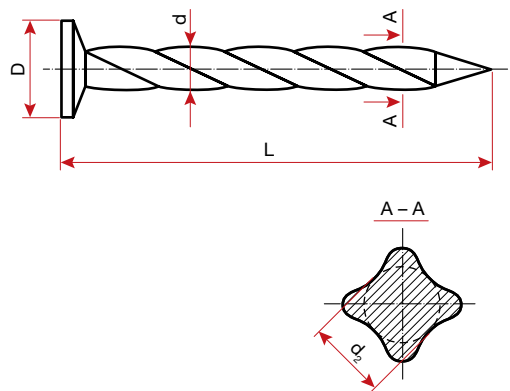


Table 6.

Shank diameter by circumscribing circle d1, mm	Shank diameter by inscribed circle d2, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
3.5	2.8	40	6	2.431
		45		2.739
		60		3.662
		70		4.278
		80		4.893
		90		5.508
4.5	3.8	90	7	10.070
		100		11.203
		120		13.471

¹⁾ TU = Technical Specification

Profiled wire nails

TU¹⁾ 14-178-241-2004

The following profiled wire nails are manufactured:

- wire nails with triangular quadrilateral incision on the shank;
- wire nails with rectangular quadrilateral incision on the shank.

Head end surface is corrugated.

Nails with triangular incision

Application area:

The drawing force of profiled nails with a triangular quadrilateral incision on the shank is 2–3 times as much as the drawing force of round nails. Profiled nails are suitable for one-piece constructions where high tensile strength is required. Nail design is given on the drawing.

Basic geometrics are given in Table 7.

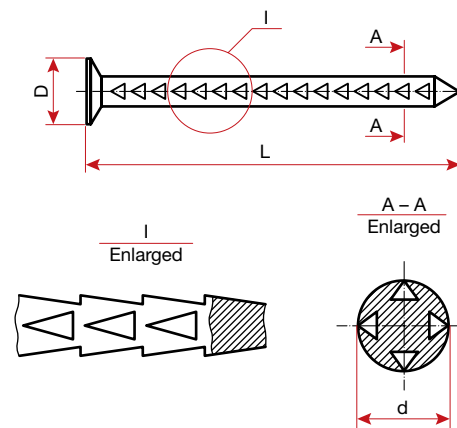


Table 7.

Shank diameter d , mm	Nail length L , mm	Head diameter D , mm, not less than	Approximate weight per 1000 nails, kg
3.0	70 80	5.5	3.506 4.027
3.5	90	6.5	6.138
4.0	100 120	7.0	8.835 10.695
5.0	120 150	8.5	16.554 20.367
6.0	150 200	10.5	30.132 40.083

¹⁾ TU = Technical Specification

Nails with rectangular quadrilateral incision

Application area:

The drawing force of profiled nails with a rectangular quadrilateral incision on the shank is 2–3 times as much as the drawing force of round nails. Profiled nails are suitable for one-piece constructions where high tensile strength is required. Nail design is given on the drawing.

Basic geometrics are given in Table 8.

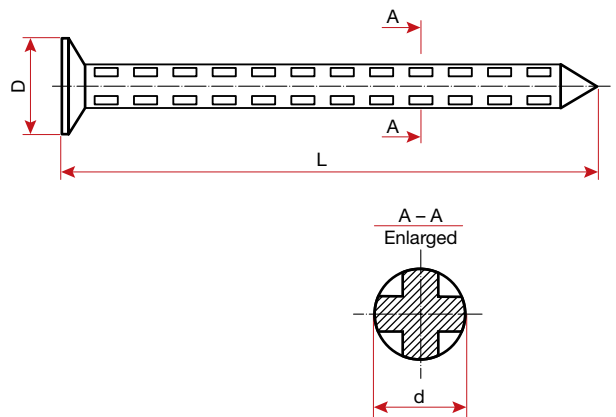


Table 8.

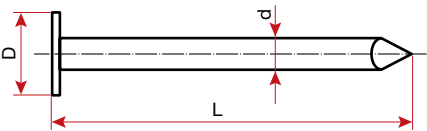
Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
4.2	45	8.0	4.790
	65		6.964
	80		8.595
	90		9.682
	100		10.769
4.6	80	8.5	10.298
	90		11.590
5.5	60	10.7	11.064
	80		14.774
	90		16.638
	100		18.502
	120		22.230
6.0	80	11	17.397
	100		21.834
	120		26.271

Extra-large flat-head nails

TU¹⁾ 14-178-259-2004 (analogue of DIN 1160)

Application area:

The nails are suitable for roofing works, for low-density and for fastening thin materials (soft sheets, card-boards, fibreboards, plasterboards, etc.) against solid surfaces.



Description:

Round nails with plain flat head. Nails of two forms are manufactured:

- form A** – the head diameter is 3 times bigger than the shank diameter;
- form B** – the head diameter is 4 times bigger than the shank diameter.

Gauge and geometrics are given in Table 9.

Table 9.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
Form A (head diameter ~ 3d)			
2.5	25	7.0–8.0	1.083
2.8	35	8.0–9.0	1.841
4.0	100	11.5–12.5	10.560
	120		12.540
Form B (head diameter ~ 4d)			
2.5	25	9.0–10.0	1.241
2.8	25	10.0–11.0	1.535
	30		1.777
	35		2.018
	40		2.260
	50		2.740

¹⁾ TU = Technical Specification

Duplex-head nails

TU¹⁾ 14-178-301-97

Application area:

The nails with two heads are suitable for temporary wooden constructions.

Gauge and geometrics are given in Table 10.

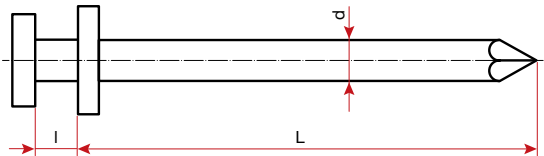


Table 10.

Shank diameter d, mm	Nail length L, mm	Interval between heads l, mm	Approximate weight per 1000 nails, kg
2.8	55	11.0	3.283
3.1	55		4.048
	60		4.344
	65		4.640
	70		4.936
	75		5.232
3.4	80		6.665

¹⁾ TU = Technical Specification

Flat-head round nails

DIN 1151 form A

Application area:

The nails are suitable for fastening wooden parts and constructions.

Description:

Round nails with flat head. Head surface is plain.

Gauge and geometrics are given in Table 11.

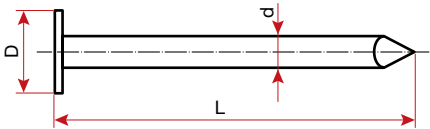


Table 11.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
1.2	20	2.4	0.187
1.4	25	2.8	0.317
1.6	30	3.2	0.495

Countersunk-head round nails

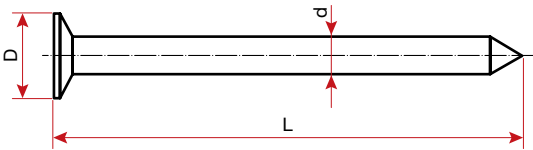
DIN 1151 form B

Application area:

The nails are suitable for fastening wooden parts and constructions.

Description:

Round nails with tapered head. Head surface is corrugated.



Gauge and geometrics are given in Table 12.

Table 12.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
1.8	35	3.6	0.704
2.0	40	4.0	0.989
2.2	45	4.4	1.311
	50		1.490
2.5	50	5.0	1.916
	60		2.302
2.8	65	5.6	3.162
3.1	65	6.2	3.933
	70		4.195
	80		4.787
3.4	80	6.8	5.744
	90		6.456
3.8	100	7.6	8.930
4.2	100	7.9	10.801
	110		11.888
	120		12.975
4.6	130	8.8	16.853
5.5	140	10.5	26.075
	160		29.803
6.0	180	11.5	39.837
7.0	210	13.6	63.131
7.6	230	14.9	81.908
	260		92.626
8.8	260	17.4	123.874

Lost-head round nails

DIN 1152

Application area:

The nails are suitable for finishing works.

Description:

Flat head with plain surface.

Gauge and geometrics are given in Table 13.

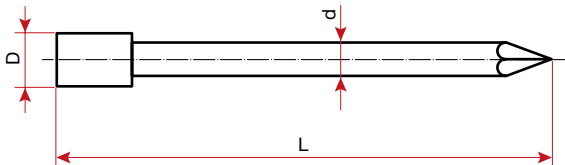


Table 13.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
2.0	40	2.8	0.987
2.2	45	3.1	1.340
	50		1.490
	55		1.639
2.5	55	3.5	2.298
	60		2.490
2.8	65	4.0	3.850
3.1	80	4.4	4.705
3.4	90	4.8	6.356
3.8	100	5.3	8.794

Finishing nails with corrugated (Sinker) or plain (Deck) tapered head

FF-N-105B

Description:

Round nails with tapered head. Head surface is corrugated on Sinker nails and plain on Deck nails.

Gauge and geometrics are given in Table 14.

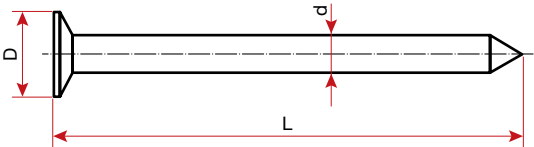


Table 14.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
2.4	47.6	6.0	2.049
2.9	60.3	6.8	3.549
3.1	73.0	7.1	4.767
3.4	79.4	8.0	6.256
3.8	82.6	8.7	8.055

Common nails

FF-N-105B

Application area:

The nails are suitable for fastening wooden parts and constructions.

Description:

Round nails with flat head. Head surface is plain.

Gauge and geometrics are given in Table 15.

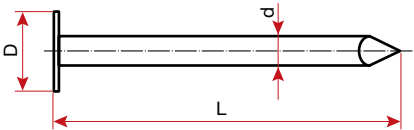


Table 15.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
1.8	25.4	4.4	0.557
2.0	31.7	5.2	0.867
2.5	38.1 44.5	6.3	1.599 1.845
2.9	50.8 57.2	6.7	2.768 3.100
3.3	63.5	7.1	4.422
3.8	76.2 82.6	7.9	7.023 7.593
4.1	88.9	8.7	9.610
4.9	101.6	10.3	15.614
5.3	114.3	11.1	20.154
5.7	127.0	11.9	26.336
6.2	139.7	12.7	34.113
6.7	152.4	13.5	43.343

Round moulding pins

GOST¹⁾ 4035-63

Description:

Round nails.

Geometries are given in Table 16.

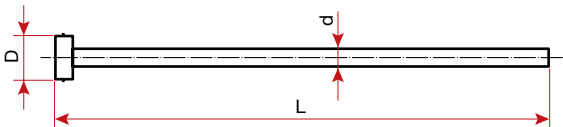


Table 16.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
2.0	120	3.2	2.927

¹⁾ GOST = Russian State Standard

Round nails

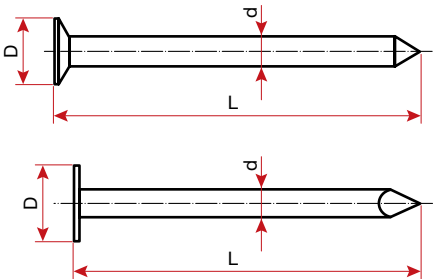
TU¹⁾ 14-178-326-2004

Application area:

The nails are suitable for fastening wooden parts and constructions.

Description:

Round nails with tapered or flat head. Tapered head surface may be plain or corrugated. Flat head surface is plain.



Gauge and geometries of tapered head nails are given in Table 17.

Table 17.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
1.8	30	3.6	0.592
	35*		0.691
	40*		0.791
	45		0.891
2.0	30	4.0	0.729
	35		0.853
	40*		0.976
	45		1.099
2.2	35	4.4	1.030
	40		1.179
	45*		1.329
	50*		1.478
	55		1.627
2.4	40	4.8	1.402
	45		1.580
	5		1.757
	55		1.935
2.5	45	5.0	1.713
	50*		1.906
	55		2.098
	60*		2.291
2.65	50	5.3	2.164
	65		2.813

Table 17 continues on the next page ►

¹⁾ TU = Technical Specification

Table 17.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
2.7	27	5.4	1.213
	40		1.797
	45		2.022
	50		2.247
	55		2.471
	60		2.696
	65		2.920
2.8	50	5.6	2.412
	55		2.654
	60		2.895
	65*		3.137
	70		3.378
3.0	50	6.0	2.768
	55		3.045
	60		3.323
	65		3.600
	70*		3.877
	80*		4.432
3.35	65	6.7	4.465
3.4	65	6.8	4.598
3.5	50	7.0	3.740
	55		4.117
	60		4.495
	65		4.872
	70		5.249
	80		6.004
3.75	75	7.1	6.412
3.8	65	7.1	5.694
	75		6.583
	80		7.028
	90		7.918
4.0	90	7.5	8.778
	100*		9.764
4.5	100	8.5	12.342
4.6	110	8.5	14.198
	120		15.502
	140		18.110
	145		18.761
5.0	55	9.3	8.286
	110		16.759
	125		19.070
	140		21.381
	150*		22.922

Table 17 continues on the next page ►

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
5.5	110 125 140* 145 150 180	10.7	20.256 23.053 25.849 26.781 27.713 33.305
6.0	140 150* 160 180* 200*	11.0	30.708 32.926 35.144 39.581 44.018
6.5	160 180 200	11.9	41.203 46.410 51.617
7.0	200 220 260	12.8	59.724 65.763 77.841
7.6	200 250 280 290	13.9	70.334 88.131 98.809 102.368
8.0	260 290 300	14.0	101.311 113.143 117.087
8.8	280 290 300 310 360 380 400	15.4	131.982 136.754 141.526 146.298 170.159 179.703 189.247

**) Note: nails are manufactured only with plain head.*

Gauge and geometries of tapered head nails are given in Table 18.

Table 18.

Shank diameter d, mm	Nail length L, mm	Head diameter D, mm, not less than	Approximate weight per 1000 nails, kg
1.2	15	2.4	0.134
1.6	32	3.2	0.505

Hot-dip galvanized nails

TU¹⁾ 14-178-357-2003

Application area:

The nails are suitable for fastening wooden parts and constructions. Corrosion-resistant.

Description:

Zinc-coated nails, the blanks being nails with a dimension range from (2.0×40) mm to (7.6×230) mm to DIN 1151, GOST²⁾ 4028-63, TU 14-178-326-2004, TU 14-178-241-2004; or nails with a dimension range from (2.0×20) mm to (2.8×40) mm to TU 14-178-259-2004.

¹⁾ TU = Technical Specification

²⁾ GOST = Russian State Standard