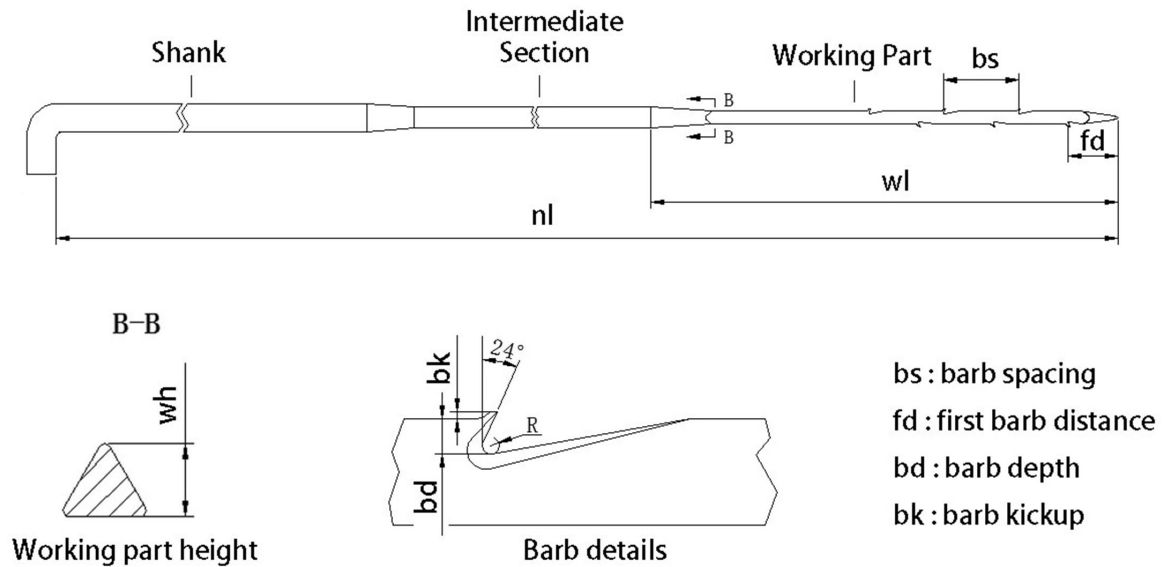


Standard Triangular Needle Ordering Code



Needle Code: 15X18X32X3.5 R333 D1325

Code	Description	Value
15	Shank diameter	15G=1.83mm
18	Intermediate section diameter	18G=1.20mm
32	Working part height (wh)	32G=0.70mm
3.5	Needle length (nl)	3.5 inch=88.9mm
R	Barb spacing (bs)	R=6.36mm
3	Barb quantity on the 1st edge	3 barbs
3	Barb quantity on the 2nd edge	3 barbs
3	Barb quantity on the 3rd edge	3 barbs
D	Manufacturer Brand	Doer
1	Barb style	style 1
3	First barb distance (fd)	6.36mm
2	Barb depth (bd)	0.12mm
5	Barb kickup (bk)	0.05mm

Standard Triangular Needle List (3.0 inch)

The standard triangular needles are basic felting needles. They are suitable for all felting applications. The working part cross-section is an equilateral triangle. The barb dimensions are identical across all edges. The gauge could be from 18G to 46G.

Usually 3.5 inch are for Pre-punching (or called as pre-needling). The 3.0 inch are for main-punching (or called as intermediate needling). The 42Gauge at 3.0 inch are very popular for Finish-needling.

No.	Item No.	Needle Category	fd (mm)	bd (mm)	bk (mm)
1	15X17X25X3 R333 D1308	Standard Triangular, 3.0 inch	6.36	0.2	0.08
2	15X18X32X3 R333 D1345	Standard Triangular, 3.0 inch	6.36	0.14	0.05
3	15X18X32X3 R222 D3112	Standard Triangular, 3.0 inch	3.18	0.11	0.01
4	15X18X36X3 R333 D1307	Standard Triangular, 3.0 inch	6.36	0.1	0.035
5	15X18X36X3 R333 D2303	Standard Triangular, 3.0 inch	6.36	0.1	0.015
6	15X18X36X3 R222 D3304	Standard Triangular, 3.0 inch	6.36	0.1	0.02
7	15X18X36X3 R222 D3182	Standard Triangular, 3.0 inch	3.18	0.08	0.01
8	15X18X36X3 R222 D3171	Standard Triangular, 3.0 inch	3.18	0.07	0.005
9	15X18X36X3 M333 D2195	Standard Triangular, 3.0 inch	3.18	0.09	0.025
10	15X18X36X3 M222 D3263	Standard Triangular, 3.0 inch	4.8	0.06	0.015
11	15X18X38X3 R333 D1318	Standard Triangular, 3.0 inch	6.36	0.11	0.04
12	15X18X38X3 R222 D2163	Standard Triangular, 3.0 inch	3.18	0.06	0.015
13	15X18X38X3 R222 D3161	Standard Triangular, 3.0 inch	3.18	0.06	0.05
14	15X18X38X3 R222 D3172	Standard Triangular, 3.0 inch	3.18	0.07	0.01
15	15X18X38X3 R222 D3175	Standard Triangular, 3.0 inch	3.18	0.07	0.025
16	15X18X38X3 M333 D2182	Standard Triangular, 3.0 inch	3.18	0.08	0.01
17	15X18X38X3 M222 D2283	Standard Triangular, 3.0 inch	4.8	0.08	0.015
18	15X18X38X3 M222 D3183	Standard Triangular, 3.0 inch	3.18	0.08	0.015

Standard Triangular Needle List (3.0 inch)

No.	Item No.	Needle Category	fd (mm)	bd (mm)	bk (mm)
19	15X18X38X3 C333 D3141	Standard Triangular, 3.0 inch	3.18	0.04	0.005
20	15X18X38X3 C222 D2172	Standard Triangular, 3.0 inch	3.18	0.07	0.01
21	15X18X40X3 R222 D3162	Standard Triangular, 3.0 inch	3.18	0.06	0.01
22	15X18X40X3 R222 D3140	Standard Triangular, 3.0 inch	3.18	0.04	0
23	15X18X40X3 R222 D2162	Standard Triangular, 3.0 inch	3.18	0.06	0.01
24	15X18X40X3 M222 D3162	Standard Triangular, 3.0 inch	3.18	0.06	0.01
25	15X18X40X3 M222 D2173	Standard Triangular, 3.0 inch	3.18	0.07	0.015
26	15X18X40X3 C333 D2172	Standard Triangular, 3.0 inch	3.18	0.07	0.01
27	15X18X40X3 C222 D3151	Standard Triangular, 3.0 inch	3.18	0.05	0.005
28	15X18X40X3 C222 D3173	Standard Triangular, 3.0 inch	3.18	0.07	0.015
29	15X18X42X3 R222 D3152	Standard Triangular, 3.0 inch	3.18	0.05	0.01
30	15X18X42X3 R111 D3142	Standard Triangular, 3.0 inch	3.18	0.04	0.01
31	15X18X42X3 R111 D3141	Standard Triangular, 3.0 inch	3.18	0.04	0.005
32	15X18X42X3 M222 D3152	Standard Triangular, 3.0 inch	3.18	0.05	0.01
33	15X18X42X3 C222 D3152	Standard Triangular, 3.0 inch	3.18	0.05	0.01

Standard Triangular Needle List (3.5 inch)

No.	Item No.	Needle Category	fd (mm)	bd (mm)	bk (mm)
1	15X16X22X3.5 M333 D4274	Standard Triangular, 3.5 inch	4.8	0.17	0.14
2	15X16X23X3.5 M333 D2159	Standard Triangular, 3.5 inch	3.18	0.15	0.09
3	15X16X23X3.5 M333 D2175	Standard Triangular, 3.5 inch	3.18	0.17	0.05
4	15X18X25X3.5 R333 D1308	Standard Triangular, 3.5 inch	6.36	0.2	0.08
5	15X18X32X3.5 R333 D1325	Standard Triangular, 3.5 inch	6.36	0.12	0.05
6	15X18X32X3.5 R333 D1225	Standard Triangular, 3.5 inch	4.8	0.12	0.025
7	15X18X32X3.5 R333 D3103	Standard Triangular, 3.5 inch	3.18	0.1	0.015
8	15X18X32X3.5 R333 D3343	Standard Triangular, 3.5 inch	6.36	0.14	0.015
9	15X18X32X3.5 M333 D1229	Standard Triangular, 3.5 inch	6.36	0.14	0.015
10	15X18X32X3.5 C333 D1317	Standard Triangular, 3.5 inch	6.36	0.11	0.035
11	15X18X36X3.5 R333 D1328	Standard Triangular, 3.5 inch	6.36	0.12	0.01
12	15X18X36X3.5 R333 D1196	Standard Triangular, 3.5 inch	3.18	0.09	0.03
13	15X18X36X3.5 R333 D2112	Standard Triangular, 3.5 inch	3.18	0.11	0.01
14	15X18X36X3.5 R333 D3312	Standard Triangular, 3.5 inch	6.36	0.11	0.01
15	15X18X36X3.5 R333 D3183	Standard Triangular, 3.5 inch	3.18	0.08	0.015
16	15X18X36X3.5 R333 D3383	Standard Triangular, 3.5 inch	6.36	0.08	0.015
17	15X18X36X3.5 R222 D2192	Standard Triangular, 3.5 inch	3.18	0.09	0.01
18	15X16X36X3.5 R222 D3272	Standard Triangular, 3.5 inch	4.8	0.07	0.01
19	15X18X36X3.5 R222 D3384	Standard Triangular, 3.5 inch	6.36	0.08	0.02
20	15X18X36X3.5 R222 D3184	Standard Triangular, 3.5 inch	3.18	0.08	0.02
21	15X18X38X3.5 R333 D2382	Standard Triangular, 3.5 inch	6.36	0.08	0.01
22	15X18X38X3.5 R333 D2182	Standard Triangular, 3.5 inch	3.18	0.08	0.01
23	15X18X38X3.5 R222 D3161	Standard Triangular, 3.5 inch	3.18	0.06	0.005

Standard Triangular Needle List (3.5 inch)

No.	Item No.	Needle Category	fd (mm)	bd (mm)	bk (mm)
24	15X18X38X3.5 R222 D3172	Standard Triangular, 3.5 inch	3.18	0.07	0.01
25	15X18X38X3.5 M222 D3262	Standard Triangular, 3.5 inch	4.8	0.06	0.01
26	15X18X42X3.5 R333 D1385	Standard Triangular, 3.5 inch	6.36	0.08	0.025
27	15X18X40X3.5 C333 D3363	Standard Triangular, 3.5 inch	6.36	0.06	0.015