PINGXIANG HUSHENG RUBBER PRODUCTS CO.,LTD

Type D Belt — Specification & Complete Size Chart

Wrapped Classical V-Belt · Conforms to ISO 4184 · Shusheng Brand

Shusheng

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CONTENTS

[1]
1. Type D Belt Overview

[2]
2. Belt Marking & Code Meaning

[3]
3. Technical Specifications

[4]
4. Complete Type D Size Chart

[5]
5. Materials & Construction

[6]
6. Contact & Ordering Information

Type D Belt — Specification, Materials & Complete Size Chart

1. Type D Belt Overview

The heavy-duty classical section for continuous high-load drives.

The Type D belt is a heavy-duty classical V-belt section: a **32 mm (1-1/4 inch) top width**, a **19 mm section height** and a **40° included wedge angle**. It is the section that carries large jaw crushers, sand makers, vibrating screens and conveying lines where the load is high and the drive runs all day.

Every Type D belt in this catalogue is manufactured to conform to the ISO 4184 standard for classical V-belt drives. The body is a premium natural rubber compound with high-tenacity polyester tension cords and a square-woven wrapped fabric jacket, moulded to datum length so that every belt in a multi-belt drive carries an equal share of the load.

This document keeps to the four things a buyer needs: how to read the D belt code (section 2), the complete technical specification (section 3), the materials and construction (section 5), and the full size list from **D-110** to **D-700** (section 4). Contact and ordering information follows.



Figure 1: A wrapped Type D classical V-belt set — 32 mm top width, 19 mm section height — with the moulded belt code on the wrapped fabric cover.

2. Belt Marking & Code Meaning

How the section, the dimensions and the code on the belt are read.

2.1 Section dimensions

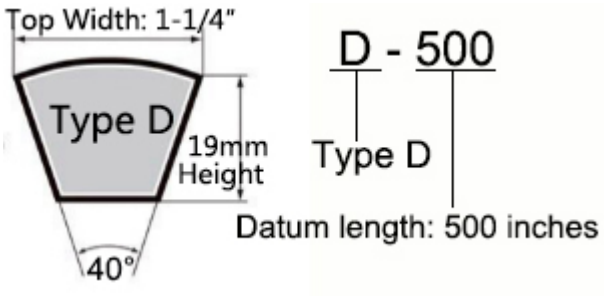


Figure 2: Type D belt cross-section showing the 1-1/4 inch (32 mm) top width, the 19 mm section height and the 40° wedge angle, together with the code naming convention (D-500 = Type D, datum length 500 inches).

2.2 What the code means

A Type D belt code is the section prefix **D** followed by the **datum length in inches**. The code **D-500** therefore means a Type D classical V-belt with a datum length of **500 inches (12,700 mm)**. In the same way, the shortest belt in this catalogue, **D-110**, has a datum length of 110 inches (2,794 mm), and the longest, **D-700**, has a datum length of 700 inches (17,780 mm).

The number is the datum length — measured at the cord line in accordance with ISO 4184 — not the outside circumference. Every figure in the size chart is rounded to the nearest whole millimetre, in line with the catalogue's rounding rule.

2.3 Marking on the belt

Each belt is moulded with the section prefix, the datum-length code and a production code on the wrapped cover, together with the anti-static, oil-resistant and heat-resistant class markings. A belt that has been in service can therefore be identified and re-ordered without measuring the drive.

2.4 Matched sets

Drives that run more than one belt should be ordered as a matched set. Moulded-to-datum-length belts share the load evenly, whereas one new belt beside worn belts runs tight, takes almost all the tension and fails early — so replace the full set together.

3. Technical Specifications

The values below are the same for every size in the range, from the shortest D-110 to the longest D-700.

Table 1 Type D Belt — Technical Specifications

Property	Specification
Profile / Section	Type D wrapped classical V-belt
Top Width	32 mm (1-1/4 inch)
Section Height	19 mm
Wedge Angle	40° (included)
Pulley Groove	40° included angle; groove dimensions conform to ISO 4184
Body Compound	Premium natural rubber, fibre-reinforced
Tension Member	High-tenacity polyester cord, pre-tensioned
Outer Cover	Square-woven wrapped fabric jacket (cotton-polyester, rubber-impregnated)
Standard	Conforms to ISO 4184 (classical V-belts, D profile)
Transmission Efficiency	95%+
Maximum Belt Speed	30 m/s
Operating Temperature	−30 °C to +70 °C
Resistance	Anti-static, abrasion, dust and oil mist resistant
Datum Length Range	D-110 to D-700 — 110″ – 700″ (2,794 mm – 17,780 mm)
Minimum Order Quantity	20 pcs per size
Standard Delivery	15–20 days from order confirmation
Indicative Price Range	US$37.79 – US$253.22 per piece (varies by size and quantity)

In plain terms, the Type D belt has a 32 mm (1-1/4 inch) top width, a 19 mm section height and a 40° wedge, and runs at up to 30 m/s between −30 °C and +70 °C.

3.1 Reading a Type D belt code

Three worked examples show how a code maps to the dimensions. **D-110** has a datum length of 110 inches (2,794 mm), **D-500** has a datum length of 500 inches (12,700 mm), and **D-700** has a datum length of 700 inches (17,780 mm); every Type D belt shares the same 32 mm top width and 19 mm section height.

Table 2 Worked examples — how a Type D belt code reads

Belt Code	Datum Length (in)	Datum Length (mm)	Top Width	Section Height
D-110	110	2,794	32 mm	19 mm
D-500	500	12,700	32 mm	19 mm
D-700	700	17,780	32 mm	19 mm

4. Complete Type D Size Chart

Table 3 Complete Type D Belt Size Chart — 263 codes, D-110 to D-700

Belt Code	Datum (in)	Datum (mm)	Belt Code	Datum (in)	Datum (mm)	Belt Code	Datum (in)	Datum (mm)	Belt Code	Datum (in)	Datum (mm)	Belt Code	Datum (in)	Datum (mm)	Belt Code	Datum (in)	Datum (mm)
D-110	110	2,794	D-154	154	3,912	D-198	198	5,029	D-242	242	6,147	D-286	286	7,264	D-390	390	9,906
D-111	111	2,819	D-155	155	3,937	D-199	199	5,055	D-243	243	6,172	D-287	287	7,290	D-395	395	10,033
D-112	112	2,845	D-156	156	3,962	D-200	200	5,080	D-244	244	6,198	D-288	288	7,315	D-400	400	10,160
D-113	113	2,870	D-157	157	3,988	D-201	201	5,105	D-245	245	6,223	D-289	289	7,341	D-405	405	10,287
D-114	114	2,896	D-158	158	4,013	D-202	202	5,131	D-246	246	6,248	D-290	290	7,366	D-410	410	10,414
D-115	115	2,921	D-159	159	4,039	D-203	203	5,156	D-247	247	6,274	D-291	291	7,391	D-415	415	10,541
D-116	116	2,946	D-160	160	4,064	D-204	204	5,182	D-248	248	6,299	D-292	292	7,417	D-420	420	10,668
D-117	117	2,972	D-161	161	4,089	D-205	205	5,207	D-249	249	6,325	D-293	293	7,442	D-425	425	10,795
D-118	118	2,997	D-162	162	4,115	D-206	206	5,232	D-250	250	6,350	D-294	294	7,468	D-430	430	10,922
D-119	119	3,023	D-163	163	4,140	D-207	207	5,258	D-251	251	6,375	D-295	295	7,493	D-435	435	11,049
D-120	120	3,048	D-164	164	4,166	D-208	208	5,283	D-252	252	6,401	D-296	296	7,518	D-440	440	11,176
D-121	121	3,073	D-165	165	4,191	D-209	209	5,309	D-253	253	6,426	D-297	297	7,544	D-445	445	11,303
D-122	122	3,099	D-166	166	4,216	D-210	210	5,334	D-254	254	6,452	D-298	298	7,569	D-450	450	11,430
D-123	123	3,124	D-167	167	4,242	D-211	211	5,359	D-255	255	6,477	D-299	299	7,595	D-455	455	11,557
D-124	124	3,150	D-168	168	4,267	D-212	212	5,385	D-256	256	6,502	D-300	300	7,620	D-460	460	11,684
D-125	125	3,175	D-169	169	4,293	D-213	213	5,410	D-257	257	6,528	D-301	301	7,645	D-465	465	11,811
D-126	126	3,200	D-170	170	4,318	D-214	214	5,436	D-258	258	6,553	D-302	302	7,671	D-470	470	11,938
D-127	127	3,226	D-171	171	4,343	D-215	215	5,461	D-259	259	6,579	D-303	303	7,696	D-475	475	12,065
D-128	128	3,251	D-172	172	4,369	D-216	216	5,486	D-260	260	6,604	D-304	304	7,722	D-480	480	12,192
D-129	129	3,277	D-173	173	4,394	D-217	217	5,512	D-261	261	6,629	D-305	305	7,747	D-485	485	12,319
D-130	130	3,302	D-174	174	4,420	D-218	218	5,537	D-262	262	6,655	D-306	306	7,772	D-490	490	12,446
D-131	131	3,327	D-175	175	4,445	D-219	219	5,563	D-263	263	6,680	D-307	307	7,798	D-495	495	12,573
D-132	132	3,353	D-176	176	4,470	D-220	220	5,588	D-264	264	6,706	D-308	308	7,823	D-500	500	12,700
D-133	133	3,378	D-177	177	4,496	D-221	221	5,613	D-265	265	6,731	D-309	309	7,849	D-510	510	12,954
D-134	134	3,404	D-178	178	4,521	D-222	222	5,639	D-266	266	6,756	D-310	310	7,874	D-520	520	13,208
D-135	135	3,429	D-179	179	4,547	D-223	223	5,664	D-267	267	6,782	D-311	311	7,899	D-530	530	13,462
D-136	136	3,454	D-180	180	4,572	D-224	224	5,690	D-268	268	6,807	D-312	312	7,925	D-540	540	13,716
D-137	137	3,480	D-181	181	4,597	D-225	225	5,715	D-269	269	6,833	D-313	313	7,950	D-550	550	13,970
D-138	138	3,505	D-182	182	4,623	D-226	226	5,740	D-270	270	6,858	D-314	314	7,976	D-560	560	14,224
D-139	139	3,531	D-183	183	4,648	D-227	227	5,766	D-271	271	6,883	D-315	315	8,001	D-570	570	14,478
D-140	140	3,556	D-184	184	4,674	D-228	228	5,791	D-272	272	6,909	D-320	320	8,128	D-580	580	14,732
D-141	141	3,581	D-185	185	4,699	D-229	229	5,817	D-273	273	6,934	D-325	325	8,255	D-590	590	14,986
D-142	142	3,607	D-186	186	4,724	D-230	230	5,842	D-274	274	6,960	D-330	330	8,382	D-600	600	15,240
D-143	143	3,632	D-187	187	4,750	D-231	231	5,867	D-275	275	6,985	D-335	335	8,509	D-610	610	15,494
D-144	144	3,658	D-188	188	4,775	D-232	232	5,893	D-276	276	7,010	D-340	340	8,636	D-620	620	15,748
D-145	145	3,683	D-189	189	4,801	D-233	233	5,918	D-277	277	7,036	D-345	345	8,763	D-630	630	16,002
D-146	146	3,708	D-190	190	4,826	D-234	234	5,944	D-278	278	7,061	D-350	350	8,890	D-640	640	16,256
D-147	147	3,734	D-191	191	4,851	D-235	235	5,969	D-279	279	7,087	D-355	355	9,017	D-650	650	16,510
D-148	148	3,759	D-192	192	4,877	D-236	236	5,994	D-280	280	7,112	D-360	360	9,144	D-660	660	16,764
D-149	149	3,785	D-193	193	4,902	D-237	237	6,020	D-281	281	7,137	D-365	365	9,271	D-670	670	17,018
D-150	150	3,810	D-194	194	4,928	D-238	238	6,045	D-282	282	7,163	D-370	370	9,398	D-680	680	17,272
D-151	151	3,835	D-195	195	4,953	D-239	239	6,071	D-283	283	7,188	D-375	375	9,525	D-690	690	17,526
D-152	152	3,861	D-196	196	4,978	D-240	240	6,096	D-284	284	7,214	D-380	380	9,652	D-700	700	17,780
D-153	153	3,886	D-197	197	5,004	D-241	241	6,121	D-285	285	7,239	D-385	385	9,779			

Every size in the range — **263 belt codes** from **D-110** to **D-700** — is listed above with the datum length in inches and the equivalent whole-millimetre figure (rounded to the nearest mm). The figure after D gives the datum length directly in inches, measured at the cord line in accordance with ISO 4184; the millimetre column is the rounded conversion. The chart is stepped: codes run consecutively by 1 inch from D-110 to D-315, by 5 inches from D-320 to D-500, and by 10 inches from D-510 to D-700. Lengths between the listed steps and outside the range are supplied as custom items.

> All Type D belts in this catalogue conform to the ISO 4184 standard for classical V-belt drives, which fixes the section dimensions and length tolerances so that a Type D belt of the same code is dimensionally interchangeable with equivalent-profile belts from other mainstream manufacturers.

Download the Type D Belt Specification PDF from the product page:
https://drive-belt.com/v-belts/d-section-v-belt

5. Materials & Construction

5.1 Tension member

High-tenacity polyester cords, adhesive-treated and pre-tensioned during curing, give the Type D belt its tensile strength with very low elongation under shock load, holding the datum length so the drive does not drift out of tension after the first week.

5.2 Body compound and outer cover

The compression section is a premium natural rubber compound with fibre reinforcement, which absorbs the shock of heavy startup and varying load, keeps the cross-section stable and resists compression cracking under continuous operation. A square-woven cotton-polyester fabric, rubber-impregnated, wraps the full belt to raise sidewall friction, shrug off abrasion, dust and oil mist, and meet anti-static requirements.

5.3 Applications

The Type D belt drives jaw crushers, sand makers, winch grinders, screening machines, belt conveyors, brick machines and rock drills.



Figure 3: A bank of Type D V-belts driving crusher and sand-washer pulleys — the 32 mm × 19 mm section is sized for continuous heavy-duty loads.

6. Contact & Ordering Information

Send the belt code and quantity; we will confirm stock and ship within 15–20 days.

Company: Pingxiang Husheng Rubber Products Co.,Ltd • **Brand:** Shusheng
Website: https://drive-belt.com
Type D Belt page: https://drive-belt.com/v-belts/d-section-v-belt
Email: panhusheng@zohomail.cn
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