PINGXIANG HUSHENG RUBBER PRODUCTS CO.,LTD

Type A Belt — Specification & Complete Size Chart

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

Shusheng

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Type A Belt — Specification, Materials & Complete Size Chart

1. Type A Belt Overview

The smallest classical section, made for light and medium industrial drives.

The Type A belt is a classical wrapped V-belt section: a **12.7 mm (1/2 inch) top width**, an **8 mm section height** and a **40° included wedge angle**. It is the smallest of the five classical sections and is the belt most often specified for light and medium drives — printing presses, oil presses, grain handling equipment, planters, tillers, mowers, HVAC units, compressors and pumps.

Every Type A belt in this catalogue is manufactured to conform to the ISO 4184 standard for classical V-belt drives. The body is a 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 A belt code (section 2), the complete technical specification (section 3), the materials and construction (section 5), and the full size list from **A-10** to **A-250** (section 4). Contact and ordering information follows.



Figure 1: A wrapped Type A classical V-belt set — 12.7 mm top width, 8 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

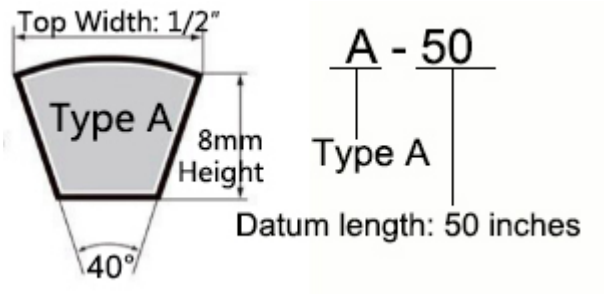


Figure 2: Type A belt cross-section showing the 1/2 inch (12.7 mm) top width, the 8 mm section height and the 40° wedge angle, together with the code naming convention (A-50 = Type A, datum length 50 inches).

2.2 What the code means

A Type A belt code is the section prefix **A** followed by the **datum length in inches**. The code **A-50** therefore means a Type A classical V-belt with a datum length of **50 inches (1,270 mm)**. In the same way, the shortest belt in this catalogue, **A-10**, has a datum length of 10 inches (254 mm), and the longest, **A-250**, has a datum length of 250 inches (6,350 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 class marking. 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 A-10 to the longest A-250.

Table 1 Type A Belt — Technical Specifications

Property	Specification
Profile / Section	Type A wrapped classical V-belt
Top Width	12.7 mm (1/2 inch)
Section Height	8 mm
Wedge Angle	40° (included)
Pulley Groove	40° included angle; groove dimensions conform to ISO 4184
Body Compound	Natural rubber (NR), 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, A profile)
Transmission Efficiency	95%+
Maximum Belt Speed	30 m/s
Operating Temperature	−30 °C to +70 °C
Resistance	Anti-static, abrasion and dust resistant
Service Limitation	Natural rubber body — not intended for oil, chemical or sustained high-temperature service
Datum Length Range	A-10 to A-250 — 10″ – 250″ (254 mm – 6,350 mm)
Minimum Order Quantity	100 pcs per size
Standard Delivery	15–20 days from order confirmation
Indicative Price Range	US$2.28 – US$20.32 per piece (varies by size and quantity)

In plain terms, the Type A belt has a 12.7 mm (1/2 inch) top width, an 8 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 A belt code

Three worked examples show how a code maps to the dimensions. **A-10** has a datum length of 10 inches (254 mm), **A-50** has a datum length of 50 inches (1,270 mm), and **A-250** has a datum length of 250 inches (6,350 mm); every Type A belt shares the same 12.7 mm top width and 8 mm section height.

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

Belt Code	Datum Length (in)	Datum Length (mm)	Top Width	Section Height
A-10	10	254	12.7 mm	8 mm
A-50	50	1,270	12.7 mm	8 mm
A-250	250	6,350	12.7 mm	8 mm

4. Complete Type A Size Chart

Table 3 Complete Type A Belt Size Chart — 241 codes, A-10 to A-250

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)
A-10	10	254	A-51	51	1,295	A-91	91	2,311	A-131	131	3,327	A-171	171	4,343	A-211	211	5,359
A-11	11	279	A-52	52	1,321	A-92	92	2,337	A-132	132	3,353	A-172	172	4,369	A-212	212	5,385
A-12	12	305	A-53	53	1,346	A-93	93	2,362	A-133	133	3,378	A-173	173	4,394	A-213	213	5,410
A-13	13	330	A-54	54	1,372	A-94	94	2,388	A-134	134	3,404	A-174	174	4,420	A-214	214	5,436
A-14	14	356	A-55	55	1,397	A-95	95	2,413	A-135	135	3,429	A-175	175	4,445	A-215	215	5,461
A-15	15	381	A-56	56	1,422	A-96	96	2,438	A-136	136	3,454	A-176	176	4,470	A-216	216	5,486
A-16	16	406	A-57	57	1,448	A-97	97	2,464	A-137	137	3,480	A-177	177	4,496	A-217	217	5,512
A-17	17	432	A-58	58	1,473	A-98	98	2,489	A-138	138	3,505	A-178	178	4,521	A-218	218	5,537
A-18	18	457	A-59	59	1,499	A-99	99	2,515	A-139	139	3,531	A-179	179	4,547	A-219	219	5,563
A-19	19	483	A-60	60	1,524	A-100	100	2,540	A-140	140	3,556	A-180	180	4,572	A-220	220	5,588
A-20	20	508	A-61	61	1,549	A-101	101	2,565	A-141	141	3,581	A-181	181	4,597	A-221	221	5,613
A-21	21	533	A-62	62	1,575	A-102	102	2,591	A-142	142	3,607	A-182	182	4,623	A-222	222	5,639
A-22	22	559	A-63	63	1,600	A-103	103	2,616	A-143	143	3,632	A-183	183	4,648	A-223	223	5,664
A-23	23	584	A-64	64	1,626	A-104	104	2,642	A-144	144	3,658	A-184	184	4,674	A-224	224	5,690
A-24	24	610	A-65	65	1,651	A-105	105	2,667	A-145	145	3,683	A-185	185	4,699	A-225	225	5,715
A-25	25	635	A-66	66	1,676	A-106	106	2,692	A-146	146	3,708	A-186	186	4,724	A-226	226	5,740
A-26	26	660	A-67	67	1,702	A-107	107	2,718	A-147	147	3,734	A-187	187	4,750	A-227	227	5,766
A-27	27	686	A-68	68	1,727	A-108	108	2,743	A-148	148	3,759	A-188	188	4,775	A-228	228	5,791
A-28	28	711	A-69	69	1,753	A-109	109	2,769	A-149	149	3,785	A-189	189	4,801	A-229	229	5,817
A-29	29	737	A-70	70	1,778	A-110	110	2,794	A-150	150	3,810	A-190	190	4,826	A-230	230	5,842
A-30	30	762	A-71	71	1,803	A-111	111	2,819	A-151	151	3,835	A-191	191	4,851	A-231	231	5,867
A-31	31	787	A-72	72	1,829	A-112	112	2,845	A-152	152	3,861	A-192	192	4,877	A-232	232	5,893
A-32	32	813	A-73	73	1,854	A-113	113	2,870	A-153	153	3,886	A-193	193	4,902	A-233	233	5,918
A-33	33	838	A-74	74	1,880	A-114	114	2,896	A-154	154	3,912	A-194	194	4,928	A-234	234	5,944
A-34	34	864	A-75	75	1,905	A-115	115	2,921	A-155	155	3,937	A-195	195	4,953	A-235	235	5,969
A-35	35	889	A-76	76	1,930	A-116	116	2,946	A-156	156	3,962	A-196	196	4,978	A-236	236	5,994
A-36	36	914	A-77	77	1,956	A-117	117	2,972	A-157	157	3,988	A-197	197	5,004	A-237	237	6,020
A-37	37	940	A-78	78	1,981	A-118	118	2,997	A-158	158	4,013	A-198	198	5,029	A-238	238	6,045
A-38	38	965	A-79	79	2,007	A-119	119	3,023	A-159	159	4,039	A-199	199	5,055	A-239	239	6,071
A-39	39	991	A-80	80	2,032	A-120	120	3,048	A-160	160	4,064	A-200	200	5,080	A-240	240	6,096
A-40	40	1,016	A-81	81	2,057	A-121	121	3,073	A-161	161	4,089	A-201	201	5,105	A-241	241	6,121
A-41	41	1,041	A-82	82	2,083	A-122	122	3,099	A-162	162	4,115	A-202	202	5,131	A-242	242	6,147
A-42	42	1,067	A-83	83	2,108	A-123	123	3,124	A-163	163	4,140	A-203	203	5,156	A-243	243	6,172
A-43	43	1,092	A-84	84	2,134	A-124	124	3,150	A-164	164	4,166	A-204	204	5,182	A-244	244	6,198
A-44	44	1,118	A-85	85	2,159	A-125	125	3,175	A-165	165	4,191	A-205	205	5,207	A-245	245	6,223
A-45	45	1,143	A-86	86	2,184	A-126	126	3,200	A-166	166	4,216	A-206	206	5,232	A-246	246	6,248
A-46	46	1,168	A-87	87	2,210	A-127	127	3,226	A-167	167	4,242	A-207	207	5,258	A-247	247	6,274
A-47	47	1,194	A-88	88	2,235	A-128	128	3,251	A-168	168	4,267	A-208	208	5,283	A-248	248	6,299
A-48	48	1,219	A-89	89	2,261	A-129	129	3,277	A-169	169	4,293	A-209	209	5,309	A-249	249	6,325
A-49	49	1,245	A-90	90	2,286	A-130	130	3,302	A-170	170	4,318	A-210	210	5,334	A-250	250	6,350
A-50	50	1,270															

Every size in the range — **241 belt codes** from **A-10** to **A-250** — is listed above with the datum length in inches and the equivalent whole-millimetre figure (rounded to the nearest mm). The figure after A 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 continuous: codes run consecutively by 1 inch from A-10 to A-250. Lengths between the listed steps and outside the range are supplied as custom items.

> All Type A 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 A belt of the same code is dimensionally interchangeable with equivalent-profile belts from other mainstream manufacturers.

Download the Type A Belt Specification PDF from the product page:
https://drive-belt.com/v-belts/a-v-belt

5. Materials & Construction

5.1 Tension member

High-tenacity polyester cords, adhesive-treated and pre-tensioned during curing, give the Type A 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 fibre-reinforced natural rubber compound that 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 and dust, and meet anti-static requirements. Because the A-section body is natural rubber, drives exposed to oil splash, chemical contact or sustained high ambient heat should instead use our oil- and heat-resistant narrow-section range (3V, 5V, 8V, SPZ, SPB and SPC).

5.3 Applications

The Type A belt drives printing presses, oil presses, grain handling equipment, planters, tillers, mowers, HVAC units, compressors, pumps and light industrial conveyors.

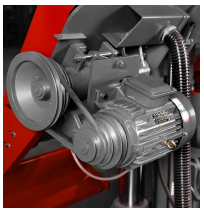


Figure 3: A set of Type A V-belts running on grooved pulleys — the 12.7 mm × 8 mm section suits light and medium industrial drives.

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 A Belt page:** https://drive-belt.com/v-belts/a-v-belt
> **Email:** panhusheng@zohomail.cn
> **Tel / WhatsApp:** +86 151 0799 3145
> **Address:** No. 132 Xihuan Road, Anyuan District, Pingxiang City, Jiangxi Province, China

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