PINGXIANG HUSHENG RUBBER PRODUCTS CO.,LTD

# Type E Belt — Specification & Complete Size Chart

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

**Shusheng**

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# Type E Belt — Specification, Materials & Complete Size Chart

## 1. Type E Belt Overview

The heaviest classical section we build — 38 mm × 23 mm, for super heavy-duty drives.

The Type E belt is a classical wrapped V-belt with a 38 mm (1-1/2 inch) top width and a 23 mm (29/32 inch) section height. It is the largest classical V-belt section in common industrial use, with a 40° included angle, and it is specified where a D-section belt is already at its limit and the drive still asks for more power.

Every Type E belt in this catalogue is manufactured to conform to the ISO 4184 standard for classical V-belt drives. The body is a high-strength natural rubber compound with a stretch-resistant polyester tension cord and a wrapped fabric jacket, and the belt is moulded to datum length so that a replacement ordered months later seats in the same groove as the original set.

This document keeps to the four things a buyer needs: how to read the Type E belt code (section 2), the complete technical specification (section 3), the materials and construction (section 5), and the full size list from **E-177** to **E-700** (section 4). Contact and ordering information follows.



**Figure 1:** A coiled set of Type E belts — 38 mm top width, 23 mm section height — with the moulded belt code and the oil, heat and anti-static jacket marking on the back.

## 2. Belt Marking & Code Meaning

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

### 2.1 Section dimensions

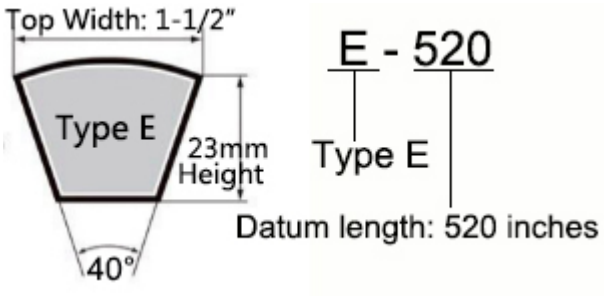



**Figure 2:** Type E belt cross-section showing the 38 mm (1-1/2 inch) top width, the 23 mm section height and the 40° wedge angle, together with the code naming convention (E-520 = Type E, datum length 520 inches).

### 2.2 What the code means

A Type E belt code is the section prefix **E** followed by the **datum length in inches**. The code **E-520** therefore means a Type E classical V-belt with a datum length of **520 inches**, which is **8,128 mm**. In the same way, the shortest belt in this catalogue, **E-177**, has a datum length of 177 inches (4,496 mm), and the longest, **E-700**, has a datum length of 700 inches (17,780 mm).

The number is the datum length — the length measured at the cord line of the belt in accordance with ISO 4184 — **not the outside circumference**. On the classical inch-series sections the code is written in inches, which is why the size chart in section 4 lists both the inch code and its whole-millimetre equivalent.

### 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 E-177 to the longest E-700.

**Table 1 Type E Belt — Technical Specifications**

| Property | Specification |
|---|---|
| **Profile / Section** | Type E classical wrapped V-belt |
| **Top Width** | 38 mm (1-1/2 inch) |
| **Section Height** | 23 mm (29/32 inch) |
| **Wedge Angle** | 40° (included) |
| **Body Compound** | Natural rubber |
| **Tension Member** | Stretch-resistant polyester cord |
| **Outer Cover** | Wrapped treated fabric jacket |
| **Standard** | Conforms to ISO 4184 (Type E profile, classical V-belts) |
| **Transmission Efficiency** | 95%+ |
| **Maximum Belt Speed** | 30 m/s |
| **Operating Temperature** | −30 °C to +70 °C |
| **Minimum Pulley Diameter** | 500 mm |
| **Resistance** | Oil, chemical, ozone and anti-static |
| **Length Marking** | Datum length, inches |
| **Datum Length Range** | E-177 to E-700 — 177 in – 700 in (4,496 mm – 17,780 mm) |
| **Minimum Order Quantity** | 10 pcs per size |
| **Standard Delivery** | 15–20 days from order confirmation |
| **Indicative Price Range** | US$91.44 – US$306.32 per piece (varies by size and quantity) |

In plain terms, the Type E belt has a 38 mm top width, a 23 mm section height and a 40° wedge, and runs at up to 30 m/s between −30 °C and +70 °C on pulleys of 500 mm minimum diameter.

### 3.1 Reading a Type E belt code

Three worked examples show how a code maps to the dimensions. **E-177** has a datum length of 177 inches (4,496 mm), **E-520** has a datum length of 520 inches (8,128 mm), and **E-700** has a datum length of 700 inches (17,780 mm); every Type E belt shares the same 38 mm top width and 23 mm section height.

**Table 2 Worked examples — how a Type E belt code reads**

| Belt Code | Datum Length (in) | Datum Length (mm) | Top Width | Section Height |
|---|---|---|---|---|
| **E-177** | 177 | 4,496 | 38 mm | 23 mm |
| **E-520** | 520 | 8,128 | 38 mm | 23 mm |
| **E-700** | 700 | 17,780 | 38 mm | 23 mm |

# 4. Complete Type E Size Chart

**Table 3 Complete Type E Belt Size Chart — Part 1 of 1 (E-177 to E-700)**

| Belt Code | Datum Length (in) | Datum Length (mm) | Belt Code | Datum Length (in) | Datum Length (mm) | Belt Code | Datum Length (in) | Datum Length (mm) | Belt Code | Datum Length (in) | Datum Length (mm) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| E-177 | 177 | 4,496 | E-226 | 226 | 5,740 | E-275 | 275 | 6,985 | E-360 | 360 | 9,144 |
| E-178 | 178 | 4,521 | E-227 | 227 | 5,766 | E-276 | 276 | 7,010 | E-365 | 365 | 9,271 |
| E-179 | 179 | 4,547 | E-228 | 228 | 5,791 | E-277 | 277 | 7,036 | E-370 | 370 | 9,398 |
| E-180 | 180 | 4,572 | E-229 | 229 | 5,817 | E-278 | 278 | 7,061 | E-375 | 375 | 9,525 |
| E-181 | 181 | 4,597 | E-230 | 230 | 5,842 | E-279 | 279 | 7,087 | E-380 | 380 | 9,652 |
| E-182 | 182 | 4,623 | E-231 | 231 | 5,867 | E-280 | 280 | 7,112 | E-385 | 385 | 9,779 |
| E-183 | 183 | 4,648 | E-232 | 232 | 5,893 | E-281 | 281 | 7,137 | E-390 | 390 | 9,906 |
| E-184 | 184 | 4,674 | E-233 | 233 | 5,918 | E-282 | 282 | 7,163 | E-395 | 395 | 10,033 |
| E-185 | 185 | 4,699 | E-234 | 234 | 5,944 | E-283 | 283 | 7,188 | E-400 | 400 | 10,160 |
| E-186 | 186 | 4,724 | E-235 | 235 | 5,969 | E-284 | 284 | 7,214 | E-405 | 405 | 10,287 |
| E-187 | 187 | 4,750 | E-236 | 236 | 5,994 | E-285 | 285 | 7,239 | E-410 | 410 | 10,414 |
| E-188 | 188 | 4,775 | E-237 | 237 | 6,020 | E-286 | 286 | 7,264 | E-415 | 415 | 10,541 |
| E-189 | 189 | 4,801 | E-238 | 238 | 6,045 | E-287 | 287 | 7,290 | E-420 | 420 | 10,668 |
| E-190 | 190 | 4,826 | E-239 | 239 | 6,071 | E-288 | 288 | 7,315 | E-425 | 425 | 10,795 |
| E-191 | 191 | 4,851 | E-240 | 240 | 6,096 | E-289 | 289 | 7,341 | E-430 | 430 | 10,922 |
| E-192 | 192 | 4,877 | E-241 | 241 | 6,121 | E-290 | 290 | 7,366 | E-435 | 435 | 11,049 |
| E-193 | 193 | 4,902 | E-242 | 242 | 6,147 | E-291 | 291 | 7,391 | E-440 | 440 | 11,176 |
| E-194 | 194 | 4,928 | E-243 | 243 | 6,172 | E-292 | 292 | 7,417 | E-445 | 445 | 11,303 |
| E-195 | 195 | 4,953 | E-244 | 244 | 6,198 | E-293 | 293 | 7,442 | E-450 | 450 | 11,430 |
| E-196 | 196 | 4,978 | E-245 | 245 | 6,223 | E-294 | 294 | 7,468 | E-455 | 455 | 11,557 |
| E-197 | 197 | 5,004 | E-246 | 246 | 6,248 | E-295 | 295 | 7,493 | E-460 | 460 | 11,684 |
| E-198 | 198 | 5,029 | E-247 | 247 | 6,274 | E-296 | 296 | 7,518 | E-465 | 465 | 11,811 |
| E-199 | 199 | 5,055 | E-248 | 248 | 6,299 | E-297 | 297 | 7,544 | E-470 | 470 | 11,938 |
| E-200 | 200 | 5,080 | E-249 | 249 | 6,325 | E-298 | 298 | 7,569 | E-475 | 475 | 12,065 |
| E-201 | 201 | 5,105 | E-250 | 250 | 6,350 | E-299 | 299 | 7,595 | E-480 | 480 | 12,192 |
| E-202 | 202 | 5,131 | E-251 | 251 | 6,375 | E-300 | 300 | 7,620 | E-485 | 485 | 12,319 |
| E-203 | 203 | 5,156 | E-252 | 252 | 6,401 | E-301 | 301 | 7,645 | E-490 | 490 | 12,446 |
| E-204 | 204 | 5,182 | E-253 | 253 | 6,426 | E-302 | 302 | 7,671 | E-495 | 495 | 12,573 |
| E-205 | 205 | 5,207 | E-254 | 254 | 6,452 | E-303 | 303 | 7,696 | E-500 | 500 | 12,700 |
| E-206 | 206 | 5,232 | E-255 | 255 | 6,477 | E-304 | 304 | 7,722 | E-510 | 510 | 12,954 |
| E-207 | 207 | 5,258 | E-256 | 256 | 6,502 | E-305 | 305 | 7,747 | E-520 | 520 | 13,208 |
| E-208 | 208 | 5,283 | E-257 | 257 | 6,528 | E-306 | 306 | 7,772 | E-530 | 530 | 13,462 |
| E-209 | 209 | 5,309 | E-258 | 258 | 6,553 | E-307 | 307 | 7,798 | E-540 | 540 | 13,716 |
| E-210 | 210 | 5,334 | E-259 | 259 | 6,579 | E-308 | 308 | 7,823 | E-550 | 550 | 13,970 |
| E-211 | 211 | 5,359 | E-260 | 260 | 6,604 | E-309 | 309 | 7,849 | E-560 | 560 | 14,224 |
| E-212 | 212 | 5,385 | E-261 | 261 | 6,629 | E-310 | 310 | 7,874 | E-570 | 570 | 14,478 |
| E-213 | 213 | 5,410 | E-262 | 262 | 6,655 | E-311 | 311 | 7,899 | E-580 | 580 | 14,732 |
| E-214 | 214 | 5,436 | E-263 | 263 | 6,680 | E-312 | 312 | 7,925 | E-590 | 590 | 14,986 |
| E-215 | 215 | 5,461 | E-264 | 264 | 6,706 | E-313 | 313 | 7,950 | E-600 | 600 | 15,240 |
| E-216 | 216 | 5,486 | E-265 | 265 | 6,731 | E-314 | 314 | 7,976 | E-610 | 610 | 15,494 |
| E-217 | 217 | 5,512 | E-266 | 266 | 6,756 | E-315 | 315 | 8,001 | E-620 | 620 | 15,748 |
| E-218 | 218 | 5,537 | E-267 | 267 | 6,782 | E-320 | 320 | 8,128 | E-630 | 630 | 16,002 |
| E-219 | 219 | 5,563 | E-268 | 268 | 6,807 | E-325 | 325 | 8,255 | E-640 | 640 | 16,256 |
| E-220 | 220 | 5,588 | E-269 | 269 | 6,833 | E-330 | 330 | 8,382 | E-650 | 650 | 16,510 |
| E-221 | 221 | 5,613 | E-270 | 270 | 6,858 | E-335 | 335 | 8,509 | E-660 | 660 | 16,764 |
| E-222 | 222 | 5,639 | E-271 | 271 | 6,883 | E-340 | 340 | 8,636 | E-670 | 670 | 17,018 |
| E-223 | 223 | 5,664 | E-272 | 272 | 6,909 | E-345 | 345 | 8,763 | E-680 | 680 | 17,272 |
| E-224 | 224 | 5,690 | E-273 | 273 | 6,934 | E-350 | 350 | 8,890 | E-690 | 690 | 17,526 |
| E-225 | 225 | 5,715 | E-274 | 274 | 6,960 | E-355 | 355 | 9,017 | E-700 | 700 | 17,780 |

Every size in the range — 196 belt codes from E-177 to E-700 — is listed above with its datum length in inches and in whole millimetres. The figure after E gives the datum length in inches directly, measured at the cord line in accordance with ISO 4184; the millimetre column is that figure multiplied by 25.4 and rounded to the nearest whole millimetre. E-177 is the shortest belt listed, at 177 inches (4,496 mm), and E-700 is the longest, at 700 inches (17,780 mm). Every

size in the chart is available to order, and lengths outside the range are supplied as custom items.

> All Type E belts in this catalogue conform to the ISO 4184 standard for classical V-belt drives, which fixes the section dimensions and length tolerances.

**Download the Type E Belt Specification PDF** from the product page: https://drive-belt.com/v-belts/type-e-belt

## 5. Materials & Construction

### 5.1 Tension member

Stretch-resistant polyester cords, adhesive-treated and pre-tensioned during curing, give the Type E belt its tensile strength with very low elongation under shock load, and stay bonded to the rubber body so the belt keeps its datum length instead of running slack after break-in.

### 5.2 Body compound and outer cover

The compression section is a high-strength natural rubber compound with fibre reinforcement, absorbing start-up shock and keeping the cross-section stable on pulleys of 500 mm and above without compression cracking, and a square-woven treated fabric jacket is wrapped around the full belt to raise sidewall friction and resist abrasion, dust and oil mist.

### 5.3 Applications

The Type E belt drives ceramic ball mills, super-large crushers and other continuous grinding equipment running above 200 kW.



**Figure 3:** A multi-belt Type E drive on a ceramic plant ball mill — the 38 mm × 23 mm section carries super heavy-duty, continuous grinding loads where a D-section belt is already at its limit.

## 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 E Belt page:** https://drive-belt.com/v-belts/type-e-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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