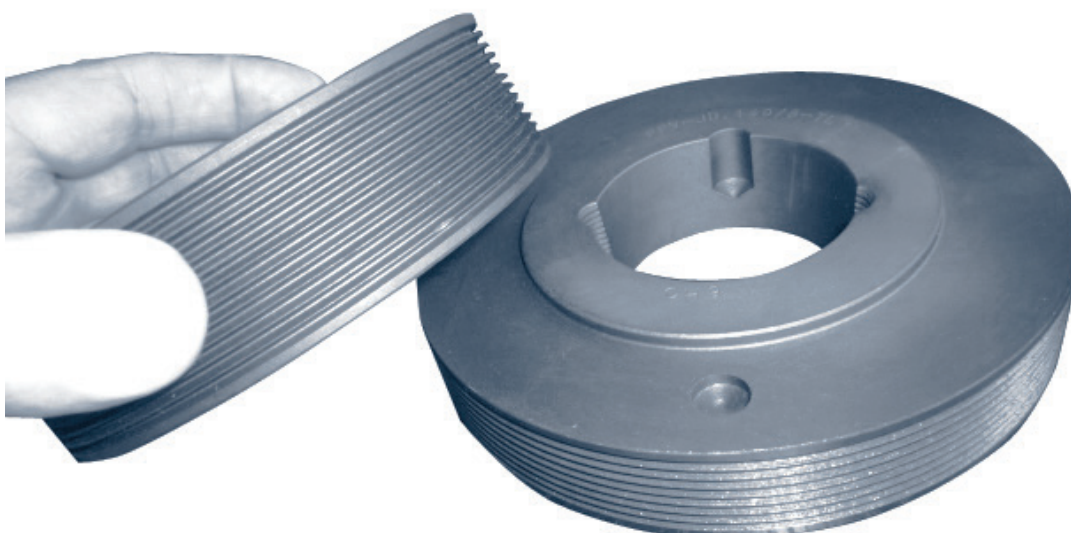
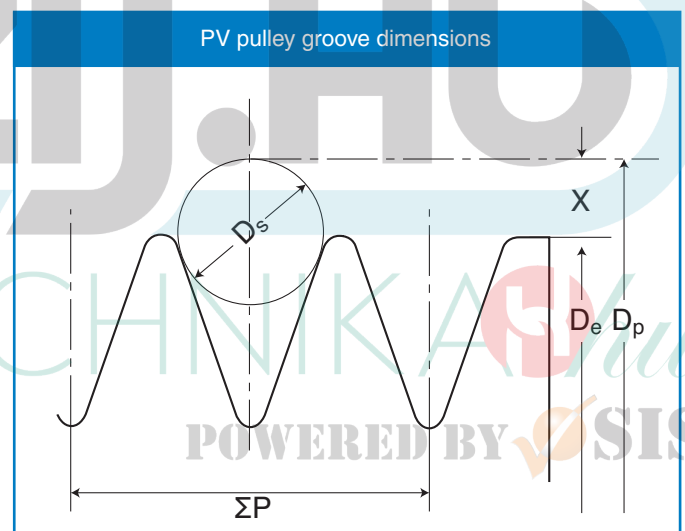
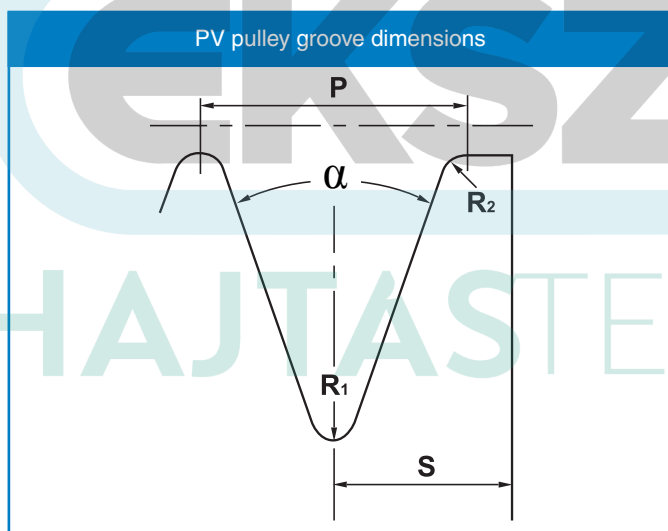


# PV Pulleys

Challenge PV pulleys are manufactured according to ISO 9982 specification (Pulleys and V-ribbed belts for industrial applications). This encompasses product designation, geometry, roughness and pulley run out.

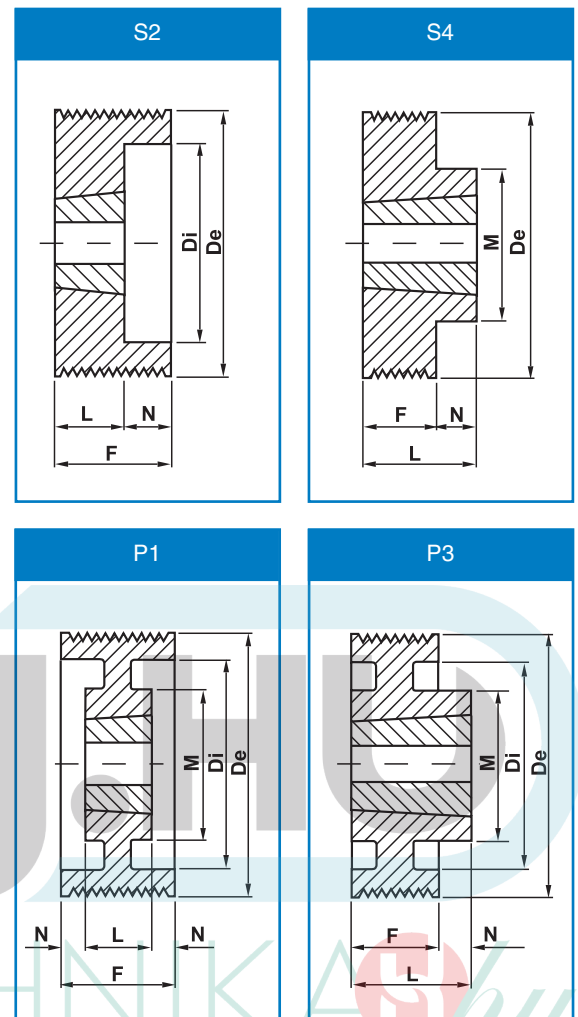
## Groove dimensions of PV pulleys according to ISO 9982

|                                   | H               | J               | Section K       | L               | M               |
|-----------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| $\alpha$                          | 40 $\pm$ 0.5    | 40 $\pm$ 0.5    | 40 $\pm$ 0.5    | 40 $\pm$ 0.5    | 40 $\pm$ 0.5    |
| P                                 | 1.50 $\pm$ 0.03 | 2.34 $\pm$ 0.03 | 3.56 $\pm$ 0.05 | 4.70 $\pm$ 0.05 | 9.40 $\pm$ 0.08 |
| Tolerance $\Sigma P$              | $\pm$ 0.30      | $\pm$ 0.30      | $\pm$ 0.30      | $\pm$ 0.30      | $\pm$ 0.30      |
| S min.                            | 1.30            | 1.80            | 2.50            | 3.30            | 6.40            |
| R <sub>1</sub> max.               | 0.30            | 0.40            | 0.50            | 0.40            | 0.75            |
| R <sub>2</sub> min.               | 0.15            | 0.20            | 0.25            | 0.40            | 0.75            |
| D <sub>s</sub>                    | 1.00 $\pm$ 0.01 | 1.50 $\pm$ 0.01 | 2.50 $\pm$ 0.01 | 3.50 $\pm$ 0.01 | 7.00 $\pm$ 0.01 |
| 2X=D <sub>p</sub> -D <sub>e</sub> | 0.11            | 0.23            | 0.99            | 2.36            | 4.53            |



# PV Section K

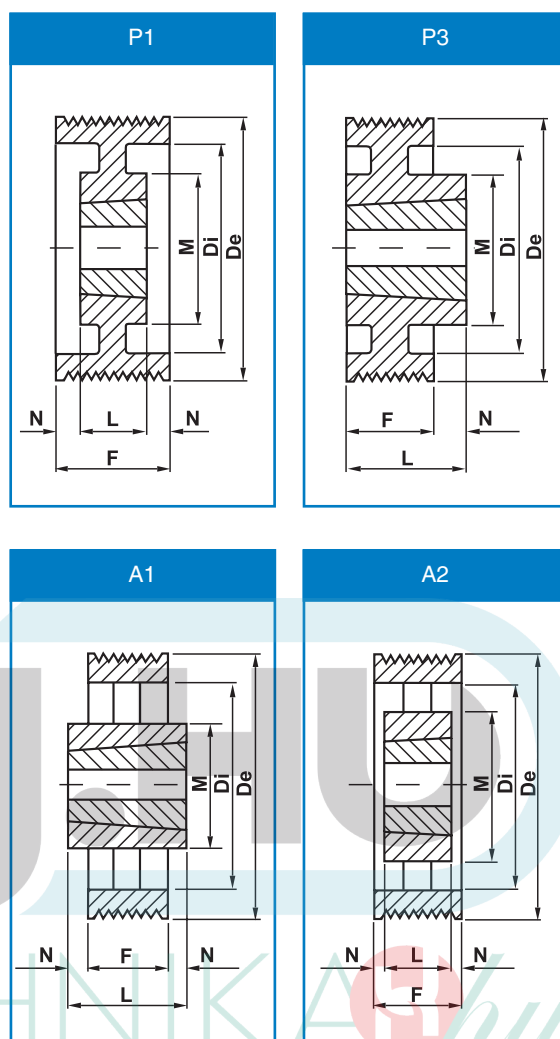
| De  | Groove Number | Bush Size | Style | F  | L  | N  | M   | Di  |
|-----|---------------|-----------|-------|----|----|----|-----|-----|
| 80  | 4             | 1310      | S4    | 22 | 26 | 4  | 78  | -   |
|     | 8             | 1310      | S2    | 36 | 26 | 10 | -   | 60  |
| 85  | 4             | 1310      | S4    | 22 | 26 | 4  | 78  | -   |
|     | 8             | 1310      | S2    | 36 | 26 | 10 | -   | 65  |
| 90  | 4             | 1610      | S4    | 22 | 26 | 4  | 86  | -   |
|     | 8             | 1610      | S2    | 36 | 26 | 10 | -   | 70  |
| 95  | 4             | 1610      | S4    | 22 | 26 | 4  | 86  | -   |
|     | 8             | 1610      | S2    | 36 | 26 | 10 | -   | 75  |
| 100 | 4             | 1610      | S4    | 22 | 26 | 4  | 86  | -   |
|     | 8             | 1610      | S2    | 36 | 26 | 10 | -   | 80  |
|     | 12            | 1610      | S2    | 50 | 26 | 24 | -   | 80  |
|     | 16            | 2012      | S2    | 64 | 32 | 32 | -   | 80  |
| 112 | 4             | 1610      | S4    | 22 | 26 | 4  | 86  | -   |
|     | 8             | 1610      | S2    | 36 | 26 | 10 | -   | 92  |
|     | 12            | 1610      | S2    | 50 | 26 | 24 | -   | 92  |
|     | 16            | 2012      | S2    | 64 | 32 | 32 | -   | 92  |
| 118 | 4             | 1610      | S4    | 22 | 26 | 4  | 86  | -   |
|     | 8             | 1610      | S2    | 36 | 26 | 10 | -   | 98  |
|     | 12            | 1610      | S2    | 50 | 26 | 24 | -   | 98  |
|     | 16            | 2012      | S2    | 64 | 32 | 32 | -   | 98  |
| 125 | 4             | 1610      | S4    | 22 | 26 | 4  | 86  | -   |
|     | 8             | 1610      | S2    | 36 | 26 | 10 | -   | 105 |
|     | 12            | 1610      | S2    | 50 | 26 | 24 | -   | 105 |
|     | 16            | 2012      | S2    | 64 | 32 | 32 | -   | 105 |
| 132 | 4             | 1610      | S4    | 22 | 26 | 4  | 86  | -   |
|     | 8             | 1610      | S2    | 36 | 26 | 10 | -   | 112 |
|     | 12            | 2012      | S2    | 50 | 32 | 18 | -   | 112 |
|     | 16            | 2012      | S2    | 64 | 32 | 32 | -   | 112 |
| 140 | 4             | 1610      | S4    | 22 | 26 | 4  | 86  | -   |
|     | 8             | 2012      | S2    | 36 | 32 | 10 | -   | 120 |
|     | 12            | 2012      | S2    | 50 | 32 | 18 | -   | 120 |
|     | 16            | 2012      | S2    | 64 | 32 | 32 | -   | 120 |
| 150 | 4             | 2012      | S4    | 22 | 32 | 10 | 104 | -   |
|     | 8             | 2012      | S2    | 36 | 32 | 4  | -   | 130 |
|     | 12            | 2012      | S2    | 50 | 32 | 18 | -   | 130 |
|     | 16            | 2517      | S2    | 64 | 45 | 19 | -   | 130 |
| 160 | 4             | 2012      | S4    | 22 | 32 | 10 | 104 | -   |
|     | 8             | 2012      | S2    | 36 | 32 | 4  | -   | 140 |
|     | 12            | 2012      | S2    | 50 | 32 | 18 | -   | 140 |
|     | 16            | 2517      | S2    | 64 | 45 | 19 | -   | 140 |
| 170 | 4             | 2012      | P3    | 22 | 32 | 10 | 104 | 150 |
|     | 8             | 2012      | S2    | 36 | 32 | 4  | -   | 150 |
|     | 12            | 2517      | S2    | 50 | 45 | 5  | -   | 150 |
|     | 16            | 2517      | S2    | 64 | 45 | 19 | -   | 150 |
| 180 | 4             | 2012      | P3    | 22 | 32 | 10 | 104 | 160 |
|     | 8             | 2517      | P3    | 36 | 45 | 9  | 117 | 160 |
|     | 12            | 2517      | P1    | 50 | 45 | 5  | 117 | 160 |
|     | 16            | 2517      | P1    | 64 | 45 | 19 | 117 | 160 |
| 190 | 4             | 2012      | P3    | 22 | 32 | 10 | 104 | 170 |
|     | 8             | 2517      | P3    | 36 | 45 | 9  | 117 | 170 |
|     | 12            | 2517      | P1    | 50 | 45 | 5  | 117 | 170 |
|     | 16            | 2517      | P1    | 64 | 45 | 19 | 117 | 170 |
| 200 | 4             | 2012      | P3    | 22 | 32 | 10 | 104 | 180 |
|     | 8             | 2517      | P3    | 36 | 45 | 9  | 117 | 180 |
|     | 12            | 2517      | P1    | 50 | 45 | 5  | 117 | 180 |
|     | 16            | 2517      | P1    | 64 | 45 | 19 | 117 | 180 |



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## PV Section K

| De  | Groove Number | Bush Size | Style | F  | L  | N  | M   | Di  |
|-----|---------------|-----------|-------|----|----|----|-----|-----|
| 212 | 4             | 2012      | P3    | 22 | 32 | 10 | 104 | 192 |
|     | 8             | 2517      | P3    | 36 | 45 | 9  | 117 | 192 |
|     | 12            | 2517      | P1    | 50 | 45 | 5  | 117 | 192 |
|     | 16            | 2517      | P1    | 64 | 45 | 19 | 117 | 192 |
| 224 | 4             | 2012      | A1    | 22 | 32 | 10 | 104 | 204 |
|     | 8             | 2517      | P3    | 36 | 45 | 9  | 117 | 204 |
|     | 12            | 2517      | P1    | 50 | 45 | 5  | 117 | 204 |
|     | 16            | 2517      | P1    | 64 | 45 | 19 | 117 | 204 |
| 236 | 4             | 2012      | A1    | 22 | 32 | 10 | 104 | 216 |
|     | 8             | 2517      | A1    | 36 | 45 | 9  | 117 | 216 |
|     | 12            | 2517      | A2    | 50 | 45 | 5  | 117 | 216 |
|     | 16            | 2517      | A2    | 64 | 45 | 19 | 117 | 216 |
| 250 | 4             | 2012      | A1    | 22 | 32 | 10 | 104 | 230 |
|     | 8             | 2517      | A1    | 36 | 45 | 9  | 117 | 230 |
|     | 12            | 2517      | A2    | 50 | 45 | 5  | 117 | 230 |
|     | 16            | 2517      | A2    | 64 | 45 | 19 | 117 | 230 |
| 265 | 4             | 2517      | A1    | 22 | 45 | 23 | 117 | 245 |
|     | 8             | 2517      | A1    | 36 | 45 | 9  | 117 | 245 |
|     | 12            | 2517      | A2    | 50 | 45 | 5  | 117 | 245 |
|     | 16            | 3020      | A2    | 64 | 51 | 13 | 144 | 245 |
| 280 | 4             | 2517      | A1    | 22 | 45 | 23 | 117 | 260 |
|     | 8             | 2517      | A1    | 36 | 45 | 9  | 117 | 260 |
|     | 12            | 2517      | A2    | 50 | 45 | 5  | 117 | 260 |
|     | 16            | 3020      | A2    | 64 | 51 | 13 | 144 | 260 |
| 300 | 4             | 2517      | A1    | 22 | 45 | 23 | 117 | 280 |
|     | 8             | 2517      | A1    | 36 | 45 | 9  | 117 | 280 |
|     | 12            | 2517      | A2    | 50 | 45 | 5  | 117 | 280 |
|     | 16            | 3020      | A2    | 64 | 51 | 13 | 144 | 280 |
| 315 | 4             | 2517      | A1    | 22 | 45 | 23 | 117 | 290 |
|     | 8             | 2517      | A1    | 36 | 45 | 9  | 117 | 290 |
|     | 12            | 3020      | A1    | 50 | 51 | 1  | 144 | 290 |
|     | 16            | 3020      | A2    | 64 | 51 | 13 | 144 | 290 |
| 335 | 4             | 2517      | A1    | 22 | 45 | 23 | 117 | 310 |
|     | 8             | 2517      | A1    | 36 | 45 | 9  | 117 | 310 |
|     | 12            | 3020      | A1    | 50 | 51 | 1  | 144 | 310 |
|     | 16            | 3020      | A2    | 64 | 51 | 13 | 144 | 310 |
| 355 | 4             | 2517      | A1    | 22 | 45 | 23 | 117 | 330 |
|     | 8             | 2517      | A1    | 36 | 45 | 9  | 117 | 330 |
|     | 12            | 3020      | A1    | 50 | 51 | 1  | 144 | 330 |
|     | 16            | 3020      | A2    | 64 | 51 | 13 | 144 | 330 |
| 375 | 4             | 2517      | A1    | 22 | 45 | 23 | 117 | 350 |
|     | 8             | 3020      | A1    | 36 | 51 | 15 | 144 | 350 |
|     | 12            | 3020      | A1    | 50 | 51 | 1  | 144 | 350 |
|     | 16            | 3020      | A2    | 64 | 51 | 13 | 144 | 350 |
| 400 | 4             | 2517      | A1    | 22 | 45 | 23 | 117 | 375 |
|     | 8             | 3020      | A1    | 36 | 51 | 15 | 144 | 375 |
|     | 12            | 3020      | A1    | 50 | 51 | 1  | 144 | 375 |
|     | 16            | 3535      | A1    | 64 | 89 | 13 | 172 | 375 |
| 425 | 4             | 3020      | A1    | 22 | 51 | 29 | 144 | 400 |
|     | 8             | 3020      | A1    | 36 | 51 | 15 | 144 | 400 |
|     | 12            | 3020      | A1    | 50 | 51 | 1  | 144 | 400 |
|     | 16            | 3535      | A1    | 64 | 89 | 13 | 172 | 400 |
| 450 | 4             | 3020      | A1    | 22 | 51 | 29 | 144 | 425 |
|     | 8             | 3020      | A1    | 36 | 51 | 15 | 144 | 425 |
|     | 12            | 3020      | A1    | 50 | 51 | 1  | 144 | 425 |
|     | 16            | 3535      | A1    | 64 | 89 | 13 | 172 | 425 |



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