






# maurey hi-q cast iron variable pitch sheaves



-  Permits Variation of as much as 30% in speed when used with sheaves of fixed diameter
-  Removable lock key in common commercial design (Style 2 parts).
-  Strong cast iron construction ensures long life of groove and bore and keyway.




- TYPE 1 -** One setscrew over flat. Machined all over to assure close balance
- TYPE 2 -** One setscrew over removable lock key. Key must be replaced and locked in position by setscrew(s) before operation. All components are individually balanced before assembly to assure close balancing tolerances.

| SINGLE GROOVE VARIABLE PITCH SHEAVES |                |               |      |                         |     |     |     |   |       |       |                            |                         |
|--------------------------------------|----------------|---------------|------|-------------------------|-----|-----|-----|---|-------|-------|----------------------------|-------------------------|
| O.D.<br>Diameter<br>Inches           | Part<br>Number | List<br>Price | Type | STOCK BORES<br>MARKED X |     |     |     |   |       |       | Overall<br>Width<br>Inches | Approx<br>Weight<br>Lbs |
|                                      |                |               |      | 1/2                     | 5/8 | 3/4 | 7/8 | 1 | 1-1/8 | 1-3/8 |                            |                         |
| 2.32                                 | 1VP25          | \$ 23.60      | 1    | X                       | X   |     |     |   |       |       | 1-19/32                    | 0.7                     |
| 2.87                                 | 1VP30          | \$ 24.68      | 1    | X                       | X   |     |     |   |       |       | 1-21/32                    | 1.1                     |
| 3.15                                 | 1VP34          | \$ 24.00      | 1    | X                       | X   | X   | X   |   |       |       | 1-7/8                      | 1.4                     |
| 3.75                                 | 1VP40          | \$ 31.20      | 1    | X                       | X   | X   | X   |   |       |       | 1-7/8                      | 1.9                     |
| 4.15                                 | 1VP44          | \$ 33.58      | 1    | X                       | X   | X   |     |   |       |       | 1-7/8                      | 2.4                     |
| 4.15                                 | 1VP44          | \$ 46.40      | 2    |                         |     |     | X   | X | X     |       | 1-7/8                      | 2.9                     |
| 4.75                                 | 1VP50          | \$ 40.40      | 1    | X                       | X   | X   |     |   |       |       | 2                          | 2.9                     |
| 4.75                                 | 1VP50          | \$ 56.56      | 2    |                         |     |     | X   | X | X     |       | 1-7/8                      | 3.6                     |
| 5.35                                 | 1VP56          | \$ 59.00      | 1    | X                       | X   | X   |     |   |       |       | 1-7/8                      | 3.8                     |
| 5.35                                 | 1VP56          | \$ 76.20      | 2    |                         |     |     | X   | X | X     |       | 1-7/8                      | 4.4                     |
| 6.00                                 | 1VP60 *        | \$ 92.50      | 2    |                         |     |     | X   | X | X     | X     | 1-21/32                    | 6.5                     |
| 6.00                                 | 1VP62 *        | \$ 93.40      | 2    |                         | X   | X   | X   | X | X     | X     | 1-29/32                    | 6.1                     |
| 6.50                                 | 1VP65 *        | \$ 97.76      |      |                         |     |     | X   |   | X     | X     | 1-21/32                    | 6.8                     |
| 6.55                                 | 1VP68 *        | \$ 97.80      | 2    |                         |     | X   | X   | X | X     | X     | 1-29/32                    | 7.3                     |
| 7.10                                 | 1VP71 *        | \$ 104.21     | 2    |                         |     |     |     |   | X     | X     | 1-21/32                    | 8.2                     |
| 7.50                                 | 1VP75 *        | \$ 140.92     | 2    |                         |     |     | X   | X | X     | X     | 1-21/32                    | 9.2                     |

Dimensions Held to commercially acceptable tolerances For Standard Keyway Dimensions See Chart in Section A  
 \* - HAS NO HUB PROJECTION

| SINGLE GROOVE VARIABLE PITCH SHEAVES |       |                                |               |              |               |                           |               |              |               |                           |               |              |               |
|--------------------------------------|-------|--------------------------------|---------------|--------------|---------------|---------------------------|---------------|--------------|---------------|---------------------------|---------------|--------------|---------------|
| PART<br>NUMBER                       | TYPE  | PITCH DIAMETER AND PITCH RANGE |               |              |               |                           |               |              |               |                           |               |              |               |
|                                      |       | 3L BELTS                       |               |              |               | "A" HY-T "AX" TORQUE-FLEX |               |              |               | "B" HY-T "BX" TORQUE FLEX |               |              |               |
|                                      |       | MIN<br>PITCH                   | TURNS<br>OPEN | MAX<br>PITCH | TURNS<br>OPEN | MIN<br>Datum              | TURNS<br>OPEN | MAX<br>Datum | TURNS<br>OPEN | MIN<br>Datum              | TURNS<br>OPEN | MAX<br>Datum | TURNS<br>OPEN |
| 1VP25                                | 1     | 1.4                            | 4             | 2.2          | 0             |                           |               |              |               |                           |               |              |               |
| 1VP30                                | 1     | 1.8                            | 4             | 2.7          | 0             |                           |               |              |               |                           |               |              |               |
| 1VP34                                | 1     | 1.7                            | 4             | 2.5          | 0             | 1.9                       | 5             | 2.9          | 0             | 2.4                       | 5             | 3.2          | 1             |
| 1VP40                                | 1     | 2.3                            | 4             | 3.1          | 0             | 2.4                       | 5             | 3.4          | 0             | 2.7                       | 6             | 3.7          | 1             |
| 1VP44                                | 1 & 2 | 2.7                            | 4             | 3.5          | 0             | 2.8                       | 5             | 3.8          | 0             | 3.1                       | 6             | 4.1          | 1             |
| 1VP50                                | 1 & 2 | 3.3                            | 4             | 4.1          | 0             | 3.4                       | 5             | 4.4          | 0             | 3.7                       | 6             | 4.7          | 1             |
| 1VP56                                | 1 & 2 | 3.9                            | 4             | 4.7          | 0             | 4.0                       | 5             | 5.0          | 0             | 4.3                       | 6             | 5.3          | 1             |
| 1VP60                                | 2     |                                |               |              |               | 4.2                       | 5             | 5.2          | 0             | 4.3                       | 6             | 5.5          | 0             |
| 1VP62                                | 2     | 4.5                            | 4             | 5.3          | 0             | 4.6                       | 5             | 5.6          | 0             | 4.9                       | 6             | 5.9          | 1             |
| 1VP65                                | 2     |                                |               |              |               | 4.7                       | 5             | 5.7          | 0             | 4.8                       | 6             | 6.0          | 0             |
| 1VP68                                | 2     | 5.1                            | 4             | 5.9          | 0             | 5.2                       | 5             | 6.2          | 0             | 5.5                       | 6             | 6.5          | 1             |
| 1VP71                                | 2     |                                |               |              |               | 5.3                       | 5             | 6.3          | 0             | 5.4                       | 6             | 6.6          | 0             |
| 1VP75                                | 2     |                                |               |              |               | 5.7                       | 5             | 6.7          | 0             | 5.8                       | 6             | 7.0          | 0             |

 Not recommended for use with this belt cross section.