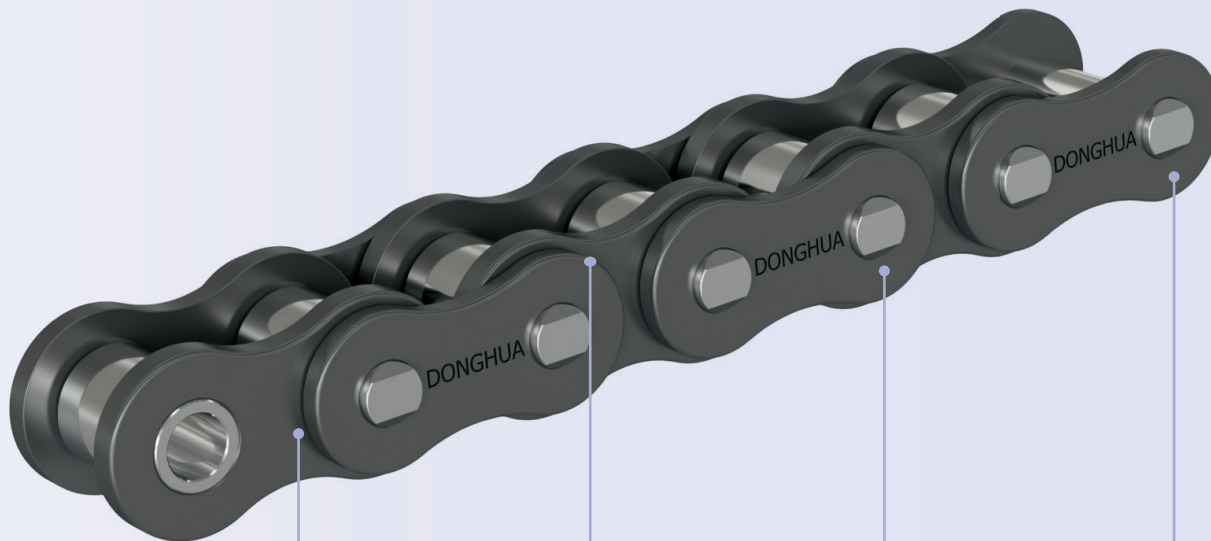


# H (Heavy)

Improved shockload resistance due to thicker plates



Thicker plates

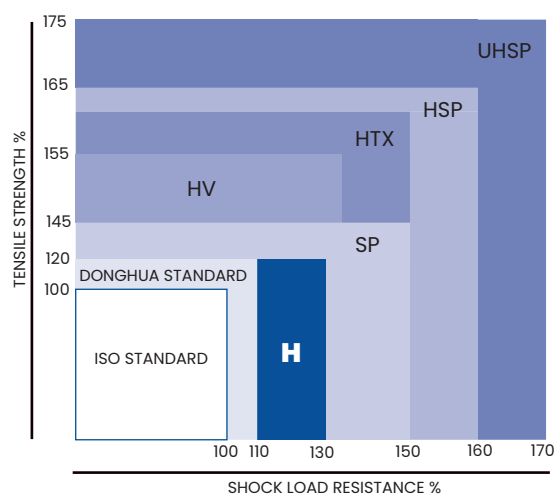
Higher fatigue resistance

Consistent high quality

ANSI norm

## H (Heavy)

The Heavy Duty ANSI series is engineered for demanding applications and harsh operating environments. The plates are designed with an increased thickness equivalent to the next larger pitch size. Compared to the ISO standard, the Heavy Duty Series provides up to 30% higher fatigue resistance, making it better suited for applications with elevated shock and impact loads.

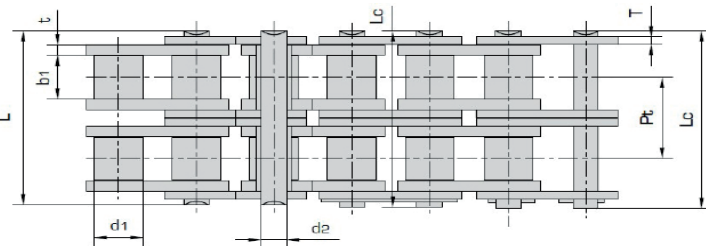
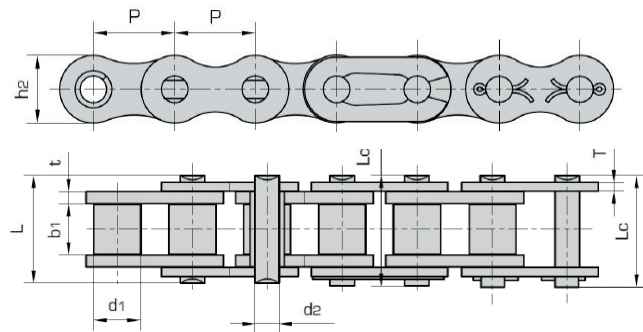


### Technical highlights

- Plates have the thickness of one larger pitch size
- Up to 30% higher fatigue strength compared to the ISO standard
- Curled bush up to 1 1/4
- Seamless bush from 1 1/2
- Offers higher tensile strength than ISO/DIN requirements
- Chains are pre-loaded at 40 to 50% of the breaking load
- Standard pre-lubricated with DH-1 (temp range -5 to 80 °C)
- Alternative lubricants available for special applications upon request
- Available in multi strands

### Industries

- Agricultural machinery
- Construction
- Wood industry
- Material handling



| Donghua Chain no. |        |                 | Width between inner plates | Pin diameter | Pin length |        | Inner plate depth | Plate thickness | Transverse pitch | Tensile strength |                 |           | Weight per meter |
|-------------------|--------|-----------------|----------------------------|--------------|------------|--------|-------------------|-----------------|------------------|------------------|-----------------|-----------|------------------|
|                   | Pitch  | Roller diameter |                            |              |            |        |                   |                 |                  | Acc. to ISO      | Acc. to Donghua |           |                  |
|                   | P      | dI max          | bI min                     | d2 max       | L max      | Lc max | h2 max            | t/T max         | Pt               | F min            | F min           | F Average | q                |
|                   | mm     | mm              | mm                         | mm           | mm         | mm     | mm                | mm              | mm               | mm               | kN              | kN        | kN               |
| ANSI-Simplex      |        |                 |                            |              |            |        |                   |                 |                  |                  |                 |           |                  |
| *25-1 H           | 6,350  | 3,30            | 3,18                       | 2,31         | 8,9        | 9,4    | 6,00              | 1,30            | -                | 3,50             | 4,50            | 5,00      | 0,15             |
| *35-1 H           | 9,525  | 5,08            | 4,77                       | 3,58         | 13,3       | 14,3   | 9,00              | 1,50            | -                | 7,90             | 10,20           | 11,30     | 0,33             |
| 40-1 H            | 12,700 | 7,95            | 7,85                       | 3,96         | 18,8       | 19,9   | 12,00             | 2,03            | -                | 14,10            | 16,70           | 18,60     | 0,62             |
| 50-1 H            | 15,870 | 10,16           | 9,40                       | 5,08         | 22,1       | 23,4   | 15,09             | 2,42            | -                | 22,20            | 28,20           | 31,30     | 1,02             |
| 60-1 H            | 19,050 | 11,91           | 12,57                      | 5,94         | 29,2       | 31,0   | 18,00             | 3,25            | -                | 31,80            | 38,90           | 43,20     | 1,50             |
| 80-1 H            | 25,400 | 15,88           | 15,75                      | 7,92         | 36,2       | 37,7   | 24,00             | 4,00            | -                | 56,70            | 66,90           | 74,30     | 2,60             |
| 100-1 H           | 31,750 | 19,05           | 18,90                      | 9,53         | 43,6       | 46,9   | 30,00             | 4,80            | -                | 88,50            | 96,80           | 107,60    | 3,91             |
| 120-1 H           | 38,100 | 22,23           | 25,22                      | 11,10        | 53,5       | 57,5   | 35,70             | 5,60            | -                | 127,00           | 146,80          | 163,10    | 5,62             |
| 140-1 H           | 44,450 | 25,40           | 25,22                      | 12,70        | 57,6       | 62,2   | 41,00             | 6,4             | -                | 172,40           | 200,30          | 222,50    | 7,50             |
| 160-1 H           | 50,800 | 28,58           | 31,55                      | 14,27        | 68,2       | 73,0   | 47,80             | 7,20            | -                | 226,80           | 240,20          | 266,90    | 10,10            |
| ANSI-Duplex       |        |                 |                            |              |            |        |                   |                 |                  |                  |                 |           |                  |
| #60-2 H           | 19,050 | 11,91           | 12,57                      | 5,94         | 55,3       | 57,1   | 18,00             | 3,25            | 26,11            | 62,6             | 63,6            | 84,5      | 3,97             |
| #80-2 H           | 25,400 | 15,88           | 15,75                      | 7,92         | 68,8       | 72,0   | 24,00             | 4,00            | 32,59            | 111,20           | 113,4           | 145,3     | 6,65             |
| #100-2 H          | 31,750 | 19,05           | 18,90                      | 9,53         | 82,7       | 86,0   | 30,00             | 4,80            | 39,09            | 174,00           | 177,0           | 225,9     | 9,71             |
| #120-2 H          | 38,100 | 22,23           | 25,22                      | 11,10        | 102,4      | 106,4  | 35,70             | 5,60            | 48,87            | 250,00           | 254,0           | 322,7     | 14,12            |
| #140-2 H          | 44,450 | 25,40           | 25,22                      | 12,70        | 109,8      | 114,4  | 41,00             | 6,4             | 52,20            | 340,00           | 344,8           | 437,7     | 17,38            |
| #160-2 H          | 50,800 | 28,58           | 31,55                      | 14,27        | 130,1      | 134,9  | 47,80             | 7,20            | 61,90            | 446,00           | 453,6           | 571,6     | 23,00            |
| ANSI-Triplex      |        |                 |                            |              |            |        |                   |                 |                  |                  |                 |           |                  |
| #60-3 H           | 19,050 | 11,91           | 12,57                      | 5,94         | 81,4       | 83,2   | 18,00             | 3,25            | 26,11            | 93,90            | 95,5            | 113,9     | 5,95             |
| #80-3 H           | 25,400 | 15,88           | 15,75                      | 7,92         | 101,4      | 104,6  | 24,00             | 4,00            | 32,59            | 166,80           | 170,1           | 203,5     | 9,95             |
| #100-3 H          | 31,750 | 19,05           | 18,90                      | 9,53         | 121,8      | 125,1  | 30,00             | 4,80            | 39,09            | 261,00           | 265,5           | 314,8     | 14,53            |
| #120-3 H          | 38,100 | 22,23           | 25,22                      | 11,10        | 151,2      | 155,2  | 35,70             | 5,60            | 48,87            | 375,00           | 381,0           | 444,7     | 21,12            |
| #140-3 H          | 44,450 | 25,40           | 25,22                      | 12,70        | 162,0      | 166,6  | 41,00             | 6,4             | 52,20            | 510,00           | 517,2           | 598,4     | 25,88            |
| #160-3 H          | 50,800 | 28,58           | 31,55                      | 14,27        | 192,0      | 196,8  | 47,80             | 7,20            | 61,90            | 669,00           | 680,4           | 787,3     | 34,22            |

\*Bush chain: d1 in the table indicates the external diameter of the bush

#Special sprocket required due to the transverse pitch than ANSI standard



**A**  
Outer Link



**B**  
Inner Link



**C**  
Double Offset Link



**E**  
Connecting Link Spring



**L**  
Single Offset Link



**S**  
Connecting Link Cotter

## Notes

- Double pitch conveyor chains are available upon request
- Attachments and extended pins are available upon request
- Chains with straight side plates are available
- British Standard and worksnorm available
- Different sizes are available upon request

## Contact

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