



**ComInTec®**  
Safety in Power Transmission

# CHAIN COUPLING

up to 8,000 Nm and 110 mm bore diameters



Ed.04/2024



- Download catalog
- Download instruction sheets

# GC

## GC - chain coupling: technical data



- Made in steel fully turned with standard treatment of phosphating.
- Negligible power loss, absorbed by the coupling.
- Simple manufacturing.
- Hardening of hub teeth.
- Optimum quality / price ratio.
- Maintenance without moving the hubs axially.

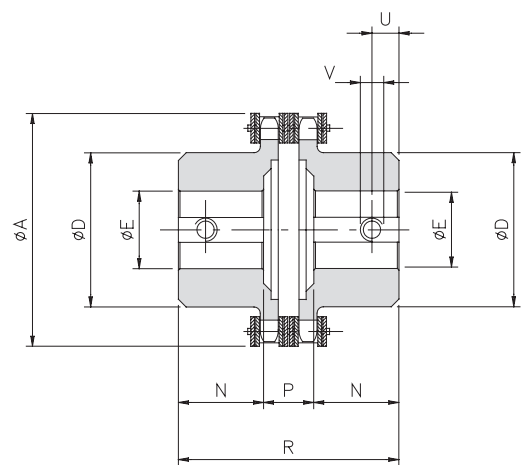
### ON REQUEST

- Various hub connection type available on the hubs.
- Specific surface treatments.
- Customised versions for specific needs.
- Connection to the Torque limiter's (safety coupling) range possible.

The chain coupling GC consists of two steel sprockets, machined and connected by a double chain. The manufacture of the coupling completely in steel allows to use at high temperatures and reduce the loss of power between the driving and driven.

### DIMENSIONS

| Size | A   | D   | E H7  |     | N   | P    | R     | U  | V   |
|------|-----|-----|-------|-----|-----|------|-------|----|-----|
|      |     |     | pilot | max |     |      |       |    |     |
| 01   | 45  | 25  | 8     | 12  | 9   | 13   | 31    | 4  | M3  |
| 00   | 57  | 37  | 10    | 20  | 20  | 21   | 61    | 5  | M3  |
| 0    | 75  | 50  | 12    | 28  | 19  | 23   | 61    | 8  | M4  |
| 1    | 101 | 70  | 16    | 38  | 29  | 29   | 87    | 12 | M6  |
| 2    | 126 | 89  | 20    | 55  | 38  | 32   | 108   | 12 | M6  |
| 3    | 159 | 110 | 20    | 70  | 56  | 24,5 | 142,5 | 15 | M8  |
| 4    | 183 | 130 | 28    | 80  | 59  | 37   | 155   | 15 | M8  |
| 5    | 216 | 130 | 30    | 80  | 88  | 40   | 216   | 15 | M8  |
| 6    | 291 | 150 | 40    | 90  | 103 | 46   | 252   | 25 | M10 |
| 7    | 310 | 170 | 50    | 110 | 124 | 47   | 295   | 25 | M10 |



### TECHNICAL CHARACTERISTICS

| Size | Max torque<br>[Nm] | Pitch<br>(double chain)<br>ISO-R 606 | Weight<br>[kg] | Inertia<br>[kgm <sup>2</sup> ] | Max speed<br>[Rpm] | Misalignments        |              |               |
|------|--------------------|--------------------------------------|----------------|--------------------------------|--------------------|----------------------|--------------|---------------|
|      |                    |                                      |                |                                |                    | Angular $\alpha$ [°] | Axial X [mm] | Radial K [mm] |
| 01   | 140                | 3/8" x 7/32" z12                     | 0,2            | 0,00002                        | 6000               | 2°                   | 1,50         | 0,20          |
| 00   | 190                | 3/8" x 7/32" z16                     | 0,6            | 0,00009                        | 5000               |                      | 1,50         | 0,20          |
| 0    | 600                | 3/8" x 7/32" z22                     | 1,0            | 0,00030                        | 3800               |                      | 1,50         | 0,20          |
| 1    | 700                | 1/2" x 5/16" z22                     | 2,7            | 0,00148                        | 2800               |                      | 2,40         | 0,25          |
| 2    | 1400               | 3/4" x 7/16" z18                     | 5,4            | 0,00497                        | 2200               |                      | 3,20         | 0,30          |
| 3    | 2500               | 1" x 17,02 z17                       | 11,8           | 0,01817                        | 1800               |                      | 4,50         | 0,35          |
| 4    | 3200               | 1" x 17,02 z20                       | 16,9           | 0,03530                        | 1500               |                      | 4,80         | 0,40          |
| 5    | 4000               | 1" x 17,02 z24                       | 19,5           | 0,05333                        | 1300               |                      | 4,80         | 0,40          |
| 6    | 7000               | 1" 1/4 x 3/4" z26                    | 42,5           | 0,19027                        | 1000               |                      | 6,30         | 0,50          |
| 7    | 8000               | 1" 1/4 x 3/4" z28                    | 58,6           | 0,28643                        | 900                |                      | 6,30         | 0,50          |

### ORDER EXAMPLE

| CHAIN COUPLING               |      |                      |                       |                                                          |                       |
|------------------------------|------|----------------------|-----------------------|----------------------------------------------------------|-----------------------|
| Model                        | Size | Bore 1               | Hub connection bore 1 | Bore 2                                                   | Hub connection bore 2 |
| GC                           | 6    | d1=80 H7             | A1                    | d2=70 H7                                                 | A1                    |
| Model<br>GC : chain coupling |      | Size<br>From 01 to 7 |                       | Hub connection<br>see hub connection type list at page 4 |                       |

### NOTES

- The weights refer to the coupling with minimum bore.
- Inertias refer to the coupling with maximum bore.
- For choice and availability of different hub connection type see pages 4 and 5.