



700 series.

Bonfiglioli products are used in the latest state-of-the-art wind turbines to control the necessary functions of pitch and yaw drives systems. The 700T series planetary speed reducers are used by a number of leading wind turbine manufacturers thanks to their advanced technical features, creating the highest level of performance.

There can be from 3 up to 5 reduction stages (all of them with a planetary design), depending upon the total required reduction ratio. Each stage may have from 3 up to 4 planets (to increase the deliverable torque). The gears are made of alloyed steel and are heat treated (case hardening for suns & planets, induction hardening or nitriding for internal toothed rings).

The planets are supported by roller bearings or full rollers track bearings to obtain an high efficiency during the phases of starting and running. The output housing is made by nodular cast iron and designed to hold the heavy loads generated during the machine's job.

Key Features

- flange mounted
- output shaft: splined or with integral pinion
- rugged construction
- high torque capacity
- output shafts supported by heavy duty bearings

Torque Range

2500 ... 300000 Nm

Gear Ratios

60 ... 3000

General features

High transmissible torque
 High radial/thrust load capacity
 High shock resistance and designed for heavy duty
 Wide range of reduction ratios (from 60 up to 3000)
 High efficiency
 Compact dimensions
 Low weight
 Low cost

Standards

Gears are designed according to ISO 6336
 Modular design
 In line or right angle design
 Different output versions
 Input for electric motor (IEC, NEMA and compact)

Yaw drive					
Type	Nominal torque	Peak static torque	Range of ratios	Available pinion module	Weight
	Nm	Nm	1:	m	kg
706 T	8000	15000	600-3000	10 ÷ 14	120
707 T	12000	25000	600-3000	12 ÷ 16	170
709 T	21000	52000	600-3000	12 ÷ 20	300
710 T	25000	60000	600-3000	14 ÷ 20	350
711 T	30000	75000	600-3000	16 ÷ 20	400
712 T	42000	105000	600-3000	16 ÷ 20	550
714 T	60000	150000	600-3000	20 ÷ 24	650
716 T	80000	200000	600-3000	22 ÷ 26	1000
717 T	100000	250000	600-3000	26 ÷ 30	1800
718 T	120000	300000	600-3000	30 ÷ 36	2100

The indicated data are for reference only; please contact Bonfiglioli Group for more detailed information.

Pitch drive					
Type	Nominal torque	Peak static torque	Range of ratios	Available pinion module	Weight
	Nm	Nm	1:	m	kg
703 T	2500	4500	100-250	10 ÷ 12	60
705 T	4000	8000	100-250	10 ÷ 12	90
706 T	8000	16500	100-250	10 ÷ 14	120
707 T	25000	25000	100-250	12 ÷ 16	170
709 T	12000	40000	100-250	12 ÷ 20	300
710 T	25000	55000	100-250	14 ÷ 20	350
711 T	35000	70000	100-250	16 ÷ 20	400

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