

GREUBEL FORSEY

ART *f* INVENTION

TECHNICAL DETAILS

Tourbillon Cardan

In titanium

Hand-wound movement with patented Cardan Tourbillon

Cardan Tourbillon • hours and minutes • small seconds • power-reserve

Movement

Movement dimensions

- Overall diameter: 39.60 mm
- Thickness: 13.53 mm

Number of parts

- Movement: 389 parts
- Cardan tourbillon cages: 98 parts
- Weight of the cage: 0.92 g

Number of jewels

- 49
- Olived-domed jewels in gold chatons

Chronometric power reserve

- 80 hours

Barrels

- Four coaxial series-coupled fast-rotating barrels (1 turn in 2.7 hours), one of which is equipped with a slipping spring to avoid excess tension
- Relief-engraved text, circular-grained, black treatment, polished chamfer

Balance wheel

- In-house variable-inertia with 6 gold mean-time screws (12.60 mm diameter)

Frequency

- 21'600 vibrations/hour

Balance spring

- Phillips terminal curve
- Geneva-style stud

Bridges and main plates

- Titanium and nickel silver, frosted and spotted, polished bevelling and countersinks, straight-grained flanks
- Hand-bevelled and openworked cage pillars

Movement side

- Flat black polished steel tourbillon bridge, polished bevelling and countersinks
- Gold plate engraved with the individual number, circular-grained, polished bevelling, straight-grained flanks

Cardan Tourbillon

- Ultra-fast inner tourbillon cage (1 rotation in 16 seconds) in titanium, barrel-polished and hand-

bevelled, inclined at a 30° angle with gold counterweight

- Outer flying Cardan cages, 48-seconds cycle, double variable tilt at 30°, polished and hand-bevelled, straight-grained flanks

Gearing

- Involute circle profile
- Conical gearing with profiled teeth

Displays

- Hours and minutes
- Small seconds
- Power reserve on a sector

Exterior

Case

- Titanium with high domed synthetic sapphire crystal
- Transparent back with high domed synthetic sapphire crystal
- Hand-polished bezel, caseband with hand-finished straight graining
- Titanium security screws
- Raised polished engraving "Tourbillon Cardan" and "Greubel Forsey" on a hand-punched background

Case dimensions

- Caseband diameter: 45.50 mm
- Bezel diameter: 46.00 mm
- Case height: 13.81 mm
- Height on synthetic sapphire crystals: 18.15 mm

Water resistance of the case

- Water-resistant 3 atm - 30 m - 100 ft (standard NIHS 92-20/SN ISO 22810:2010)

Crown

- Titanium, polished, with GF logo

Dial side

- Multi-level gold dial with openworked pillars, circular-grained with engraved and lacquered minute-circle, polished flanks
- Gold hour markers
- Small seconds and power-reserve indicators in gold, engraved and lacquered
- Engraved and lacquered GF logo

Hands

- Hours and minutes in polished steel, with Super-LumiNova
- Small seconds and power-reserve in polished steel, hand-polished countersink, flat black polished head

Strap and clasp

- Non-animal material, hand-sewn
- Titanium folding clasp, engraved GF logo