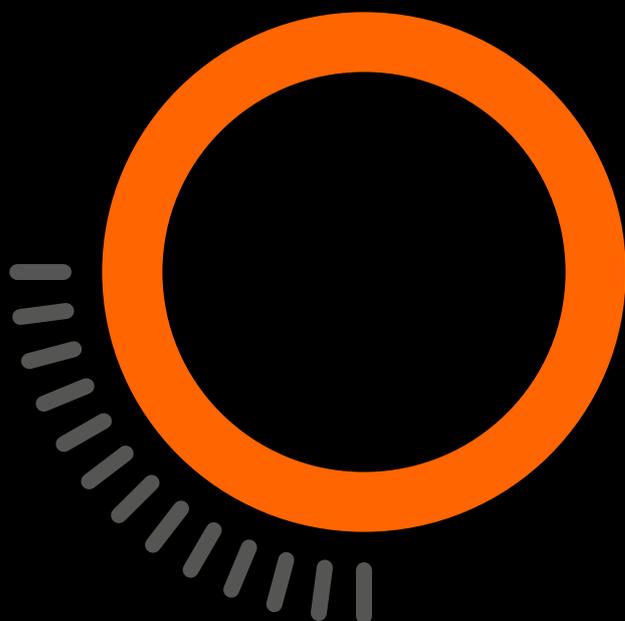


UR-105



URWERK[®]
BAUMGARTNER & FREI ZÜRICH/GENÈVE

THE UR-105 «CLOCKWORK ORANGE» BY URWERK



“Creating the Clockwork Orange is like turning an organic entity, full of juice and sweetness, into a machine.”

– Anthony Burgess



UR-105 TA CLOCKWORK ORANGE

Creators: Felix Baumgartner and Martin Frei

Engineers: Dominique Buser and Cyrano Devanthey

CNC machine tool operators: Martin Schiess and Roland Hohl

Assembly and technical finishing: Hervé Morard, Raphael Doddi and Vera Moita

It takes a long time to develop a mechanical watch like the UR-105TA — three years of research before even starting.

But how long does it take to build such a mechanism? We can't give you an exact figure, but we do know that to make and finish each of its parts needs hours of relentless work and concentration at the workbench.

We invite you to share key moments in the creation of the UR-105 TA Clockwork Orange.

- Fashioning and finishing: all the parts for the indications are made in our premises and decorated by hand.
- Adjusting the hours carousel and watch assembly



The UR-105 TA embodies all the years of research invested into URWERK's wandering hour satellites .



Here, the ingenuity of the mechanism lies in the invisible carousel responsible for the operation of the satellite hours.



The hidden carousel has been treated with ruthenium then bead blasted to a finish meeting the very highest standards of haute horlogerie.



Four satellites made of aluminum and mounted on their own bronze/beryllium Geneva cross - all precisely cut on URWERK's CNC machine tools - slowly orbit to display time.



Each satellite completes four 120° turns in the period between leaving the minutes arc and arriving again, displaying a new numeral.



A circular canopy with openings highlights the current hour. Once the hour has elapsed, the satellite – guided by a Geneva cross – rotates as it continues its orbit for another three hours before returning to center stage.



Each satellite indicates the time in both analogue and digital fashion as it arcs across the minutes chapter.



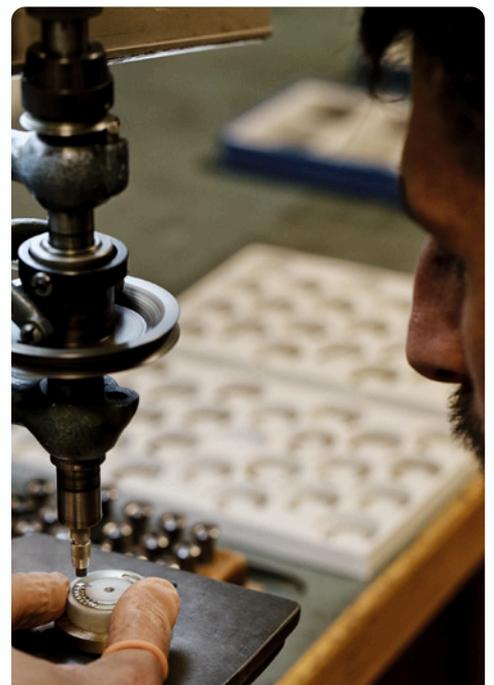
This banana-shaped minutes chapter is satin-finished and its numerals painted with orange Super-LumiNova®.



The UR-105 TA Clockwork Orange features dual air turbines on full show on the back through two sapphire glasses...



... in an impressive titanium body.



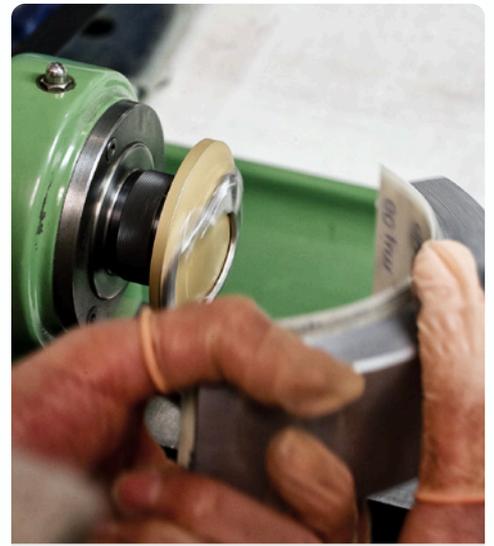
These turbines are coupled with the rotor and adjust the speed of the winding system to minimise wear.



The winding mode on the UR-105 TA is selected by a small lever in sandblasted and brushed titanium.



The selector switch controls the amount of air escaping from the turbines.



The bezel of the UR-105 TA comes in steel with a brushed finish.



It will be treated with a PVD process to turn it black.



Casing up of the movement. One of the final and most sensitive steps before a full week of testing.



Photo-reportage shot in URWERK Geneva atelier. January 2016

UR-105 TA
A.K.A. "CLOCKWORK ORANGE"

MOVEMENT

Caliber: 5.02 UR automatic winding regulated by a double turbine

Jewels: 52

Frequency: 28,800 v/h - 4 Hz

Power reserve: 48 hours

Materials: Satellite hours driven by Geneva crosses in beryllium bronze; Orbital structure of PEEK (polyetheretherketone)

Carousel and triple mainplates in ARCAP

Surface finishes: circular graining, bead-blasting, satin-finishing
Beveled screw heads

Indications: Satellite hours; minutes - hour and minute markers treated with Super-LumiNova®

CASE

Materials: UR-105 TA "Clockwork Orange" - black PVD titanium case, black PVD steel bezel

Dimensions:

width: 39.50mm; length 53mm;
height 16.80mm



CONTACT PRESS

Yacine Sar

E-mail: press@urwerk.com

Tel: +41 22 900 20 27

Mob: +41 79 834 46 65

www.urwerk.com

URWERK®
BAUMGARTNER & FREI ZÜRICH/GENÈVE