



HOROLOGICAL
MACHINE NO.2

INSPIRATION AND REALIZATION: MB&F IS FIRST AND FOREMOST ABOUT PEOPLE AND THE KEY PERSON BEHIND HOROLOGICAL MACHINE NO.2 IS JEAN-MARC WIEDERRECHT. IT WAS 9 YEARS AGO, IN MAXIMILIAN BÜSSER'S FORMER POSITION AS MANAGING DIRECTOR OF HARRY WINSTON TIMEPIECES, THAT BÜSSER FIRST BEGAN WORKING WITH WIEDERRECHT AND FOUND HIM TO BE IMAGINATIVE, INVENTIVE AND SHARING IN THE SAME HUMAN VALUES. WIEDERRECHT AND HIS COMPANY AGENHOR ARE WORLD LEADERS IN RETROGRADE AND JUMPING HOUR MECHANISMS AND BÜSSER CONCEIVED HM2'S FUNCTIONS SPECIFICALLY TO PLAY TO THESE STRENGTHS.

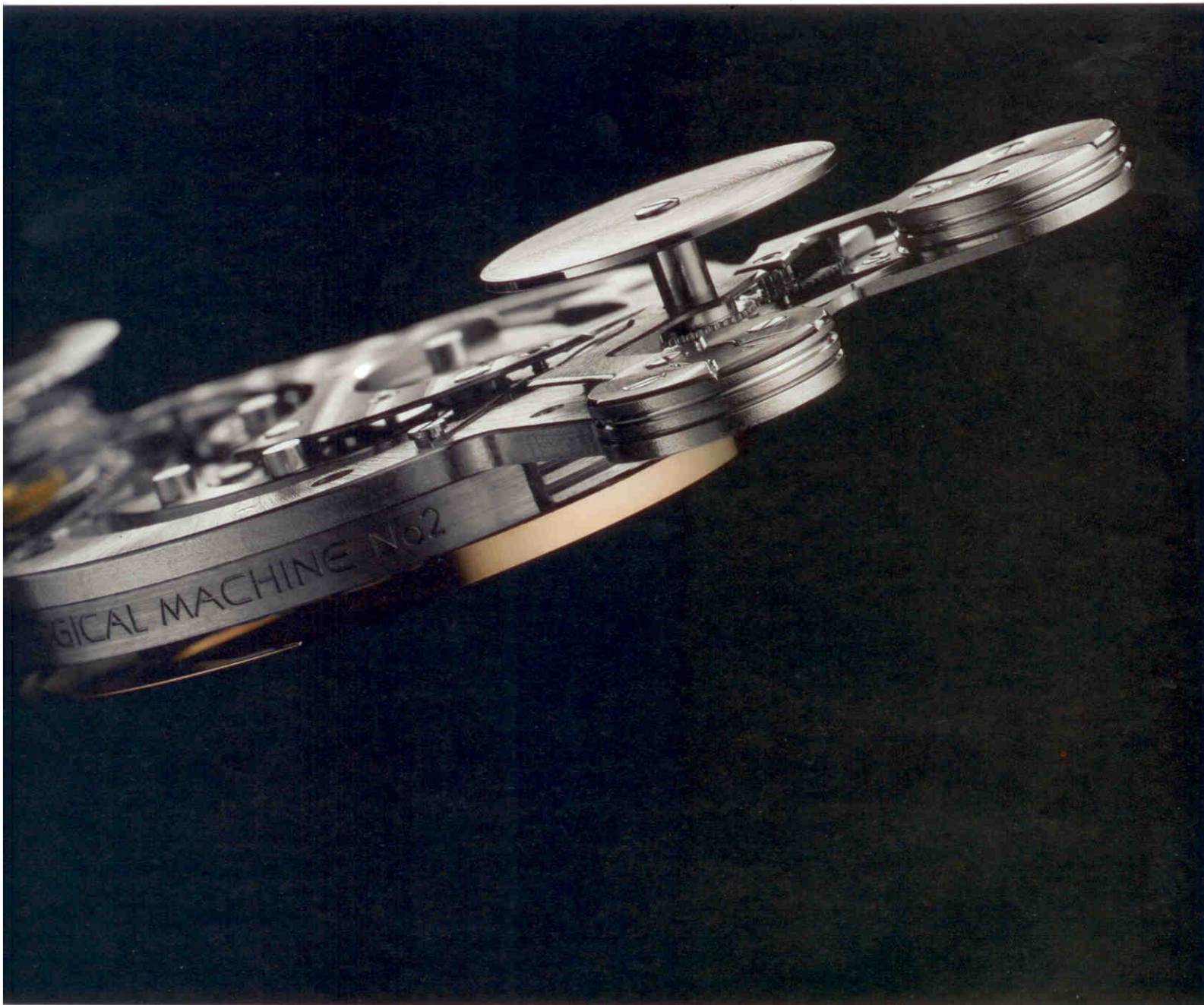
IN TRUE MB&F STYLE, JEAN-MARC WIEDERRECHT AND AGENHOR CONSTRUCTOR MAXIMILIEN DI BLASI WORKED HAND IN HAND WITH ERSTWHILE COMPETITOR PATRICK LÉTÉ OF LES ARTISANS HORLOGERS IN ENSURING THAT THE ARCHITECTURE OF THE MOVEMENT FITTED COHERENTLY AND HOLISTICALLY WITH THE ICONOCLASTIC CASE.

THE CASE, WITH ITS FLYING BUTTRESSES, BOLTED PORTHOLES AND SLIDING CROWN GUARD, WAS SO COMPLEX - OVER 100 COMPONENTS GO INTO ITS CONSTRUCTION ALONE - THAT IT COULD ONLY BE DEVELOPED WITH AN INNOVATIVE MODULAR METHOD INSPIRED BY THE MECCANO SETS OF MAXIMILIAN BÜSSER'S CHILDHOOD. AND IN LINE WITH BEST ENGINEERING PRINCIPLES, THIS MODULARITY ALSO SIMPLIFIES FUTURE REFURBISHMENT OF THE CASE SHOULD IT EVER BE NECESSARY.

INSPIRATION AND REALIZATION: MB&F IS FIRST AND FOREMOST ABOUT PEOPLE AND THE KEY PERSON BEHIND HOROLOGICAL MACHINE NO.2 IS JEAN-MARC WIEDERRECHT. IT WAS 9 YEARS AGO, IN MAXIMILIAN BÜSSER'S FORMER POSITION AS MANAGING DIRECTOR OF HARRY WINSTON TIMEPIECES, THAT BÜSSER FIRST BEGAN WORKING WITH WIEDERRECHT AND FOUND HIM TO BE IMAGINATIVE, INVENTIVE AND SHARING IN THE SAME HUMAN VALUES. WIEDERRECHT AND HIS COMPANY AGENHOR ARE WORLD LEADERS IN RETROGRADE AND JUMPING HOUR MECHANISMS AND BÜSSER CONCEIVED HM2'S FUNCTIONS SPECIFICALLY TO PLAY TO THESE STRENGTHS.

IN TRUE MB&F STYLE, JEAN-MARC WIEDERRECHT AND AGENHOR CONSTRUCTOR MAXIMILIEN DI BLASI WORKED HAND IN HAND WITH ERSTWHILE COMPETITOR PATRICK LÉTÉ OF LES ARTISANS HORLOGERS IN ENSURING THAT THE ARCHITECTURE OF THE MOVEMENT FITTED COHERENTLY AND HOLISTICALLY WITH THE ICONOCLASTIC CASE.

THE CASE, WITH ITS FLYING BUTTRESSES, BOLTED PORTHOLES AND SLIDING CROWN GUARD, WAS SO COMPLEX - OVER 100 COMPONENTS GO INTO ITS CONSTRUCTION ALONE - THAT IT COULD ONLY BE DEVELOPED WITH AN INNOVATIVE MODULAR METHOD INSPIRED BY THE MECCANO SETS OF MAXIMILIAN BÜSSER'S CHILDHOOD. AND IN LINE WITH BEST ENGINEERING PRINCIPLES, THIS MODULARITY ALSO SIMPLIFIES FUTURE REFURBISHMENT OF THE CASE SHOULD IT EVER BE NECESSARY.



HOWEVER, IN GETTING THE DELICATE BALANCE OF TENSION 'JUST RIGHT', MB&F HAVE MANAGED TO BRING HM2 ALIVE.


WHILE **HOROLOGICAL MACHINE No.2** IS A HIGH-TECH MACHINE OF THE 21ST CENTURY, THE QUALITY AND HAND EXECUTION OF THE FINE FINISHING IS A SHOWCASE OF THE VERY BEST IN TRADITIONAL CRAFTSMANSHIP. LIGHT FLASHING OFF HAND FINISHED MIRROR-POLISHED SURFACES AND IMMACULATE BEVELLING BRINGS VIVACITY TO THE RICH COMBINATION OF COLOURS, MATERIALS, SHAPES AND TEXTURES.

TECHNICAL INNOVATIONS: THE PRINCIPLE TECHNICAL CHALLENGE IN DEVELOPING THE MOVEMENT WAS ENSURING THAT THE JUMPING HOUR FUNCTIONED BOTH INSTANTANEOUSLY AND SIMULTANEOUSLY WHEN THE RETROGRADE MINUTE FLIES BACK FROM 60 TO 0. AND NOT ONLY INSTANTANEOUSLY, BUT ALSO WITHOUT USING EXCESSIVE ENERGY.

THE USUAL METHOD OF ACTIVATING JUMPING HOUR INDICATIONS IS TO STORE ENERGY IN THE MINUTES BEFORE THE CHANGE TO POWER THE JUMP; HOWEVER, WHILE THIS ENERGY IS BEING ACCUMULATED IT TAKES POWER FROM THE BALANCE CAUSING IT TO LOOSE AMPLITUDE - AN EFFECT DETRIMENTAL TO TIME-KEEPING PRECISION. WIEDERRECHT'S SOLUTION WAS AS BRILLIANT AS IT WAS SIMPLE: HE DESIGNED A INGENUOUS MECHANISM SO THAT WHEN THE MINUTES FLY BACK, A SNAIL ON THE MINUTE MECHANISM HITS THE HOUR STAR CAUSING THE HOUR TO JUMP. THE HOUR JUMPS INSTANTANEOUSLY WITH THE MINUTES BECAUSE IT IS TRIGGERED BY THE MINUTES AND, AS THE JUMP IS POWERED BY THE ENERGY OF THE MINUTES FLYING BACK, IT HAS VIRTUALLY NO EFFECT ON THE AMPLITUDE OF THE BALANCE.

WHILE THE COMPLICATIONS AND FUNCTIONALITY OPERATE WITH MAXIMUM EFFICIENCY, WITH 349 COMPONENTS IN THE





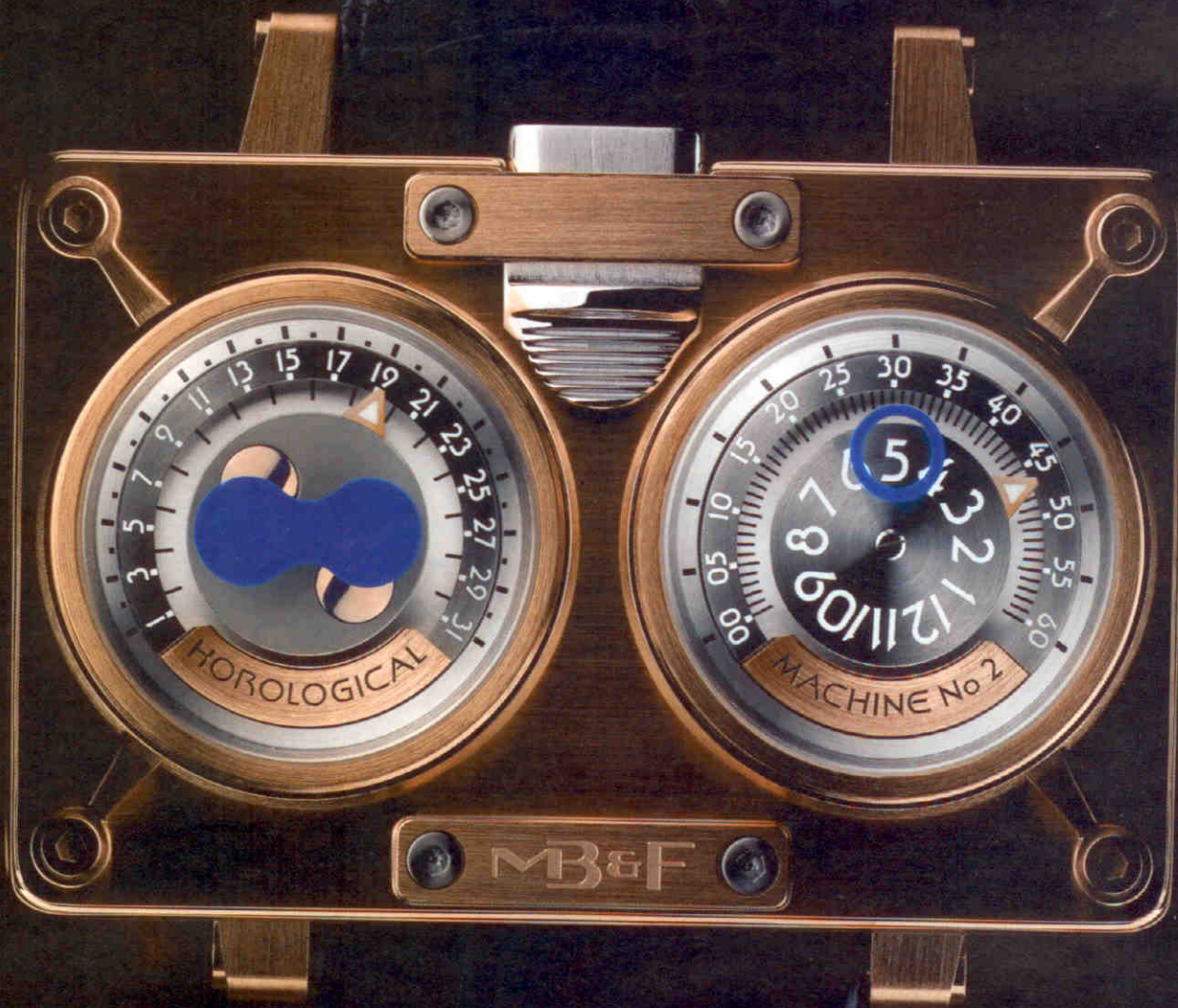
MOVEMENT ALONE, THERE ARE NO DOUBTING
HM2'S CREDENTIALS AS AN INCREDIBLY
TECHNICAL TOUR DE FORCE.

THE COMPLICATION HAS ANOTHER VERY
SPECIAL FEATURE. SPECIFIC GEARS IN HM2'S
MOVEMENT ARE MANUFACTURED TO
EXTREMELY HIGH PRECISION USING
MIMOTEC'S UV-LIGA TECHNOLOGY. THESE
GEARS MESH TOGETHER WITH A VIRTUALLY
A NO-TOLERANCE/NO-PLAY ENGAGEMENT.
NORMALLY, GEARS INTERACTING THIS
TIGHTLY WOULD BIND; HOWEVER,
WIEDERRECHT'S PATENTED ASYMMETRICAL-
SPLIT-TOOTH GEAR DESIGN ENSURES THIS
DOES NOT OCCUR. THE HIGH PRECISION
OF THIS GEARING ENABLES VERY ACCURATE
TIME-SETTING AND OFFERS HIGH RELIABILITY.

TO MAXIMISE THE EFFICIENCY OF MB&F'S
ALREADY ICONIC DOUBLE HAKKEN
AUTOMATIC ROTOR, ONE OF THE 22KT
GOLD BLADES WAS MACHINED DOWN TO
A RAZOR SHARP EDGE OF JUST 0.2MM - A
DIMENSION WHICH PUSHED THE VERY
LIMITS OF MICRO-MACHINING!

THE INNOVATIVE SLIDING CROWN GUARD
CLEARLY INDICATES ITS POSITION (IN OR
OUT) AND FACILITATES ACCESS TO TIME-
SETTING AND QUICK DATE CORRECTING.





ARCHITECTURE: THE PRINCIPAL FEATURE OF HOROLOGICAL MACHINE NO.2 IS THE HOLISTIC SYMBIOSIS BETWEEN THE THREE DIMENSIONAL ARCHITECTURE OF BOTH THE CASE AND THE MOVEMENT. THE SHEER COMPLEXITY OF THE CASE DESIGN NECESSITATED A MODULAR APPROACH TO CONSTRUCTION. MORE THAN 100 COMPONENTS GO INTO THE ASSEMBLY OF THE CASE ALONE - THAT IS MORE PARTS THAN MAKE UP MANY COMPLETE MOVEMENTS! WHILE EXTREMELY COMPLEX TO FABRICATE, THIS BOLTED-NOT-WELDED ENGINEERING ALLOWS MAXIMUM FLEXIBILITY IN DESIGN AND ENABLES A RICH VARIETY OF MATERIALS AND FINISHES TO BE USED.

INDICATIONS: EACH OF HM2'S TWIN PORTHOLES ALLOWS THE VIEWER A DIFFERENT PERSPECTIVE OF TIME. ON THE RIGHT, THE JUMPING HOURS AND CONCENTRIC RETROGRADE MINUTES REVEALS TIME UP CLOSE AND 'NOW', WHILE THE RETROGRADE DATE AND BI-HEMISPHERE MOON PHASE ON THE LEFT DIAL ALLOWS THE VIEWER TO TAKE A STEP BACK FROM IMMEDIACY AND RELAX.