



As Desirable as your Destination





Study the science of art and the art of science. Realise that everything connects to everything else.

LEONARDO DA VINCI





OVERTURE

I've always been fascinated by helicopters; the incredible ability to gracefully rise into the air like a magic carpet ride and fly effortlessly anywhere you dream to go enchants me as much today as it did when I was a child. Whether it's for business, pleasure or sheer adventure, soaring serenely above the world below, helicopter pilots are afforded an intoxicating experience of the world quite unlike any other.

I've now reached a point in my life where I am exactly the kind of person that should be buying a helicopter, but I was struck by the fact that there was nothing on the market that came close to meeting my expectations or fulfilling the potential of what a premium private helicopter could truly be As a private pilot I wanted an aircraft that was safe. capable, fast and breathtakingly beautiful; an aerial grand tourer, I wanted an aircraft that fused the best of premium automobile styling, refinement and build-auality, with the convenience and exclusivity of point-to-point private air transport.

It is with this simple vision in mind, that I have created HX50





CONTENTS

THE EXPERIENCE

11 As desirable as your destination

ENGINE 52 Unlocking true

THE INNOVATOR

70 From concept to masterpiece

INTERIOR DESIGN

24 Experience the aerial Grand Tourer

TEAM

A fusion of creative brilliance and technological expertise

TIMELINE

A testament to dedication

DIGITAL COCKPIT

36 Unmatched by an other aircraft

THE INSPIRATION

A mission to go

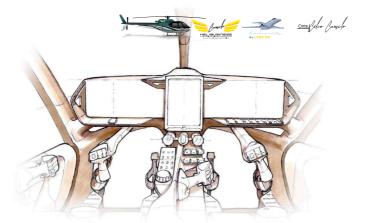
TECHNICAL DATA

76 Specs, payload, engine and the HX50 Package













Engineered for Flight, Designed for Owners

HX50 comfortably accommodates five passengers and their luggage, in an exquisitely crafted, spacious cabin delivering spectacular panaramic views from every seat.

its specially designed gas turbine engine, the OT50, is a compact, reliable unit that blends proven engine technology with the latest turbine advancements to deliver exceptional, next generation performance.

For the private owner this masterfully designed, innovative new aircraft, provides the fastest, most direct way to travel in style over intermediate distances. Whatever mission or adventure beckons, HX50 will get you there.



UNVEILING THE







MAIN SPECS







ENGINE CONTROL
DUAL FADEC

CRUISE SPEED
140 KTS

NAX RANGE 700 NM









UPGRADING THE EXPERIENCE





UPRGRADING THE HELICOPTER EXPERIENCE





From the ground up, the HX50 has been conceived as a genuinely best of breed personal helicopter, crafted upon field-proven engineering, state-of-the-art manufacturing and iconic British design.

Introducing a first of its kind platform, where every minute oletal has been elaborately crafted to deliver a helicopter specifically focused on the needs of private owners. The HSSD will be able to effortlessly carry five passengers and luggage, with a level of comfort, luxury and refinement never before seen in a light alloratif.

Lad by the inspiring vision of helicopter pioneer Jason HIII and meticulously researched and architected throughout the past 13 years, the HKSO is designed, developed and manufactured in Britain by a worlds-class team of engineers, set on a mission to deliver an exquisite flying and ownership experience. Adventure awaits you, for beyond the road.





From scratch. A masterful blend of art and science is at the heart of our pioneering redesign of the helicopter.

Integrating time-tested, proven technologies in a skilful combination of form and function to exceed even the most demanding standards and owner expectations.

With outstanding levels of excellence in user interface, quality and general fit and finish, the HK50 is designed to provide the best of maneuverability in a way that makes helicopter flight simpler, safer, more convenient and more enjoyable than ever before.







PERFORMANCE

Relentless power. Beneath the distinctive elegance of the HX50 lies a muscular 500shp turbine engine, capable of effortlessly lifting off vertically, fully laden at 10,000ft, or cruising serenely at 140kts through blissful skies.

You will be captivated by the unrivalled performance, delightful handling and unmatched flying experience, delightful handling and unmatched flying experience, activated by the performance of the perform

but rather the first aerial Grand Tourer ever built. The HXSD has been developed according to the laws of physics, not conventional wisdom, and delivering these capabilities is precisely what gives the HXSD true purpose, genuine usability, and a peerless spot in the market.









PURPOSE

Expect the unexpected. When it comes to light helicopters, conventional wisdom would suggest that you cannot have a spacious, sumptuous interior with panoramic views for five passengers.

Conventional wisdom would also dictate that you cannot have a large bay to accommodate full-sized suitcases. And it would certainly remind you that wast fuel reserves for genuine touring would be out of the

Except that these are exactly the attributes that make a light helicopter flexible, desirable and worth owning. And counterintuitive as it may seem, the HX50 delivers all this while at the same time ensuring maximum safety, power, maneuverability and speed.











Picture this. What if you could easily fly between business meetings during the week, effortlessly visit distant relatives and friends over the weekend, or even depart for that far flung adventure with your family, at a moment's notice.

Suddenly, the unreachable becomes attainable and the exotic becomes enticing again. It doesn't get any better than this. It's like your dream car, except it's so much more than a car. A helicopter gives you unprecedented freedom. The HX50 makes that freedom yours.







POWERFUL INTELLIGENT ELEGANT

The joy of owning a private helicopter is the freedom it brings.

The HX50 is designed to deliver that flexibility, with the rotor system and all the controls engineered to be easy to handle, and the digital cockpit conceived to make flying it almost as simple as driving a modern car.

This means that you, your passengers and their luggage can take off with three hours of fuel and fly anywhere, in subline comfort and safety. Whether that be to a festival venue, a sporting event or a peaceful retreat, your implantation is your only limitation and setting there will be more than half the fund.



















A SENSE OF OCCASION AND THEATRE.

Every aspect of the revolutionary MSS cabin has been custed to make using a helicipter for personal business travel, recreation and tauring an epile, appearing, a Beautiful form meets officient function to give every flight a sense of position and theater. Form its ergannically designed seats to its expansive has the size of the



26 EXPERIENCE THE AERIAL GRAND TOURER





EXPERIENCE THE AERIAL GRAND TOURER

The HXRO's ground/nexiting arbin delivers a complete rethink of helioopter flight for the pilot and those who prefer to be flown. Combining redesigned flight controls, full glass instrument panel, panoramic windows and skylights, exclusive leather seating, and a host of hawury features, the HXRO's skylish interior will stirr by your senses.





INTERIOR LUXURY

Designed from the ground up to create a user interface that makes personal flight a simple, luxurious and engaging experience, safer, quieter, more convenient and above all, more enjoyable than ever before possible in a light helicopter.

28 EXPERIENCE THE AERIAL GRAND TOURER

FULL IPAD PANORAMIC **ENHANCED** 4-POINT **HARNESS** INTEGRATION VIEWS VFR FLYING **FULL CLIMATE** 5 INDIVIDUAL **BLUETOOTH** 500mm SEATS CONNECTIVITY WIDE SEATS CONTROL



EXCEEDING AUTOMOTIVE INTERIOR DESIGN

The HKSO delivers five beautifully sculpted wide seats, giving the pilot and each passenger unprecedented levels of comfort. The seats and cabin are crafted from the finest materials, combining two-tone Nappel author, French, stitching, Alcantara trim and first-class brushed Each seat offers personal storage, USB parts and journ point harmsesse. Headset holders and jours for Bose ANR headsets are integrated into the seath headsets, effectively reducing the allotter caused by cabin ceiling jocks and headsets storage. Climate control and Bluetosth connectivity are also provided throughout the cabin.

















PANORAMIC VISTA

With elevated rear seats, glazed cabin roof and low window line, occupants are treated to an unrivalled airy and open space, sublime comfort and peerless access to the panoramic views to the outside.

Whether sparing over stunning landscapes, floating above the city skylline, or exploring the unknown inaccessible by road, there is no better way to experience the world than moving in three dimensions.



32 EXPERIENCE THE AERIAL GRAND TOURER





MAKING FLYING SIMPLE, INTUITIVE AND CONVENIENT

Pilot comfort is dramatically improved by the practical design of the collective which is conveniently integrated with a centre console and armirest to make longer flights test fring. The cyclic can be adjusted by the pilot to make access to the cabin easier, and it features specially designed hand grip and buttons to enhance operability.

Evolved User Experience

The electronic flight displays have been completely redesigned to communicate essential information clearly and beautfully, while pilot interaction with aircraft systems, avionics and flight controls has been streamlined to the same extent that would be expected of modern premium automobiles.

Higher Standards

The clean, uncluttered cockpit delivers automotive levels of simplicity of operation, class leading pilot comfort and convenience, genuinely risising the VFR flying experience to new highs. For the HXSO, Hill has partnered with a leading avionics manufacturer and a leading digital cockpit technology partner, to deliver a game-changing, nextementation avionics and flight management suits.













DIGITAL COCKPIT











UNMATCHED BY ANY OTHER AIRCRAFT

The Hill Digital Cockpit (HDC) brings the helicopter user experience right up to date, making flying a helicopter as simple, convenient and intuitive as driving a car.

38 UNMATCHED BY ANY OTHER AIRCRAFT





SIMPLIFIED FLYING EXPERIENCE

HLC is the centropiece of our reimoglined approach to personal flight, designed from the ground up around the needs of private owner-operators and their passengers. HLC shares its throughhead DNA with the exterior, interior and engineering design of the entire activation and engineering design of the entire activation and element are verification, fusion of form, function and sense of occasion to every flight.

A single control interface ensures a clean and simple cockpit workflow, providing complete mastery over every system.

Pilots benefit from full integration of IPad-based navigation and flight planning apps, intelligent, context-sensitive support and a clear graphical display of flight information only when it is needed, delivering new levels of simplicity and profound workload reduction.

INTEGRATED CLASSICATION NOT CHEERITON PULLUTION INTERLICIAL PRIOR INTERLICIAL PRIORI



DIGITAL COCKPIT . HX50





REDEFINING THE DIGITAL COCKPIT

HDC provides a complete rethink of how pilots and passengers interact with their aircraft and delivers a fully connected user experience for everyone on board.

Cutting-edge avionic and display technologies have been fused with the elegance and design quality we have come to expect of a modern premium automotive digital display, to deliver an unmatched user experience.

Beyond flying, HDC makes owning and operating a helicopter as simple, convenient and intuitive as driving a car, resulting in helicopter flying and ownership that is more engaging, accessible and safer than ever before.





DIGITAL COCKPIT . HX50





SIMPLE, NEXT-GENERATION VFR HELICOPTER

The completely reimagined VPE flight instruments employ what class desigh to present the required information elegantly and succinctly, leveraging the best elements of traditional gauges with the profound benefits of dynamic slightlight presentation along with multi-sensory stimuli. This integrated and connected approach dramatically reduces pilot workhaud and effectively draws attention to changing or officially residues.



ALL FUNCTIONS CONTROLLED VIA THE INTEGRATED PILOT INTERFACE (IPI)

HDC provides a clean, simple and intuitive cockpit workflow, with a single control interface, the integrated pilot interface (Pi). The IPI is located conveniently to hand, is easy to see and delivers streamlined control for every circraft system.



UNMATCHED BY ANY OTHER AIRCRAFT





FULL INTEGRATION OF IPAD-BASED NAVIGATION AND FLIGHT PLANNING APPS

The centrally located IPAd connects with the HDC allowing the planned route to be seamlessly synchronised in real time from major navigation apps with the onboard GPS, autopilot and flight management system making VFR navigation simpler than ever before.



OPTIMISED FOR VFR HELICOPTER OPERATIONS AND PRIVATE OWNERS

HICD provides intelligent pilot support focused on hypical VIR helicopter mission profiles with realistic espectations of pilot skill level and currency. Our smart annunciations replace traditional warning lights and not only alert the pilot to an issue that requires action but also suggest the appropriate measures. Furthermore, the system is designed to communicate in an emotionally sensitive manner so as to avoid panic or pilot over-reaction.







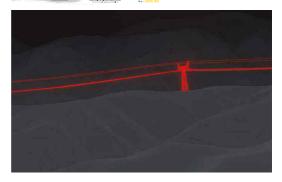
INTELLIGENT PILOT SUPPORT AND WORKLOAD REDUCTION

HDC allows profound workload reduction by monitoring the alicraft and delivering information in an entirely context sensitive manner, providing only the information required by the pilot as it is needed and oldering pilots to changing or urgent conditions. This allows the 'normal' display presentation of primary flight information to be far eleaner and simplet than ever before.



CLASS LEADING SYNTHETIC VISION AND ENHANCED SITUATIONAL AWARENESS

Rearward and downward facing comera www, wind awareness, synthetic wision wire and traffic alerting are provided in what is the first GA avivnics suite entirely designed specificural popups, triggered by the transmit button, provide the pilot with all of the required situational information to make concise and effective radio calls.



UNIMATCHED BY ANY OTHER AIRCRAFT





HILL HAPTIC

Skapad force feedback through the flight controls protects the alcroid and operational envelope by means of haptic forces that generate a distinctive refer als limits us approached, in the case of the haptic power manager the system stiffers the collective resistance as power limits are approached and the broader system provides enhanced resistance and whothy seekaback to deliver envelope protection for writer king. Will and not speak in the protection yould and collective resistance.



MUCH MORE THAN AN ELECTRONIC FLIGHT INSTRUMENT SYSTEM



UNIMATCHED BY ANY OTHER AIRCRAFT





DESIGNED FOR MODERN CONNECTIVITY

HDC benefits from the profound safety advantages offered by modern connected systems, with full connectivity of cellular telephones for voice and text message communication, as well as to the Hill Cloud and the Hill App.



ENGINE









ENGINE



GT50 TURBINE

NEW AND ORIGINAL TURBOSHAFT ENGINE







GT50 TURBINE ENGINE

The new GTBD furbrainate regime delivers smooth, refined so, were, an inches its sound track and reliable operation at high power settings, and reliable operation at high power settings, while providing extended periods between overhands begind specifically to meet the needs of the RESO, with simplicity, efficiency and a halfaltic approach to safety as one design values, the GTBD reliables the untapped potential of a next-operation light halfaltic provides and the GTBD reliables the untapped potential of a next-operation light halfaltic price.

54 UNLOCKING TRUE ENGINE POTENTIAL

UNRIVALLED PERFORMANCE

400 HP

440 HP TAKE-OFF POWER 500 HP EMERGENCY POWER 35 GPH FUEL CONSUMPTION









SIMPLE YET STRONGER

The real strength of the GT50 lies in its simplicity. Simple to design, simple to develop, simple to manufacture, simple to maintain and simple to operate. The key to designing a simple engine has been the ruthless focus on delivering the perfect engine for the HX50.

56 UNLOCKING TRUE ENGINE POTENTIAL





INNOVATIVE FROM THE CORE

The expensive and heavy compressor turbine gearbox has been completely eliminated, with a direct-drive starter-generator being employed to dramatically reduce the cost and mechanical complexity of the engine. Extensive use of redundant electrical engine calcillaries further simplifies the engine package, and modular design makes for easy maintenance.

ENGINE SHAFT

SIMPLICITY, PERFORMANCE AND RELIABILITY THROUGH ELEGANT, MODERN DESIGN





High Pressure Ratio Single Stage Centrifugal Compressor Highly Efficient, Optimally Loaded, Two-Stage Gas Generator Turbine Robust, Free Power Turbine with Rear Power Take-off







UNMATCHED EFFICIENCIES

The Hill GT50 employs state-of-the-art component and gas-path design delivering unmatched component and cycle efficiencies for an entry-level turbine.

The outstanding performance and operating range for the compressor and turbine is outpuld with an efficient and robust 3-can combustor system, offering a low-risk development route, flameout redundancy and fuel flexibility. The engine has been completely optimised around the unique requirements of the MSSG, allowing for a significant improvement in engine performance and durability.

IMPROVED FADEC

The GT50 is fully electronically controlled, providing trouble free, rapid startup and shutdown, tight RPM management and optimal engine monitoring and control, through the use of the Hill FADEC system.

The engine is tightly integrated with the HII Digital Cockpit and the IRERGS advanced light controls, providing simple engine and power management. This includes full integration with HIIIs shaple. Power Management system that provides shaped force gradients and feedback through the collective as power limits are approached, allowing plots to Teel power reserves and keep their eyes outside during critical phases of flight.



60 UNLOCKING TRUE ENGINE POTENTIAL



A BLEND OF PROVEN TECHNOLOGY AND CUTTING-EDGE INNOVATION

Designed and developed by a team of industry veterans, using methods, tools, and techniques planeared over decades, the GTS0 is a masterful combination of time-tested ideas and architecture, integrating modern advancements, manufacturing methods and supply chain apportunities, to deliver a one-of-seider dengine, purposely built for the HS00.

ENGINE

By developing the engine in parallel with the helicopter, we were able to define exactly what attributes were required for the powerplant in order to deliver the payload, performance, package and engine control characteristics essential to the HX50, rather than having to accept a poorly suited and unnecessarily expensive old technology engine.





ENGINE

ENGINE SPECS

MAXIMUM CONTINUOUS POWER

TAKE-OFF POWER (5MINS)
440 HP (UP TO 10.000 FT, ISA +15°C)

EMERGENCY POWER (30S)

FUEL CONSUMPTION (MCP)

FUEL TYPE

JET A1 (ALTERNATIVES TO BE ANNOUNCED)

TBO

5,000 HOURS OR 20,000 CYCLES, ON CONDITION

HILL FADEC (DUAL CHANNEL, WITH MANUAL REVERSION)

MANAGEMENT

FULLY INTEGRATED WITH HILL DIGITAL COCKPIT

WEIGHT

100 KG / 220 LBS









TEAM











The HX50 team fuses the creative brilliance of the very best of automotive designers, with the rigour and academic excellence of seasoned aerospace, nuclear and systems engineers with cross-industry technology development and manufacturing experience

With the lean, agile and focused approach led by Jason Hill, the core team has complete visibility and responsibility for the development and delivery of the entire aircraft programme. This unusual model has enabled the small, close-knit group, all highly skilled and incredibly motivated, to pool their expertise in creating a product that offers a quantum leap in beauty, performance and safety, and represents a new dawn in the light helicopter industry.



DR. JASON HILL

HENRY MORSHEAD

CRAIG JONES CHIEF DESIGN ENGINEE PROF. CHRIS ALLEN AERODYNAMICS ADVISO

ADRIAN POSTLES CHIEF SYSTEMS EN RUSSELL GIBBONS MECHANICAL SYSTEMS ENGINEER DR TIM SEARLE COMPOSITES CONSULTAN

RICHARD CHESTER

WAYNE KIMBERLIN

RICHARD BLAND













THE INSPIRATION

cmes files fragile



How did an intriguing idea, some graceful, ethereal sketches and an all-consuming passion for helicopter flight translate into the marvel of engineering and beauty that is the HX50?

Jason Hill had an early (ascination with helicopters, and the freedom and lifestyle they offer, but after obtaining his PhD in Aeronautics and successfully running his own engineering company, along with 20 years of flying helicopters himself, he realised that there was no light helicopter on the market he would actually want to buy.

Nothing that equated to his vision of what a felicopter should, or could, offer the private owner, list compapt for a next-generation helicopter is centred on the premium infestyle it is intended to sustain, for people who are used for travelling First Class, who want to get from skyscaper to golf club to ski slopes to yacht harbour to country retreat quickly and easily, in privacy, security and comfort. This is where travel becomes an adventure, with all the desirable qualities of driving a luxury of car replicates in a helicopter, with all that implies in terms of comfort, convenience, proclaimly admorp, and excitement.









THE INNOVATOR









From concept to masterpiece

The mission to design and build the HXBD is oriented towards the private felloopter owner/piot, and the fact that it has been designed from the ground up including the engine, has made it possible to owner up with many ground-broading improvements, such as simplicity of operation, larger fuel tank and longer range reminess and ability to carry more payload, as well as reduced noisiness and greater speed, in fact, it redefines the light felliopter, incorporating all the latest in proven technologies structural, provisions and advantage and expensions.

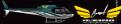
But what really makes the HX50 stand out is its beauty, its sleek, contoured lines, it is great loung, and comfort of its refined interior, and these are features its rankel it every much as coverlable as any superyout or of sports can. This is an attraction that is affordable, holds its value and is inexpensive to operate, with an ungree-assented level of performance that delivers the fastest, most direct way to travel opulently over intermediate distances.





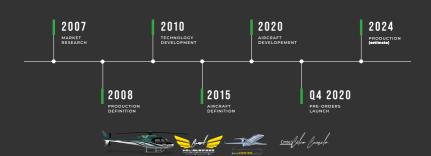


TIMELINE















SPECIFICATIONS

GROSS WEIGHT 3630 LBS (1650KG)

1870 LBS (850KG)

1760 LBS (800KG)

SIZE (WIDTH) HX50 1.6M, EC120 1.5M

FUEL BURN

ENDURANCE 5 HOURS

ENGINE HILL GT50 TURBINE

PAYLOAD

PAYLOAD 1760 LBS (800KG)

760 LBS (800KG)

5 X 200 LBS (95KG)

BAGS/CARGO 60 LBS (27KG)

3 HOURS FUEL

420 NM

700 LBS (317KG)

. NOT AT MAY DAY! OAD

ENGINE

MAX CONTINUOUS POWER

TAKE-OFF POWER (SMINS) 440 HP (UP TO 10.000 FT, ISA +15°C)

EMERGENCY POWER (305) 500 HP

FUEL CONSUMPTION (MCP) 35 US GALLONS PER HOUR

JET A1 (ALTERNATIVES TO BE ANNOUNCED)

5,000 HOURS OR 20,000 CYCLES, ON CONDITION.

HILL FADEC (DUAL CHANNEL, WITH MANUAL REVERSION)

MANAGEMENT 100 KG / 220 LBS









THE HX50 PACKAGE

DUAL FADEC ENGINE CONTROLS	LEATHER SEATS	CABIN STOWAGE
CLIMATE CONTROL & DEFOGGER	FOAM-FILLED BLADDER TANKS	FLIGHT RECORDER SYSTEM
STANDARD 2-AXIS AUTOPILOT	REMOVABLE DUAL CONTROLS	ROTOR BRAKE
HILL DIGITAL COCKPIT	USB PORTS	TINTED WINDOWS & SKYLIGHTS
FULL IPAD INTEGRATION	COVERS & TIE-DOWNS	BELLY HARDPOINTS
KEYLESS ENTRY & START/STOP	EXTERNAL POWER RECEPTACLES	ADJUSTABLE PEDALS & TOE BRAKES
HYDRAULIC CONTROLS	BOSE HEADSET & POWERED JACKS	4-POINT HARNESSES

















ESCOLHA da Aeronave ideal AVALIAÇÃO Técnica

OMPARAÇÃO de Performance

ANÁLISE Econômica e Financeira LONG RANGE Cruise

ECONOMIC Cruise

MÁXIMUM Cruise

Competibilidade Técnica, Doc / Importação

Companissarie (m.c., co.) - provincia.

Cuidames de tota Anísise de Decemenação e
Fechamento da compra para o Cliente. Aplicamos o
despacho e tramsporte até a base operacional que o
Cliente desejor. TEMOS AS MELHORES PARCERIAS
PROFESSIONAIS do Brasta e em vários curros Práses-

no o Comprometer de 1star Esperatura

Europélices e Hallaceteras Diversos fabricantes

Visando sempre ATENDER bem nossas Compradores e demois Parceiros como empresas de Manutanções disponibilizamas nosso CATÁL 050 de Peças e Componentos. Fizanes também a LOCALIZAÇÃO/Importação em diversos países.





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