IL CREMONESE

Ant.o Stradivari

More than 5 years since its debut, Il Cremonese remains one of the most popular loudspeakers systems in the Sonus faber collection.

The speaker was named paying homage to the Italian violin making tradition… Il Cremonese is the most famous violin among the master Antonio Stradivari's creations fact - renowned for its great vitality and surprising tonal balance.

Since its creation Il Cremonese revealed itself as an **effective test bench** for the most different technical solutions, due to the **innate versatility** of its electroacoustic configuration.

This is the birth of the idea of using it as the foundation for a unique loudspeaker system characterized by new technical features and by a precise performance target:

ABSOLUTE NEUTRALITY

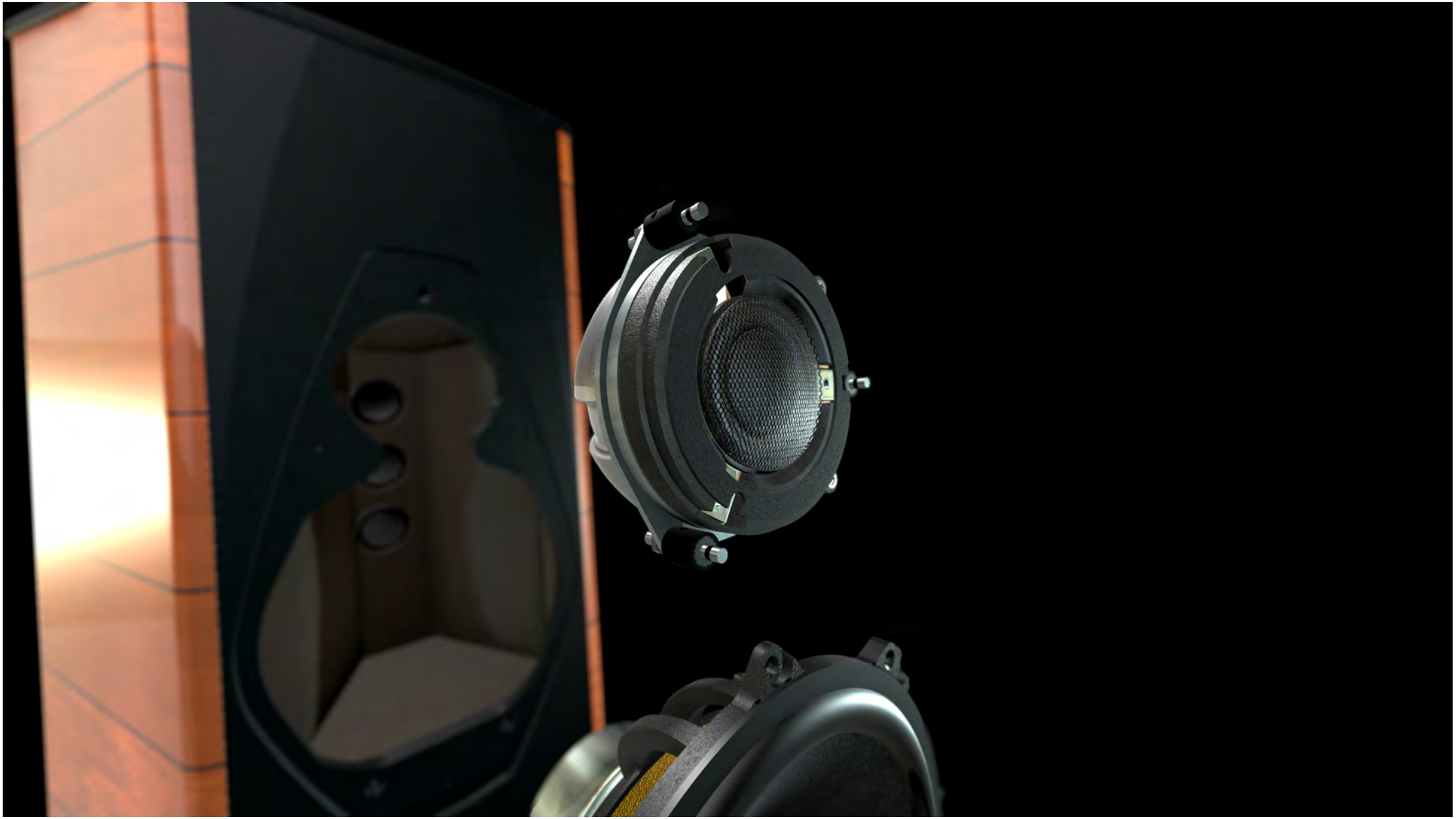
Working around the behavior of both **top and bottom ends** of the audio spectrum it has been possible to extract a performance staying away from any sort of interpretation of the musical message.

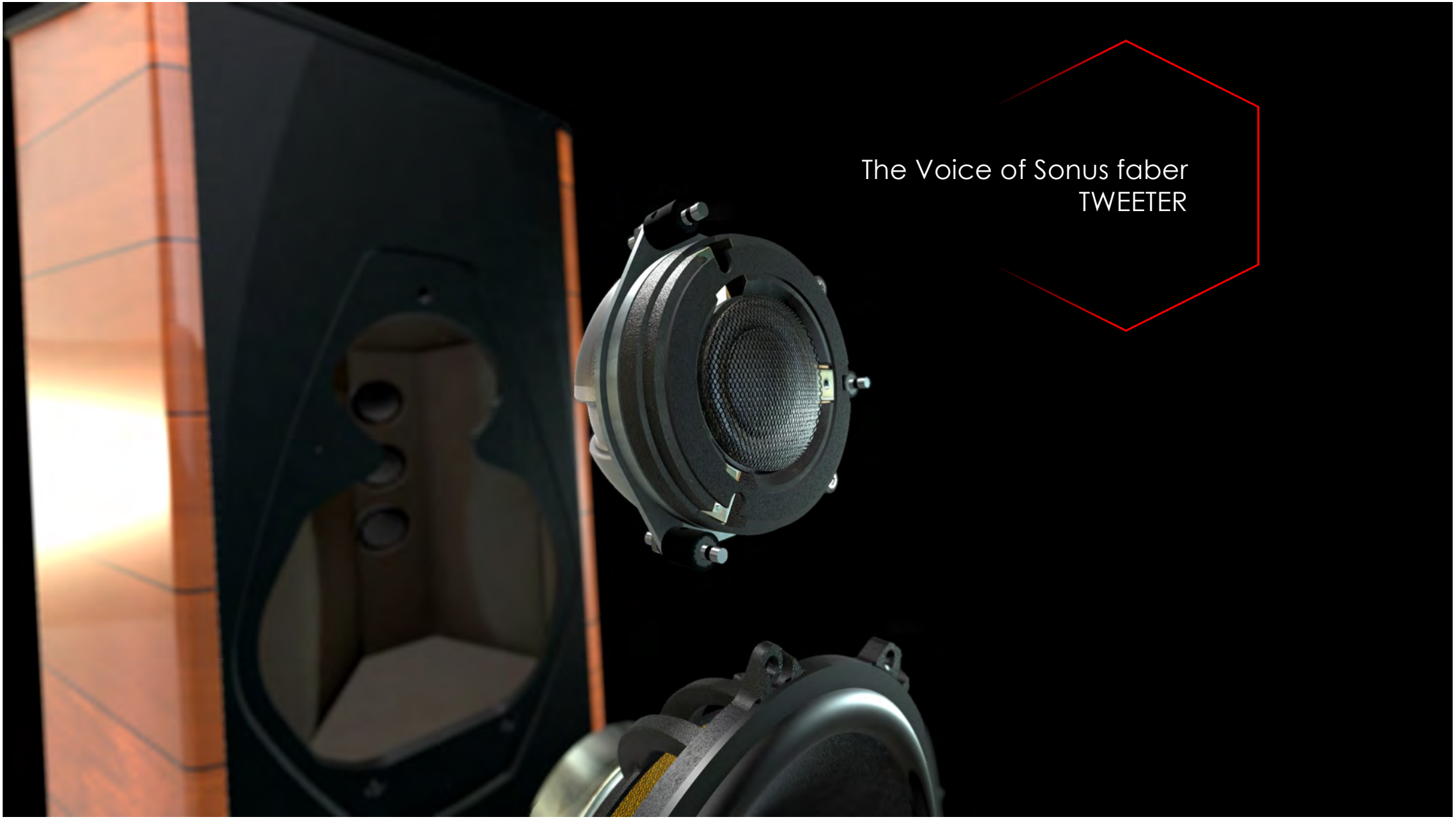
Il Cremonese ex3me could be easily even used as a professional luxury monitor that came to life combining elements belonging to the original project with the most iconic solution derived from the company's 30th Anniversary celebration concept speaker model

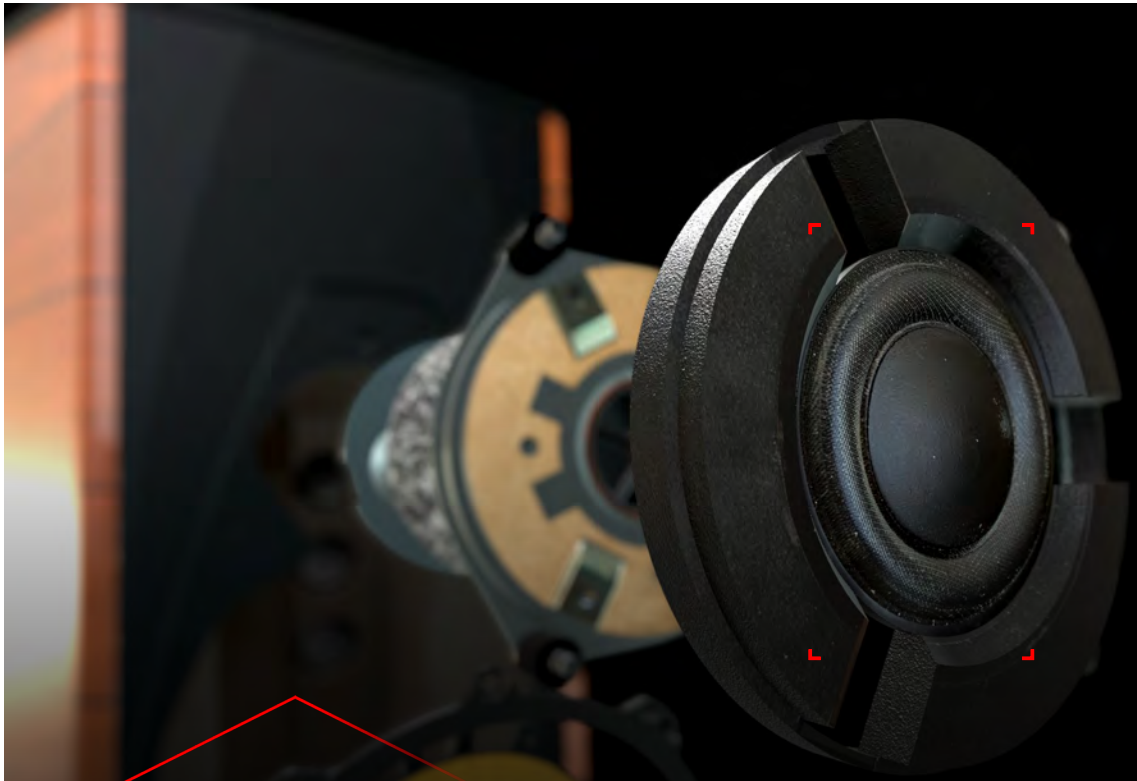
ex3ma

A precious electro-acoustic jewel available in a very limited run of 50 pairs only and embellished by the return of an historical Sonus faber finish: the “Red Violin”.

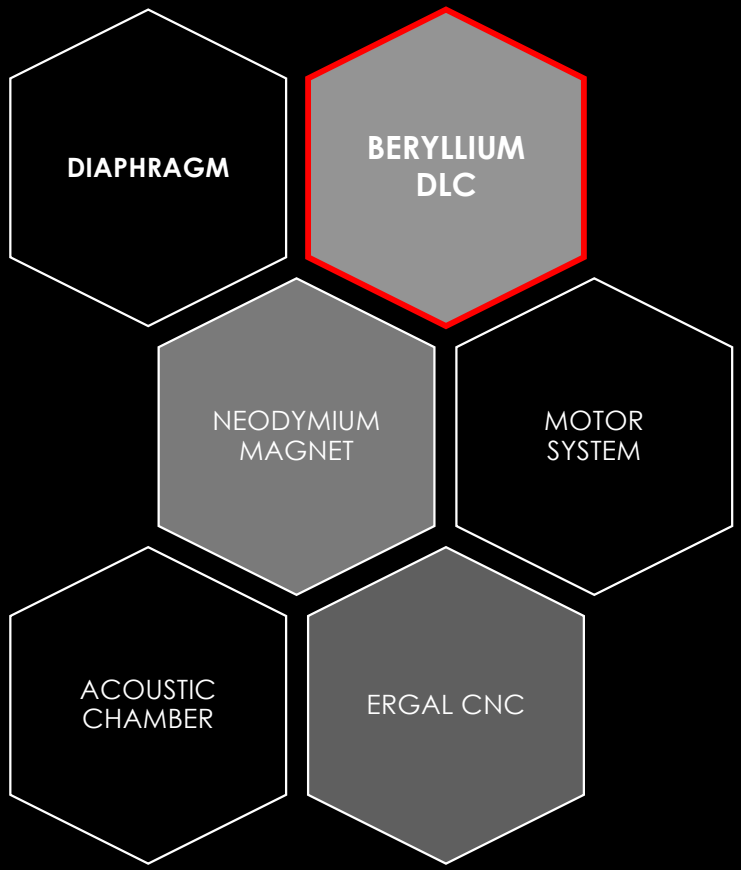
IL CREMONESE
ex3me

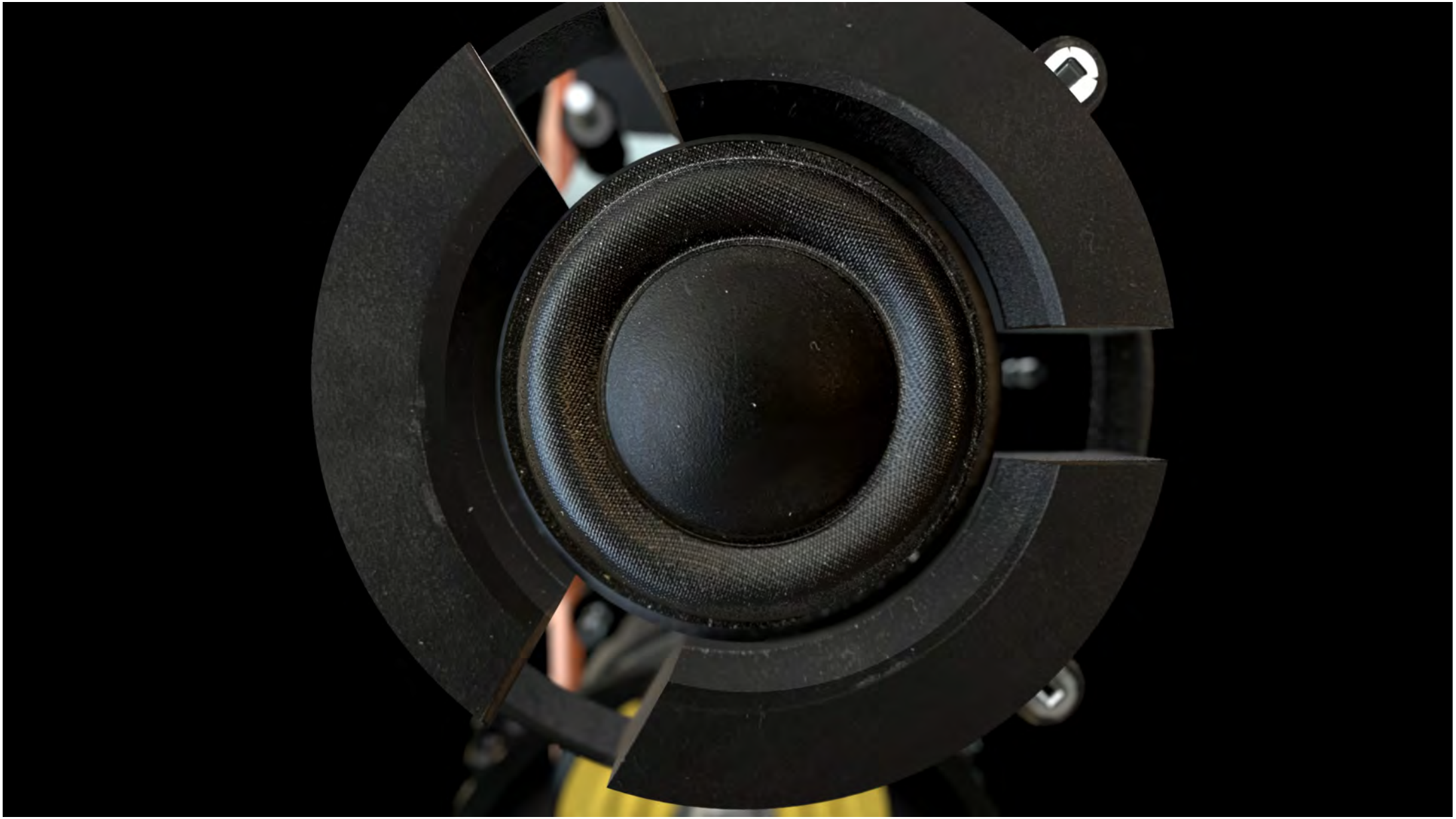


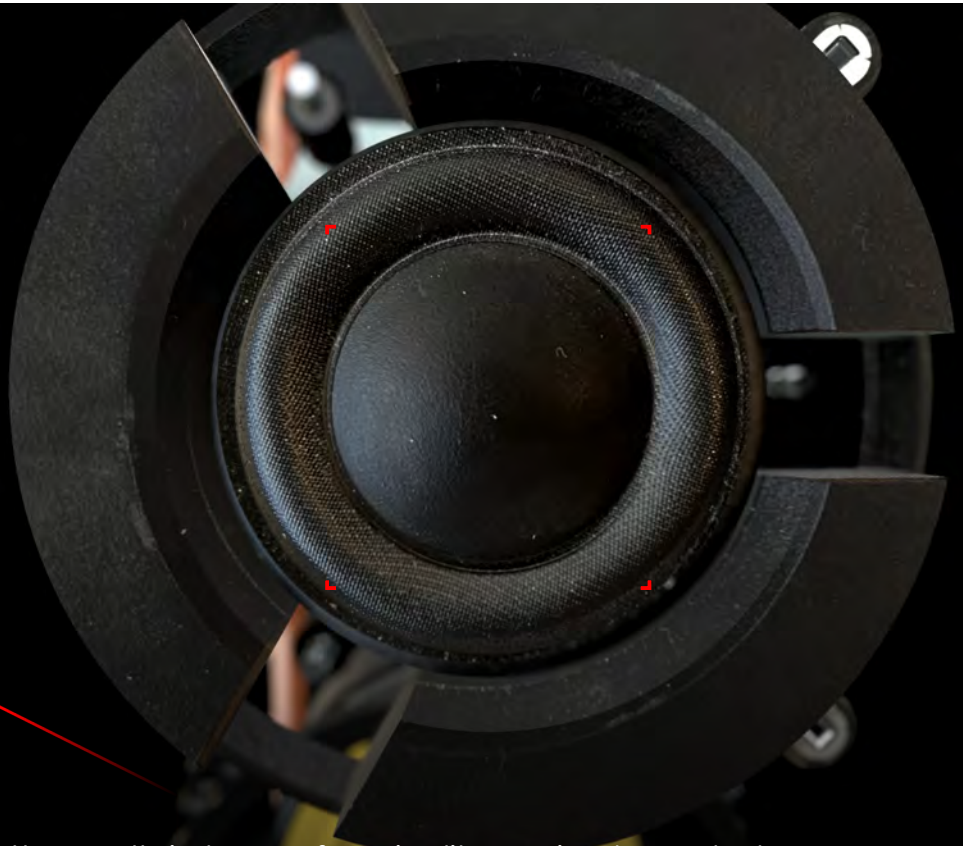

The Voice of Sonus faber
TWEETER



Thanks to its physical structure, Beryllium has unique characteristics in terms of transparency and micro dynamics. But has a sound presentation - a resonant tone – often described as a "metallic flavor," due to the material's resonance frequency.







To obtain better results in terms of musicality, we implemented a a special treatment: the ‘D.L.C. (Diamond Like Carbon),’ which essentially changes the mechanical nature of the beryllium diaphragm while leaving its mass relatively unaltered.

DIAPHRAGM

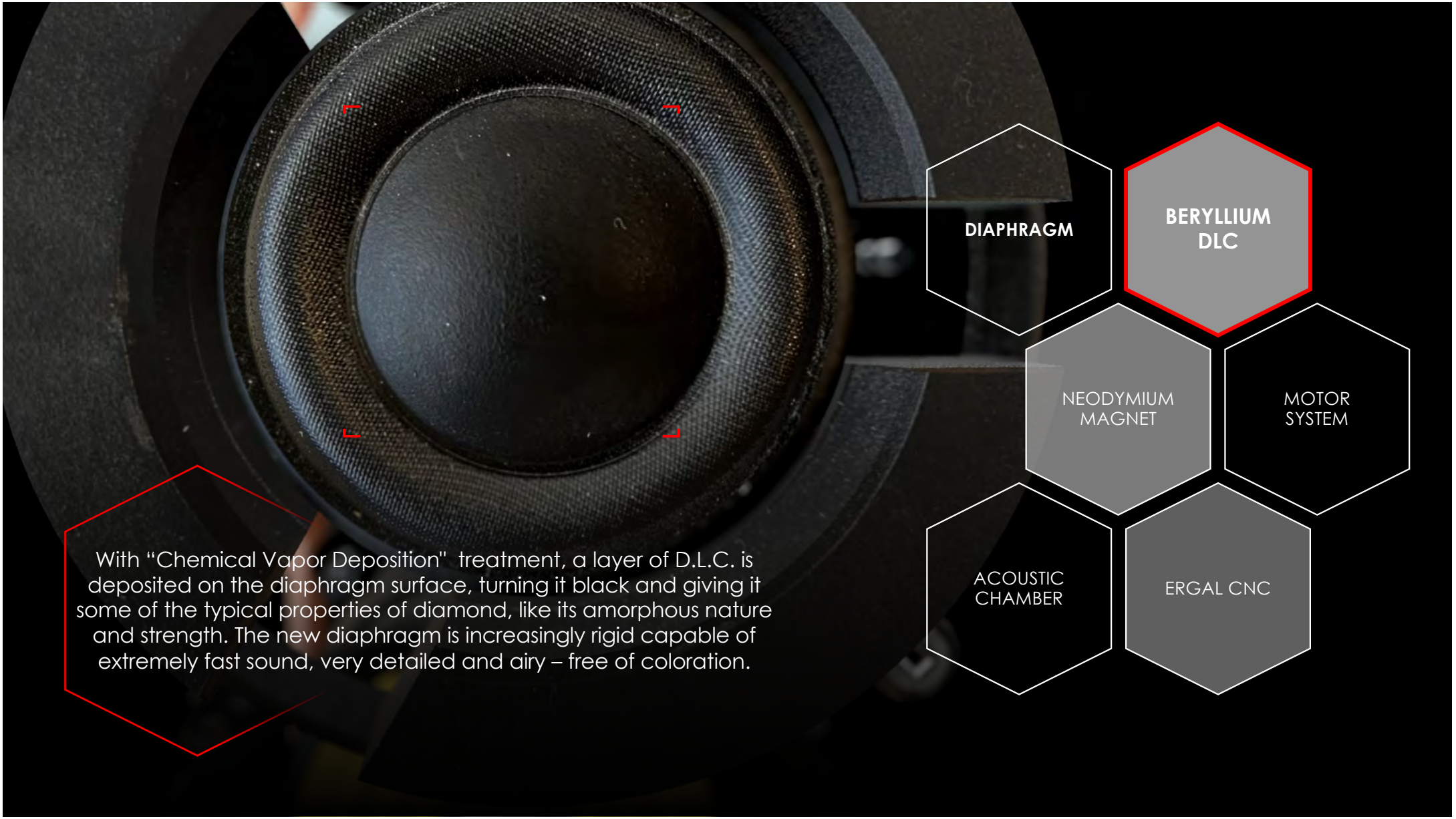
BERYLLIUM DLC

NEODYMIUM MAGNET

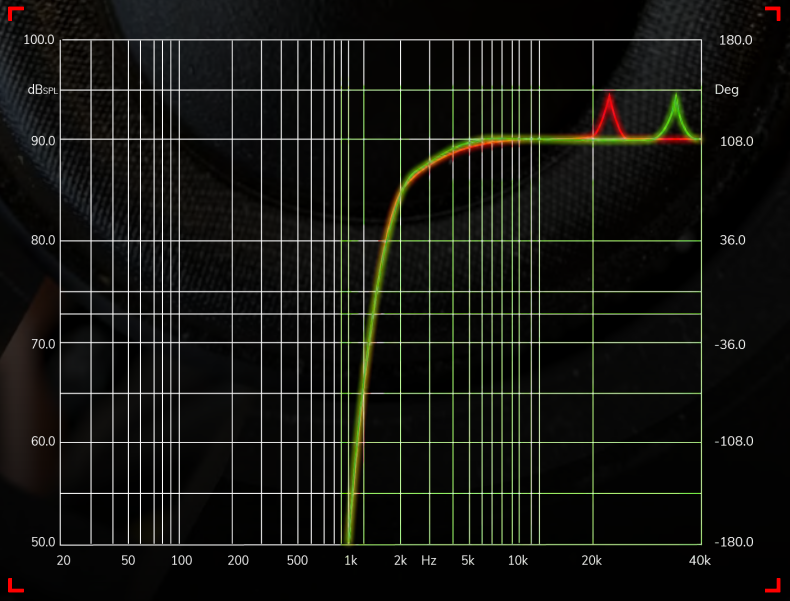
MOTOR SYSTEM

ACOUSTIC CHAMBER

ERGAL CNC


DIAPHRAGM
BERYLLIUM DLC
NEODYMIUM MAGNET
MOTOR SYSTEM
ACOUSTIC CHAMBER
ERGAL CNC
With “Chemical Vapor Deposition" treatment, a layer of D.L.C. is deposited on the diaphragm surface, turning it black and giving it some of the typical properties of diamond, like its amorphous nature and strength. The new diaphragm is increasingly rigid capable of extremely fast sound, very detailed and airy – free of coloration.

With “Chemical Vapor Deposition" treatment, a layer of D.L.C. is deposited on the diaphragm surface, turning it black and giving it some of the typical properties of diamond, like its amorphous nature and strength: the new diaphragm is increasingly rigid so its resonance frequency is moved way higher: the beryllium extremely fast, detailed and airy sound is kept – but now it is free of any coloration.



DIAPHRAGM

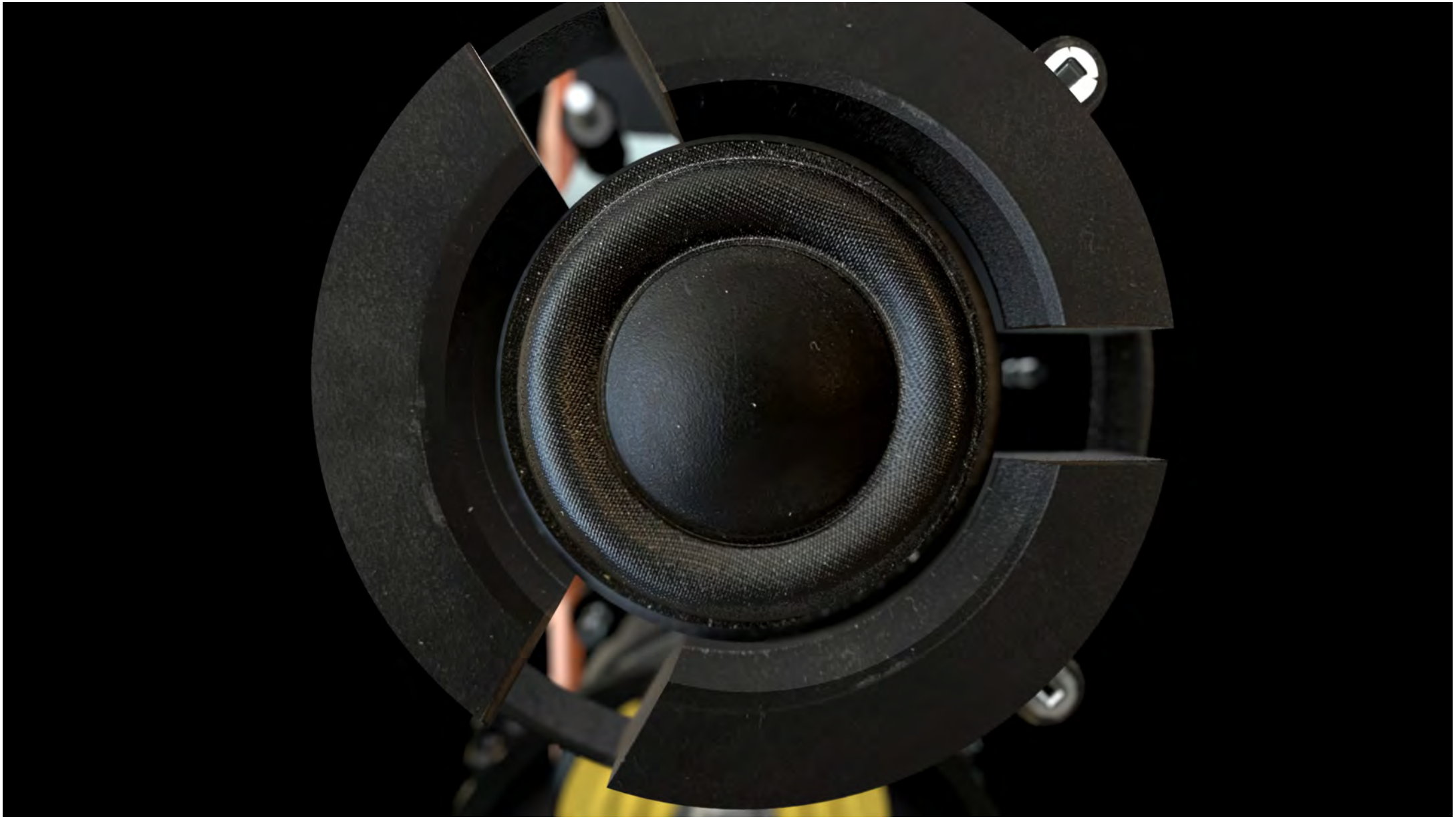
BERYLLIUM DLC

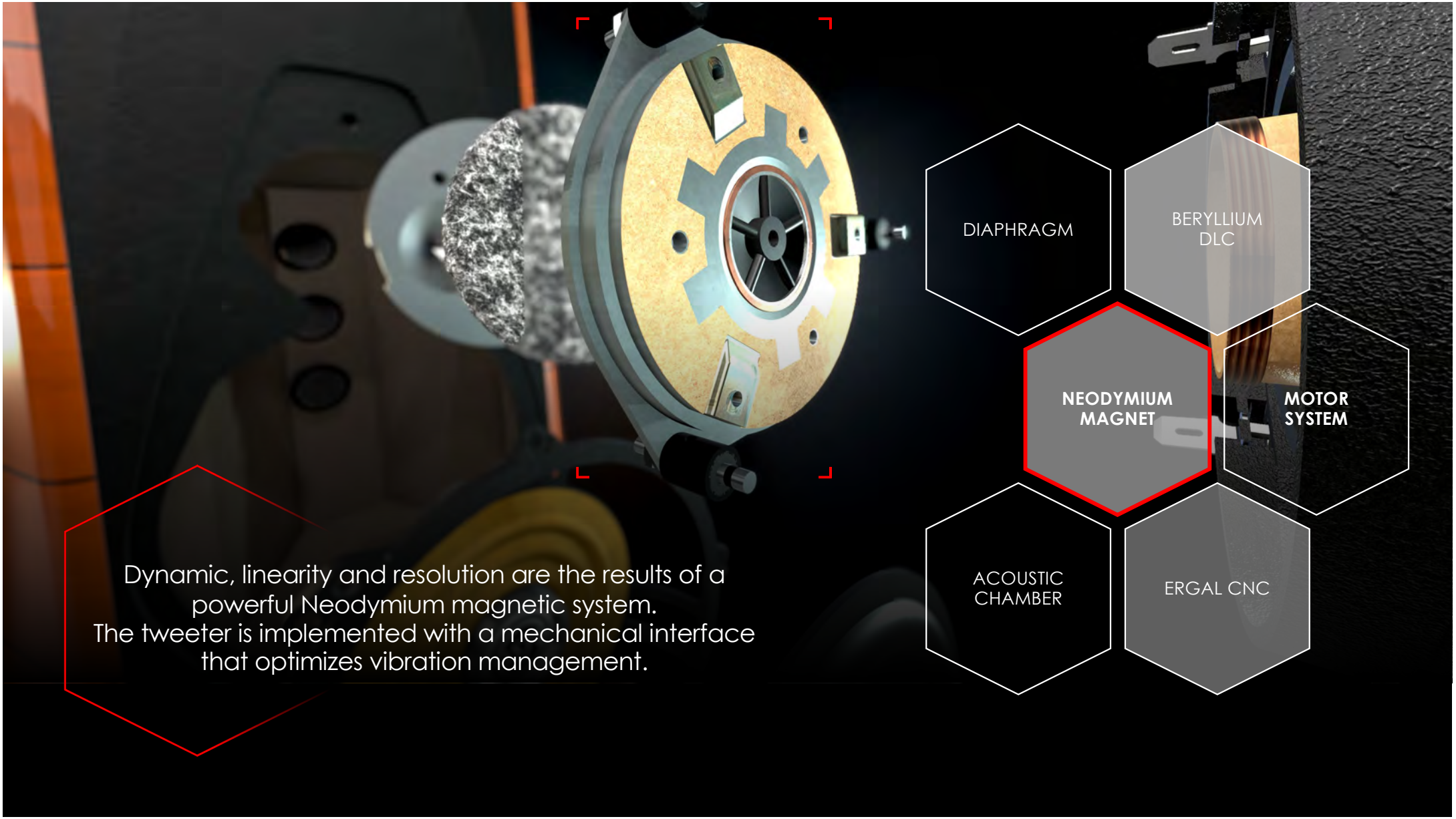
NEODYMIUM MAGNET

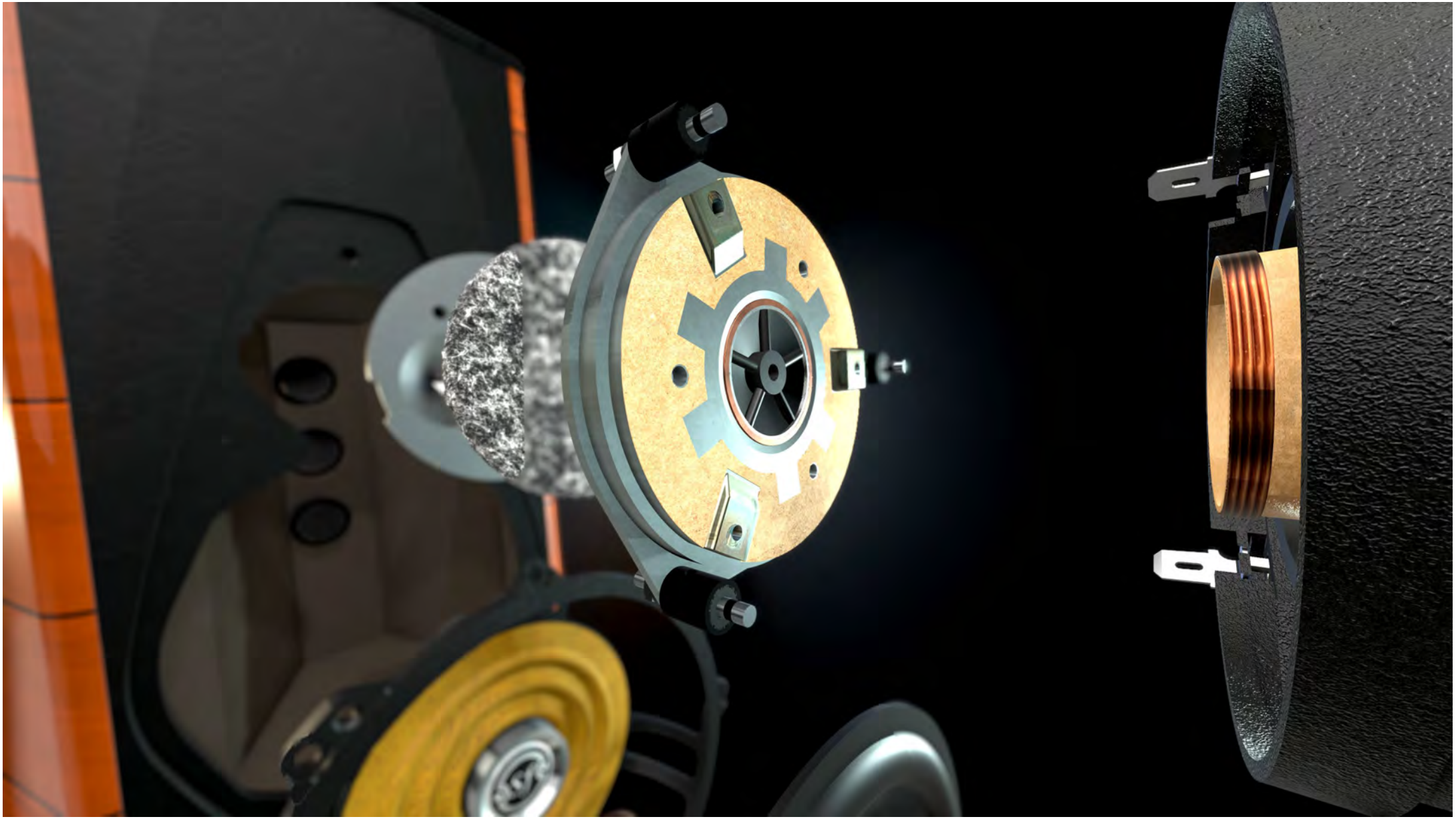
MOTOR SYSTEM

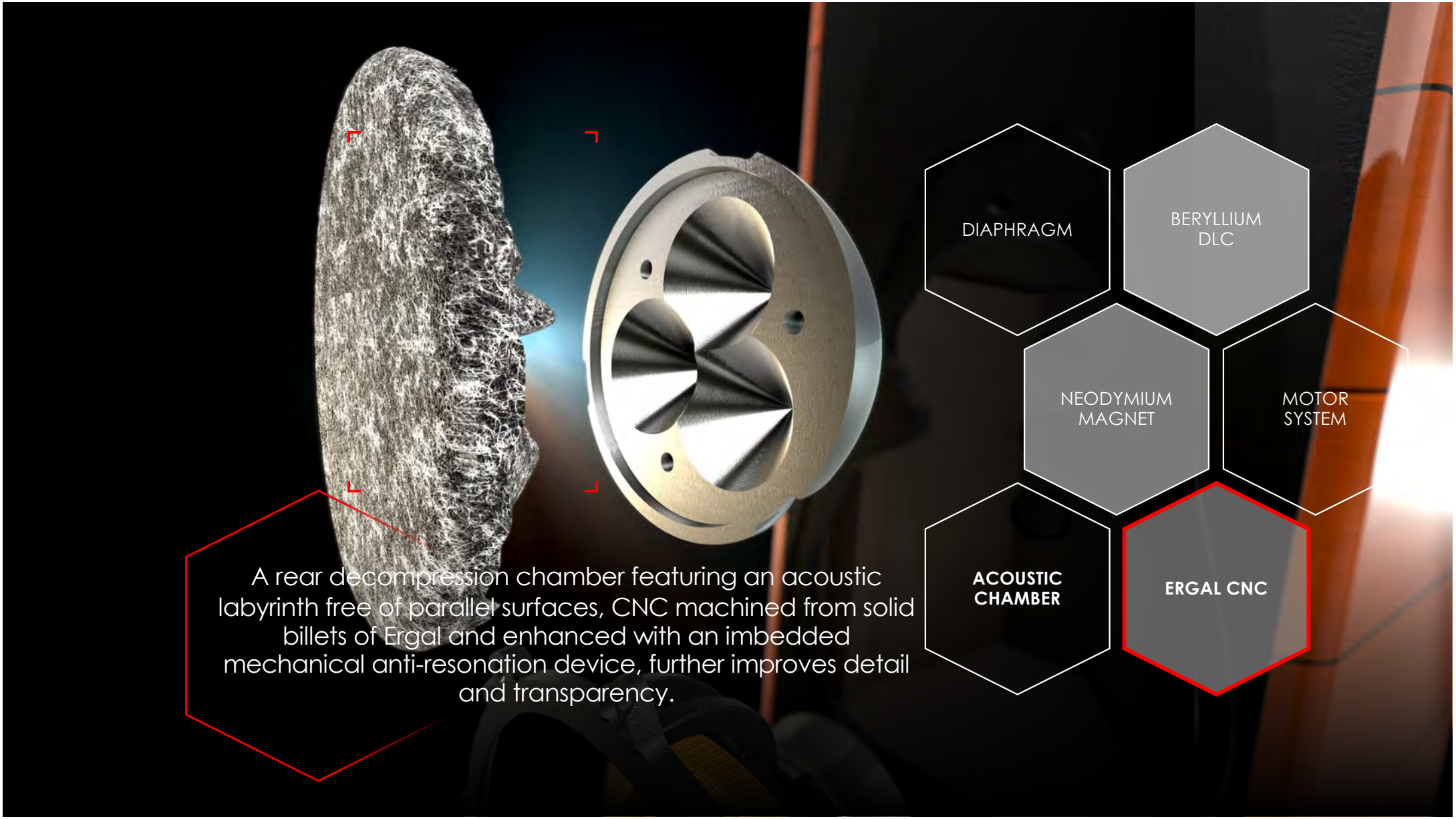
ACOUSTIC CHAMBER

ERGAL CNC

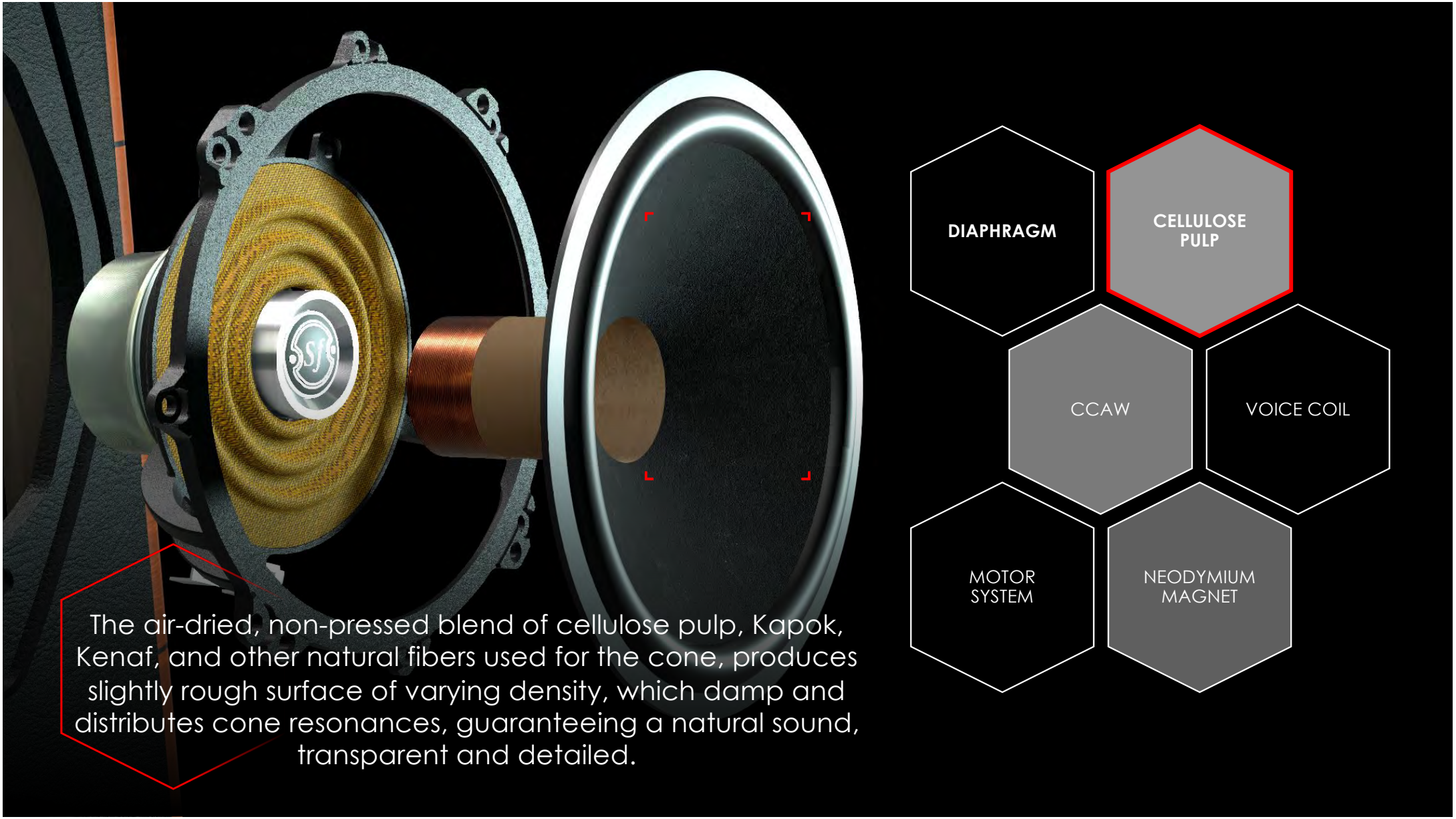


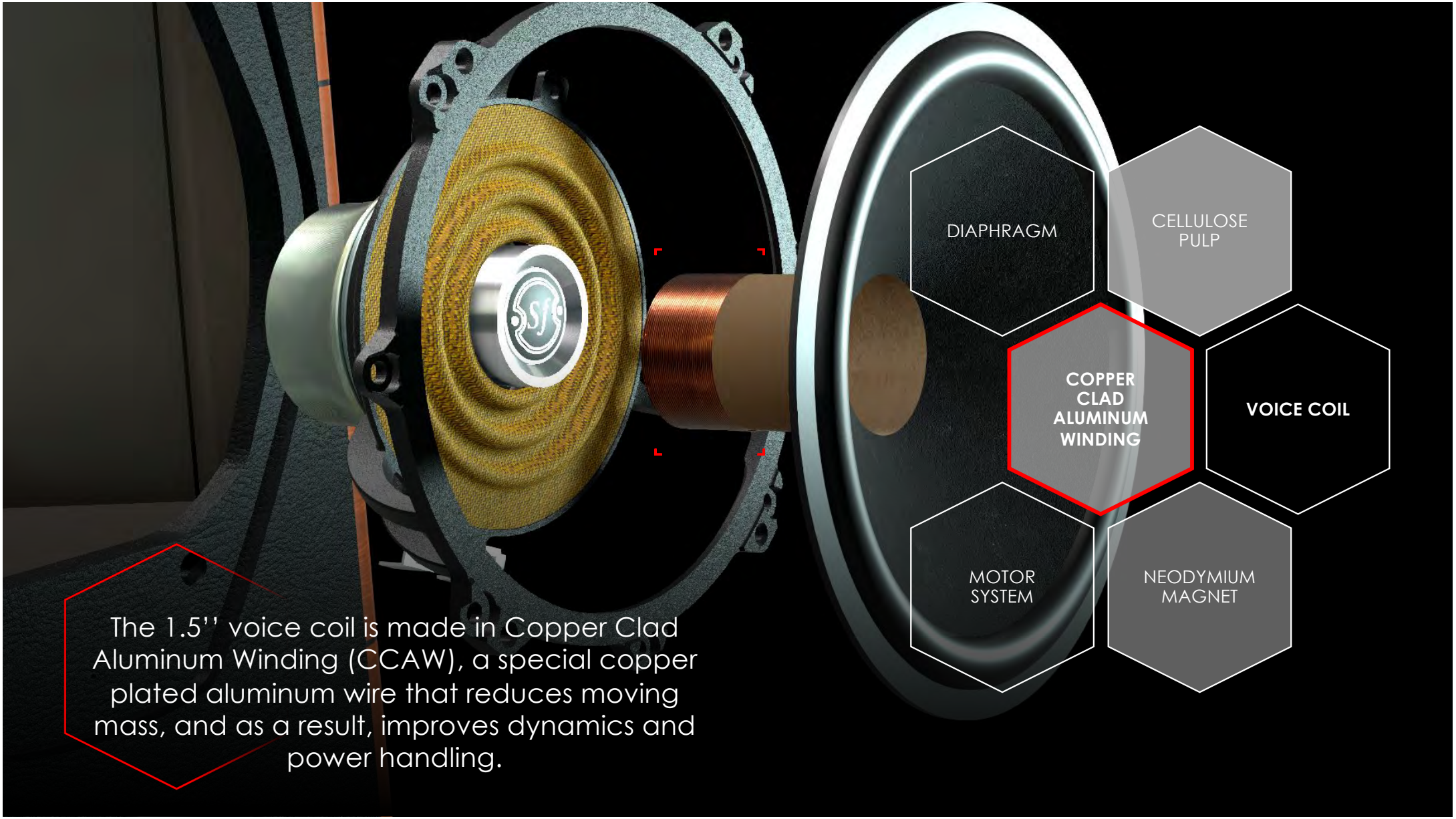

DIAPHRAGM
BERYLLIUM DLC
NEODYMIUM MAGNET
MOTOR SYSTEM
ACOUSTIC CHAMBER
ERGAL CNC
Dynamic, linearity and resolution are the results of a powerful Neodymium magnetic system.
The tweeter is implemented with a mechanical interface that optimizes vibration management.

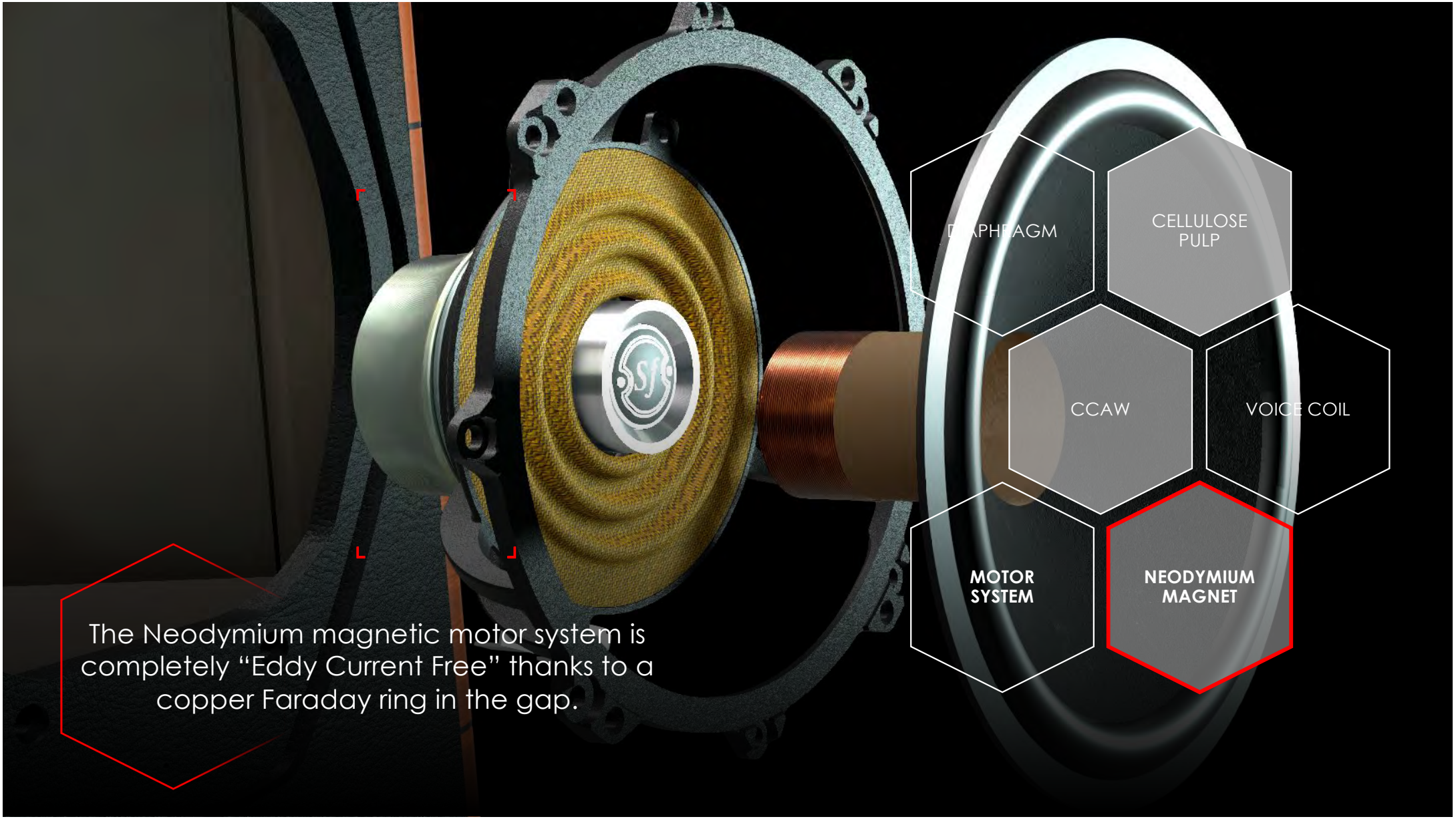



DIAPHRAGM
BERYLLIUM DLC
NEODYMIUM MAGNET
MOTOR SYSTEM
ACOUSTIC CHAMBER
ERGAL CNC
A rear decompression chamber featuring an acoustic labyrinth free of parallel surfaces, CNC machined from solid billets of Ergal and enhanced with an imbedded mechanical anti-resonation device, further improves detail and transparency.

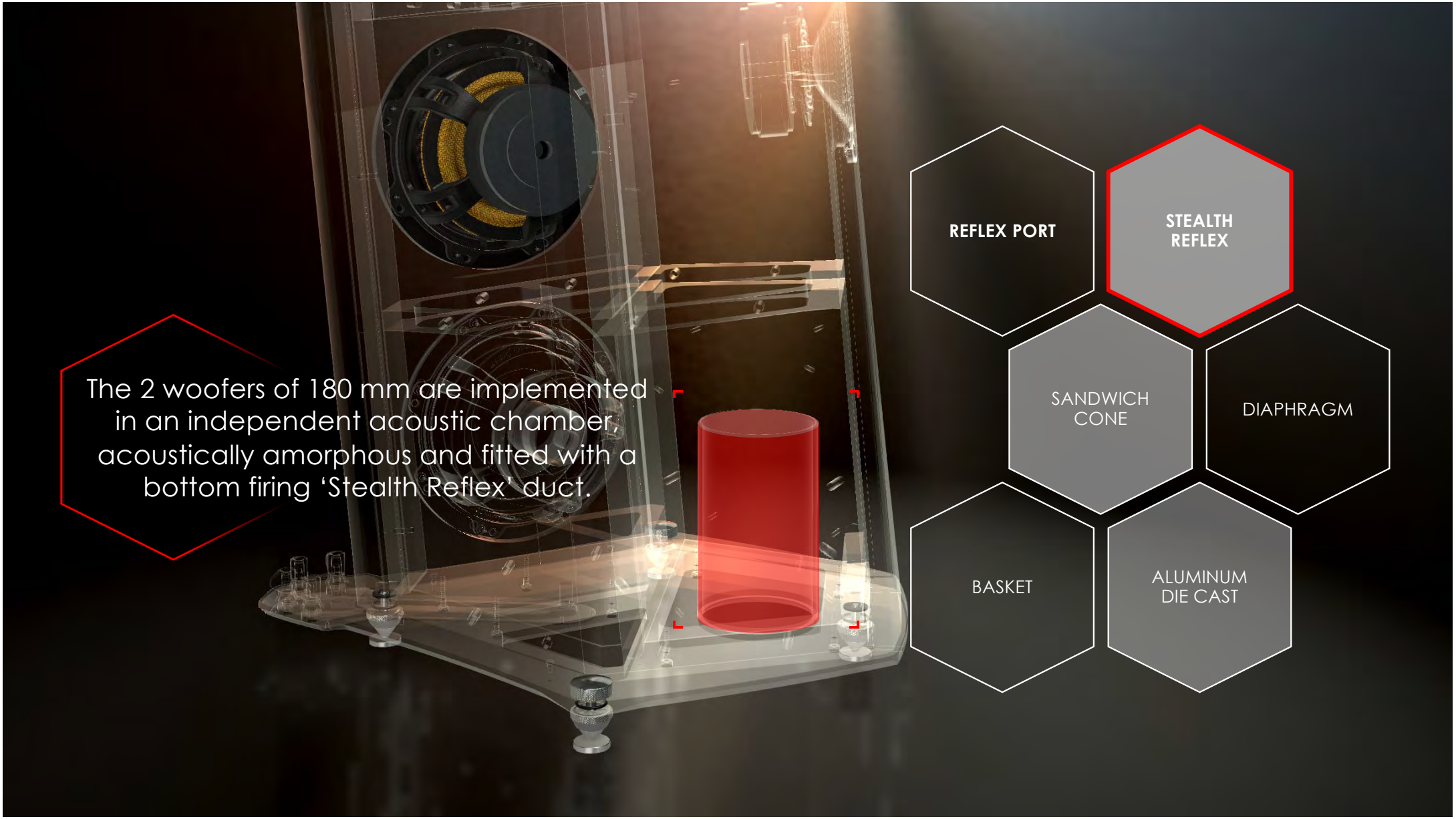
The Voice of Sonus faber
MIDRANGE

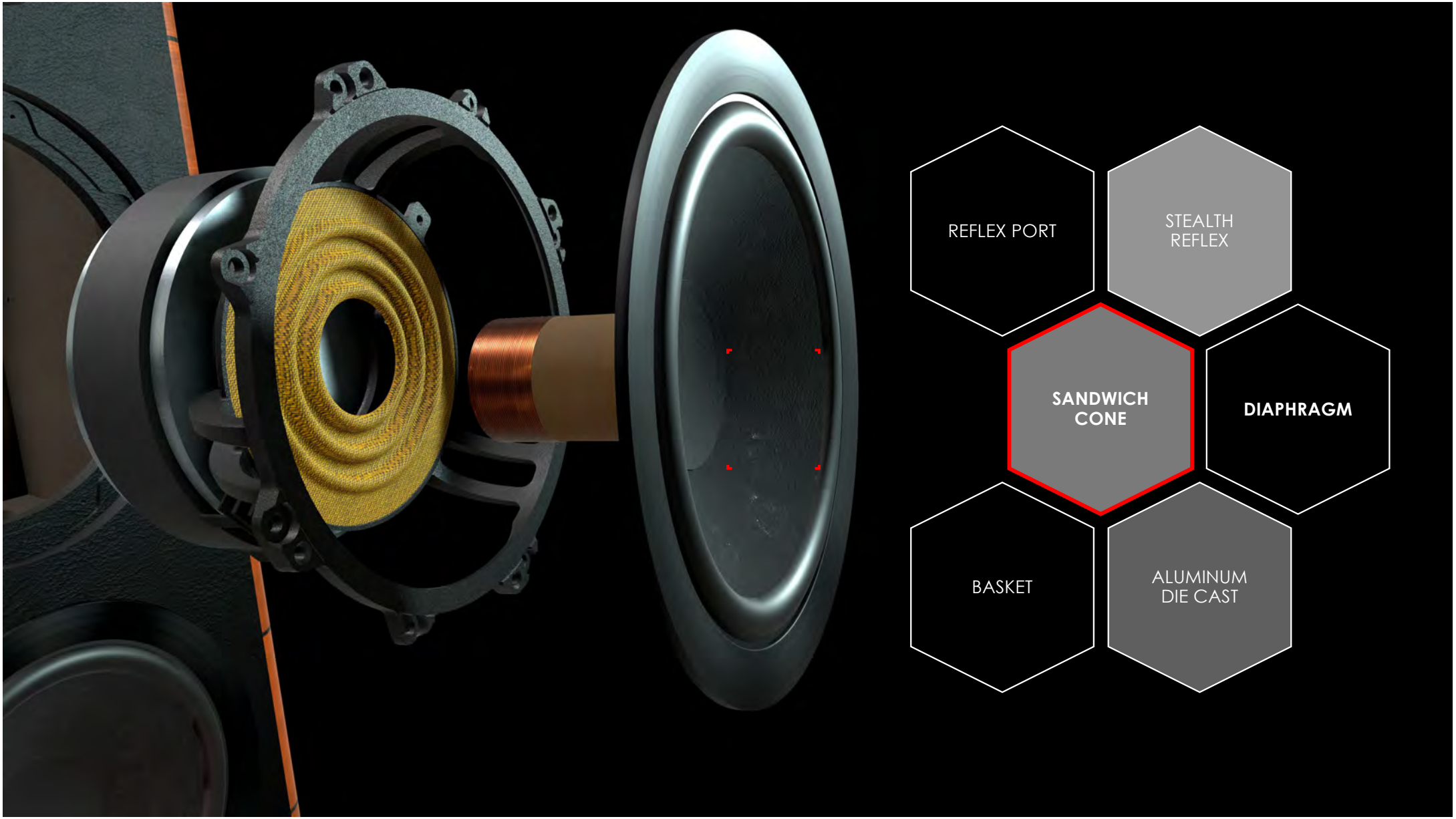

DIAPHRAGM
CELLULOSE PULP
CCAW
VOICE COIL
MOTOR SYSTEM
NEODYMIUM MAGNET
The air-dried, non-pressed blend of cellulose pulp, Kapok, Kenaf, and other natural fibers used for the cone, produces slightly rough surface of varying density, which damp and distributes cone resonances, guaranteeing a natural sound, transparent and detailed.


DIAPHRAGM
CELLULOSE PULP
COPPER CLAD ALUMINUM WINDING
VOICE COIL
MOTOR SYSTEM
NEODYMIUM MAGNET
The 1.5'' voice coil is made in Copper Clad Aluminum Winding (CCAW), a special copper plated aluminum wire that reduces moving mass, and as a result, improves dynamics and power handling.


DIAPHRAGM
CELLULOSE PULP
CCAW
VOICE COIL
MOTOR SYSTEM
NEODYMIUM MAGNET
The Neodymium magnetic motor system is completely “Eddy Current Free” thanks to a copper Faraday ring in the gap.

WOOFER


The 2 woofers of 180 mm are implemented in an independent acoustic chamber, acoustically amorphous and fitted with a bottom firing ‘Stealth Reflex’ duct.
REFLEX PORT
STEALTH REFLEX
SANDWICH CONE
DIAPHRAGM
BASKET
ALUMINUM DIE CAST


REFLEX PORT
STEALTH REFLEX
SANDWICH CONE
DIAPHRAGM
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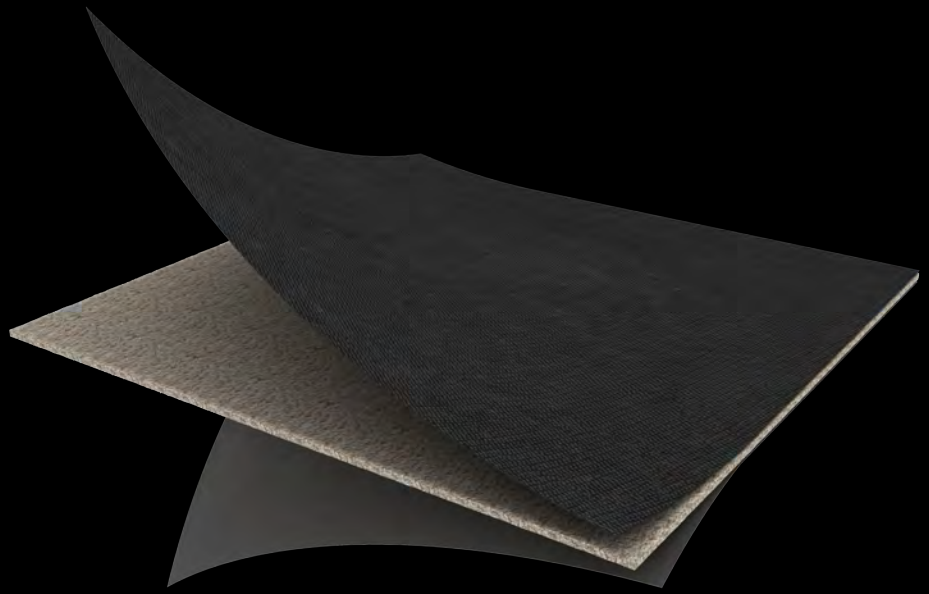
ALUMINUM DIE CAST



REFLEX PORT

STEALTH REFLEX

SANDWICH CONE

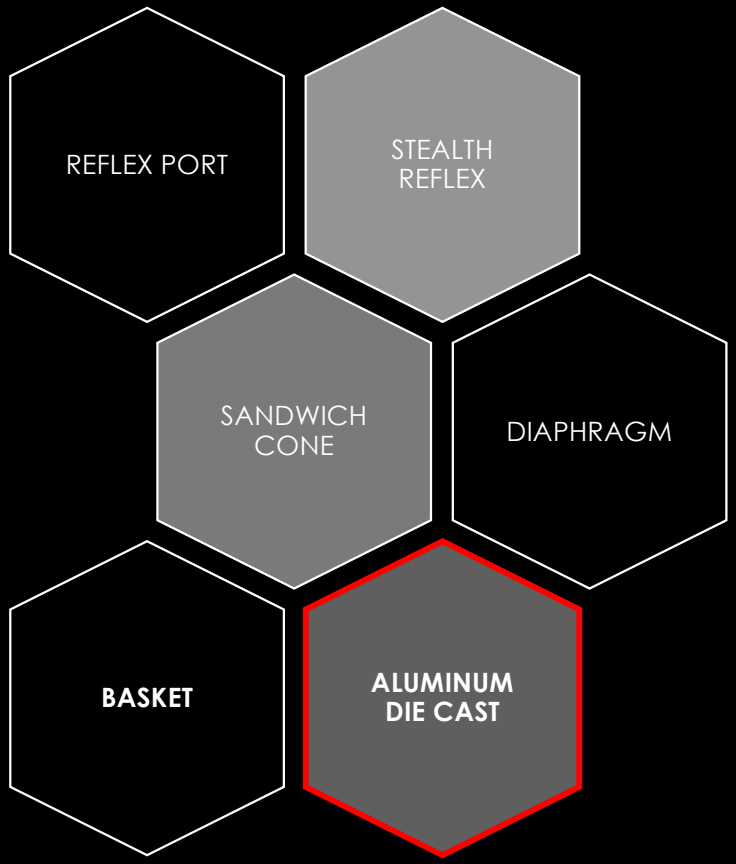
DIAPHRAGM

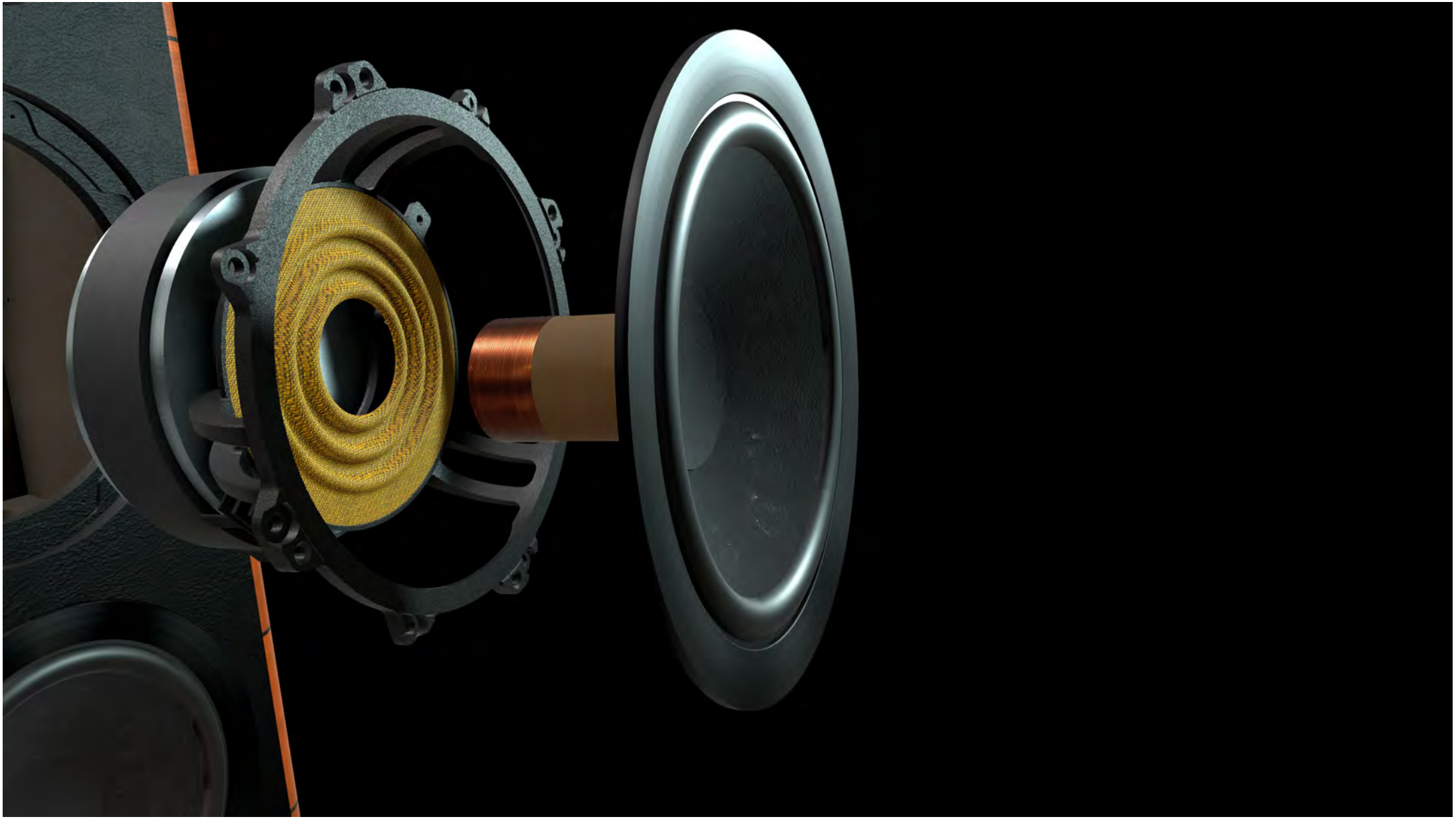
BASKET

ALUMINUM DIE CAST

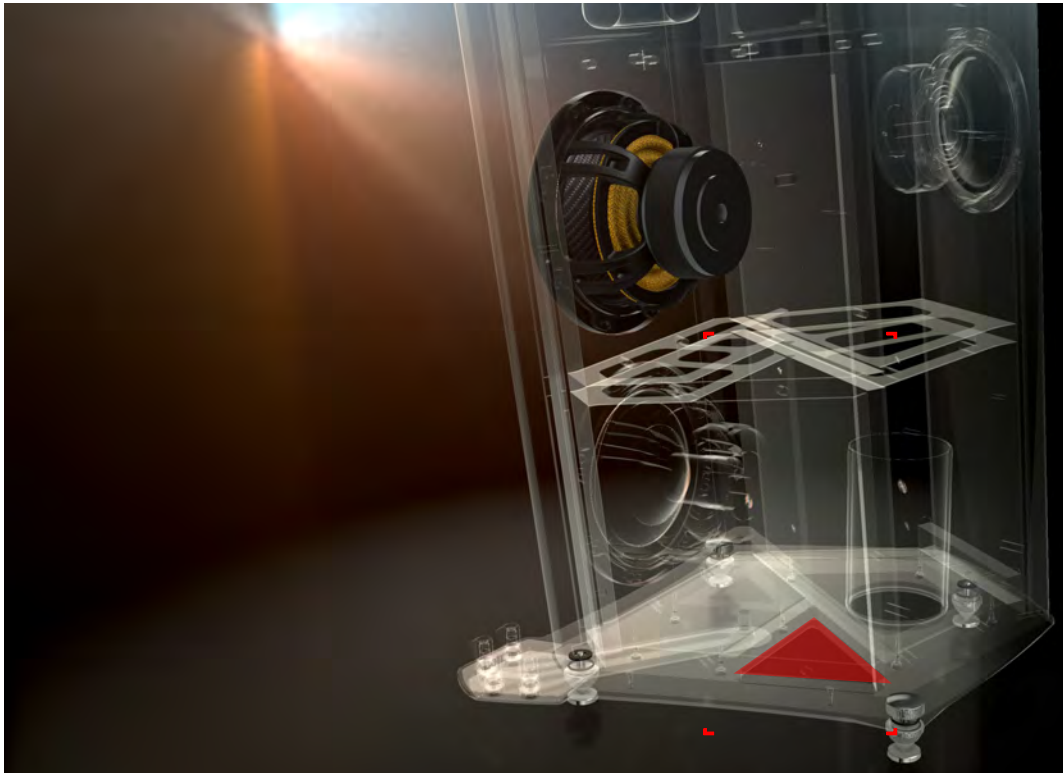
The woofer membrane is made of two sheets of our cellulose pulp recipe with a layer of rigid syntactic foam in between them. This technique provides maximum tone coherence with the mid-high units but also ensures, speed, rigidity and low mass of the diaphragm: all essential features on bass driver.

The cone is mounted on a die-cast aluminum baskets designed for absolute structural rigidity, ensuring maximum ventilation to the moving parts. It improve the micro-dynamics of the transducer.

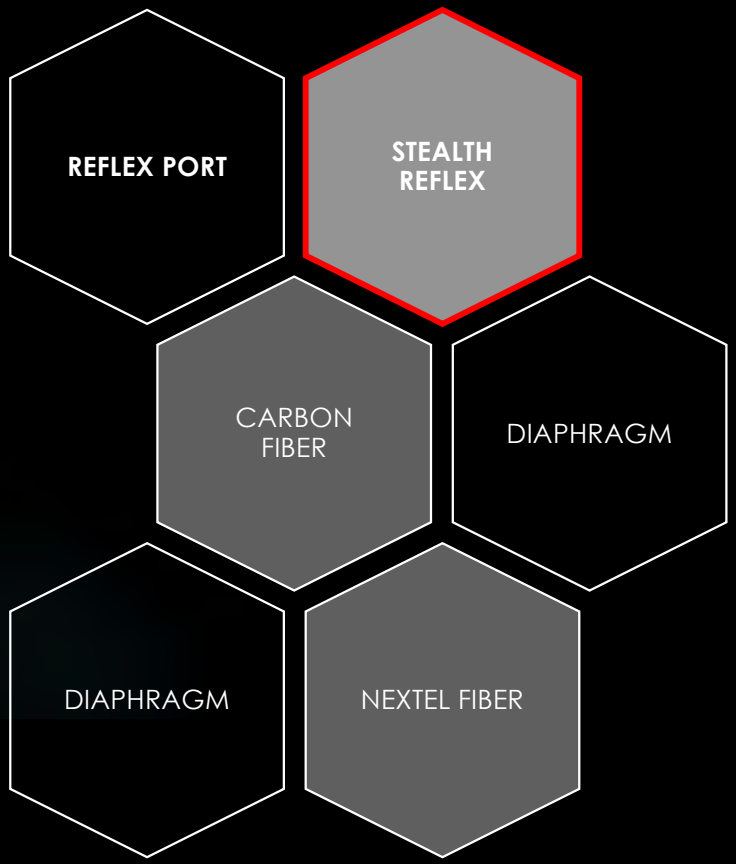


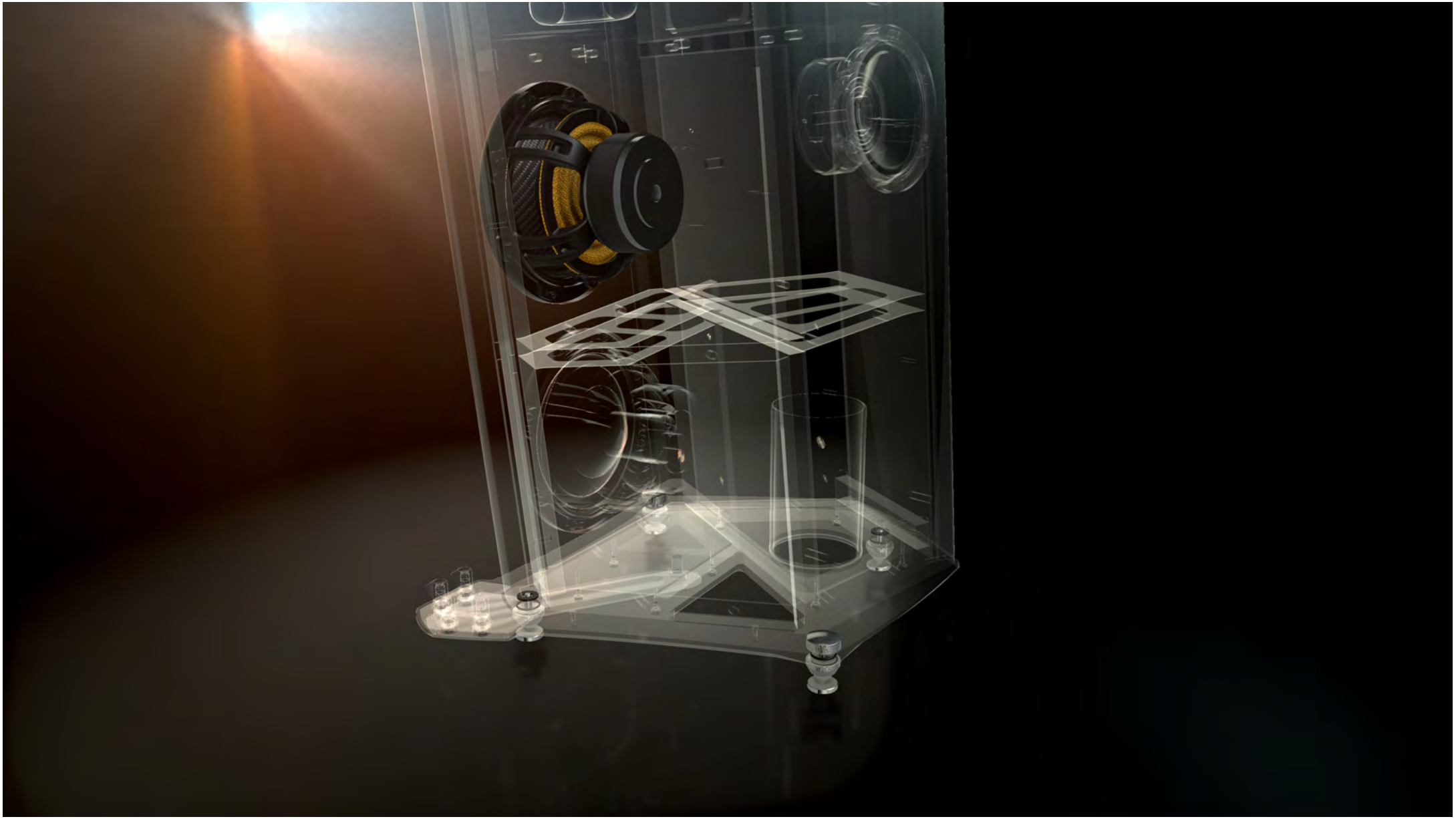


SUBWOOFER

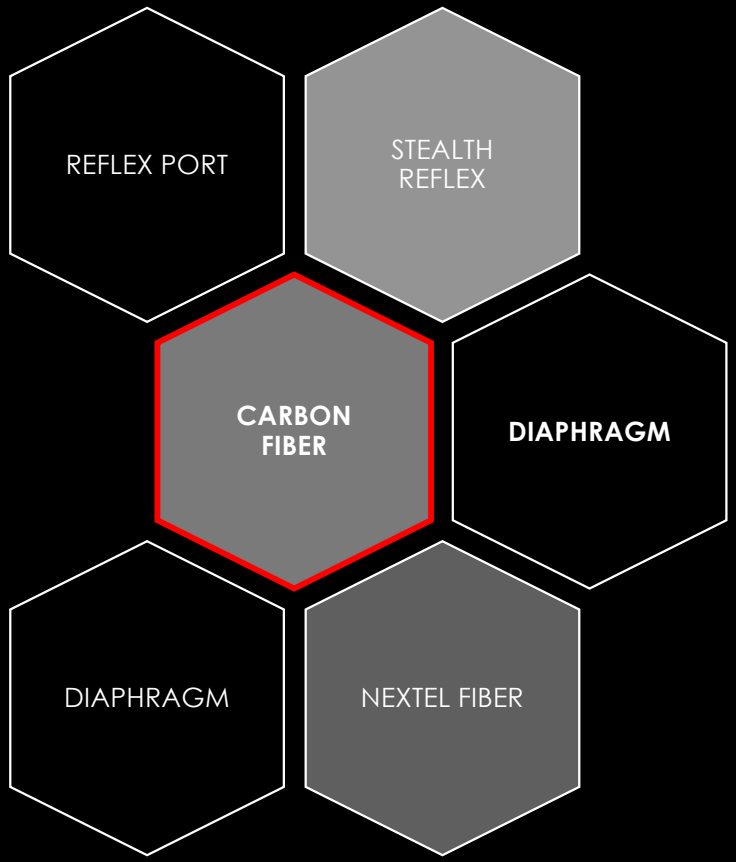


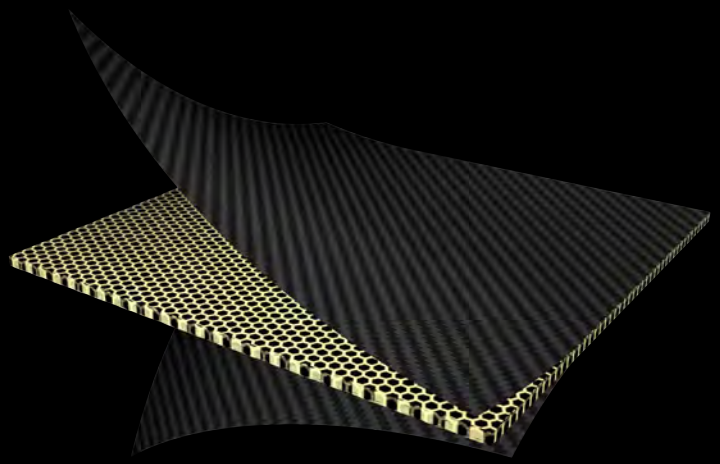
Like the woofer, the infra-woofers are implemented in independent acoustic chambers, acoustically amorphous, fitted with their own ‘Stealth Reflex’ duct.

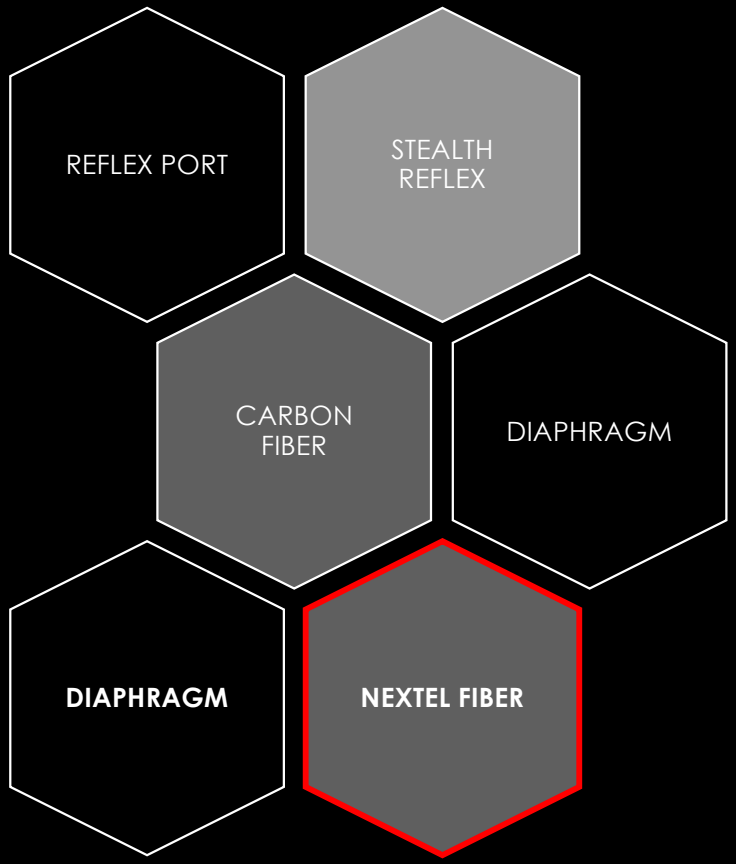




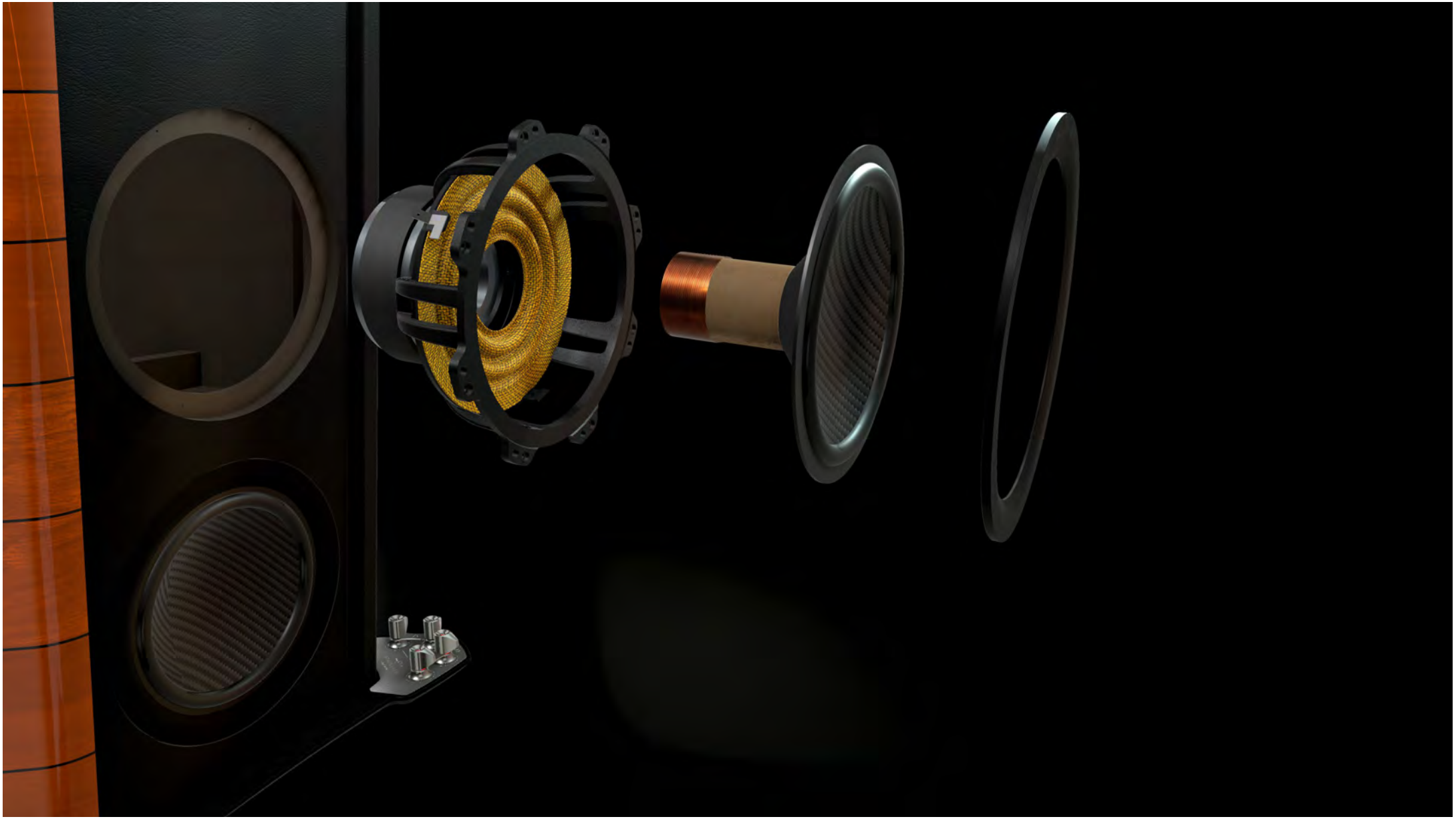
The 2 side-firing subwoofers are designed *ad hoc* for this project. Their diaphragm is made from nanocarbon fiber, used not only for its incredible structural rigidity, but also as a call back to the mid-woofer of Ex3ma-- the project that gave the name and inspiration for Il Cremonese Ex3me.

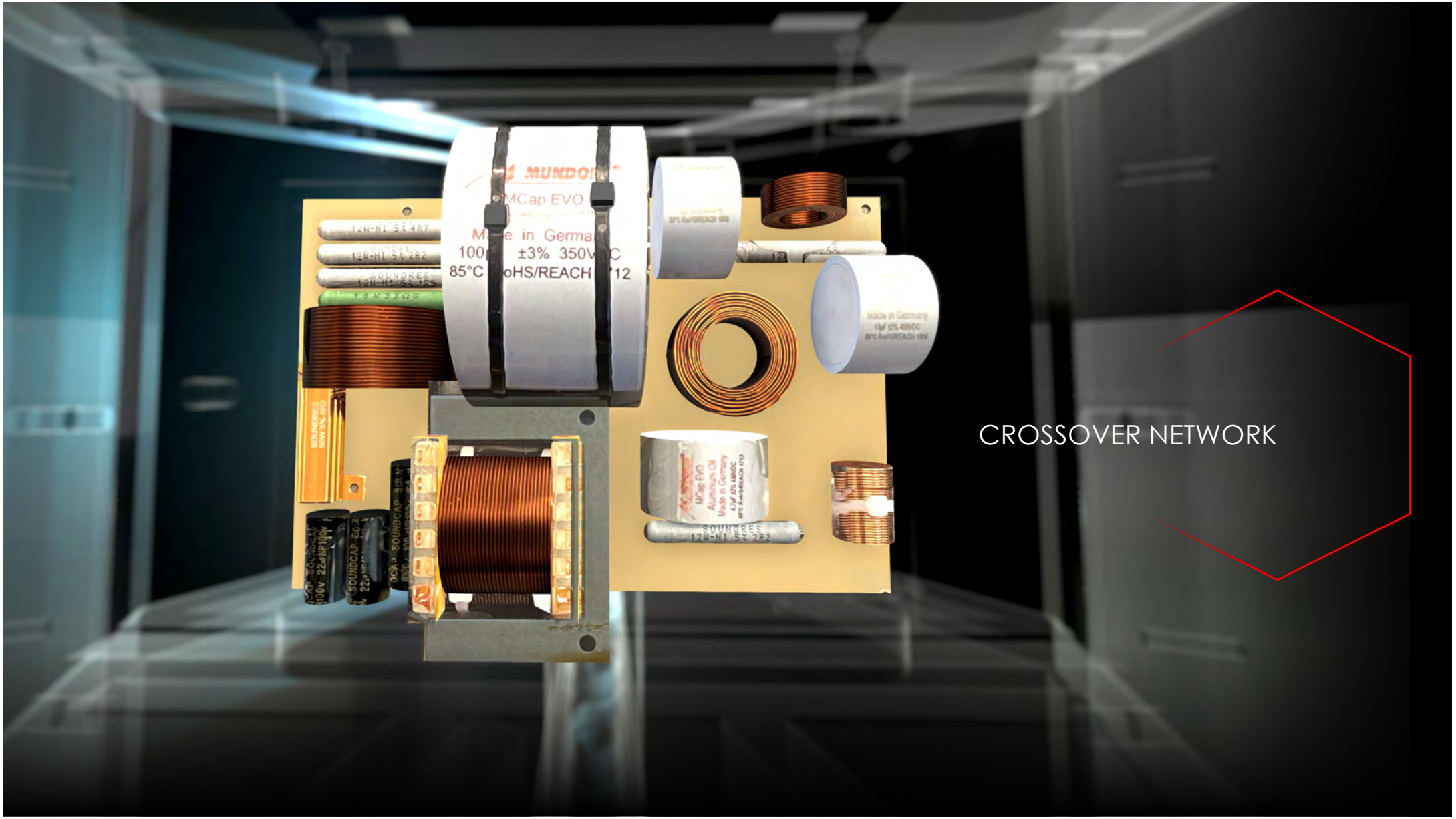




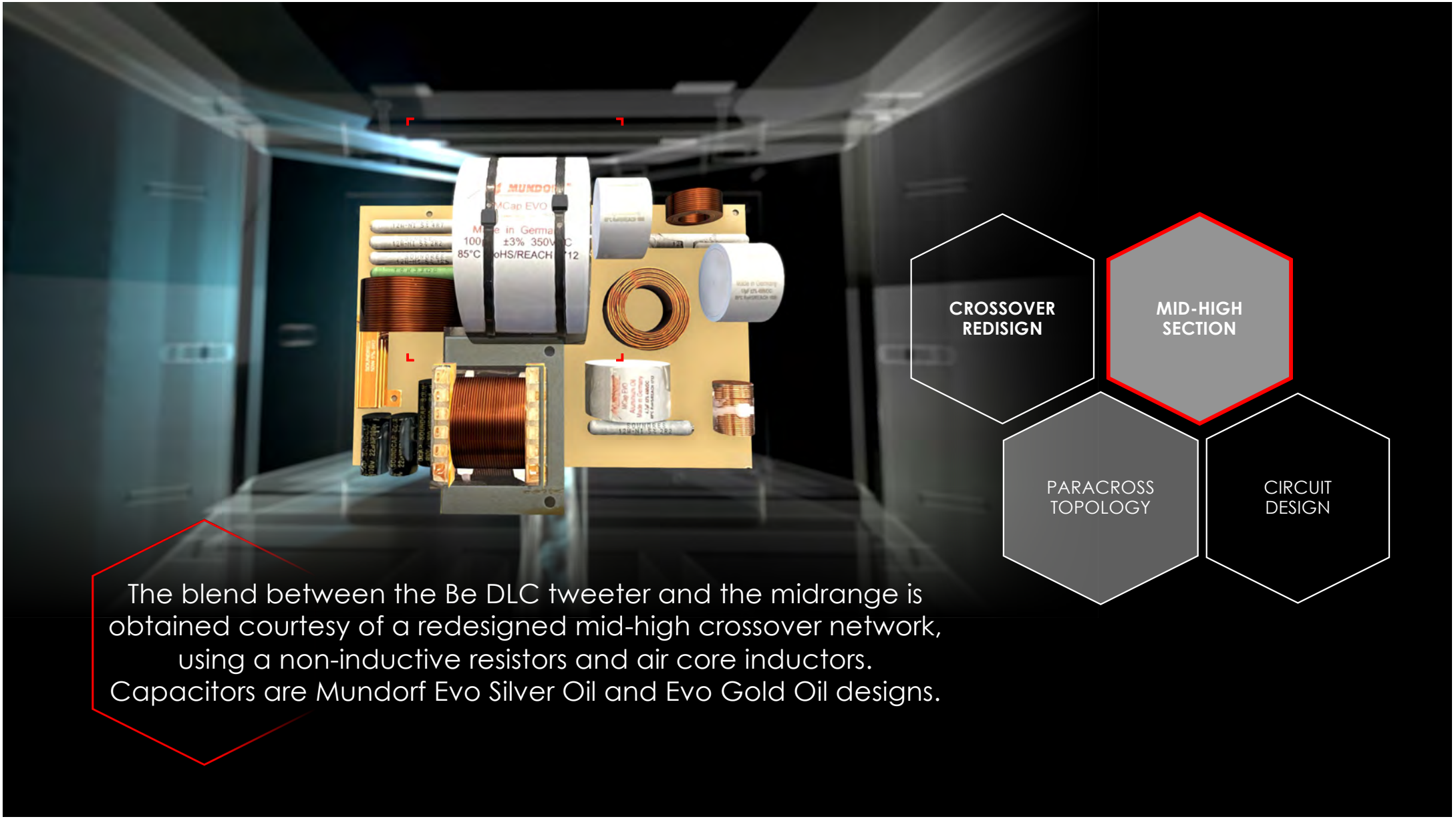


This Tri-laminated honeycomb sandwich cone diaphragm manages the driver's excursion and resistance to flexing, even at extreme amplitudes.

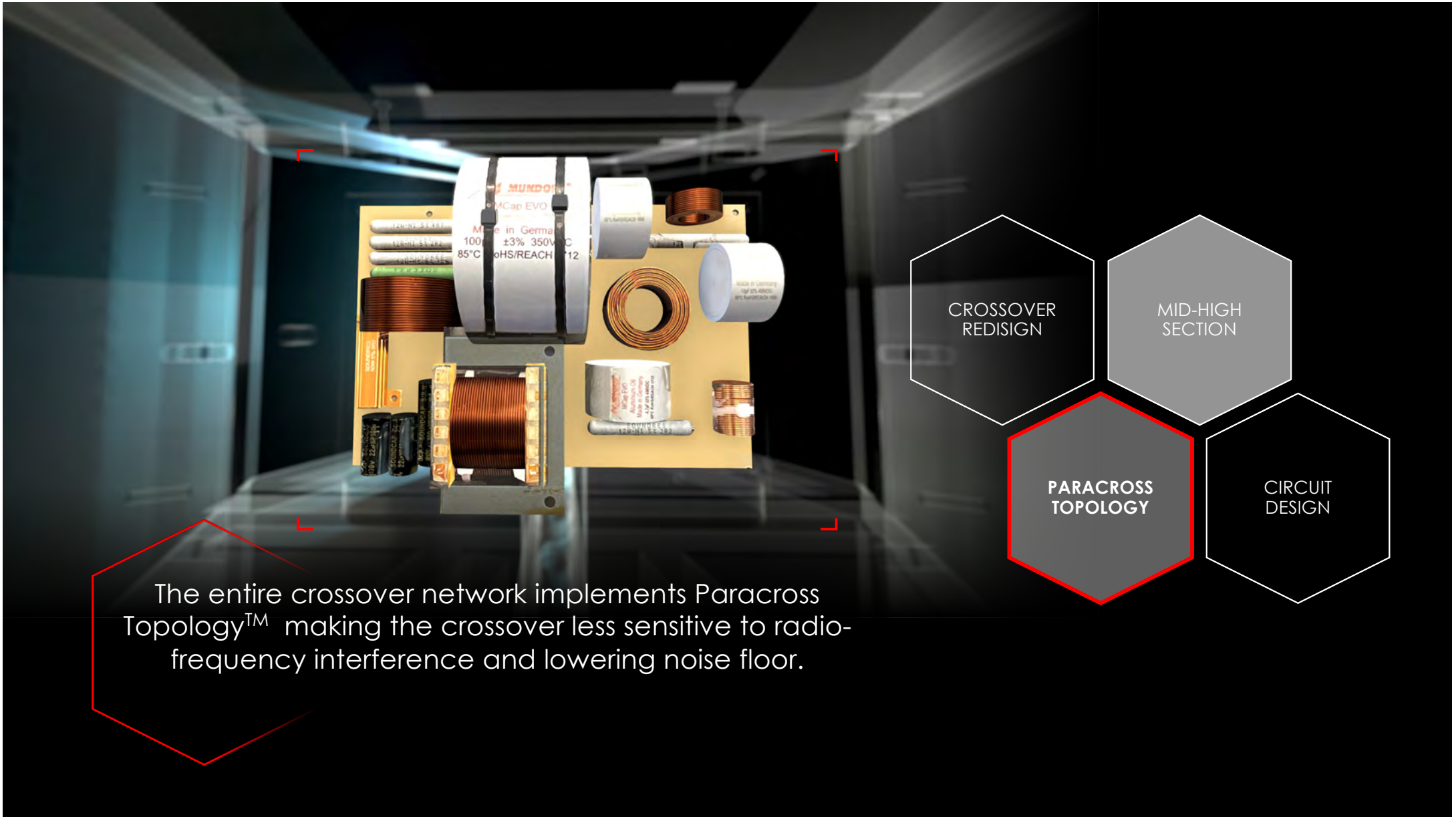




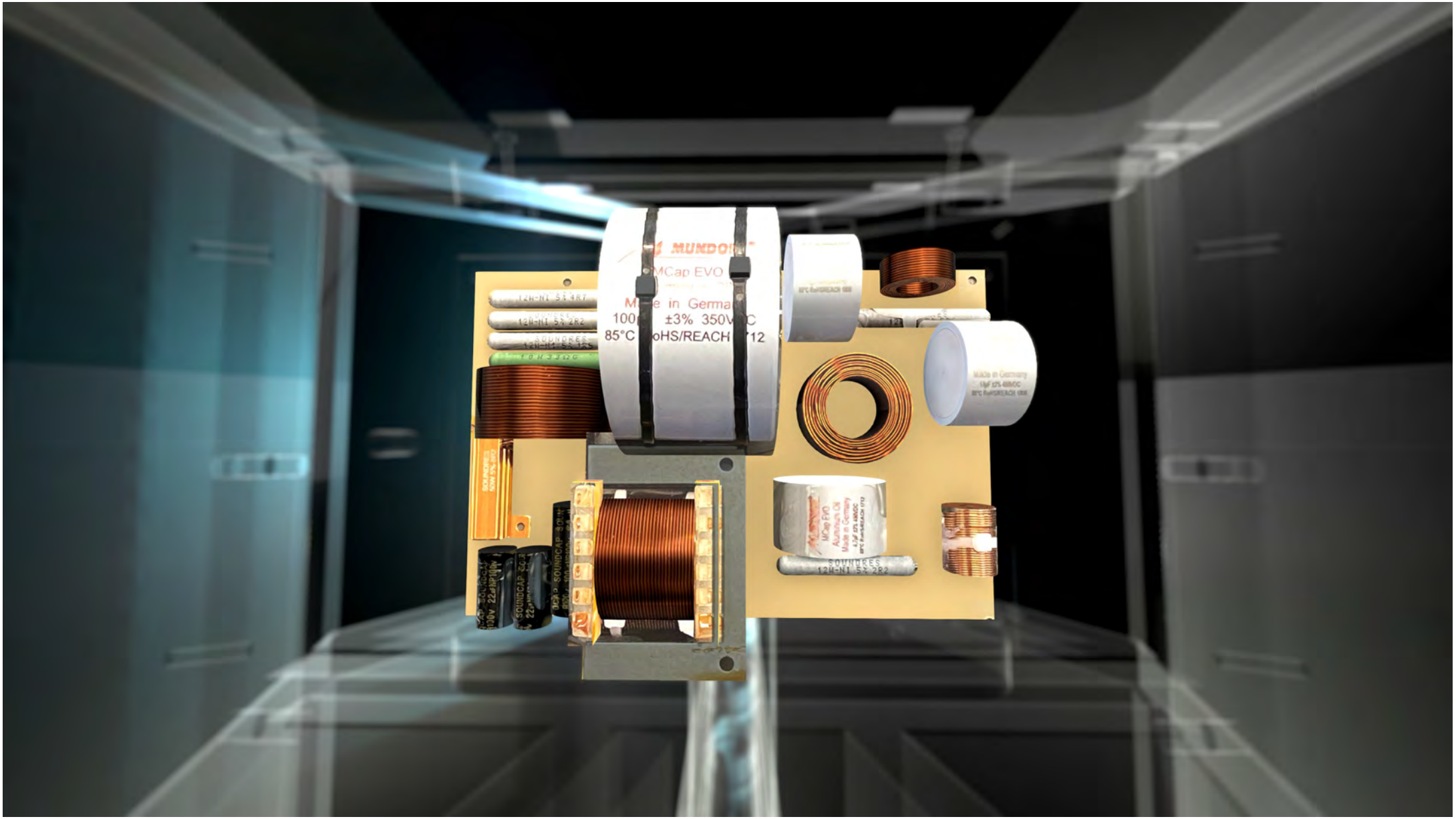
CROSSOVER NETWORK



The blend between the Be DLC tweeter and the midrange is obtained courtesy of a redesigned mid-high crossover network, using a non-inductive resistors and air core inductors. Capacitors are Mundorf Evo Silver Oil and Evo Gold Oil designs.



The entire crossover network implements Paracross Topology™ making the crossover less sensitive to radio-frequency interference and lowering noise floor.


MCap EVO
±3%
85°C
SOUNDRES
Made in Germany

DESIGN

The design maintains the quintessential characteristics of the original model, namely the "Romboidal Diamond Design. Maintaining the absence of parallel walls, it ensures that the acoustic characteristics are not compromised by standing waves or internal reflections.

SHAPE

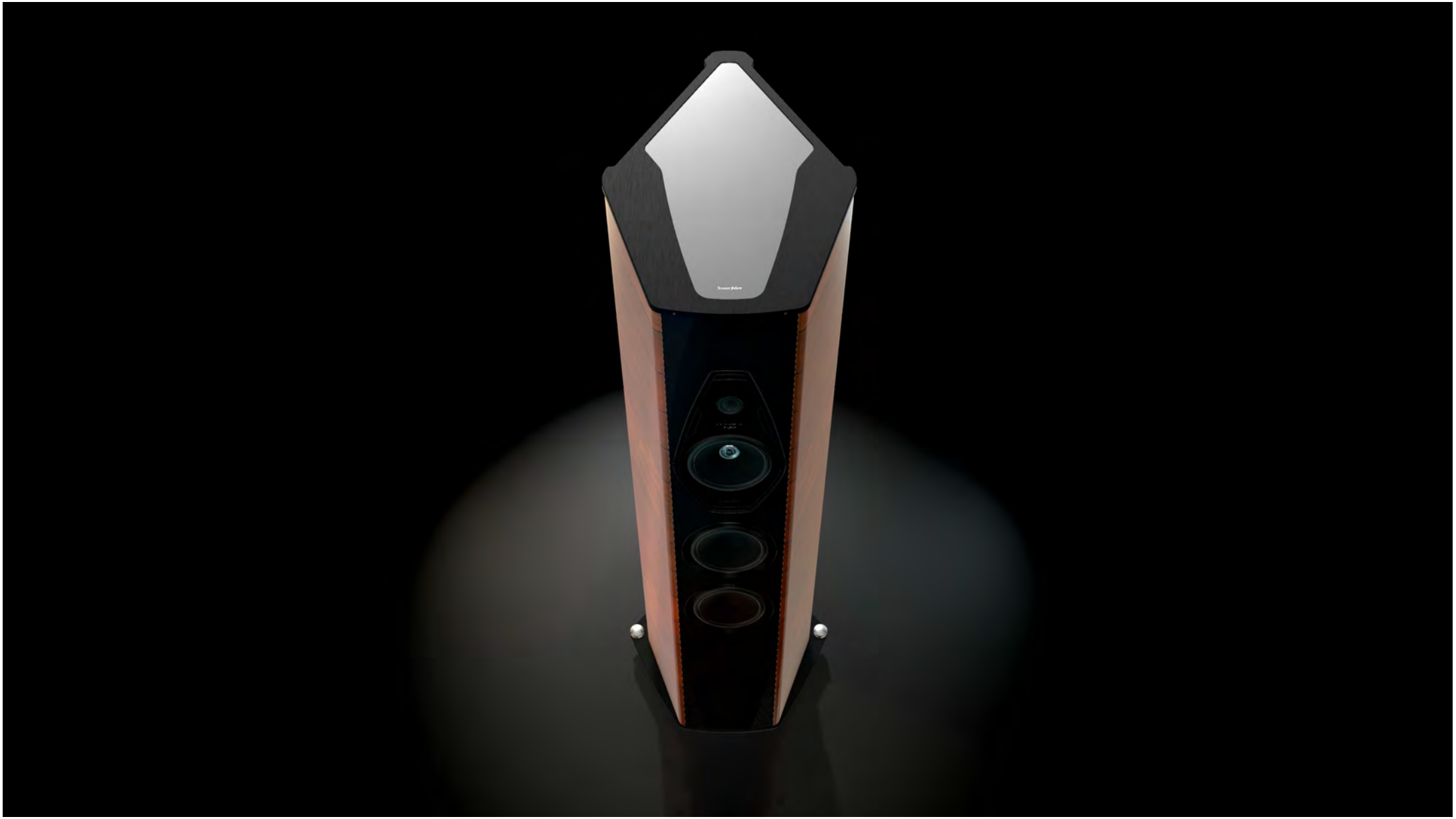
ROMBOIDAL DIAMOND DESIGN

DAMPSHELL

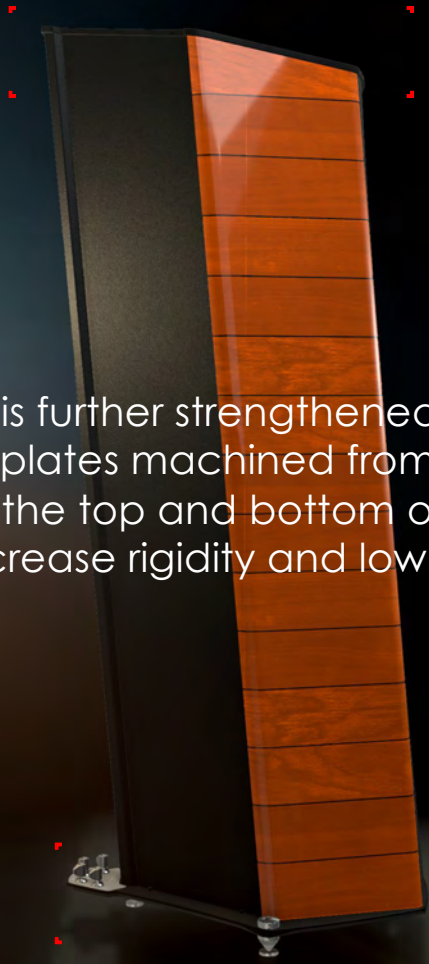
TOP & BASE PLATES

FOOTERS

SILENT SPIKES



This cabinet is further strengthened by the "Dampshelves“, 2 plates machined from solid billet of aluminum forming the top and bottom of the cabinet. These elements increase rigidity and lower resonance.



CABINET

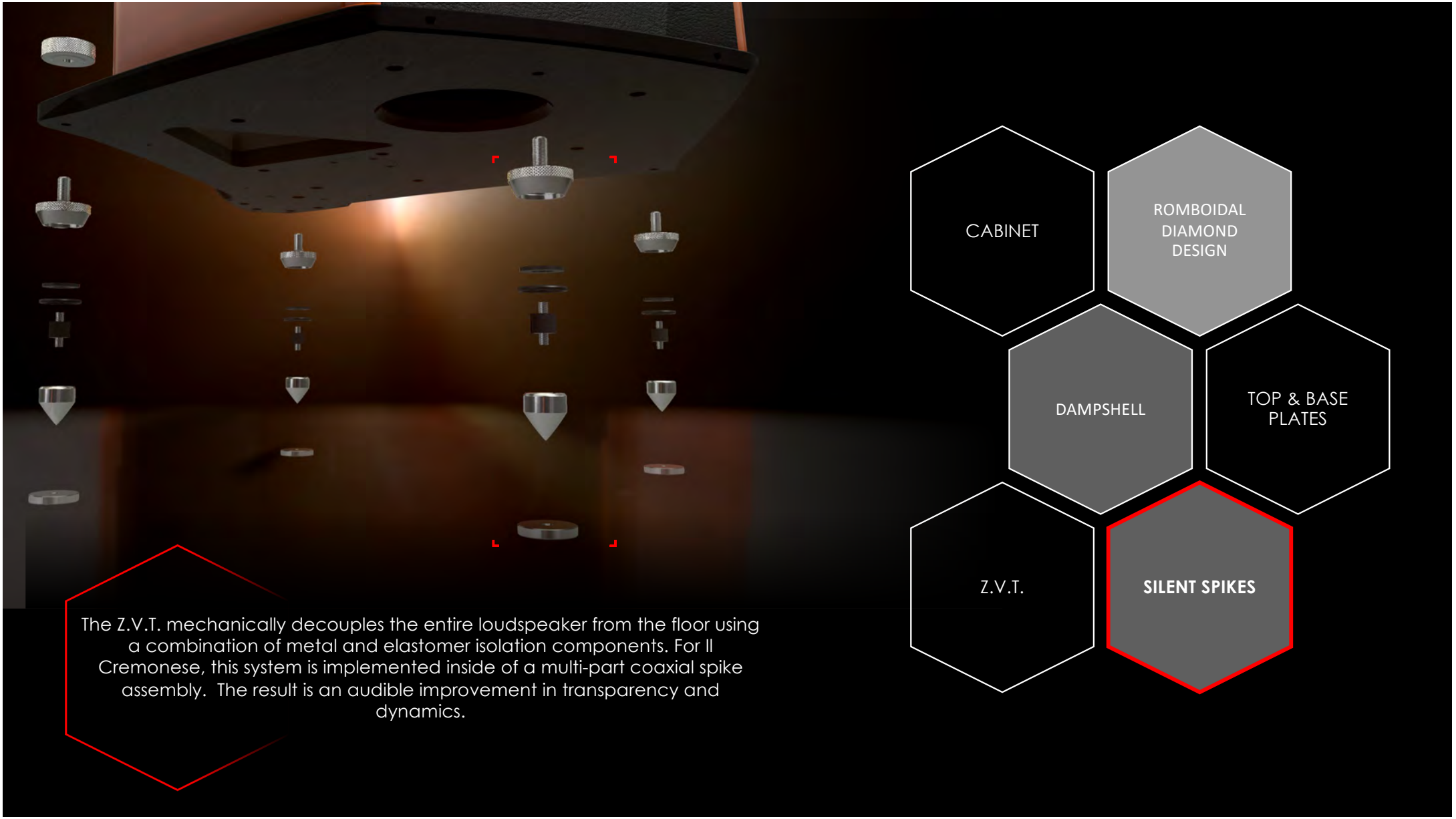
ROMBOIDAL DIAMOND DESIGN

DAMPSHELL

TOP & BOTTOM PLATES

FOOTERS

SILENT SPIKES



The Z.V.T. mechanically decouples the entire loudspeaker from the floor using a combination of metal and elastomer isolation components. For Il Cremonese, this system is implemented inside of a multi-part coaxial spike assembly. The result is an audible improvement in transparency and dynamics.

TECHNICAL SPECIFICATIONS

TYPE	3.5 ways, 6 speakers
SOUND EMISSION	Direct
ACOUSTICAL LOADING	Bass-Reflex, Floor emission (woofers)/ Rear (midrange) ports. "Stealth Reflex" technology
CABINET	Multilayered wood (sides) and Leather finishing High density wood fiber (cabinet). Massive Avional top and basis
DRIVERS	Tweeter: 30 mm Diamond Like Carbon Beryllium dome diaphragm Midrange: 150mm composite cone, Nd magnet Woofers: 2x180mm composite cone, Fe magnet Infra-woofers: 2x220mm Nanocarbon Fiber/Nomex Honeycomb Long Throw Subwoofer
CROSSOVER FREQUENCY	250 Hz and 2,500 Hz
FREQUENCY RESPONSE	25 Hz – 35,000 Hz
SENSITIVITY (2.83 V @1 m)	92 dBSPL
NOMINAL IMPEDANCE	4 ohm
WIRING OPTIONS	Single/Bi-wiring
SUGGESTED AMPLIFIER POWER OUTPUT	100W – 800W, without clipping
DIMENSIONS (H x W x D)	1,450 x 398 x 622 mm / 57 x 15.3 x 24,5 in
WEIGHT	84 Kg / 185 lb each
SMRP	€ 50.000

THANK YOU!