

Close your eyes and see

This is Contour. Effortless simplicity... 27 years in the making

When you get a Dynaudio Contour you're up in the big league. You can see it from the craftsmanship; you can hear it in the performance. And everyone else can, too.

It's been that way since 1989. The performance of the original Contour dropped jaws all over the world – and each update has done the same for the past 27 years.

Your jaw is about to do it again.

We've moved on since 1989. You've moved on, too. That's why we've applied all our experience, all our expertise – and all our passion – to looking at what made the original so good ... and then making it even better.

It's time for a new legend. This is a speaker re-thought, re-designed, re-engineered and re-built for 2016.

This is Contour.

04-05	Why we did it
06-07	Contour 20
08-09	Contour 30
10–11	Contour 60
12-13	Contour 25C
14–17	How we got there
18-21	Why we listen to glue
22-25	Invented in Denmark, perfected in Denma
0.0	The venes



Contour 20 The compact one

Compact? Yes. Compact-sounding? No.

The Contour 20 standmounter takes everything we know about speaker technology - we're Danes; we know a lot - and puts it in a compact, clean and great-sounding package.

Its sweet-toned Esotar² soft-dome tweeter has been a legend in its own right for vears. It's commonly regarded as one of the world's best-ever drivers - and because it's been such a great friend to so many millions of ears (and a key part of Contours past), we just had to give it another outing.

The extended-excursion 18cm woofer, though, is brand new. It's powered by a lightweight aluminium voice-coil and a vented dual-ferrite magnet system, and was created by driver specialists Danny Pasfall Christensen and Andreas Eberhardt Sørensen and their team under acoustic maestro Daniel Emonts. (They can hear the differences between different types of glue. We like those guys.)

It's made from MSP - a material we developed ourselves, and have been using in our drivers since 1985. MSP gives exactly the right combination of stiffness and damping - which you'll hear as exactly the right combination of power, finesse and control. Just what a Contour speaker should have. But we've taken it further: we've varied the diaphragm's thickness across its surface, which gives even greater control over its sound.

Making a Contour without its signature baffle would be like making a car without wheels. Unthinkable. But there's always room for improvement – and our designers love to stretch their legs (you should see the number of sketches they produced for just this part). This baffle is aluminium, and set into the cabinet. Its chamfer is included in the driver's basket – which not only looks great, but also reduces unwanted high-frequency diffraction effects for clearer treble, and provides a solid foundation for the drivers to do their work. A solid foundation means improved high-volume performance at low frequencies, too (although your neighbours might not thank us for that).

And although we might have changed the cabinet's shape (square is out; curves are in), the new design tips a respectful nod to older Contours. Look at it from the top; you'll see the old baffle design in its shape. But it isn't just for show – the new shape marries those aesthetics with cutting-edge acoustic physics. Its multilayered construction is extremely well-damped, which means the Contour's sound goes exactly where it's supposed to: forwards.

We've redesigned the internal wiring and crossover, too. You won't see what we've done, but you'll hear the effect: amazingly clear sound, even off to the sides of the speakers. We love it.

Pure, honest, compact. This is Contour 20.



Say hello to the brand-new Contour 20. Everything we know about speaker design in a compact, clean, great-sounding package.

Contour 30 The mediumsized one

Mid-size room? Mid-size speaker.

Contour 30 steps it up a notch from the 20. Of course, it still treads the same path – one of honesty, transparency and sheer entertainment, but it puts it all in a bigger package.

We've endowed Contour 30 with two 18cm MSP drivers, as well as doubling up on the rear ports. What makes our drivers so special? Variable thickness across the diaphragm, for one thing.

And aluminium voice-coils, for another. We can make them extremely light – but also bigger than the old-style copper units you'll find elsewhere. Lighter weight means larger diameters, which means we can use more windings, which means we have more control over the cone movement. And that means more control over the sound – especially at high frequencies and high volumes. Sure, we experimented with small voice-coils on the new Contour - the size other companies might use. The measurements said they should work for Contour. Our ears said otherwise, so we went big. Our ears were right.

And, of course, we've included the ultra-pure, ultra-clear, ultra-sweet-sounding Esotar² fabric soft-dome tweeter. You might also notice that we've put it back on top of the mid/bass drivers. Never let it be said that we don't read our fan-mail.

And because we're irrepressible tinkerers, we've given the inside a makeover, too. As with the Contour 20 and Contour 60, the Contour '30 has new baskets to hold the drivers themselves, as well as a new crossover and new wiring. We listened to our old Contours for months – the whole range (as if we needed an excuse) – and

decided we wanted the crossover to serve up even better bass. So now, you can go louder and lower. You're welcome.

While our engineers and designers were hunkered down listening to everything from jazz, to classical, to metal, to electronica, the team in our on-site factory were scouring sustainable sources for high-quality materials and finishes. They make sure all Contours are furnituregrade: perfectly built, perfectly finished and perfectly packaged.

Powerful, controlled, remarkable. This is Contour 30.



Power, control and elegance. The Contour 30 has been redesigned inside and out to deliver a truly memorable performance.

Contour 60 The bia one

Commanding, clear-cut, absolute. This is Contour 60.



If you have a bigger listening room - or if you just like to play it loud - the Contour 60. with its unique midrange driver, is your new best friend.

Contour 25C The one for movie-lovers

It's been said that sound accounts for as much as 80 per cent of the moviegoing experience. And we can't argue with that (musicals, especially, don't have quite the same impact with the volume set to zero).

That's why we created the Contour 25C centre-channel. Mix and match it with a combination of Contour 20s. 30s and 60s for a seamlessly integrated multichannel system – a system on which you know you'll be able to enjoy stereo music as much as you will a teeth-rattling blockbuster.

Why? Because it's essentially a Contour 30 turned on its side, with the tweeter moved to the middle. The super-detailed Esotar² soft-dome unit is flanked by a pair of 18cm MSP drivers – all of which use the same high-end lightweight aluminium voice-coils and magnetic ferrofluid technology as the rest of the Contour range.

Our loudspeakers are used in music and movie production studios all over the world - so we know how crucial it is to reproduce multichannel sound to its fullest potential (you should come to Movie Night at Dynaudio HQ. It's amazing...but you'll have to be able to speak Danish).

And if you're investing time in watching a movie (or even a TV show), you want that experience to be as clear, dynamic, assured and powerful as it can be. Most of the speech information comes out of the centre-channel, which is why the Contour 25C's combination of legendary materials and balanced, neutral sound is so ideal.

That's why the Contour 25C doesn't compromise. All the knowledge, care and enthusiasm that goes into our upright speakers is here, too. The finish is furnituregrade; the materials top-quality (we've even redesigned the baskets that hold the drivers in the cabinets – and yes, we know you can't see them; we wanted to do it anyway).

If you want a companion or an upgrade for your existing Dynaudio system, this is it.

Defined, potent, literal. This is Contour 25C.



How do you design a new legend? Experiments, arguments, tests, more experiments, designs, prototypes...

You can't reinvent the wheel. But you can change the spokes. In redesigning the Contour range, we changed a lot of spokes.

We worked hard to retain the original's DNA; its character. But we also wanted to provoke - so we gave our teams free rein to experiment with different materials, different techniques and different designs.

That meant scaring ourselves a little sometimes. Like when we did some A/B listening tests on small voice-coils compared with our signature large ones. That's a big step. This time, it proved to be a step too far - they just didn't sound as good as the technology we've been using for years - but we didn't simply discount the idea. We listened

Then there's the time when Malte Köhn. Lead Product Designer on the Contour, rocked up to a meeting with armfuls of sketches (you can see some of them here). "I tried to work with non-traditional colour and material combinations," he says. "But I wanted to keep the Contour's classic design, which is quite edgy and brutal. We turned it into something that's more elegant and technical."

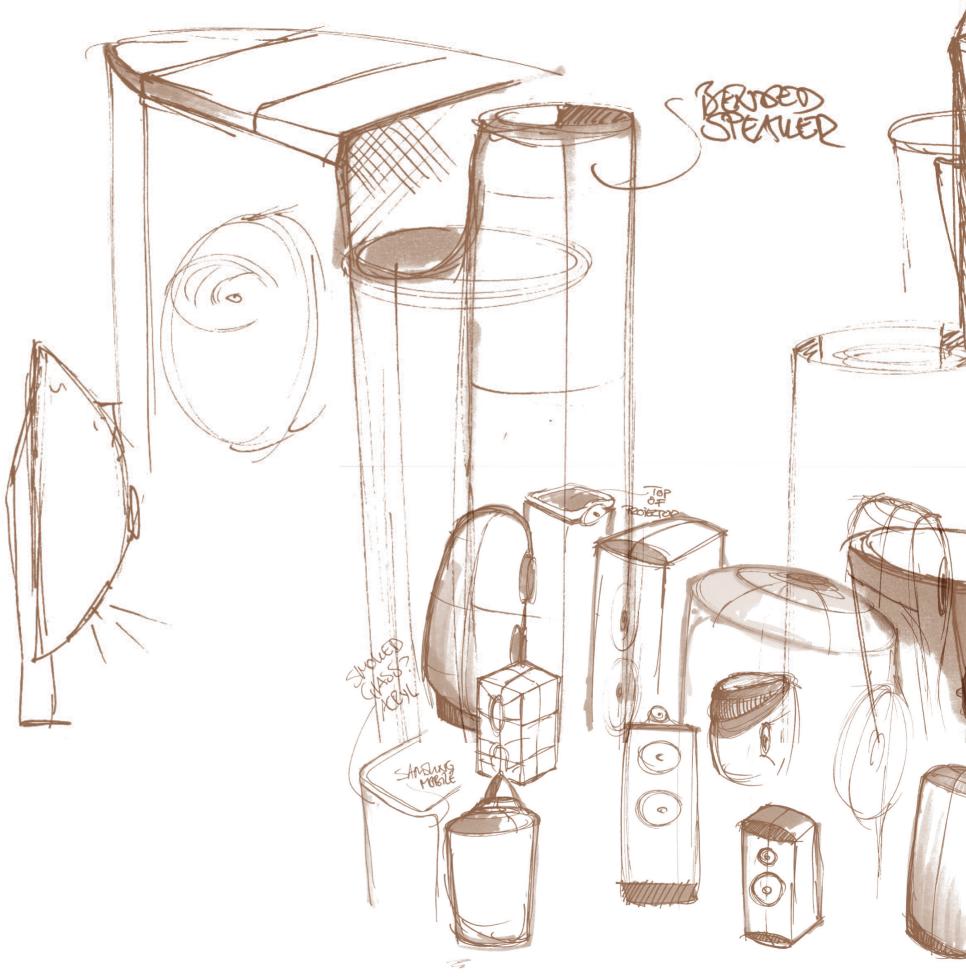
Malte is really proud of his design - and he should be, because that's the one we all chose as a group.

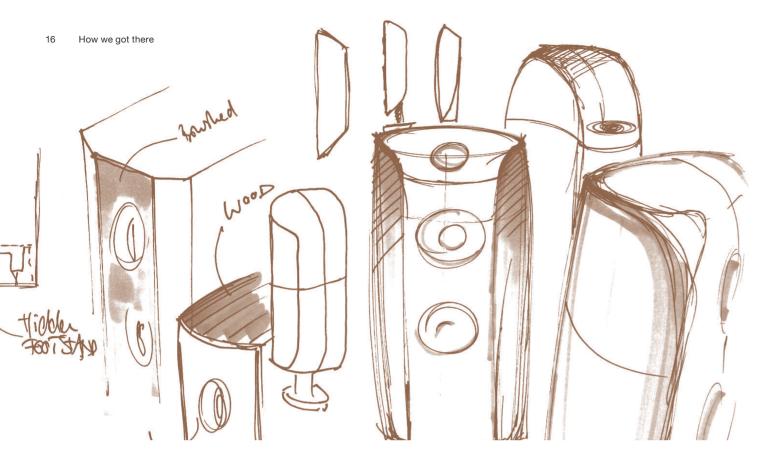
Michael Rohde Böwadt, our brave VP of product management, was the one who took the leash off. "We went very wide in the beginning," he says. "I told them to just make the best drivers in the world. The best cabinets in the world. To approach it all in a different way."

No pressure, then.

"It backfired a bit! But it was also very interesting. We got some very interesting results, provoked a lot of discussions. and were able to really zero in on what we wanted to do next."

One of the things that came out of those discussions was using different driver materials. Ultimately we decided to stick with our tried-and-true MSP - but we told Daniel, Andreas and Danny that we wanted it to sound even better. Their Eureka! moment came when they started varying the material's thickness across the diaphragm, because it means the whole cone is optimised for the frequencies it's been built to reproduce. And it works.





Michael insisted on keeping the metal baffle. It's part of the Contour's design heritage, after all, and there are some incredibly good acoustic reasons for keeping it. It's rigid, solid and extremely well-damped (which lets those fancy new MSP drivers do their thing as exactly they should).

But now it's made from aluminium instead of iron.

We decided on aluminium because we can shape it. You can see that from the drawings. It chamfer fits with the gently curved cabinet edge, and its milled shape gives a modern feel to the Contour's classic performance.

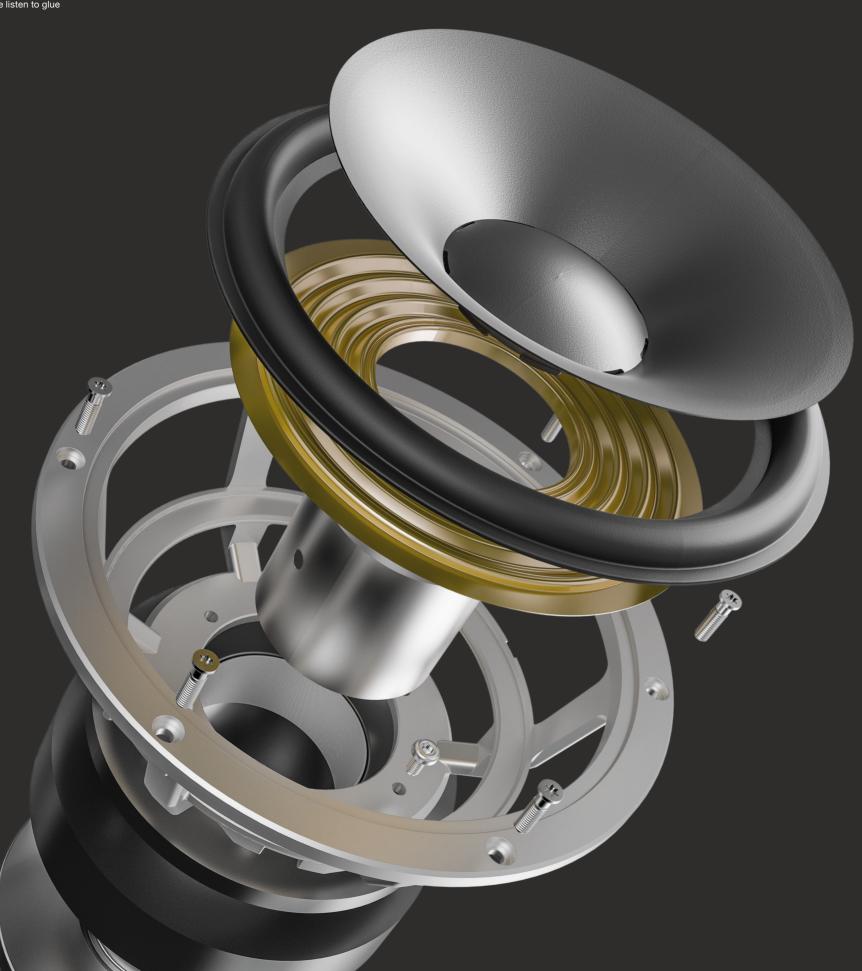
But it also meant we could bring other details to the party: the driver baskets themselves are chamfered, too. We love how they look, but they also help to reduce diffractions. Good job all round, then (we even went so far as to have more than one argument about whether the screws should be visible. The "yes" side won, and even our minimalist contingent had to agree that it was the right choice).

In developing the new drivers and crossover, we turned to Daniel Emonts and Mark Thorup. (Mark started here as an R&D engineer in 1983 and rose to the lofty heights of strategic product manager.) Between them they're the gurus of our design department. They know everything. We took their findings to our R&D team and psychoacoustics guys, said "aim this way", and they got to work.

When we design, we experiment. We talk. We play. We listen. We don't simply do what we did before, and we definitely don't try to make it easier for ourselves.

We got to where we are on the new Contour because we (and you) love the original. It's still there inside. But now, the legend can begin again...

When we design, we experiment. We talk. We play. We listen. We don't simply do what we did before, and we definitely don't try to make it easier for ourselves.



We listen to glue

"I know exactly what goes into this," says Daniel Emonts. He's our lead acoustic engineer, and the man behind our drivers. "I know all the materials and everything. But there's magic behind it too, when you hear the result."

Daniel should know. In our R&D department, they listen to everything. Everything. Even glue. "We decided to change the glue between the voice-coil and the cone. We thought it would take two or three months, but we ended up taking a year measuring, recording and listening," he says. "I think 80 per cent of us could tell the difference between the glues. And now that's going to be part of our R&D procedure. Listening to glue."



We all listen. That's how we make our speakers. Sure, we measure stuff; we have to. But the computers are just tools: there's so much more going on than just a frequency curve.

Contour has all new drivers. The only one we aren't changing is the Esotar² tweeter, which you can find on all our high-end speakers, and which – no matter how old it gets – is still a mighty tough act to follow. New drivers means new crossovers, which means new cabinets, which means every component affects every other component, which means...listening.

We make everything for the sound – not for the data.

There's nowhere to hide. This is a passive speaker – so there's no digital signal processing on board; no room correction. And that's where our 40 years of experience comes in: we use tricks with voice-coils to vary the points at which the speakers fire their sound. We're talking milliseconds – microseconds – of delay, which makes the sound beam upwards, directly to your ears. We're talking tiny diffractions, how the curve of the speaker edge affects the sound of the tweeter and how the edges of the cabinet affect the off-axis performance (so the sound is just as good off to the sides of the Contour as it is right in front).

And have you noticed how, top-down, the cabinet shape echoes the baffle of the previous model?

For the first time in Dynaudio's history, we're switching from rectangles to curves. But that isn't just because "it looks nice" (even though we think it really does). There are solid acoustic reasons behind everything we've done in the Contour – and everything else we build.

But while there are changes, we haven't veered from the path. We haven't deviated from the principles we've always held when designing great-sounding speakers. We test, we listen, we test some more. We take our prototypes home and we listen there, too. And we don't stop until we're happy with the sound.

And when we measure – we constantly check our work – sometimes the readouts look "wrong". But so what? The experience of sitting there is the only thing that matters.

What do Dynaudio speakers sound like? Nothing. They don't have a sound. All you'll hear is exactly what the artist intended.

It certainly gives our competitors something to do with their time. Ever tried reverse-engineering magic? It takes a while...

Invented in Denmark, perfected in Denmark. Why we always strive for truth in sound

Allan Kristiansen is one of the most expensive people at Dynaudio. He's been with us for 27 years – and during that time he's said "No" hundreds of times.

Every time Allan says "No", it costs us money. That's because it means a speaker cabinet has to go for another round of lacquering and polishing (which takes three weeks to finish). Or that a piece of cabling isn't mounted properly. Perhaps a missing screw. Allan sees everything.

But we don't mind.

We are proud of our work. Ask anyone here and you'll get the same answer.

We don't mind because every time Allan says "Yes", it means something perfect has left our factory.

"The key is not doing it in a hurry," he says. "Don't hurry. Make it correctly the first time."

We make the Contour in-house, you see. It's made in Denmark because external assembly plants might not have an Allan. From the furniture-grade cabinets (which go through 11 stages of lacquering and polishing before we set them free), to the drivers (which are made from magnesium silicate polymer – a material we developed ourselves), to testing, packaging and assembling up to 400 parts, it's all done at our headquarters in Skanderborg, Denmark.

We do everything in Denmark because that's how we've always done it since we started in 1977. Our founders knew the only way to produce a truly great loudspeaker was to oversee every part of the design and production themselves.

So, we developed our own driver technology - including our acclaimed coated soft-dome tweeters. We worked in secret (we were a bit mysterious back then) and developed our own manufacturing and testing methods. And we made thousands of prototypes. We did it so that the only things that leave our factory are perfect, honest, handcrafted speakers. Every time.

"We are proud of our work," Allan says. "Ask anyone here and you'll get the same answer. What we're producing here is going to go in someone's house; someone's car. They might have saved for several years, sometimes, to get it. So we all know it has to be perfect when we say Dynaudio is 'proud and pure', that's true. That's absolutely true."

We hope you love listening to our speakers as much as we loved making them for you.



What do Dynaudio speakers sound like? Nothing. They don't have a sound. All you'll hear is exactly what the artist intended.

DYNAUDIO

Dynaudio A/S 3660 Skanderborg

www.dynaudio.com

All text and image copyright reserved Subject to change without notice