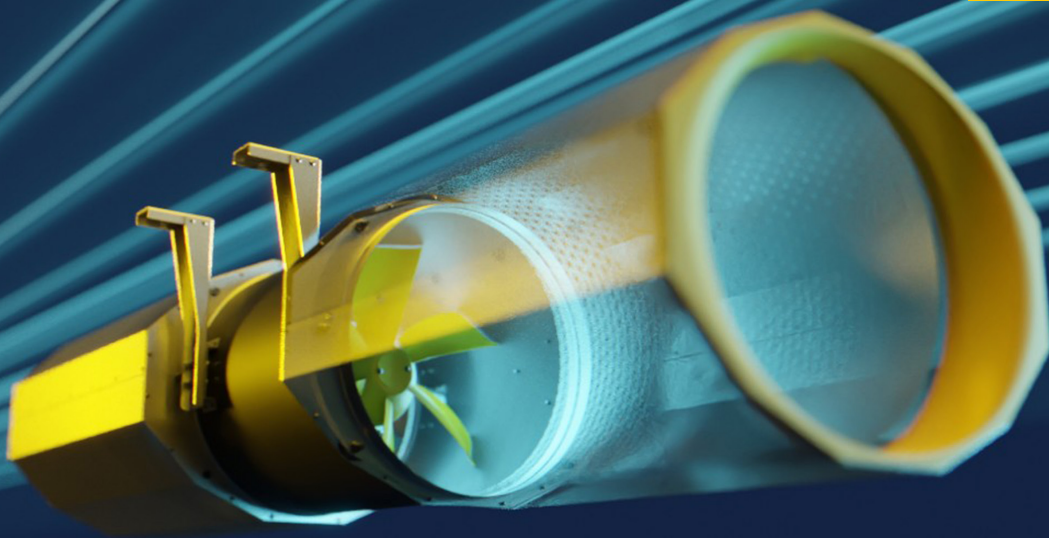




ruck

CAR PARK JETFANS

The new benchmark

WE SEARCH FOR THE BEST SOLUTION FOR YOU

ruck Ventilatoren GmbH is a family-owned company specialising in the development, production and distribution of high quality and innovative standard and customised OEM products in the field of ventilation and technology. Our products and ideas are transformed into efficient and cost-saving solutions.



RUCK VENTILATOREN GMBH

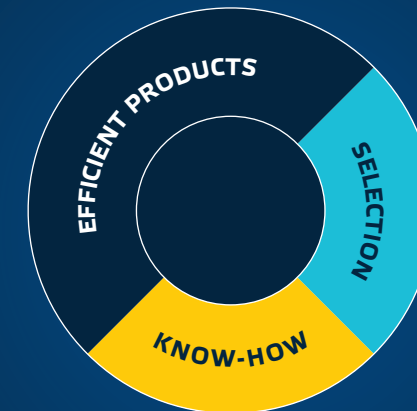
Founded in a garage in 1992, the company has built up a strong international reputation with numerous innovations.

- Locations: Germany, Romania, United Kingdom, United States
- Employees: 400
- 25 employees in development and construction
- Production area: 42,500 sqm
- Deep level of production: plastic injection molding, sheet metal processing, powder coating
- Delivery reliability due to large stock of components

THE RIGHT SOLUTION FOR EVERY APPLICATION

Innovative, efficient solutions

We use state-of-the-art development tools to optimize our products down to the smallest detail: efficiency and innovation are matters close to our hearts. A deep level of production guarantees fast implementation and high delivery reliability.



Know-how transfer

A fan must be appropriately selected, properly installed and intelligently operated to realize its full savings potential. We are happy to share our knowledge with you to help you achieve the best possible results.

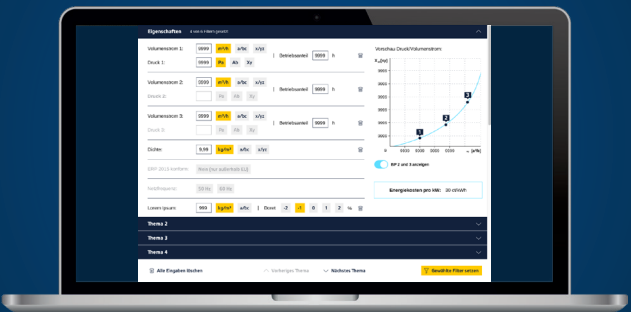
Pinpoint advice

With our MATCH-Point, you can find the best fan for your system in just a few minutes. All the important information for your decision, in particular the operation point data as well as the investment and operating costs, can be found here in unprecedented clarity.

MATCH MAKES IT EFFICIENT

INNOVATIVE TECHNOLOGY USED INTELLIGENTLY

Our MATCH-Principle takes into account all relevant components for the optimal use of a fan or air handling unit. When these are fulfilled - i.e. „matched“ - it will operate with the best possible results.



MATCH-POINT

The ultimate design tool with lots of new information for easy and cost-saving fan and air handling units selection.

MOTOR

Drives matched to requirements

The efficiency and cost of a fan depend to a large extent on the motor. It should meet the specific requirements in the best possible way. For this purpose, we offer a wide selection and mostly from stock.

AERODYNAMICS

Air flows optimized with attention to detail

Aerodynamically good fans and air handling units are characterized by the optimum interaction of all components. In extensive CFD simulations, we optimize our components down to the smallest detail to maximize the efficiency of our products.

TOOL

Good choice, good effect

A highly efficient technology only brings the desired values if it is used correctly. Our MATCH-Point helps you to find the optimal fan or air handling unit for your system.

CONTROL

Saving energy: A question of attitude

Fans are often designed for maximum demand, but this is only present for a few hours a year. The energy demand of a fan increases disproportionately in relation to the volume flow. Control based on actual demand offers the greatest potential for savings.

HANDLING

Right setting, full potential development

As a component of ventilation systems, inexpensive, professional installation leads to efficient operation with low pressure losses. With our products, we place great value on the most flexible and simple installation possible, as well as on problem-free maintenance.



FULFILLS ALL LEGAL REQUIREMENTS

Ventilation and fire protection of parking garages are mostly strictly regulated internationally by laws and standards. The fans of the Car Park Axial (CPA) series meet the relevant legal requirements and have the corresponding approvals.

THE SPECIALIST FOR CAR PARK VENTILATION

The CPA JetFans are our innovative solution for the efficient and cost-effective ventilation of parking garages. In regular operation, they reduce the concentration of pollutants and ensure smoke-free escape routes in case of fire.

Compared to duct systems, both installation effort and ongoing operating costs are significantly lower - with a noticeably greater effect at the same time.

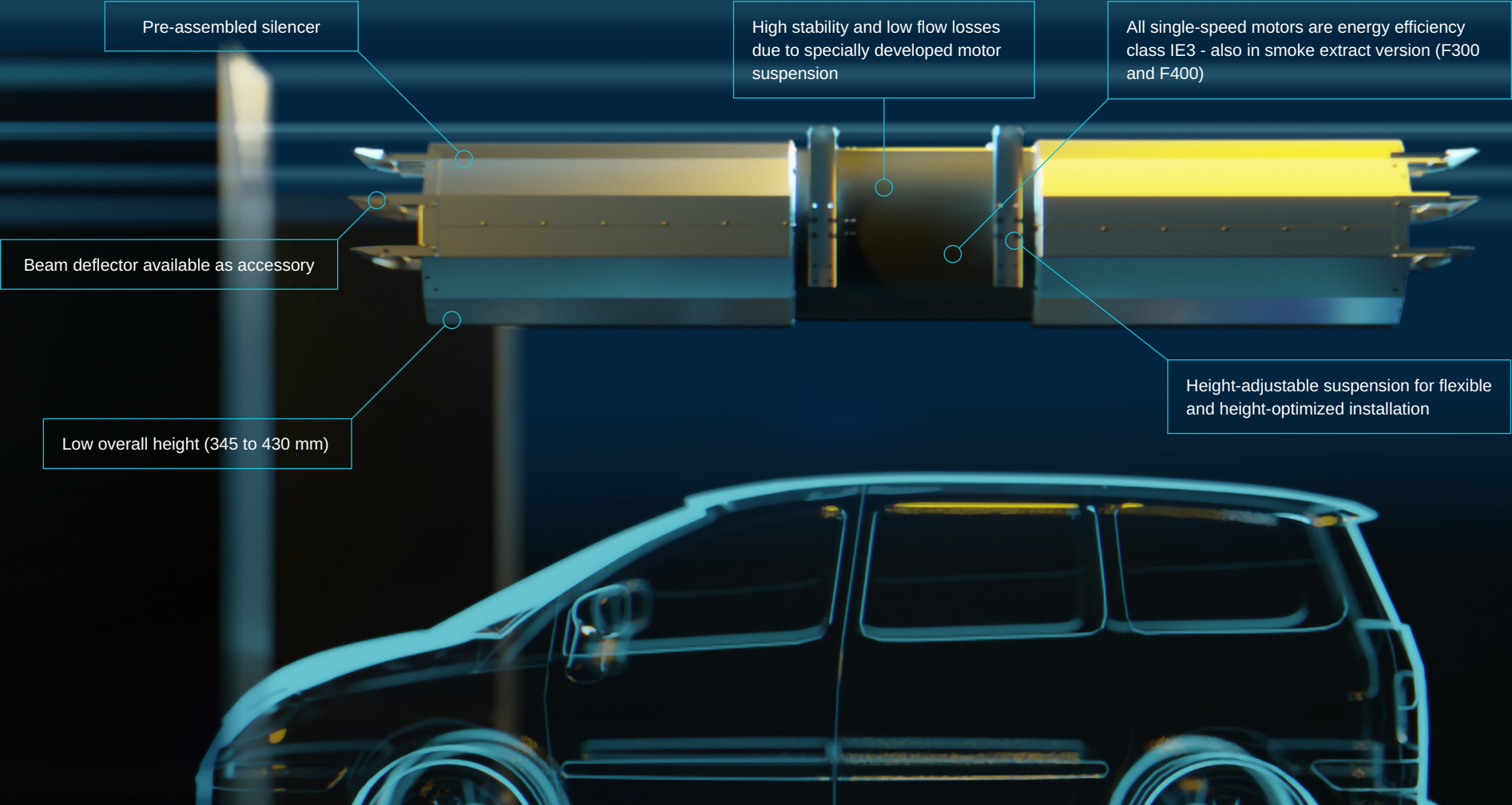
SUITABLE FOR YOUR NEEDS

Sizes	Ø 315, Ø 355, Ø 400
Versions	60 °C, F300, F400
Motors	2 p & 2/4 p
Motor power	1,1 up to 2,4 kW
Thrust	Up to 74 N

EFFICIENT, COMPACT AND EASY TO ASSEMBLE

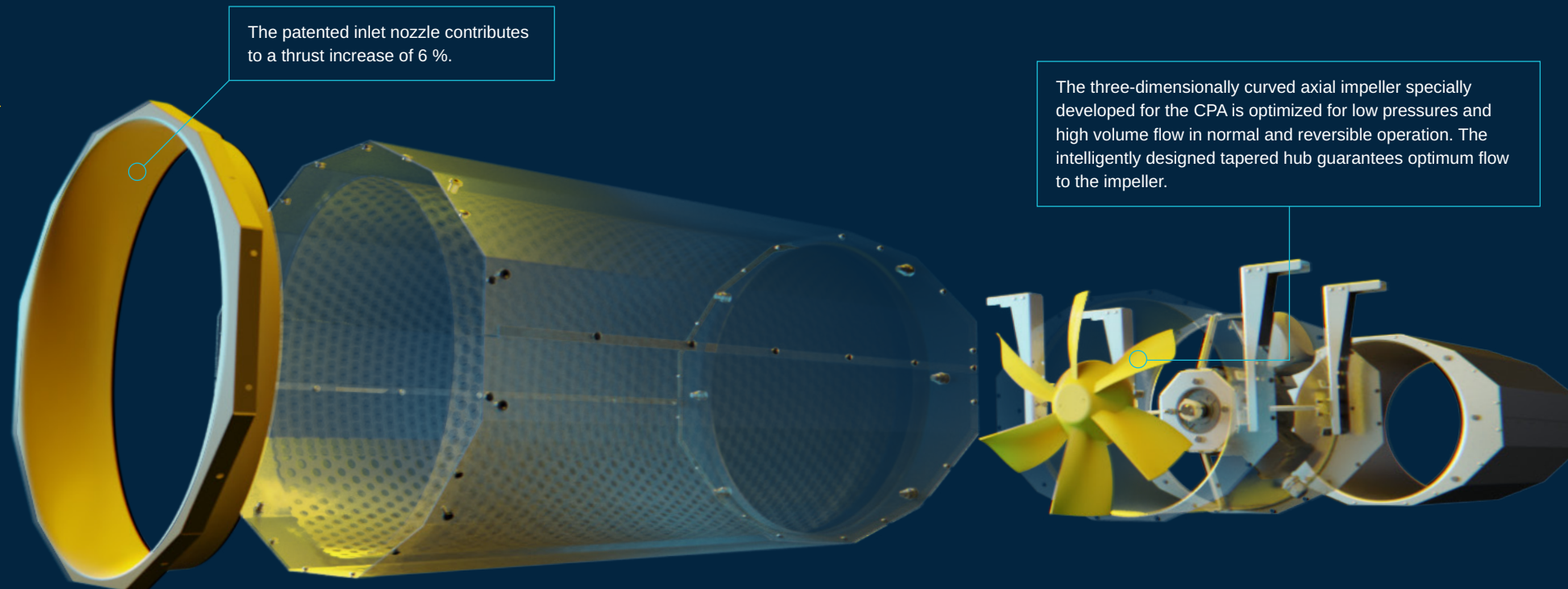
With its flat design and height-adjustable suspension, the CPA is optimally designed for difficult installation conditions in all parking garages.

WEIGHT OPTIMIZED, STABLE AND FLEXIBLE	
Silencer	Made of lightweight aluminum
Impeller	Made of coated steel, aerodynamically optimized
Engine suspension	Made of coated steel, aero-acoustically adapted
Ceiling suspension	Made of coated steel, height adjustable



REALLY GOOD IN EVERY DIRECTION

The optimization of all components is indispensable for the perfect aerodynamics of a fan. With the CPA, we set standards here - especially because we focused on the best aerodynamics in both directions during development and design and uncompromisingly matched all components to use in a JetFan. Even in reversible operation, the thrust is up to 98 % of the normal direction of rotation.



The patented inlet nozzle contributes to a thrust increase of 6 %.

The three-dimensionally curved axial impeller specially developed for the CPA is optimized for low pressures and high volume flow in normal and reversible operation. The intelligently designed tapered hub guarantees optimum flow to the impeller.



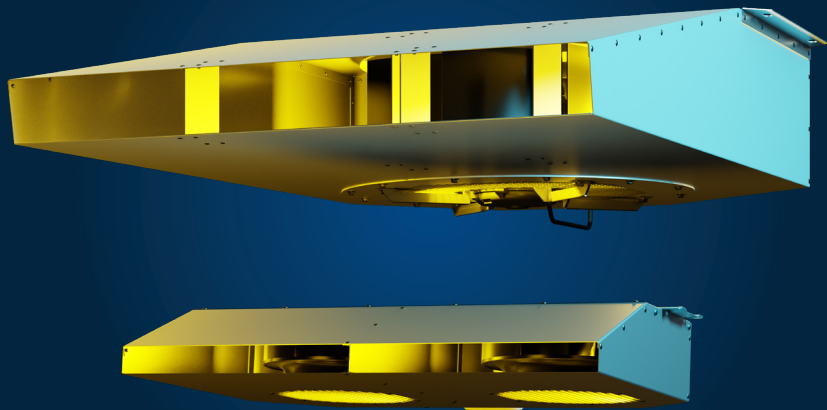
IT'S A MATCH!

THE TOP ARGUMENTS

- ✓ All single-speed motors in energy efficiency class IE3 are optimally utilized
- ✓ Fully reversible impeller with best performance values in both directions
- ✓ Best performance values for your system
- ✓ Easy integration into all common control concepts
- ✓ Impressive in complex installation situations due to low overall height, low weight and flexible suspension

CAR PARK CENTRIFUGAL FLAT AND POWERFUL

CPC with low installation height: Our solution for particularly space sensitive applications. The specially developed radial impeller and the compact, robust housing are perfectly matched.



HEIGHT-OPTIMISED, FLEXIBLE AND STRONG IN THRUST

Aerodynamics	CFD-optimized
Impeller	Radial, backward curved
Thrust	Up to 82 N
Smoke extract version	Classes F300 and F400
Sizes	Ø 250, Ø 500 and Ø 560

ALL DATA AT A GLANCE

Name	Item no.	Thrust Tc in N	Volume flow Qv in m³/h	Rated motor power in kW	Sound pressure level 3 m in dB(A)	Weight approx. in kg	Min. installation height in mm	Voltage in V
CPC 500 D4	159578	51	6529	1, 5	76	55, 5	273	400
CPC 500 D4 F3	159602	51	6529	1, 5	76	56, 0	273	400
CPC 500 D4 F4	159616	51	6529	1, 5	76	56, 0	273	400
CPC 500 D84	159622	50/12	6501/3219	1, 6/0, 4	76/61	55, 5	273	400
CPC 500 D84 F3	159632	50/12	6501/3219	1, 6/0, 4	76/61	56, 0	273	400
CPC 500 D84 F4	159636	50/12	6501/3219	1, 6/0, 4	76/61	56, 0	273	400
CPC 560 D4	157698	80	7917	2, 2	77	72, 5	302	400
CPC 560 D4 F3	159661	80	7917	2, 2	77	73, 0	302	400
CPC 560 D4 F4	159664	80	7917	2, 2	77	73, 0	302	400
CPC 560 D84	159672	81/20	7978/3990	2, 2/0, 5	77/61	71, 0	302	400
CPC 560 D84 F3	159687	81/20	7978/3990	2, 2/0, 5	77/61	71, 5	302	400
CPC 560 D84 F4	159691	81/20	7978/3990	2, 2/0, 5	77/61	71, 5	302	400
CPC 250 1xEC	166028	6, 5	973	0, 17	60	6, 5	122	230
CPC 250 2xEC	165818	12, 6	1915	2x 0, 17	62, 5	12, 5	122	230
CPC 250 3xEC	165985	19, 1	2889	3x 0, 17	62, 5	18, 0	122	230

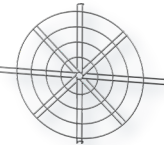
ALL DATA AT A GLANCE

Name	Item no.	Thrust Tc in N	Volume flow Qv in m³/h	Rated motor power in kW	Sound pressure level 3 m in dB(A)	Weight approx. in kg	Min. installation height in mm	Voltage in V
CPA 315 D2	159050	28	4801	1,1	65	33,5	346	230/400
CPA 315 D2 F3	159127	28	4801	1,1	65	35,0	346	230/400
CPA 315 D2 F4	159133	28	4801	1,1	65	35,0	346	230/400
CPA 315 D42	159078	29/7	4912/2401	1,1/0,25	64/47	31,5	346	400
CPA 315 D42 F3	159138	29/7	4912/2401	1,1/0,25	64/47	35,5	346	400
CPA 315 D42 F4	159166	29/7	4912/2401	1,1/0,25	64/47	35,5	346	400
CPA 355 D2 01	159060	49	7197	1,5	70	42,4	394	230/400
CPA 355 D2 F3	159106	49	7197	1,5	70	45,8	394	230/400
CPA 355 D2 F4	159111	49	7197	1,5	70	45,8	394	230/400
CPA 355 D42	159073	50/12	7049/3641	1,5/0,37	68/50	40,0	394	400
CPA 355 D42 F3	159118	50/12	7049/3641	1,5/0,37	68/50	44,3	394	400
CPA 355 D42 F4	159123	50/12	7049/3641	1,5/0,37	68/50	44,3	394	400
CPA 400 D2	159063	85	10743	2,2	73	48,0	431	230/400
CPA 400 D2 F3	159102	85	10743	2,2	73	52,0	431	230/400
CPA 400 D2 F4	159097	85	10743	2,2	73	52,0	431	230/400
CPA 400 D42	159068	87/22	10020/5502	2,2/0,5	87/22	46,0	431	400
CPA 400 D42 F3	159092	87/22	10020/5502	2,2/0,5	87/22	49,0	431	400
CPA 400 D42 F4	159086	87/22	10020/5502	2,2/0,5	87/22	49,0	431	400

ACCESSORIES



Beam deflection



Protection grille



Frequency converter



Isolator switch

OTHER PRODUCTS FOR THE UNDERGROUND GARAGE

AXIALLINE



- Smoke extract design in class F400
- 60 °C in continuous operation
- Speed controllable
- CFD optimized 3D impeller and stator blades
- Tapered hub for optimum flow to the impeller blades
- Exceeds the current ErP regulation by 15 - 20 %

DVN / DVNI



- Smoke extract version in classes F300 and F400
- Conveyed medium temperature up to 200 °C in continuous operation
- Speed controllable
- Motor outside airflow
- Swing-out fan unit
- Housing made of aluminium AIMg3

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