

- V2015 -

Schübeler HDS[®]-Series

perfect HDS[®]-Technology realised affordably

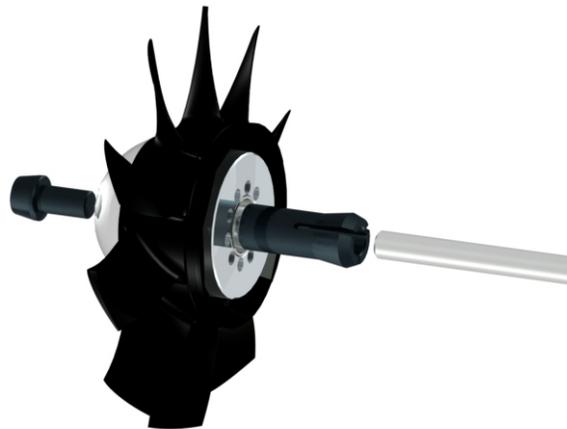
For us at Schübeler Composite the development of our ducted fans is not a project of limited duration until the initial delivery day. It is rather seen as a constant process of improvement and innovation. That is exactly why we are now able to present the latest technology in ducted fans. Our focus is mainly on efficiency, precision and durability.

The rotor assembly is lighter and remarkably shorter. Consequently, it runs more efficiently due to a higher smoothness, as bearing and shaft have to deal with considerably less mechanical load. The blades of the new fan which consist of a high-temperature resistant fibre-reinforced polymer work highly efficient, broadbandly and silently thanks to our CFD optimisation.

We achieve precision and stiffness due to our carbon fibre shroud. A high-precision collet chuck is clamping the rotor which results in an improved distribution of pressure in comparison to a locking screw. Another unique point is the possibility for fine-balancing by means of several free threads which are accessible without disassembly of the rotor. Optional mounting flanges (secure fan fix) are installed precisely guaranteeing interchangeability.

We attach greatest importance to the durability of our products and consider this aspect at every stage of our development process. The combination of CFRP, aluminum and injection moulding results in outstanding technical characteristics coupled with an excellent price-performance ratio. Failure safety of the rotor is ensured by the hub out of aircraft grade aluminum. Moreover, we refine and coat the surfaces and use special aviation glue for the joints as well as an additional screw joint. The stator consists of high-strength aircraft aluminum; that way we can provide a unique level of motor cooling.

If you decide for a ducted fan of the HDS[®] V2015 series you will receive an efficiently designed, precisely manufactured quality product aimed at long-term usability!



DS-30-AXI HDS[®] (69mm)

Max. RPM 55.000 U/min
Max. Power 1970 W
Max. Thrust: 27 N
Max. Exhaust Speed: 87,3 m/s
Weight: 55g
Max. Motor Diameter: 28 mm
Shaft Diameter: 4 mm g6

DS-51-AXI HDS[®] (90mm)

Max. RPM: 45,000
Max. Power: 4,270W
Max. Thrust: 55N
Max. Exhaust Speed: 95.6m/s
Weight: 114g
Max. Motor Diameter: 39mm
Shaft Diameter: 5mm g6

DS-86-AXI HDS[®] (120mm) (preliminary)

Max. RPM: 35,500
Max. Power: 7,500W
Max. Thrust: 101N
Max. Exhaust Speed: 99m/s
Weight: 290 g
Max. Motor Diameter: 56mm
Shaft Diameter: 8mm g6

Unit Conversion:

1N = 0.224lbs
1m/s = 2.23mph
1g = 0.035oz
1mm = 0.039in

