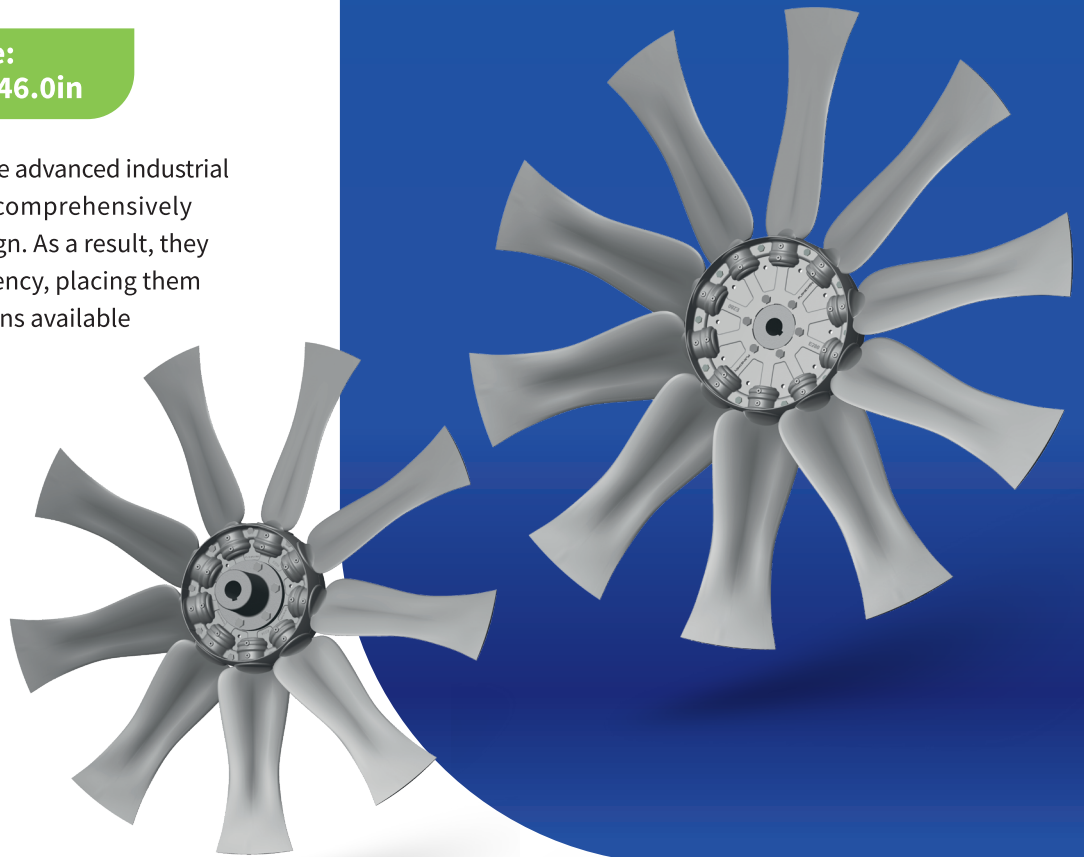


# Reversible Axial Fan Impellers

Impeller diameter range:  
Ø710–1168mm / Ø28.0–46.0in

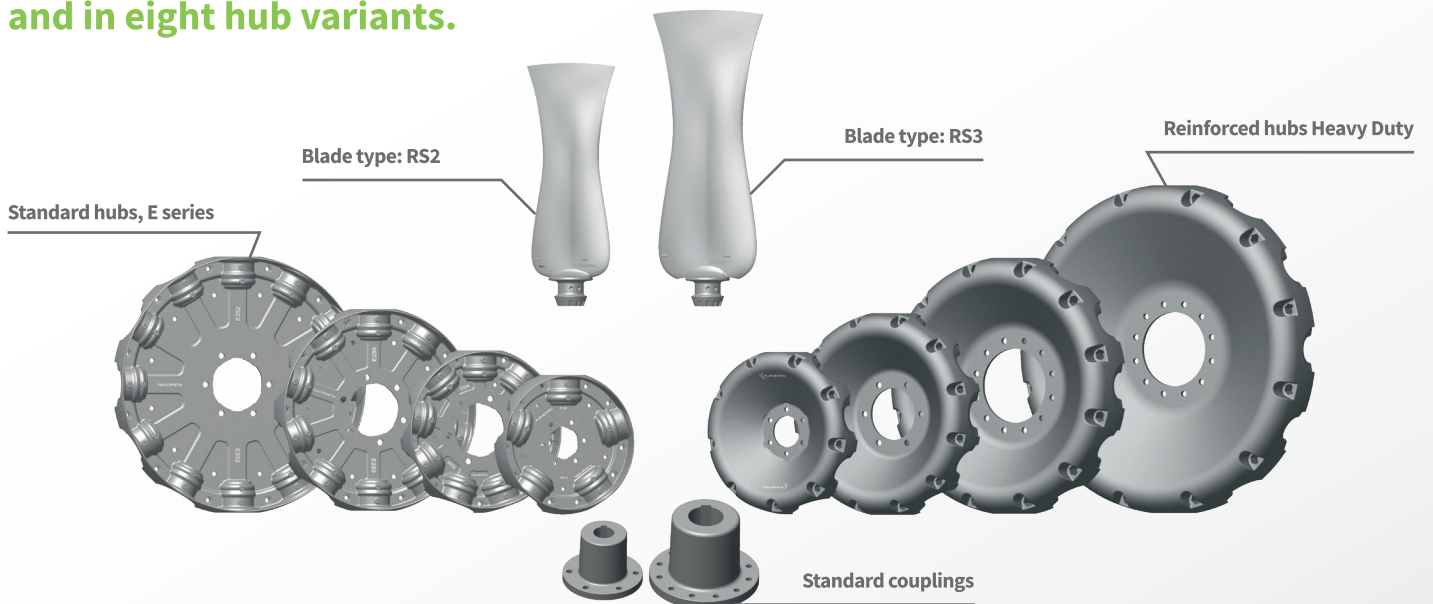
**Planetfan** reversible impellers are advanced industrial axial fan impellers featuring a comprehensively aerodynamically optimized design. As a result, they achieve exceptionally high efficiency, placing them among the most efficient solutions available on the market.

The refined mechanical design of the impeller, engineered to withstand loads and stresses, ensures high durability, reliable operation, and a long service life even under demanding operating conditions.



Reversible impellers are available in two blade sizes RS2 and RS3 and in eight hub variants.

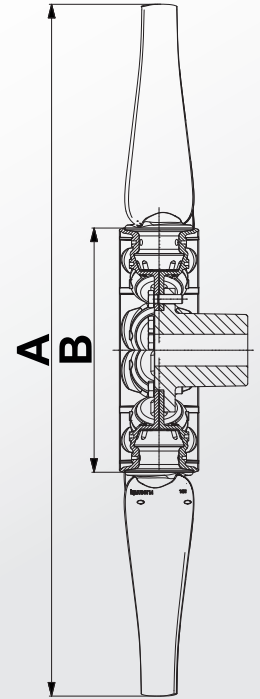
The **RS** designation defines the blade type, while the numbers **2** and **3** indicate the blade size.



Hubs are available in a standard industrial version (E series) as well as a reinforced (Heavy Duty) version. The standard design offers an optimal strength-to-weight ratio, while the Heavy Duty variant is engineered for operation under increased loads and in harsh environmental conditions.

## Impeller dimensions

Blade type	Hub type		Hub diameter <b>B</b>		Maximum number of blades	Maximum impeller diameter <b>A</b>	
	Serie E	Serie HD	[mm]	[in]		[mm]	[in]
<b>RS2</b>	E194/5	—	<b>194</b>	<b>7.63</b>	5	<b>770</b>	<b>30.3</b>
	E224/9	224/9	<b>224</b>	<b>8.81</b>	9	<b>800</b>	<b>31.49</b>
	E280/10	280/12	<b>280</b>	<b>11.02</b>	10/12	<b>856</b>	<b>33.7</b>
	E352/12	352/12	<b>352</b>	<b>13.85</b>	12	<b>928</b>	<b>36.5</b>
	—	448/12	<b>448</b>	<b>17.63</b>	12	<b>1024</b>	<b>40.31</b>
<b>RS3</b>	E194/5	—	<b>194</b>	<b>7.63</b>	5	<b>914</b>	<b>36</b>
	E224/9	224/9	<b>224</b>	<b>8.81</b>	9	<b>944</b>	<b>37.16</b>
	E280/10	280/12	<b>280</b>	<b>11.02</b>	10/12	<b>1000</b>	<b>39.37</b>
	E352/12	352/12	<b>352</b>	<b>13.85</b>	12	<b>1072</b>	<b>42.2</b>
	—	448/12	<b>448</b>	<b>17.63</b>	12	<b>1168</b>	<b>46</b>



## Materials

Blades and hubs of the reversible impellers are made of die-cast aluminum.

## Example impeller code

**WO800(E280)/10-5/RS2/L/37,5/Al/28H7/82/8/SW**

- |   |   |   |   |   |   |   |   |   |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

## Applications

Reversible fan impellers are used in wood drying kilns, industrial dryers, heat treatment chambers, cold storage facilities, HVAC systems, and technological installations where periodic reversal of airflow is required to ensure uniform operating conditions and high process efficiency.

## General

Planetfan impellers are the result of advanced engineering development combined with many years of research and prototype testing conducted in aerodynamic test tunnels. The aerodynamically optimized geometry delivers exceptionally high static efficiency, placing Planetfan products among the world's leading solutions available on the market.

## Key features of the impellers:

- Number of blades  
**3 | 4 | 5 | 6 | 9 | 10 | 12**
- Variable blade pitch, adjustment at standstill
- Standard pitch adjustment increment  
**1.5°**
- Blade pitch angle range  
**27° - 43.5°**
- Maximum blade tip speed  
**160 m/s (525 ft/s)**
- Operating temperature range  
**from -60°C to +245°C (from -76°F to +473°F)**

**IMPELLER ROTATION DIRECTION: REVERSIBLE, LEFT-HAND BLADES**

**HIGH IMPELLER EFFICIENCY RESULTS IN LOWER ELECTRICAL ENERGY CONSUMPTION.**

Planetfan reversible blades are a proprietary design developed to address the specific requirements of reversible operation as well as real operating conditions, applications, and installation environments.