

Borg Warner Airwerks Range

S200SX

220 - 580 BHP Turbo

Turbo pt no	Comp Wheel O.D. (mm)	Comp Wheel Inducer Dia. (mm)	Turbine Wheel O.D. (mm)	Turbine Wheel Exducer Dia (mm)	Turbine Housing A/R
177258	69.57	45.90	66.56	61.43	0.83
177267	69.57	49.56	66.56	61.43	1.09
177257	69.57	50.72	66.56	61.43	0.83
177268	76.20	55.80	66.56	61.43	1.22
178034*	76.20	55.80	66.56	61.43	1.22
178042*	76.20	55.80	66.56	61.43	1.27

4" Comp Inlet *

Part no	A/R	Turbine Housing Inlet configuration		Notes
177191	0.83	Twinscroll	T4 Bolt Pattern T3 Volute Opening	70mm Turbine Wheel
177193	1.00	Twinscroll	T4 Bolt Pattern T3 Volute Opening	
177196	1.09	Twinscroll	T4 Bolt Pattern T3 Volute Opening	
177192	1.15	Twinscroll	T4 Bolt Pattern T3 Volute Opening	
177194	1.22	Twinscroll	T4 Bolt Pattern T3 Volute Opening	
178331	1.27	Twinscroll	T4 Bolt Pattern T3 Volute Opening	

- Twin hydrodynamic journal bearings
- Extended tip technology compressor wheel
- Twin scroll turbine housing
- Adjustable compressor and turbine housing orientation

S200 SX-E

300 – 650 BHP Turbo

Supercore pt no	Comp Wheel O.D. (mm)	Comp Wheel Inducer Dia. (mm)	Turbine Wheel O.D. (mm)	Turbine Wheel Exducer Dia (mm)
12709095019	69.60	45.90	52.17	61.43
12769095003	76.20	49.56	57.15	61.43

Part no	A/R	Turbine Housing Inlet configuration		Notes
177191	0.83	Twinscroll	T4 Bolt Pattern T3 Volute Opening	70mm Turbine Wheel
177193	1.00	Twinscroll	T4 Bolt Pattern T3 Volute Opening	
177196	1.09	Twinscroll	T4 Bolt Pattern T3 Volute Opening	
177192	1.15	Twinscroll	T4 Bolt Pattern T3 Volute Opening	
177194	1.22	Twinscroll	T4 Bolt Pattern T3 Volute Opening	
178331	1.27	Twinscroll	T4 Bolt Pattern T3 Volute Opening	

- Integrated speed sensor port
- Forged milled compressor wheel
- Pre-machined boost port
- Optimized compressor stage aerodynamics

Not included with turbo assemblies: Speed sensor, Turbine outlet V-Band, Drain port fitting

S300SX3

320 – 800 BHP Turbo

Turbo pt no	Comp Wheel O.D. (mm)	Comp Wheel Inducer Dia. (mm)	Turbine Wheel O.D. (mm)	Turbine Wheel Exducer Dia (mm)	Turbine Housing A/R
177281	91.44	66.11	79.76	73.37	0.88
177275	91.44	66.11	79.76	73.37	0.91
177272	83.47	60.03	76.20	67.56	0.91
177280	83.47	60.03	76.20	67.56	0.88
177283	87.37	62.99	76.20	67.56	0.88
177284	91.44	66.11	79.76	73.37	0.91

Part no	A/R	Turbine Housing Inlet configuration		Notes
177211	0.88	Open scroll	T4 Inlet	80mm Turbine Wheel
177208	0.91	Twinscroll		
179905	1.00	Twinscroll		
177210	0.88	Open scroll		76mm Turbine Wheel
177207	0.91	Twinscroll		
177209	1.00	Twinscroll		

- Twin hydrodynamic journal bearings
- Extended tip technology compressor wheel
- Twin scroll turbine housing options available
- Adjustable compressor and turbine housing orientation
- Compressor cover recirculation grooves

S300SXE

320-1000 BHP Turbo

Turbo pt no	Comp Wheel O.D. (mm)	Comp Wheel Inducer Dia. (mm)	Turbine Wheel O.D. (mm)	Turbine Wheel Exducer Dia (mm)
13009097056	83.47	61.44	76.20	67.56
13009097053	83.47	61.44	79.76	73.37
13009097006	87.37	62.99	76.20	67.56
13009097047	87.37	62.99	79.76	73.37
13009097008	87.37	64.47	76.20	67.56
13009097055	87.37	64.47	79.76	73.37
13009097049	91.44	66.11	79.76	73.37
13009097051	91.44	69.00	79.76	73.37
13009095091	91.00	72.00	79.76	73.37

Part no	A/R	Turbine Housing Inlet configuration		Notes
177211	0.88	Open scroll	T4 Inlet	80mm Turbine Wheel
177208	0.91	Twinscroll		
179905	1.00	Twinscroll		
177210	0.88	Open scroll		76mm Turbine Wheel
177207	0.91	Twinscroll		
177209	1.00	Twinscroll		

- 360 degree thrust bearing
- Integrated speed sensor port
- Forged milled compressor wheel
- Flexible compressor cover outlet options
- Pre-machined boost port
- Optimized compressor stage aerodynamics

Not included with turbo assemblies: Speed sensor, Turbine outlet V-Band, Drain port fitting

S400SX

400 – 1300 BHP Turbo

Turbo pt no	Comp Wheel O.D. (mm)	Comp Wheel Inducer Dia. (mm)	Turbine Wheel O.D. (mm)	Turbine Wheel Exducer Dia (mm)	Turbine Housing A/R	Supercore Pt No
178855	91.44	67.66	83.47	74.29	1.10	179352
14879880082	96.00	72.00	87.37	81.74	1.10	14009097006
179174	100.17	74.56			1.10	14009097001
179176	104.84	76.00			1.10	178781
179180	109.73	80.30			1.25	179179
179182	109.73	82.20			1.25	179184

Part no	A/R	Turbine Housing Inlet configuration		Notes
177102	0.90	Twinscroll	T4 Inlet	83mm Turbine Wheel
177103	1.00			
177104	1.10			
177105	1.25			
178787	0.90	Twinscroll	T4 Inlet	87mm Turbine Wheel
178788	1.00			
178789	1.10			
178790	1.25			

- Twin hydrodynamic journal bearings
- Extended Tip Technology Compressor Wheel
- Twin Scroll Turbine Housing
- Adjustable compressor and turbine housing orientation
- Standard turbine inlet and outlet connections
- Compressor cover recirculation grooves

S400SX-E

500-1200 BHP turbo

Turbo pt no	Comp Wheel O.D. (mm)	Comp Wheel Inducer Dia. (mm)	Turbine Wheel O.D. (mm)	Turbine Wheel Exducer Dia (mm)
140009097006	96.00	72.00	87.37	81.47
140009097014	100.00	76.00		
140009097013	100.00	76.00	95.70	88.05
140009097010	110.00	80.30		
140009097008	110.00	87.93		

Part no	A/R	Turbine Housing Inlet configuration		Notes
178787	0.90	Twinscroll	T4 Inlet	87mm Turbine Wheel
178788	1.00			
178789	1.10			
178790	1.25			
14961019007	1.15	Twinscroll	T6 Inlet	96mm Turbine Wheel
171698	1.32			
14961016101	1.45			
14961016100	1.58			

- Twin hydrodynamic journal bearings
- Extended Tip Technology Compressor Wheel
- Twin Scroll Turbine Housing
- Adjustable compressor and turbine housing orientation
- Standard turbine inlet and outlet connections
- Compressor cover recirculation grooves

S400SX3

500-1050 BHP Turbo

Turbo pt no	Comp Wheel O.D. (mm)	Comp Wheel Inducer Dia. (mm)	Turbine Wheel O.D. (mm)	Turbine Wheel Exducer Dia (mm)	Turbine Housing A/R	Cartridge Pt No
177248	100.17	71.08	83.47	74.29	1.10	177249
177101	100.17	74.56	83.47	74.29	1.10	176807

Part no	A/R	Inlet configuration		Notes
177102	0.90	Twinscroll	T4 Inlet	83mm Turbine Wheel
177103	1.00			
177104	1.10			
177105	1.25			

S400SX4

500-1250 BHP Turbo

Turbo pt no	Comp Wheel O.D. (mm)	Comp Wheel Inducer Dia. (mm)	Turbine Wheel O.D. (mm)	Turbine Wheel Exducer Dia (mm)	Turbine Housing A/R	Cartridge Pt No
171701	100.17	71.08	95.70	88.05	1.32	171699
171702	100.17	74.56	95.70	88.05	1.32	171703
176806	100.17	74.56	83.47	74.29	1.10	176807
177287	109.73	80.30	95.70	88.05	1.32	176654

Part no	A/R	Turbine Housing Inlet configuration		Notes
176809	0.90	Twinscroll	T6 Inlet	83mm Turbine Wheel For 176806 Only
176810	1.00			
176811	1.10			
176812	1.25			
14961019007	1.15	Twinscroll	T6 Inlet	96mm Turbine wheel For 171701, 171702 & 177287
171698	1.32			
14961016101	1.45			
14961016100	1.58			

S500SX 900 -1475 BHP Turbo

Turbo pt no	Comp Wheel O.D. (mm)	Comp Wheel Inducer Dia. (mm)	Turbine Wheel O.D. (mm)	Turbine Wheel Exducer Dia (mm)	Turbine Housing A/R	Supercore Pt No
179188	120.20	88.19	109.73	99.08	0.85	179186
179191	120.20	90.67	109.73	99.08	0.85	179190

Part no	A/R	Housing Inlet configuration Distance to Centre axis	Other Notes
179159	0.85	3.62"	Open scroll
179160	1.00	3.62"	
179161	1.15	4.25"	
178498	1.30	3.62"	Open scroll with ½" longer discharge
179162	1.45	4.25"	Open scroll
179478	1.15	3.62"	Twin scroll
179192	1.45	3.62"	
179193	1.60	3.62"	

S500SX-E 900 -1875 BHP Turbo

Turbo pt no	Comp Wheel O.D. (mm)	Comp Wheel Inducer Dia. (mm)	Turbine Wheel O.D. (mm)	Turbine Wheel Exducer Dia (mm)	Service kit Pt No
15009097001	120.00	87.93	109.73	99.08	173611
15009097002	120.00	93.80	109.73	99.08	173611

Part no	A/R	Distance to Centre axis	configuration
179159	0.85	3.62" T6	Open scroll
179160	1.00	3.62" T6	Open scroll
179161	1.15	4.25" T6	Open scroll
178498	1.30	3.62" T6	Open scroll + 1/2"
179162	1.45	4.25" T6	Open scroll
179478	1.15	3.62" T6	Twin scroll
179192	1.45	3.62" T6	Twin scroll
179193	1.60	3.62" T6	Twin scroll