
1846
H.CEGIELSKI-POZNAŃ S.A.
RADIAL AIR BLOWERS

The company H.CEGIELSKI-POZNAŃ S.A. was founded by Hipolit Cegielski in 1846.
The experience gained in the manufacture of air compressors, and then blowers since the sixties, allowed us to enter the group of manufacturers who help the environment.

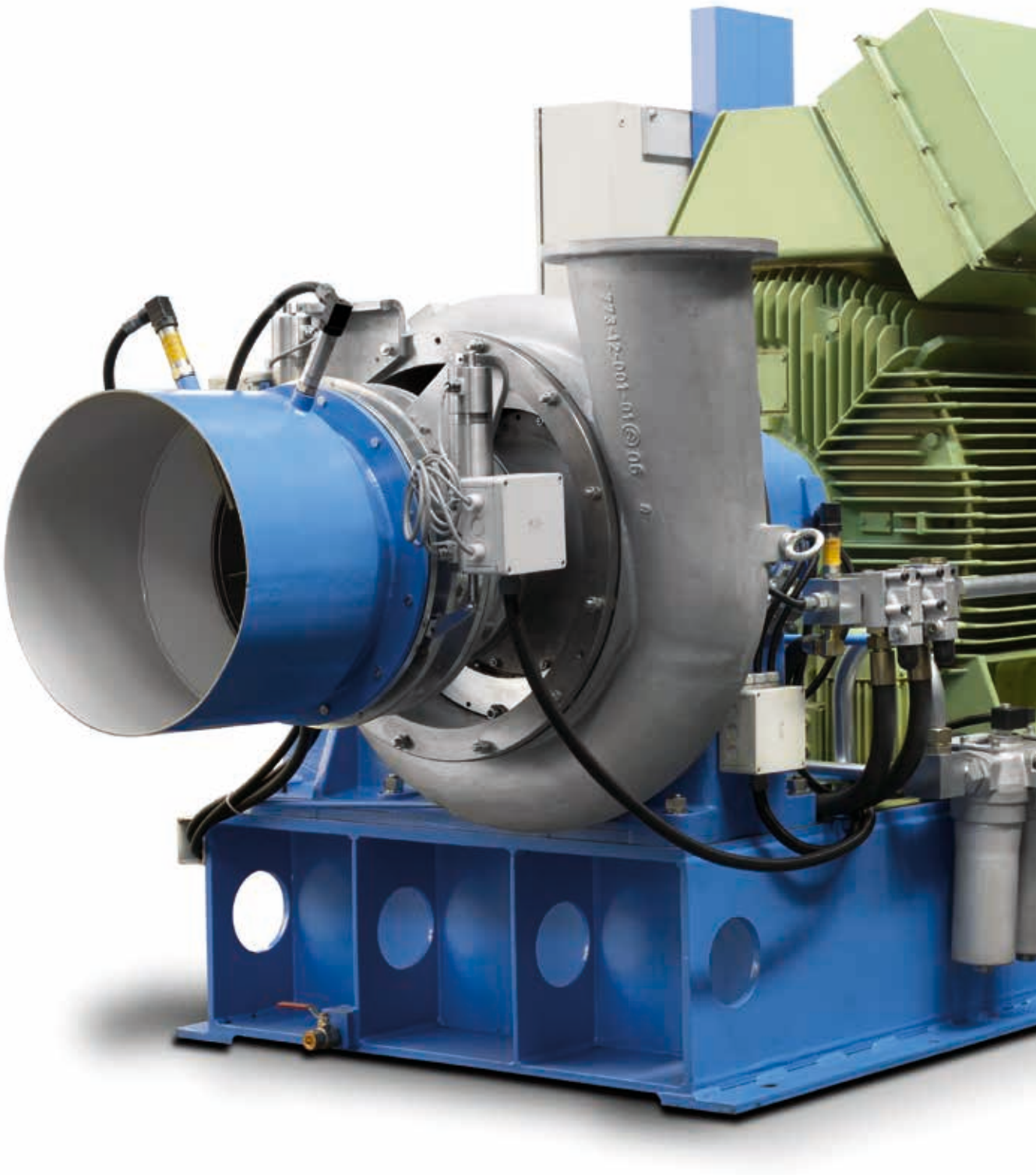
Since 1993, the radial air blowers manufactured by HCP SA get increasingly closer to the world's best products, and are used, for instance in sewage treatment, the power industry, chemical industry, textile industry, glass industry, paper industry, pharmaceutical industry, gas industry, refinery industry, mining, steel industry and anywhere where there is a need for technological devices that provide clean, oil free compressed air.

H.CEGIELSKI-POZNAŃ S.A. owns and supports an integrated System for Quality Management, Environment Management and OHS Management (ISO 9001, ISO 14001 and PN-N-18001).

H.CEGIELSKI-POZNAŃ S.A.

CHARACTERISTICS
OF DA TYPE RADIAL AIR BLOWERS

Our company is a recognised manufacturer of turbo blowers with high power efficiency. We apply a program of individual preparation of the product to the application required by the user.

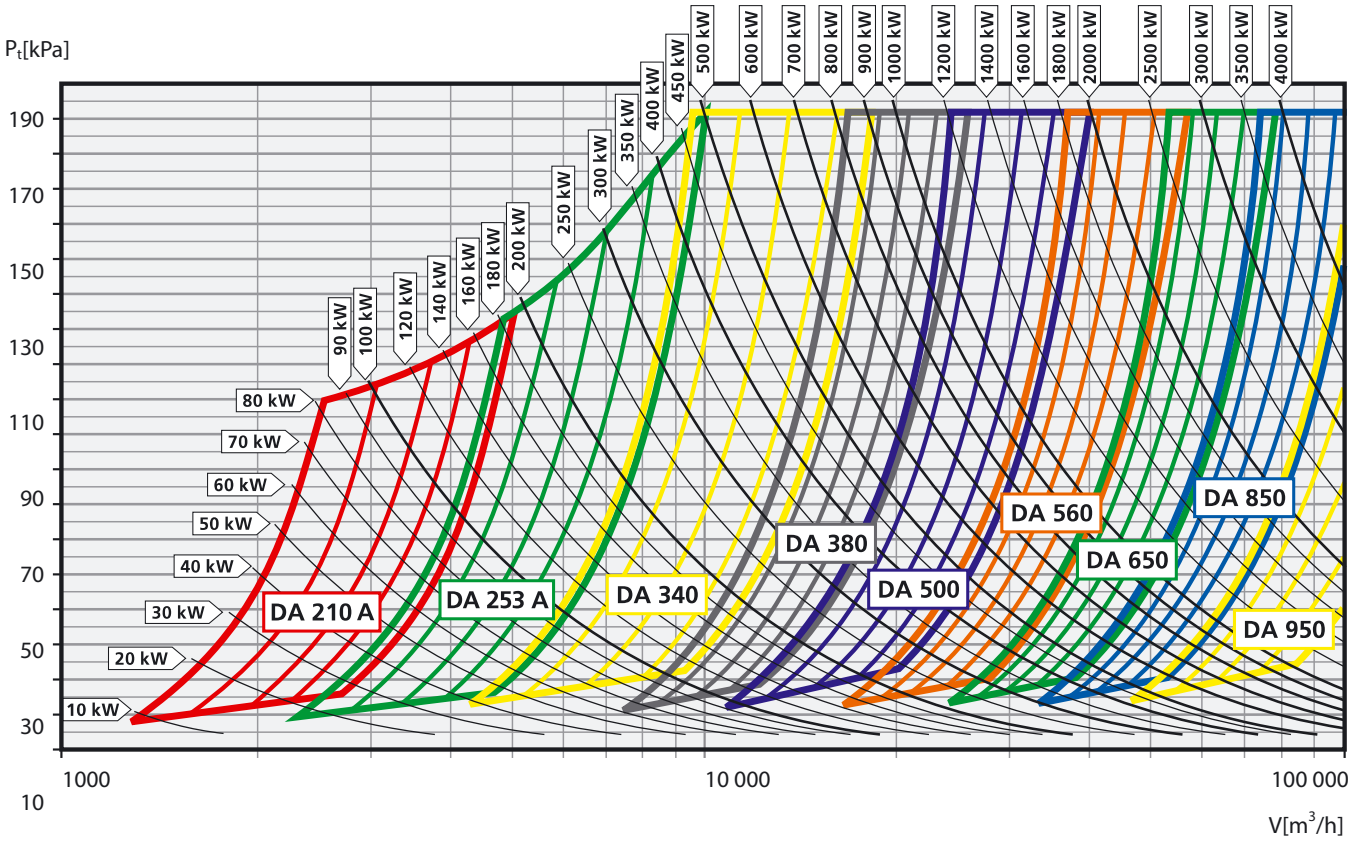


THE MAIN ADVANTAGES OF OUR DEVICES ARE:

- higher power efficiency in the regulation scope 100÷40% of the nominal capacity compared with Roots type blowers, multistage and single stage regulated only by changing the rotation speed,
- large facility in the adjustment connection possibilities for aeration systems due to the optimised construction of the blower collector,
- low noise level due to improved geometry of flow elements,
- optimised protection system that cooperate with the control system, allowing one to avoid potential emergency situations directly and instantly,
- automatic control of all working parameters and an intuitive system of regulating the blower's performance,
- a wide range of control assemblies based on the programmable controllers from top manufacturers: SIEMENS, SCHNEIDER, GENERAL ELECTRIC, LG.
- a possibility of choosing to control the blower or a set of blowers from the level of the object control room due to digital communication in a wide range of communication protocols,
- specialised service that secures the operation of units in the warranty period and after it is finished.

OPERATING SCOPE
OF DA TYPE RADIAL AIR BLOWERS

10 kW *labelling of the suggested electric motor power*



We send detailed data in response to specific quotations.

We adjust the capacity and the increase of blower pressure to the client's needs.

APPLICATION OF DA TYPE RADIAL AIR BLOWERS:

H.Cegielski-Poznań S.A. specializes in the design, manufacture and supply of high-capacity radial air blowers DA type.

Radial air blowers of HCP SA design can be used in many industries:

Energy / Petrochemical:

- Installations for gas and smoke treatment, e.g. desulphurisation,
- Fluidized bed boilers,
- Mechanical vapour recompression.

Mining:

- Metallurgy,
- Metal refining,
- Iron production.

Industry:

- Sewage Treatment,
- Effluent Treatment,
- Combustion processes,
- Mechanical vapour recompression
- Chemical Industry
- Fermentation processes,
- Pneumatic transport,
- Sugar industry
- Cement industry

Environmental Protection / Water

- Sewage Treatment

The radial air blowers are used for fine-bubble areation in medium and large sewage treatment plants.

CONTROL SYSTEM
OF DA TYPE RADIAL AIR BLOWERS

The control systems of radial air blowers of the DA type belong to the group of dispersed systems and thus can maintain independent operation in case the MASTER control system or computer in the object control room is damaged, thereby ensuring the continuity of the process in the compressed air technological line.

THE SLAVE CONTROL SYSTEM INSTALLED ON THE BLOWER UNIT IS RESPONSIBLE AMONG OTHERS, FOR EXECUTION OF THE FOLLOWING RANGE OF TASKS:

Protecting the blower against:

- drop of oil pressure below the allowed value,
- oil temperature increase above the allowed value,
- rotor shaft bearing temperature increase above the allowed value,
- exceeding the relative vibrations of the rotor shaft,
- exceeding the allowed pressure for the current location of the regulation devices,
- drop of the oil level below the allowed level.

Surge protection.

Controlling the blower in:

- preparing the blower for operation - the function of constant availability of the blower for quick start-up,
- start-up and shutdown of the blower and changing of capacity – at an order, from the MASTER assembly, or locally by the buttons on the board of the SLAVE control cabinet,
- changing capacity – at an order, from the MASTER assembly, or locally by the buttons on the board of the SLAVE control cabinet,

Controlling the blow-off at the pressure pipe.

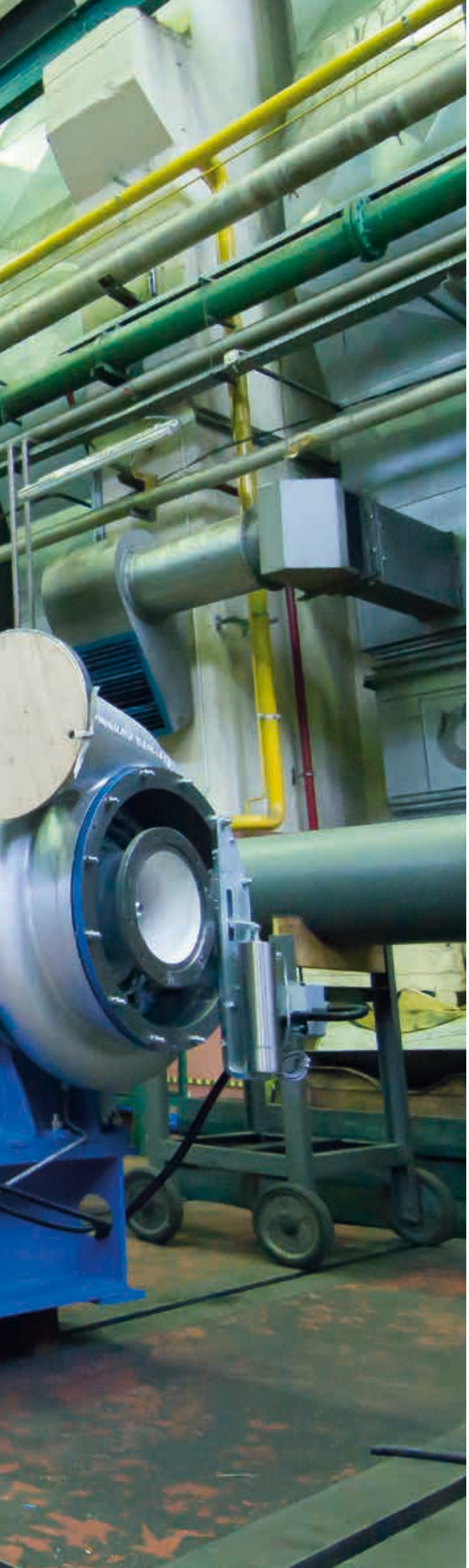
Measurement of the following parameters:

- oil pressure before the slide bearings,
- oil temperature before slide bearings,
- rotor shaft bearings temperature,
- relative vibrations of the rotor shaft,
- location of the regulation devices,
- compressed air pressure,
- active electrical power,
- vacuum pressure and air temperature at inlet.

THE MASTER CONTROL SYSTEM IS INSTALLED OUTSIDE THE BLOWER AS A UNIT THAT CONTROLS THE BLOWER ASSEMBLY RESPONSIBLE FOR EXECUTING THE FOLLOWING RANGE OF TASKS:

- controls the blower station capacity,
- controls the air distribution to, for instance, the separate activated sludge tanks via distribution throttles installed on the pressure pipeline,
- balances electric power consumption,
- balances the amount of transported air,
- protects against simultaneous start-up of all blowers,
- displays emergency and warning messages,
- maintains the operational balance of devices,
- performs other functions programmed at the user's request,
- communicates with the object control room.

SCOPE OF DELIVERY



AS STANDARD THE DELIVERY INCLUDES:

- The blower assembly

  blower, transmission, a full oil lubrication system, lubrication oil cooler – air or water, foundation frame, a set of amortisation pads, flexible coupling, main drive electric motor, control cabinet.

- An automatic control set of the blower operation

  a modern microprocessor control circuit with a set of sensors that control the operation parameters and ensure full supervision over all machine operation cycles, parameter visualisation and basic diagnostics.

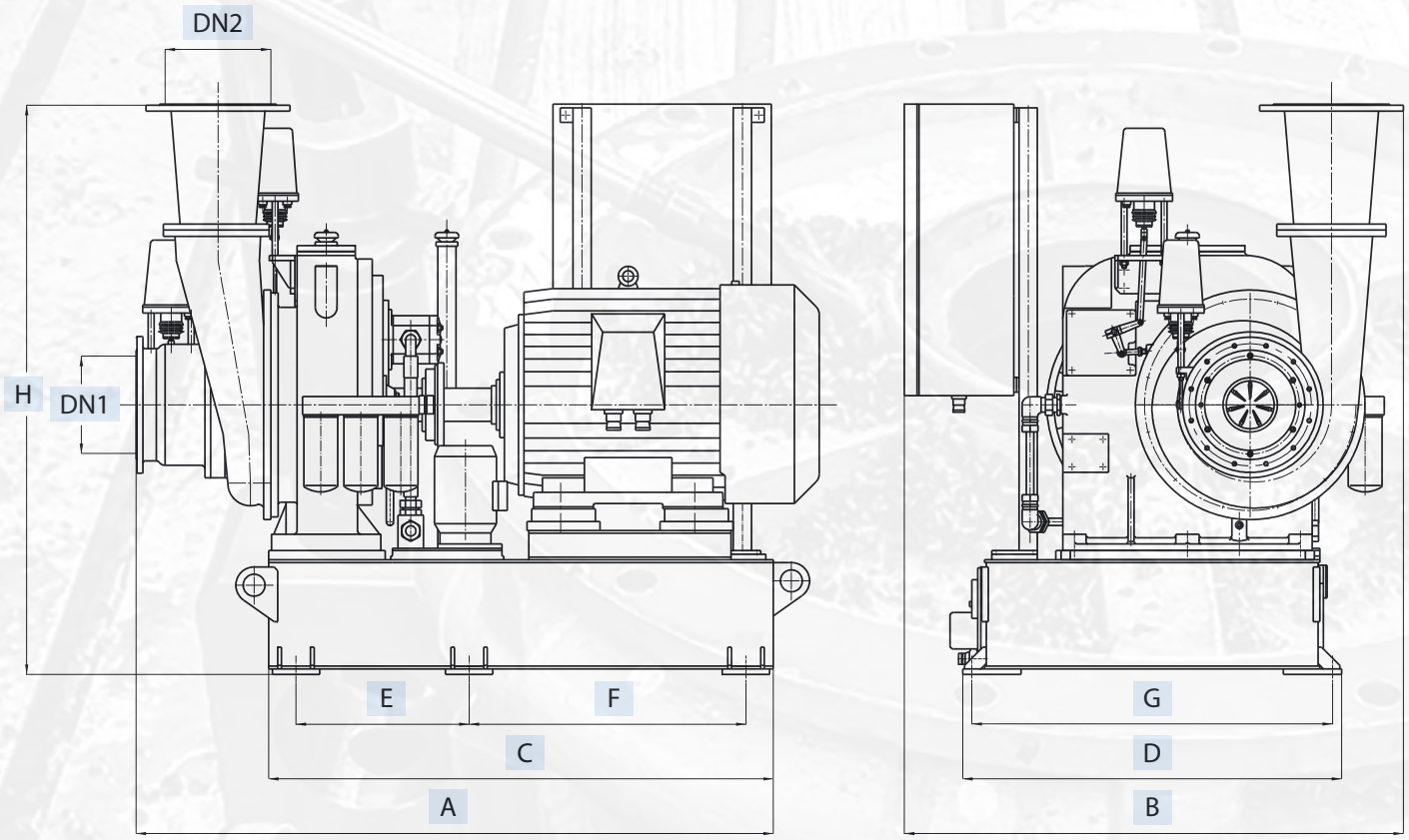
- Air installation gear

  a precise air filter with noise silencer at suction, an amortisation joint at pressure, a check valve, surge protection – blow-off with electromechanical drive, diffuser vane.

- Tools
- Operating and maintenance documentation
- Checking the assembly correctness
- Programming and starting up the control system

The standard scope of delivery can be expanded by a sound proof enclosure, a blow-off silencer, additional sensors and other parts which are expected by the client.

SERIES DIMENSIONS
OF DA TYPE RADIAL AIR BLOWERS



dimension	DA 210A	DA 253A	DA 340	DA 380	DA 500	DA 560	DA 650	DA 850	DA 950
A	1919	1880	2508	2508	3108	3400	3600	4000	4300
B	1410	1480	1702	1702	2003	2630	2650	2915	3160
C	1385	1385	1830	1830	2138	2500	2450	2865	3000
D	1040	1040	1360	1360	1400	1400	1650	1650	1650
E	475	475	730	730	979	1110	1135	1280	1350
F	760	760	930	930	979	1110	1135	1280	1350
G	990	990	1280	1280	1320	1320	1550	1550	1550
H	1541	1390	2040	2500	2550	3880	3380	3980	4500
DN1	300	350	450	550	600	500	950	1100	1400
DN2	250	250	350	450	500	700	800	1000	1200
weight* [kg]	2200	2300	4000	4800	5000	7100	11500	14500	16500

*The blower dimensions and weight may change depending on the electric motor size.

SAMPLE INSTALLATIONS
OF DA TYPE RADIAL AIR BLOWERS

DA type radial air blowers manufactured by H.CEGIELSKI-POZNAŃ S.A. have been used in sewage treatment plants for years, in Poland and abroad. The users confirm their high power saving characteristics and reliability of operation. Constant contact with the users is an invaluable source of information for systematically carrying out our research and development works. The result is the introduction of new, continually enhanced types of blowers into production.

Three blowers of DA 340 type
that work in Tarnów Sewage Treatment Plant;
pressure rise: 60 kPa
installed power: 600 kW

Three blowers of DA 253 type
that work in Suwałki Sewage Treatment Plant;
pressure rise: 60 kPa
installed power: 330 kW

Twelve blowers of DA 340 type
that work in Poznań Central Sewage Treatment Plant;
pressure rise: 65 kPa
installed power: 2400 kW

H.CEGIELSKI-POZNAŃ S.A.

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REFERENCE LIST OF BLOWERS TYPE DA

id	Type of blower	Capacity [m³/h]	Range of capacity [m³/h]	Discharge pressure [kPa]	Power of electric motor [kW]	Quantity	Delivery time	Installation
1.	DA253	5000	2200 - 5000	60	110	2	1992	Sewage Treatment Plant – Dąbrowa Górnicza – POLAND
2.	DA253	5000	2200 - 5000	60	110	1	1992	Sewage Treatment Plant – Siemianowice – POLAND
3.	DA253A	5000	2200 - 5000	60	110	3	1994	Sewage Treatment Plant – Suwałki – POLAND
4.	DA253A	4500	2200 - 4500	40	75	2	1994	Sewage Treatment Plant „Klimzowiec" – Chorzów – POLAND
5.	DA253A	5500	2500 - 5500	60	110	3	1995	Sewage Treatment Plant „Klimzowiec" – Chorzów – POLAND
6.	DA340	9500	5000 - 9500	60	200	3	1995	Sewage Treatment Plant – Tarnów – POLAND
7.	DA253A	5500	2500 - 5500	60	110	3	1995	Sewage Treatment Plant – Inowrocław – POLAND
8.	DA253A	5500	2500 - 5500	60	110	1	1995	Sewage Treatment Plant – Ełk – POLAND
9.	DA253A	5500	2500 - 5500	60	110	1	1995	Sewage Treatment Plant – Będzin – POLAND
10.	DA253A	5500	2500 - 5500	60	110	1	1996	Sewage Treatment Plant – Ełk – POLAND
11.	DA253A	5500	2500 - 5500	60	110	2	1996	Sewage Treatment Plant – Będzin – POLAND
12.	DA253A	5000	2500 - 5000	60	110	3	1996	Sewage Treatment Plant – Zawiercie – POLAND
13.	DA253A	5500	2500 - 5500	60	110	6	1996	Sewage Treatment Plant – Zabrze – POLAND
14.	DA253	5900	2800 - 5900	95	160	2	1996	Termal Electric Power Station – Wrocław – POLAND
15.	DA210	2200	1000 - 2200	60	45	1	1996	Sewage Treatment Plant – Ełk – POLAND
16.	DA210	3200	1500-3200	50	75	2	1996	Sewage Treatment Plant – Katowice-Panewniki – POLAND
17.	DA210	2200	1100 - 2200	60	75	1	1996	Sewage Treatment Plant – Inowrocław – POLAND
18.	DA500	19500	9500 - 19500	65	500	4	1996	Sewage Treatment Plant „Dębogórze" – Gdynia – POLAND

19.	DA253A	5500	2200-5500	60	110	2	1997	Sewage Treatment Plant – Chrzanów – POLAND
20.	DA210	3800	1900-3800	60	90	3	1997	Sewage Treatment Plant – Kętrzyn – POLAND
21.	DA210	3450	1550-3450	50	75	2	1997	Sewage Treatment Plant – Białogard – POLAND
22.	DA210	3500	1500-3500	70	90	4	1997	Sewage Treatment Plant – Sieradz – POLAND
23.	DA340	9000	4500-9000	60	200	4	1998	Sewage Treatment Plant ZAK S.A. – Kędzierzyn-Koźle – POLAND
24.	DA253A	4650	2300-4650	50	90	2	1998	Sewage Treatment Plant – Olkusz – POLAND
25.	DA210	4000	1750-4000	80	132	2	1998	Termal Electric Power Station – Wrocław – POLAND
26.	DA340	10000	4500-10000	65	200	12	1998	Sewage Treatment Plant – Poznań – Koziegłowy – POLAND
27.	DA253A	4500	2250-4500	60	90	2	1998	Sewage Treatment Plant – Zduńska Wola – POLAND
28.	DA253A	6000	2400-6000	60	130	6	1999	Sewage Treatment Plant – Jeongeub – KOREA
29.	DA210	2160	970-2160	60	45	3	1999	Sewage Treatment Plant – Goryung – KOREA
30.	DA340	9500	5000-9500	60	200	3	1999	Sewage Treatment Plant „RUPTAWA" – Jastrzębie Zdrój – POLAND
34.	DA210	3000	1350-3000	60	75	2	1999	Sewage Treatment Plant „Czerwone Stogi" – Malbork – POLAND
32.	DA253A	4500	2250-4500	60	90	1	1999	Sewage Treatment Plant – Zduńska Wola – POLAND
33.	DA253A	5000	2000-5000	60	110	2	1999	Sewage Treatment Plant – Biała Podlaska – POLAND
34.	DA560	26000	10400-26000	50	500	2	1999	Sewage Treatment Plant – PETROCHEMIA Płock – POLAND
35.	DA253A	6000	3000-6000	50	110	1	1999	Sewage Treatment Plant – Ostrołęka – POLAND
36.	DA560	36000	18000-36000	50	600	2	2000	Sewage Treatment Plant – Łódź – POLAND
37.	DA253A	4650	2200-4650	66	110	3	2000	Sewage Treatment Plant – Konin – POLAND
38.	DA210	3600	1620-3600	50	75	3	2000	Sewage Treatment Plant – Walsan – KOREA
39.	DA210	3840	1728-3840	50	75	2	2000	Sewage Treatment Plant – Walsan – KOREA

40.	DA210	1650	742-1650	80	55	2	2000	Sewage Treatment Plant – Walsan – KOREA
41.	DA210	1650	742-1650	80	55	2	2000	Sewage Treatment Plant – Walsan – KOREA
42.	DA253A	5620	2530-5620	60	110	3	2000	Sewage Treatment Plant – Lubin – POLAND
43.	DA253A	5500	2500-5500	60	110	3	2000	Sewage Treatment Plant – Łuków – POLAND
44.	DA253A	6000	3000-6000	50	110	1	2000	Sewage Treatment Plant – Ostrołęka – POLAND
45.	DA340	9000	4050-9000	80	230	2	2001	Sewage Treatment Plant – LG Philips – KOREA
46.	DA340	9000	4050-9000	90	250	3	2001	Sewage Treatment Plant – LG Philips – KOREA
47.	DA340	11400	5130-11400	65	250	6	2001	Sewage Treatment Plant – Cheonan – KOREA
48.	DA210	3000	1350-3000	60	75	3	2001	Sewage Treatment Plant – Yak-Mok – KOREA
49.	DA560	26000	10400-26000	50	500	2	2001	Sewage Treatment Plant – PKN ORLEN S.A. – Płock – POLAND
50.	DA210	2400	1080-2400	62	55	3	2001	Sewage Treatment Plant – Ansung – KOREA
51.	DA253A	7000	3500-7000	60	132	1	2001	Sewage Treatment Plant – Słonim – BELARUS
52.	DA253A	4800	2160-4800	60	110	2	2001	Sewage Treatment Plant – Sa-Cheon – KOREA
53.	DA210	3000	1350-3000	60	75	3	2002	Sewage Treatment Plant – Nonsan – KOREA
54.	DA500-2	25600	11520 - 25600	162	1200	3	2002	Flue Gas Desulfurization Plant for Units 7 & 9 in Bełchatów Power Station – POLAND
55.	DA210	2450	980-2450	60	55	2	2002	Sewage Treatment Plant – Yong-In - KOREA
56.	DA253A	6000	3000-6000	50	110	1	2002	Sewage Treatment Plant – Ostrołęka – POLAND
57.	DA340	9000	4050-9000	80	230	4	2002	Sewage Treatment Plant – LG Philips – KOREA
58.	DA340	9000	4050-9000	90	250	1	2002	Sewage Treatment Plant – LG Philips – KOREA
59.	DA340	9000	4050 - 9000	75	250	4	2002	Sewage Treatment Plant – Siping – CHINA
60.	DA210A	2620	1310-2620	60	55	2	2002	Sewage Treatment Plant – Gokseong - KOREA

61.	DA380	16260	7690-17088	68,7	350	3	2002	Sewage Treatment Plant – Kumjun – KOREA
62.	DA340	10800	4860-10800	63	210	4	2003	Sewage Treatment Plant – Yeosu – KOREA
63.	DA253A	6600	2970-6600	63	132	3	2003	Sewage Treatment Plant – Yeosu – KOREA
64.	DA253A	7000	3500-7000	60	132	1	2003	Sewage Treatment Plant – Słonim – BELARUS
65.	DA340	7500	3427-7615	58	160	3	2003	Sewage Treatment Plant – Gumi – KOREA
66.	DA210A	1800	818-1818	47	37	3	2003	Sewage Treatment Plant – Gapyeung – KOREA
67.	DA210A	4000	1800-4000	60	90	1	2003	Sewage Treatment Plant – Suwałki – POLAND
68.	DA253A	7200	3272-7270	60	150	3	2003	Sewage Treatment Plant – Donghae – KOREA
69.	DA340	9300	3427-9300	82	200	3	2003	Sewage Treatment Plant – Jingeon – KOREA
70.	DA210A	3600	1636-3635	55	75	2	2003	Sewage Treatment Plant – Gongju – KOREA
71.	DA253A	7200	3272-7270	60	150	2	2003	Sewage Treatment Plant – Unyang – KOREA
72.	DA253A	6600	3272-6600	60	150	3	2003	Sewage Treatment Plant – Unyang – KOREA
73.	DA340	12000	3427-12000	75	290	8	2003	Sewage Treatment Plant – LG Philips – KOREA
74.	DA253A	7000	3534-7068	70	160	1	2003	Sewage Treatment Plant – Lida – BELARUS
75.	DA210A	3000	1371-3046	55	75	3	2004	Sewage Treatment Plant – Whado – KOREA
76.	DA210	3000	1371-3046	115	90	2	2004	Sewage Treatment Plant – Pocheon – KOREA
77.	DA210	2400	1080-2400	60	55	1	2004	Sewage Treatment Plant – Yong-in – KOREA
78.	DA253A	5540	2500 - 5540	59	110	3	2004	Sewage Treatment Plant – Gugal –KOREA
79.	DA210A	3000	1371-3046	60	75	3	2004	Sewage Treatment Plant – Giheung –KOREA
80.	DA210A	3000	1371-3046	57	75	3	2004	Sewage Treatment Plant – Gumi –KOREA
81.	DA650	40400	16160-40400	65	800	3	2004	Sewage Treatment Plant – Minsk – BELARUS

82.	DA650	40400	20198-40396	52	700	2	2004	Sewage Treatment Plant – Lublin – POLAND
83.	DA340	9500	4318-9595	60	200	2	2004	Sewage Treatment Plant – Przemyśl – POLAND
84.	DA340	9000	4412-9804	84	250	2	2005	Sewage Treatment Plant – Paju 1 – KOREA
85.	DA560	36000	18000-36000	50	600	3	2005	Sewage Treatment Plant – Łódź – POLAND
86.	DA340	12000	5508-12240	83	320	4	2005	Sewage Treatment Plant – LG Philips P7 – KOREA
87.	DA340	9000	4412-9804	84	250	3	2005	Sewage Treatment Plant – Paju 2 – KOREA
88.	DA340	9500	4318-9595	60	200	1	2005	Sewage Treatment Plant – Przemyśl – POLAND
89.	DA340	9000	5017-10035	60	200	1	2005	Sewage Treatment Plant – Tarnów – POLAND
90.	DA253A	6600	2640-6600	60	150	2	2005	Sewage Treatment Plant – Jeonju – KOREA
91.	DA500	19200	8640 - 19200	70	500	1	2005	Sewage Treatment Plant – BASF – KOREA
92.	DA210A	3300	1484-3297	50	55	1	2005	Sewage Treatment Plant – Nowa Wieś Ełcka – POLAND
93.	DA500-2	25600	11586 - 25746	150	1100	3	2006	Flue Gas Desulfurization Plant for Units 3 & 4 in Bełchatów Power Station – POLAND
94.	DA340	9000	4412-9804	84	250	2	2006	Sewage Treatment Plant – Paju 3 – KOREA
95.	DA253A	7000	3181 - 7068	70	160	3	2006	Sewage Treatment Plant – Weifang – CHINA
96.	DA500-2	25600	11520 - 25600	150	1120	2	2006	Flue Gas Desulfurization Plant for Unit 8 in Bełchatów Power Station – POLAND
97.	DA253A	6600	2640-6600	60	150	1	2006	Sewage Treatment Plant – Kimcheon – KOREA
98.	DA500	22000	8818 - 22045	60	400	2	2006	Sewage Treatment Plant – Grodno – BELARUS
99.	DA253	15500	7750 - 15500	170	630	3	2006	Flue Gas Desulfurization Plant for Units 1-4 in Pątnów Power Station – POLAND
100.	DA340	11000	4500-11000	50	200	1	2007	Sewage Treatment Plant – Sosnowiec - POLAND
101.	DA340	10200	4635 - 10300	81	280	2	2007	Sewage Treatment Plant – Hakig – KOREA
102.	DA340	14400	6543 - 14541	118	530	3	2007	Sewage Treatment Plant – Hakig – KOREA
103.	DA210A	3120	1417 - 3149	65	75	2	2007	Sewage Treatment Plant – Changwon - KOREA

104. DA253A	7000	2853 - 7132	92	200	1	2007	Sewage Treatment Plant – Khanty-Mansiysk – RUSSIA
105. DA210A	2400	1091 - 2423	60	55	2	2007	Sewage Treatment Plant – Samcheonpo – KOREA
106. DA210A	3600	1636 - 3635	60	75	2	2007	Sewage Treatment Plant – Sacheon – KOREA
107. DA500-2	25600	11520 - 25600	150	1120	1	2007	Flue Gas Desulfurization Plant for Unit 10 in Bełchatów Power Station – POLAND
108. DA500-2	25600	11520 - 25600	150	1120	1	2007	Flue Gas Desulfurization Plant for Unit 11 in Bełchatów Power Station – POLAND
109. DA340	13800	6272 - 13937	55	250	4	2007	Sewage Treatment Plant – Gunsan – KOREA
110. DA560	32000	15800-32000	70	710	3	2007	Power Station – Łagisza – POLAND
111. DA340	12000	6058 - 12117	58	200	1	2008	Sewage Treatment Plant – Lida – BELARUS
112. DA250-2	5100	2279 - 5066	163	250	3	2008	Flue Gas Desulfurization Plant for Units 3 and 4 in Jaworzno III Power Station – POLAND
113. DA650	40400	14100-40400	54	700	3	2008	Sewage Treatment Plant – Lublin – POLAND
114. DA500-2	31170	12980 - 28844	175	1400	3	2008	Flue Gas Desulfurization Plant for Unit A1 in Bełchatów Power Station – POLAND
115. DA500-2	25600	11520 - 25600	150	1120	1	2008	Flue Gas Desulfurization Plant for Unit 12 in Bełchatów Power Station – POLAND
116. DA253A	7000	2853 - 7132	92	200	1	2008	Sewage Treatment Plant – Khanty-Mansiysk – RUSSIA
117. DA500	14000	5276 - 13190	30	160	1	2008	Philips Lighting Poland – Piła – POLAND
118. DA650	40400	16160 - 40400	65	800	1	2009	Sewage Treatment Plant – Minsk – BELARUS
119. DA253A	6000	2423 - 6059	60	110	1	2009	Sewage Treatment Plant – Oszmiany – BELARUS
120. DA253A	6300	2544 - 6360	50	110	1	2009	Sewage Treatment Plant – Ostrołęka – POLAND
121. DA340	11000	4500 - 11000	50	200	1	2009	Sewage Treatment Plant – Sosnowiec – POLAND
122. DA650	40400	16160 - 40400	65	800	1	2009	Sewage Treatment Plant – Minsk –BELARUS
123. DA650	40400	16160 - 40400	65	800	1	2010	Sewage Treatment Plant – Minsk – BELARUS

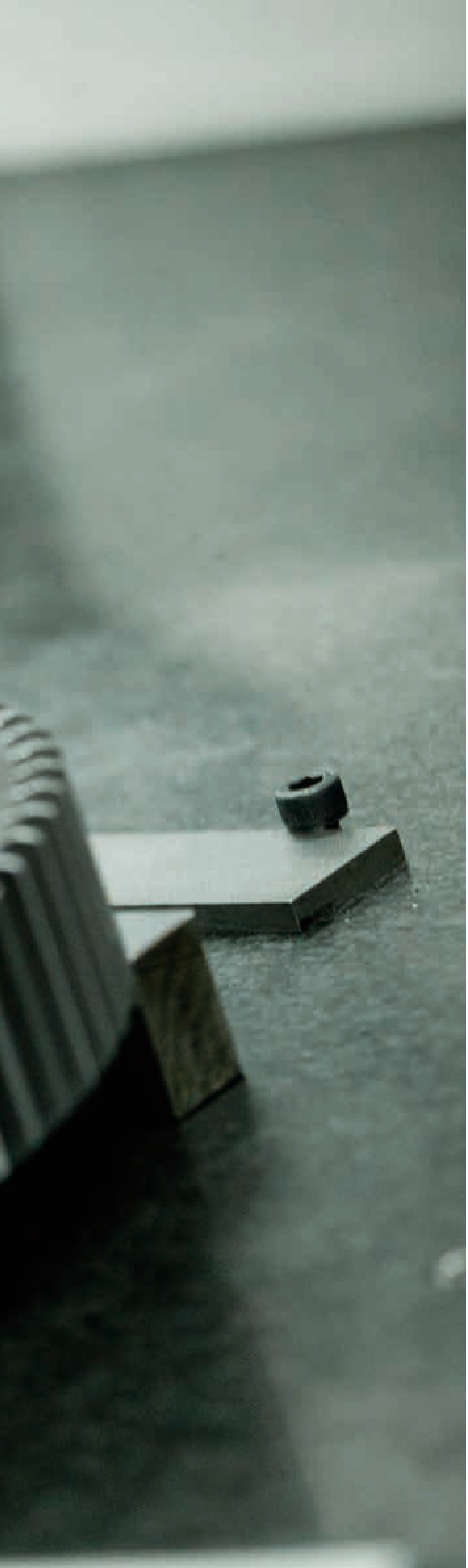
124. DA340	10100	4551 - 10113	60	200	2	2010	Sewage Treatment Plant – Siauliai – LITHUANIA
125. DA253B	5500	2766 - 5532	40	75	1	2011	Sewage Treatment Plant – Białystok – POLAND
126. DA500-2	33990	9478 - 31593	144	1400	2	2011	Flue Gas Desulfurization Plant for Unit 1 & 2 in Bełchatów Power Station – POLAND
127. DA500	18000	9090 - 18180	60	355	2	2011	Sewage Treatment Plant – Wologda – RUSSIA
128. DA253A	6400	2813 - 7043	52	132	1	2011	Sewage Treatment Plant – Panewniki – POLAND
129. DA650	40400	16160 - 40400	65	800	1	2011	Sewage Treatment Plant – Minsk – BELARUS
130. DA253A	7000	2871 - 7177	55	132	1	2011	Sewage Treatment Plant – Szymkient – KAZAKHSTAN
131. DA500	23000	9432 - 23581	55	450	1	2012	Sewage Treatment Plant – Szymkient – KAZAKHSTAN
132. DA560	30000	12303 - 30757	55	560	1	2012	Sewage Treatment Plant – Szymkient – KAZAKHSTAN
133. DA650	40400	16160 - 40400	65	800	1	2012	Sewage Treatment Plant – Minsk –BELARUS
134. DA380	16200	8103-16206	64	315	3	2012	Sewage Treatment Plant – Novocheboksarsk – RUSSIA
135. DA650	40400	16160 - 40400	65	800	2	2012	Sewage Treatment Plant – Minsk – BELARUS
136. DA500	18000	9090 - 18180	60	355	1	2012	Sewage Treatment Plant – Wologda – RUSSIA
137. DA560-2	38500	15400 - 38500	110	1250	1	2013	Cuprum Plant – Legnica – POLAND
138. DA850	65000	39000-71500	60	1000	1	2013	Sulphuric Acid Production Plant Precheza – Prerov – Czech Republic
139. DA253A	7000	2853 - 7132	92	200	1	2013	Sewage Treatment Plant – Khanty-Mansiysk – RUSSIA
140. DA650	40400	16160 - 40400	65	800	1	2013	Sewage Treatment Plant – Minsk – BELARUS
141. DA380-2	19000	8550-19000	162	800	1	2013	Flue Gas Desulfurization Plant for Unit 5 & 6 in Bełchatów Power Station – POLAND
142. DA210A	3800	1911-3822	95	110	1	2014	Sewage Treatment Plant – Pokachi – RUSSIA
143. DA253A	5600	2236-5621	65	110	2	2014	Sewage Treatment Plant – Kałdowo Wieś Malbork – POLAND
144. DA380	15000	6750-15000	72	350	1	2014	Sewage Treatment Plant – Jungryangcheon – KOREA

145. DA500	23700	10665-23700	70	530	3	2014	Sewage Treatment Plant – Jungryangcheon – KOREA
146. DA500-2	27000	12150-27000	112	900	2	2014	Sewage Treatment Plant – Jungryangcheon – KOREA
147. DA340-2	13500	6075-13500	125	170	5	2015	Sewage Treatment Plant – Busan Nambu – KOREA
148. DA340	8500	3825-8500	55	170	2	2015	Sewage Treatment Plant – Busan Nambu – KOREA
149. DA340-2	13500	6075-13500	120	510	3	2015	Sewage Treatment Plant – Busan Nambu – KOREA
150. DA500	15500	6975-15500	40	250	3	2015	Sewage Treatment Plant – Busan Nambu – KOREA
151. DA850	56600	25470-56600	55	1000	6	2015	Sewage Treatment Plant – Ashgabat – TURKMENISTAN
152. DA340	11200	5040-11200	96	350	5	2015	Sewage Treatment Plant – Anyang Bakdal – KOREA

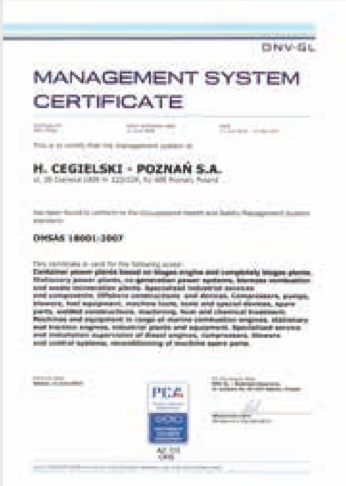
INTEGRATED
MANAGEMENT SYSTEM

H.CEGIELSKI-POZNAŃ S.A. has an Integrated Management System covering all key business areas of the company:
- ISO 9001 Quality Management System,
- ISO 14001 Environmental Management System,
- PN-N-18001 Occupation Health and Safety Management System.

The implementation of the Integrated Management System began with obtaining the ISO 9001 quality certificate, issued by two independent classification societes: Germanischer Lloyd and Polski Rejestr Statków, in June 1995. In 2000, the company obtained ISO 14001 Environmental Management System and PN-N-18001 OHS Management System certificates. H.CEGIELSKI-POZNAŃ S.A. is also OHSAS 18001-certified.




CERTYFIKAT
CERTIFICATE
H. CEGIELSKI - POZNAŃ S.A.
ISO 9001:2008
ISO 14001:2004
PN-N-18001:2004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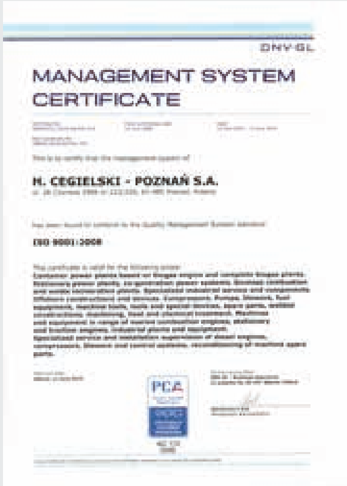
MANAGEMENT SYSTEM CERTIFICATE
H. CEGIELSKI - POZNAŃ S.A.
OHSAS 18001:2007


DNV·GL
MANAGEMENT SYSTEM CERTIFICATE
H. CEGIELSKI - POZNAŃ S.A.
ISO 9001:2008


GSI SLV
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H. Cegielski - Poznan S.A.
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H.CEGIELSKI-POZNAŃ S.A.

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