



Solutions for Air Cooled Condensers





Our philosophy

Solutions for an evolving industry

In the global marketplace, our customers, investors, partners value our products and services for two reasons: excellence and reliability. In Rossi S.p.A., a company of the Habasit Group, we have made of change a strategic lever for our growth. "Solutions for an evolving industry" fully expresses our corporate philosophy: we are a flexible and dynamic reality, able to satisfy all requirements of a continuously evolving industrial world thanks to our innovative solutions.

Cutting-edge manufacturing

When it comes to high-performance and ground precision gear manufacturing, technology and experience are everything. Cutting-edge technology without experience can limit the benefit the final product has for the end user which is why we continue to take pride of our work. Cutting-edge technology can be bought, but how you control it is earned through experience.

Specialized housing machining

High performance needs to be supported with important equipment and knowledge. For this reason, we dedicate special attention to machining all components, including housings for big sizes. High quality standard requirements can be reached using cutting-edge technology.

Test controls

Systematic, extensive controls on every stage of the process (from materials to final controls under load using computerized brakes at the end of the assembly line) and their productivity allow quality to be produced and not just achieved through selection, and permit monitoring and improving the process itself. In addition customers can trust our solutions which have been fully tested and run in our testing room, being operationally certified before on site commissioning.

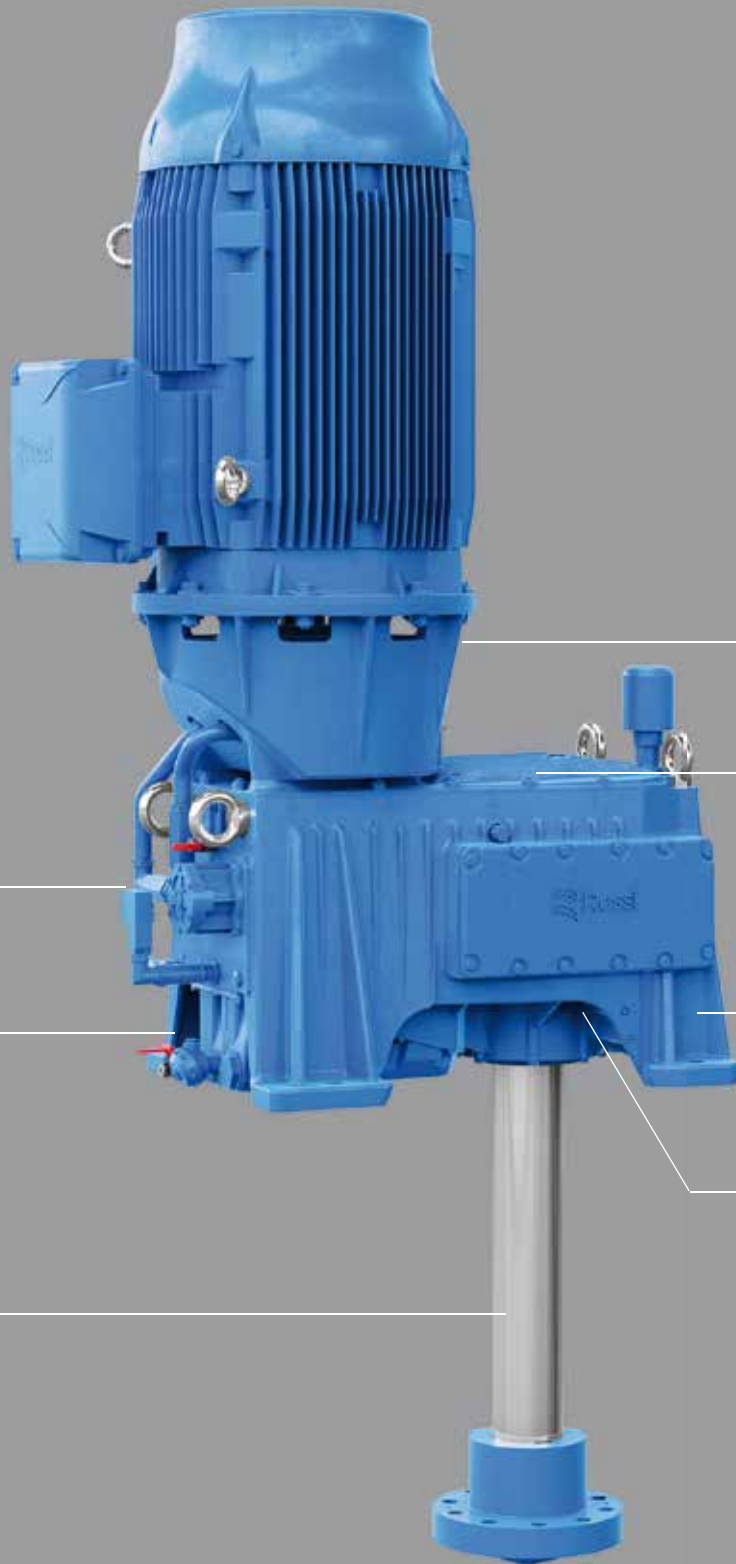
Dedicated gear units for Air Cooled Condensers

Main benefits:

- Helical gearboxes in vertical mounting position
- Sizes: 250, 280, 320 and 360
- High reliability, AGMA service factor > 2 according to CTI 167
- Long life, bearings calculated life time > 100 000 h according to CTI 167
- Electric motor bolted bell housing with axial fan and heat exchanger for gearbox cooling
- Integrated foot mounted housing
- Patented lubrication circuit: no pressure, with slave pump, reduced oil quantity, and all oil bathed bearings
- Possibility of bidirectional oil slave pump
- Possibility of cold starting from to -15 °C and oil temperature pre-heating
- Lower output bearing protected with dry well solutions

Main power generation applications:

- Biomass power plants
- Gas-fired power plants
- Waste incineration plants
- Oil-fired power plants



Bolted motor
bell housing with
provision for axial fan

Top cover with
air flow conveyor

Foot mounted single
piece housing with
cooling wings

External output
support integrated
in gearbox housing

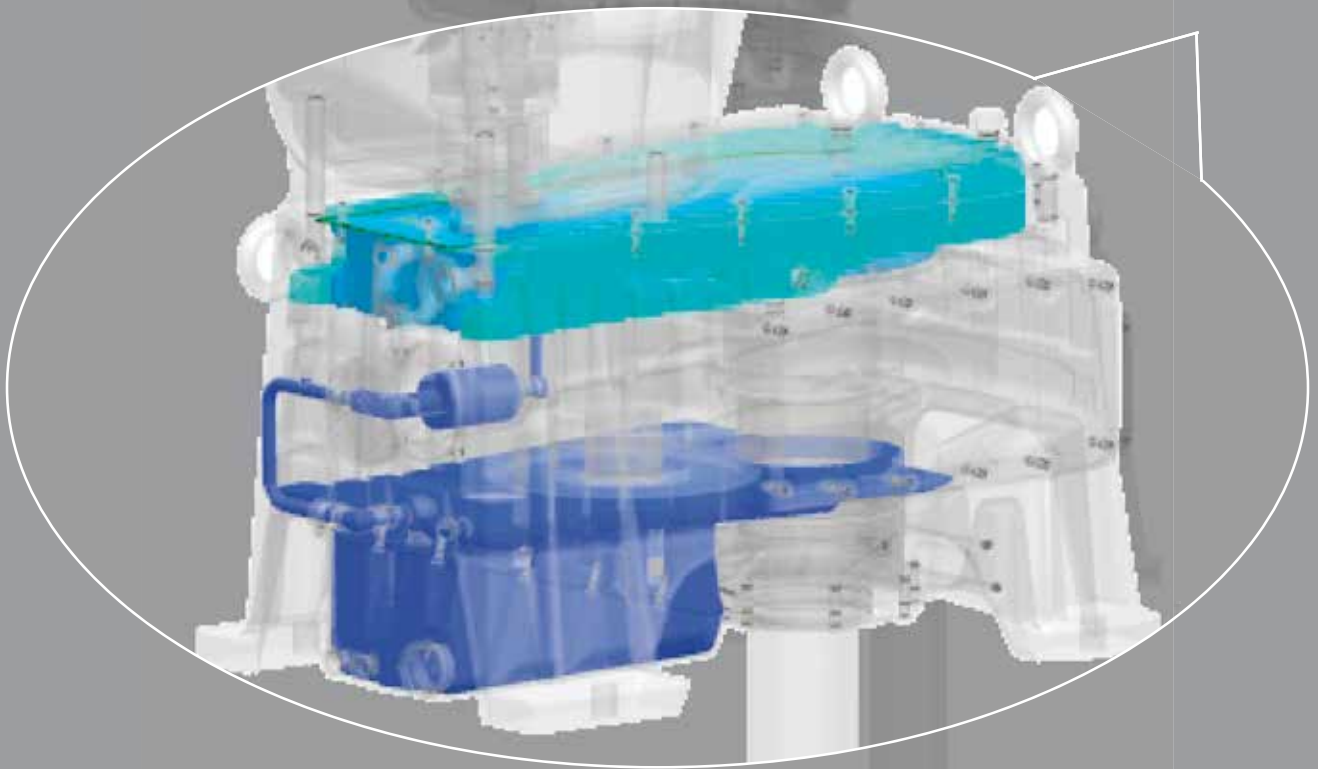
Integrated
lubrication circuit
with slave pump

Bottom oil tank
suitable for easy
pump maintenance

Special output shaft
length according
to customer
requirements

Patented lubrication circuit

Pressure free lubrication system.
Two oil sumps always grant
perfect bearing lubrication in
any condition (even with low oil
temperature).



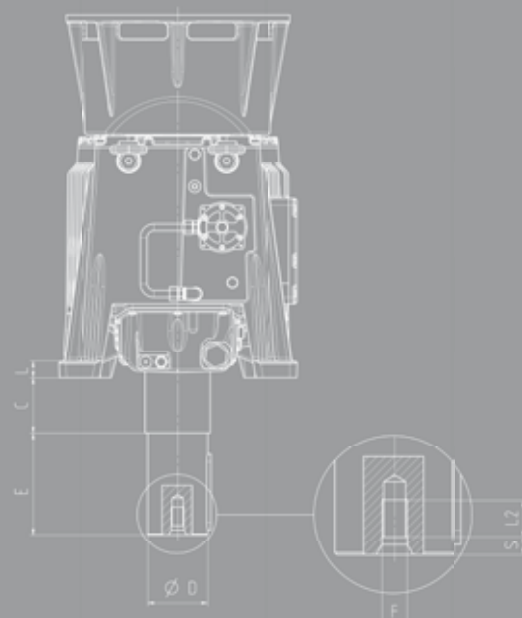
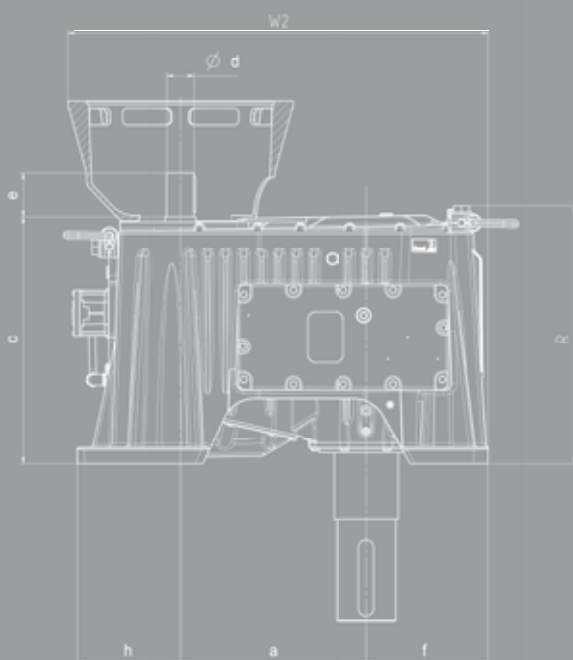
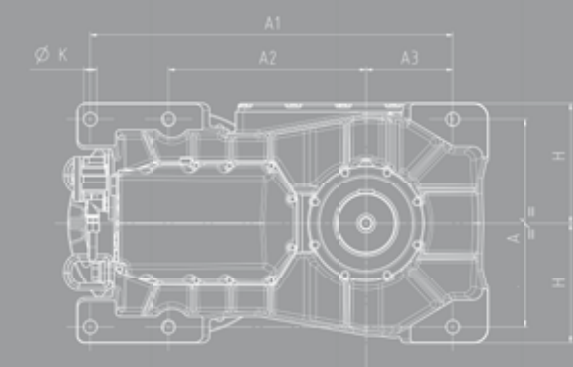
Technical features overview

Size	Gearbox dimensions															
	a	A	A1	A2	A3	c	C [max]	f	h	H	Ø K	L	R	R1	W2	Mass [kg]
250	430	510	/	530	225	616,5	800	286	218	300	33 (x4)	51	675	958	1045	950
280	480	580	/	540	220	604	800	305	204	335	33 (x4)	42	652	934	1118	1070
320	545	610	1065	580	255	725	1000	359	303	350	39 (x6)	48,5	758	1065	1234	1270
360	610	610	1145	620	285	768	1000	388	305	380	39 (x6)	48,5	800	1108	1328	1450

Input shaft dimensions				
Size	d	e	t	b
250	70	140	74,5	20
280	70	140	74,5	20
320	90	170	95	25
360	90	170	95	25

Output shaft dimensions							
Size	D	E	T	B	F	S	L2
250	135	250	143	36	M30 (4x)	22	45
280	135	250	143	36	M30 (4x)	22	45
320	175	300	185	45	M36 (6x)	27	54
360	175	300	185	45	M36 (6x)	27	54

Rossi reserves the right for alterations. To assist in your planning, we recommend that you call your Rossi representative.





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an evolving
industry

HEADQUARTERS

Rossi S.p.A.

Via Emilia Ovest 915/A
41123 Modena - Italy

Phone +39 059 33 02 88

info@rossi.com
www.rossi.com

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