SEW EURODRIVE

External oil cooling for heavy industry gearing

Ensuring oil is delivered, monitored, and cooled *exactly* as your application demands.

The higher torque density in modern gearboxes means thermal capacity - not torque - often determines size.

As a result, heavy industry gearing units often require external cooling systems that feature oil-to-air or oil-to-water heat exchangers to boost thermal capacity.

SEW-EURODRIVE's external lubrication systems can be mounted directly to the gear unit or installed separately on a skid. An optimized suction pipe design supports oil startup viscosities up to 5,000 cSt without the requirement of additional heating.

Optional features include sensors, manual gauges, and duplex filters for filter changes during operation.

Oil Cooling Systems

Gearbox oil is circulated by a pump, then filtered and routed through a heat exchanger — using air or water for cooling. Gearbox oil may be delivered through internal piping and sprayed directly to critical moving components, such as bearings and gear meshes.

Note: Actual system numbers will include variations of row 1, for example "OAP1 04/042" as seen on the chart to the right.

O	A	C	1	16	120	0	2	0	M
System Type	Coolant	Type	Gen.	Pump size	Heat Exchanger	Mounting position	Frequency	Options	Mounting type
Oil Cooling	A = air W = water	C = circulation P = pressure	1	04 – 80	042 -810 (air) 712-1024 (water)	0 = M1 1 = M5	0 = 50 Hz 1 = 60 Hz 2 = 50/60 Hz	0 = no filter 1 = single filter 2 = duplex filter 9 = special	M = mounted on gearbox S = skid / separate

See catalog ***31972330 / EN*** for more details

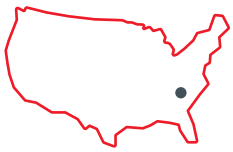
Oil Supply Systems

Gearbox oil is circulated by a pump, then filtered — *minus the cooling process*. Gearbox oil is delivered through internal piping and sprayed directly to critical moving components, such as bearings and gear meshes.

Note: Actual system numbers will include variations of row 1, for example "ONP1 06" as seen on the chart to the right.

O	N	P	1	L	12	0	0	0	M
System Type	Coolant	Type	Gen.	Version	Pump size	Mounting position	Frequency	Options	Mounting type
Oil Supply	N = none	P = pressure	1	L = light version (no filter)	06 – 25	0 = M1 1 = M5	0 = 50 Hz 1 = 60 Hz 2 = 50/60 Hz	0 = no filter 1 = single filter 2 = duplex filter 9 = special	M = mounted on gearbox S = skid / separate

See catalog ***31972330 / EN*** for more details



Select systems are now stocked and assembled in the USA — allowing for faster delivery.

System	Heat Exchanger	Cooling Cap. at 60 Hz [kW]	Cooling Cap. at 60 Hz [HP]	Stocked in USA	Assembled in USA
OAP1 04/042	Air	1.9	2.5	-	Yes
OAP1 06/120	Air	4.1	5.5	Yes	
OAP1 10/220	Air	5	6.7		
OAP1 16/320	Air	9.8	13.1		
OAP1 20/420	Air	11.5	15.4		
OAP1 32/420	Air	13.2	17.7		
OAP1 32/520	Air	21.4	28.7	-	
OAP1 50/710	Air	30.5	40.9		
OAP1 63/810	Air	44.4	59.5		
OWP1 06/712	Water	3.5	4.7	Yes	
OWP1 08/712	Water	4.5	6.0		
OWP1 12/712	Water	7	9.4		
OWP1 16/712	Water	9	12.1		
OWP1 20/718	Water	15	20.1		
OWP1 32/1012	Water	20	26.8	-	
OWP1 50/1012	Water	29	38.9	-	
OWP1 50/1024	Water	44	59.0	-	
OWP1 80/1024	**Water**	**65**	**87.2**	-	
ONP1 06	-	-	-	Yes	
ONP1 08	-	-	-		
ONP1 10	-	-	-		
ONP1 12	-	-	-		
ONP1 16	-	-	-		
ONP1 20	-	-	-		
ONP1 25	-	-	-	-	

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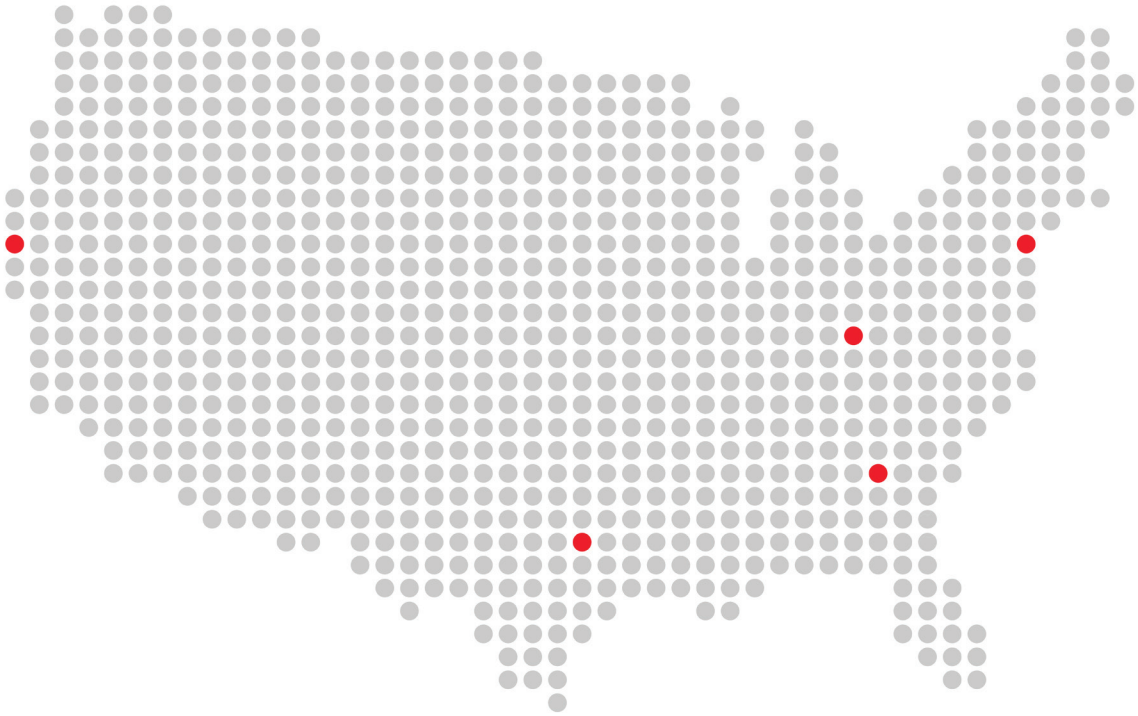

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