

Technical data OMS gear box EC 2-15.1

(Technical changes reserved – last changes 05 / 2022)



Gear box:

Input torque, max.:	$T_{\max} = 150 \text{ Nm}$
Input speed:	$n = 1.000; 1.200 \text{ and } 1.500 \text{ rpm}$
Efficiency:	$\eta_{\text{nom}} \geq 96 \%$
Average oil temperature:	$T = 30 - 35 \text{ K above ambient temperature}$
Oil operating time up to:	$t = 40.000 \text{ hours}$
Oil quantity:	approx. 6 litres
Toothings:	life time durability
Bearing life time:	$> 146.000 \text{ h @ } p_{\text{equiv}} = 0.78 \text{ (ISO TS 16281:2008)}$
Gear ratio:	$i = 19,963; 25,301; 31,578$
For escalator speed:	$v = 0,5 \text{ up to } 0,75 \text{ m/s}$
Versions:	single- units for chain drive (left or right) duplex- units for chain drive (1x left and 1x right) single- unit for OMS intermediate gear box "ZG 510" (left or right) duplex- units for OMS intermediate gear box "ZG 510" (1x left and 1x right) all versions are suitable to drive escalators and moving walkways
Position at machine room:	left and right (viewed from the lower base of the escalator to upper landing platform)
Safety requirements:	DIN EN 115-1:2017 and ASME A17
Motors:	9,5 – 15kW @1.000rpm 9,5 – 22kW @1.500rpm 9,5 – 18kW @1.200rpm
Chain wheel:	
Press fit:	output shaft: $\varnothing 86 \text{ p6}$ / chain wheel: $\varnothing 86 \text{ H6}$
Version:	duplex, triplex
Size:	20A, 24A and 20B, 24B ($1 \frac{1}{4}''$, $1 \frac{1}{2}''$)
Standard:	DIN 8187 / 8188 (ANSI)
Intermediate gear box:	more information see data sheet ZG 510
Optional monitoring:	oil temperature sensor, oil level sensor

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Performance data:

Performance Data of EC 2-15.1 gear box						
Motor:	Synchronous speed	n_{sync}	min^{-1}	1000	1200	1500
	Speed at nominal power P_N	n_N	min^{-1}	980	1176	1470
	Frequency	f	Hz	50	60	50
Gear:	Efficiency at P_N	η	-	$\geq 96\%$		
Variant V1 i= 31,578	max. nominal motor power	P_N	kW	9,5	11,7	15,0
	Motor torque at P_N	T_N	Nm	92,6	95,0	97,4
	Output speed at P_N	n_{out}	min^{-1}	31,03	37,24	46,55
	Output torque at P_N	T_{out}	Nm	2806	2880	2954
Variant V2 i= 25,301	max. nominal motor power	P_N	kW	15,0	18,0	22,5
	Motor torque at P_N	T_N	Nm	146,2	146,2	146,2
	Output speed at P_N	n_{out}	min^{-1}	38,73	46,48	58,10
	Output torque at P_N	T_{out}	Nm	3550	3550	3550
Variant V3 i= 19,963	max. nominal motor power	P_N	kW	15,0	18,0	22,5
	Motor torque at P_N	T_N	Nm	146,2	146,2	146,2
	Output speed at P_N	n_{out}		49,09	58,91	73,64
	Output torque at P_N	T_{out}	Nm	2801	2801	2801

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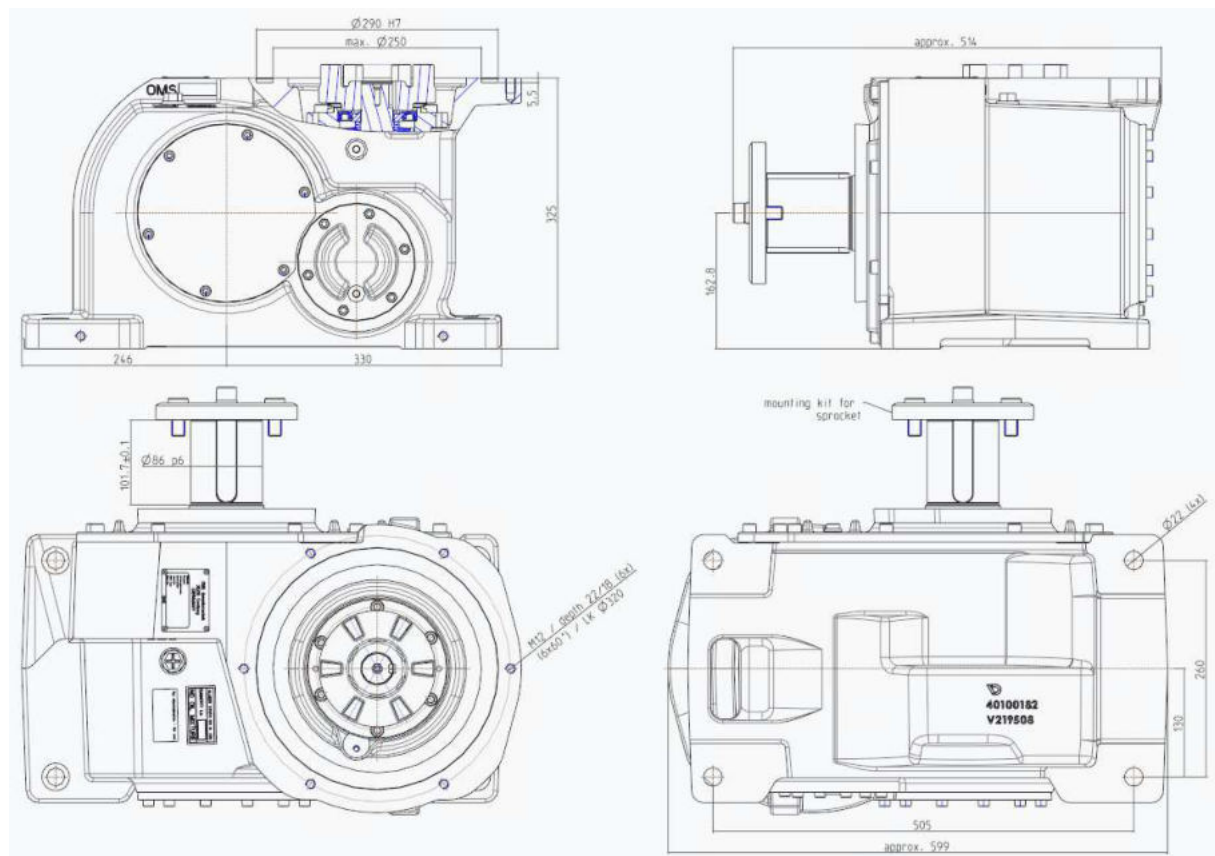
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EC 2-15.1 gear box dimensions

oms Hypodrive		
Version:		EC 2-15.1
gear ratio	-	19,963; 25,301; 31,578
input torque, max.	Nm	150

Left version:



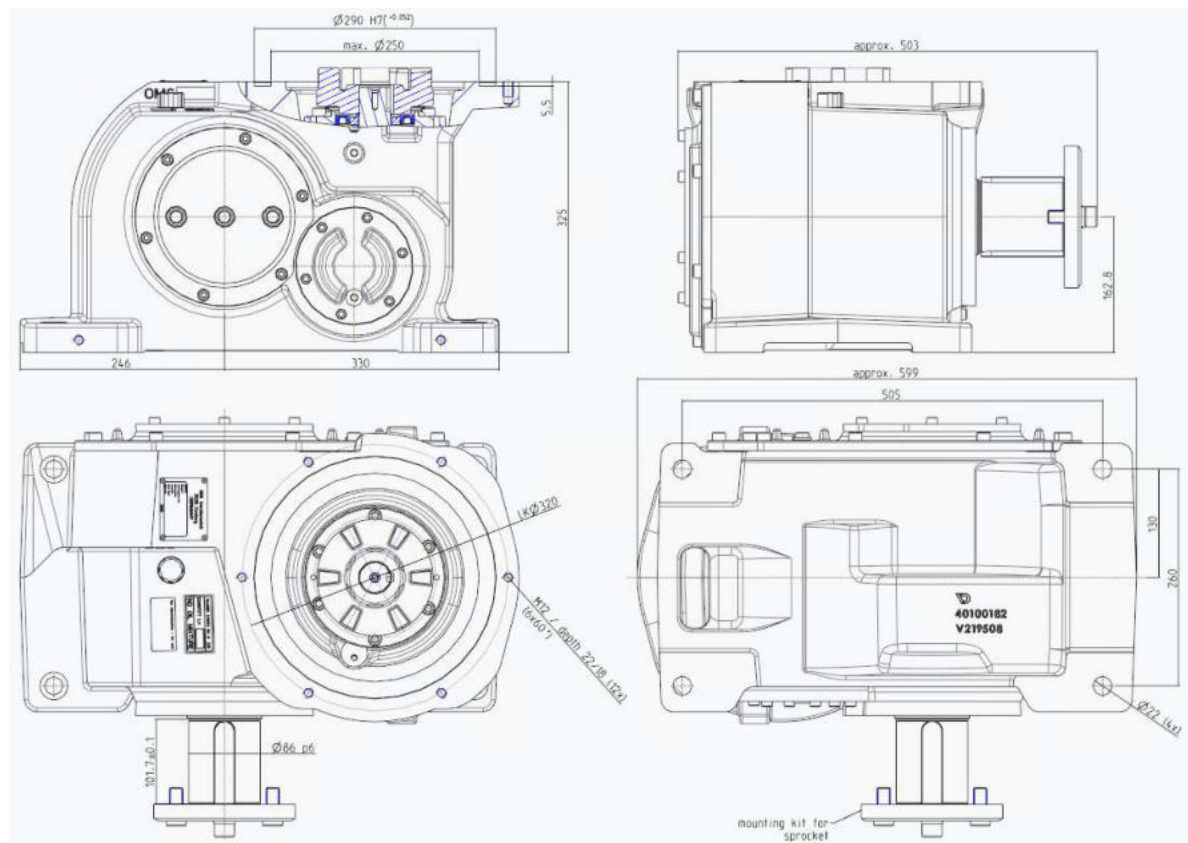
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ANTRIEBSTECHNIK

Right version:



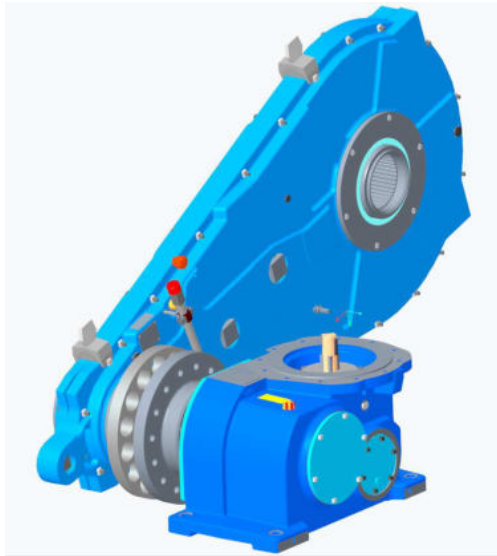
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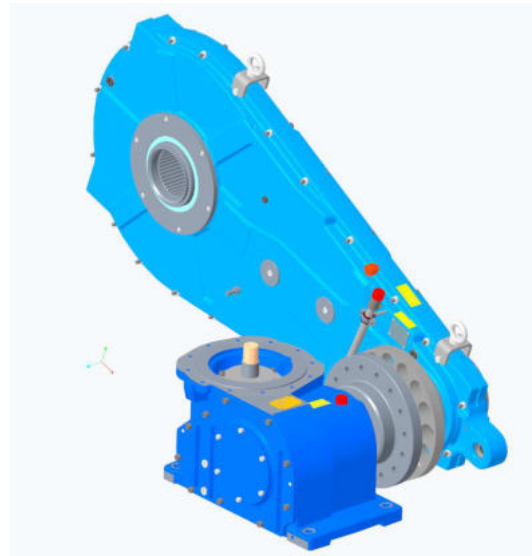


EC 2-15.1 combined with intermediate gear box ZG 510:

Single unit - right version:



single unit - left version:



duplex version:

