

Gear-pumps with electric motor series FOM



Construction

Self-priming electric-gear-pumps, bellhousing with foot-flange, pump-casing in cast iron. Gear-pumps series FOM with motor-power up to 18,5 kW. Suction- and pressure-ports whitworth pipe threads - opposite 180°. For type FOM 5.. SAE-flange optionally.

Applications

Industrial applications, for example:
Lubrication systems, coolant feed in machine tools, heat transfer, test bench and many more.

Example of liquids suitable for transport

Pure, non-explosive liquids, not corrosive against pump materials, without any solids. The liquids to deliver, must have lubricating characteristics.
oil, mineral oil, synthetic oil, adhesives, sealants, polymers, diesel, paints, inks and many more.

Operating conditions

Liquid temperature: -10°C up to +60°C (NBR)
-40°C up to +250°C on request
Ambient temperature: -20°C up to +40°C
operating pressure: max. 100 bar
others on request

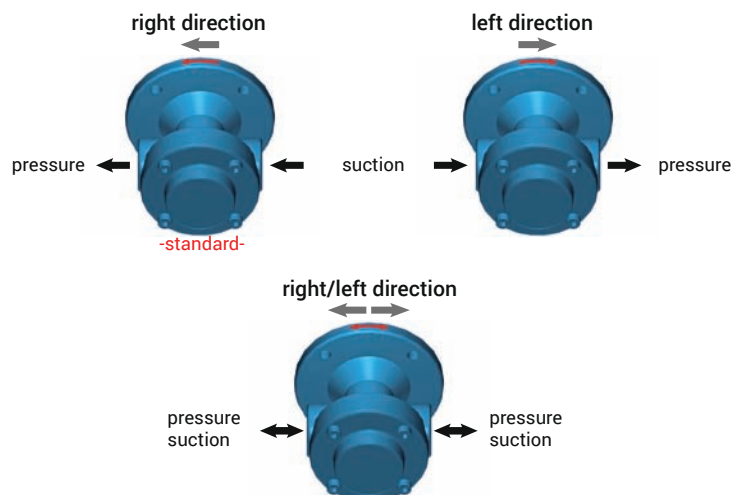
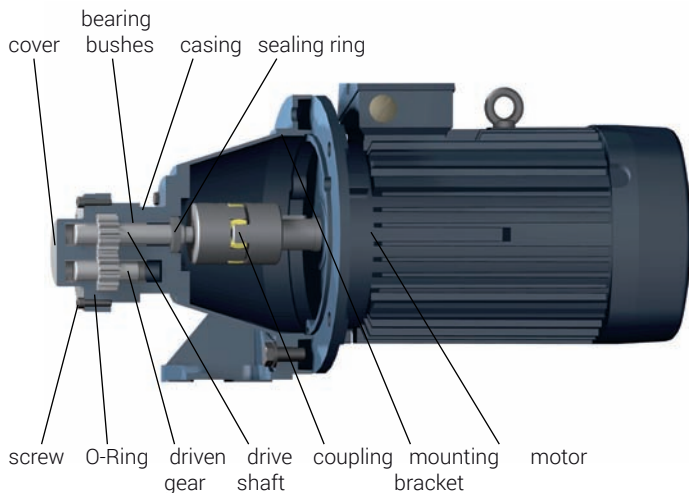
Drive

Standard: three-phase asynchronous motor
operation mode: Continuous operation S1
thermal class 155, protection IP 55
optional: single-phase motor, DC-motors

Materials

components	standard	on request
casing and cover	cast iron- EN-GJL-250 - (GG25)	ductile cast iron (GGG40)
shaft	steel	
gears	Steel, hardened and grinded	
bearing bushes	composite bearings	
shaft seal	sealing ring NBR	FPM, PTFE, GLRD, packing gland

sectional drawing



Gear-pumps with electric motor series FOM 310 - FOM 323

Performance (n ≈ 1450 min⁻¹):

type	cm ³ /U	motor power kW	pressure max. bar		pressure (bar)						
					5	50	60	70	80	90	100
FOM 310	5,10	2,2	100	capacity l/min	7,4	7,0	6,9	6,8	6,7	6,6	6,5
FOM 314	7,10	2,2	80		10,2	9,4	9,1	8,8	8,5	8,0	7,4
		3	100								
FOM 318	9,10	2,2	60		13,2	12,1	11,8	11,5	11,2	10,8	10,4
		3	80								
		4	100								
FOM 323	11,70	2,2	45		16,7	15,6	15,2	14,8	14,4	14,0	13,6
		3	65								
		4	90								
		5,5	100								

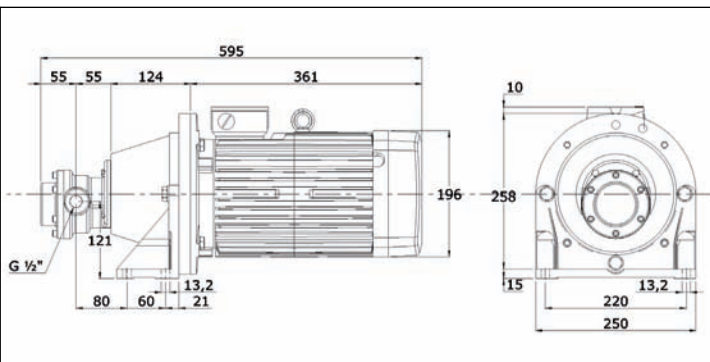
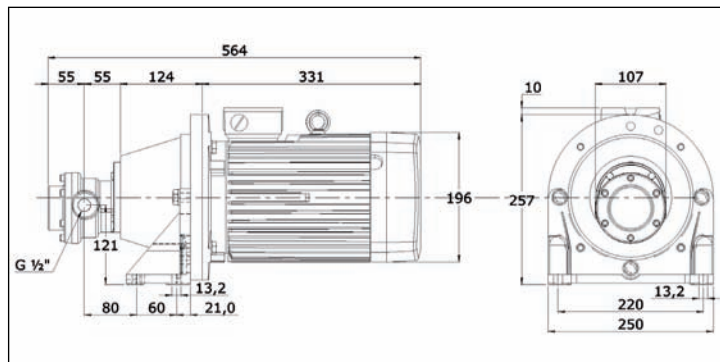
Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity: +/- 3%

Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side

Dimensions and weight

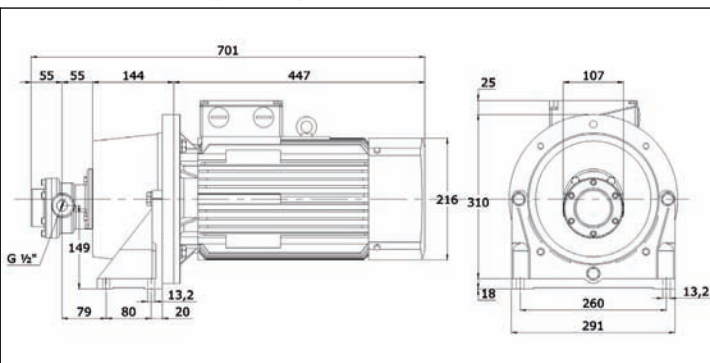
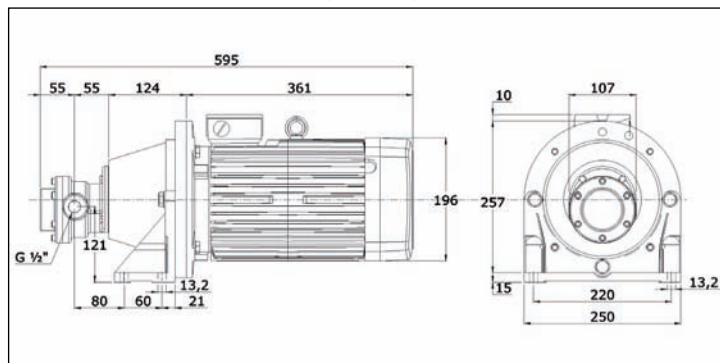
FOM 310 - FOM 323 2,2 kW weight: 26,5 kg

FOM 314 - FOM 323 3,0 kW weight: 28,5 kg



FOM 318 - FOM 323 4,0 kW weight: 33,5 kg

FOM 323 5,5 kW weight: 50,5 kg



Gear-pumps with electric motor series FOM 328 - FOM 333

Performance ($n \approx 1450 \text{ min}^{-1}$):

type	cm ³ /U	motor power kW	pressure max. bar		pressure (bar)						
					5	50	60	70	80	90	100
FOM 328	14,10	2,2	35	capacity l/min	20,3	19,4	19,0	18,6	18,2	17,7	17,2
		3	50								
		4	70								
		5,5	100								
FOM 333	16,70	2,2	30		24,1	23,2	22,9	22,5	22,1	21,6	21,1
		3	40								
		4	55								
		5,5	80								
		7,5	100								

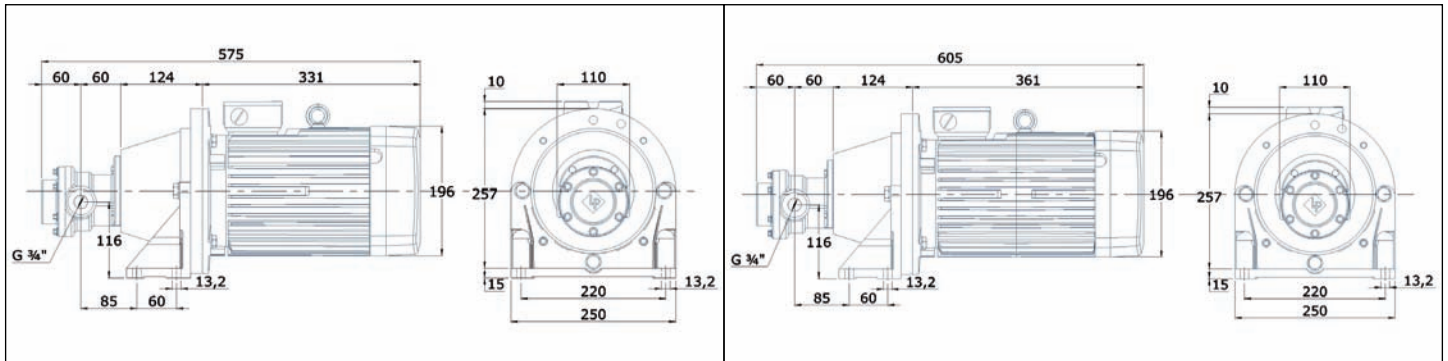
Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity: +/- 3%

Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side

Dimensions and weight

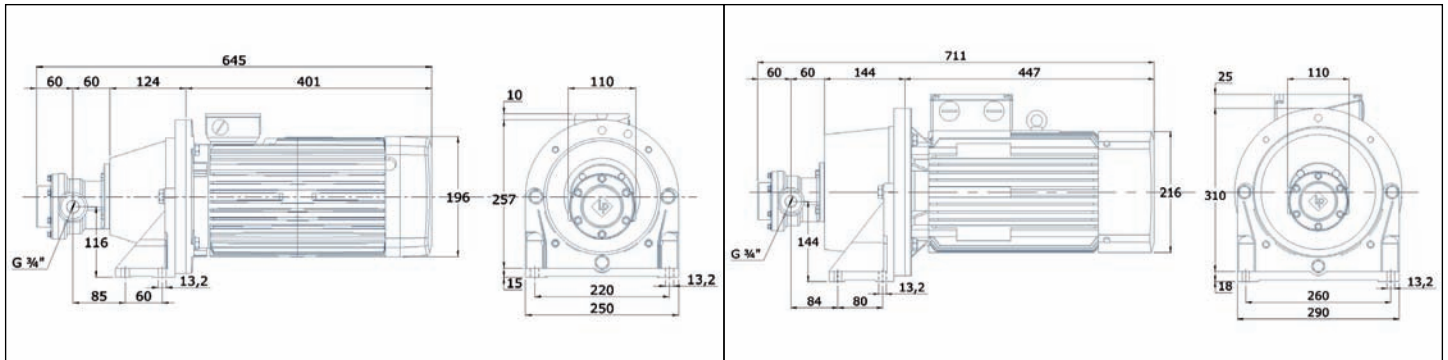
FOM 328- FOM 333 2,2 kW weight: 26,5 kg

FOM 328- FOM 333 3,0 kW weight: 28,5 kg

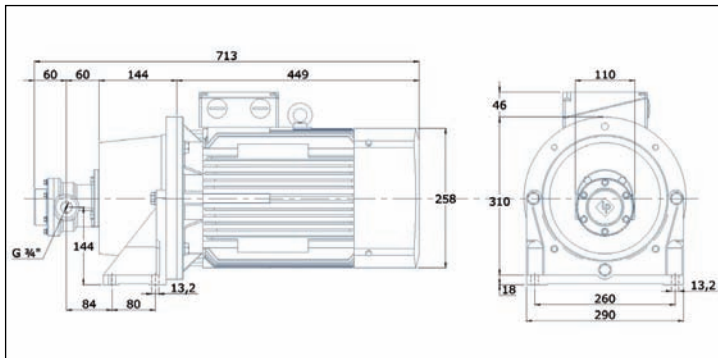


FOM 328- FOM 333 4,0 kW weight: 33,5 kg

FOM 328- FOM 333 5,5 kW weight: 50,5 kg



FOM 333 7,5 kW weight: 58,5 kg



Gear-pumps with electric motor series FOM 422 - FOM 438

Performance (n ≈ 1450 min⁻¹):

type	cm³/U	motor power kW	pressure max. bar		pressure (bar)						
					5	10	15	20	30	40	50
FOM 422	21,20	2,2	25	capacity l/min	30,50	30,30	30,10	29,80	29,40	29,00	28,50
		3	32								
		4	45								
		5,5	50								
FOM 426	25,00	2,2	20		36,20	36,00	35,80	35,50	35,10	34,70	34,20
		3	28								
		4	37								
		5,5	50								
FOM 430	28,90	2,2	18		41,60	41,40	41,20	40,90	40,50	40,10	39,60
		3	24								
		4	32								
		5,5	45								
		7,5	50								
FOM 434	32,80	2,2	15		47,30	47,10	46,90	46,60	46,20	45,80	45,30
		3	21								
		4	28								
		5,5	38								
		7,5	50								
FOM 438	36,70	2,2	14		53,00	52,80	52,60	52,30	51,90	51,50	51,00
		3	19								
		4	25								
		5,5	35								
		7,5	50								

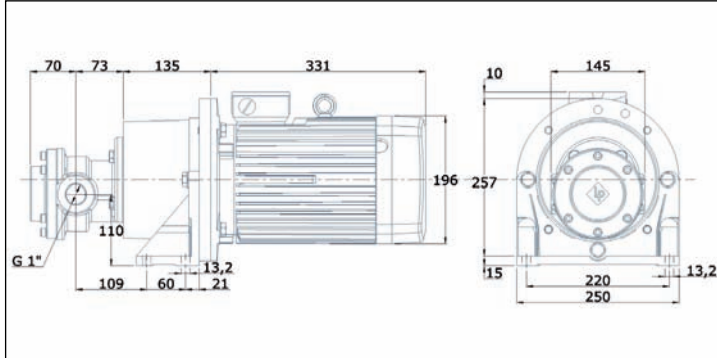
Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity: +/- 3%

Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side

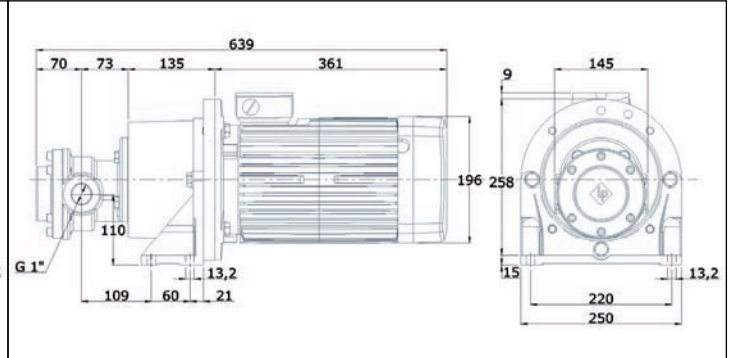
Gear-pumps with electric motor series FOM 422 - FOM 438

Dimensions and weight

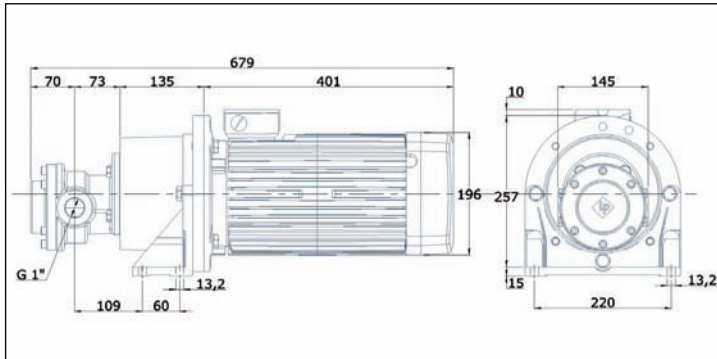
FOM 422- FOM 438 2,2 kW weight: 31,5 kg



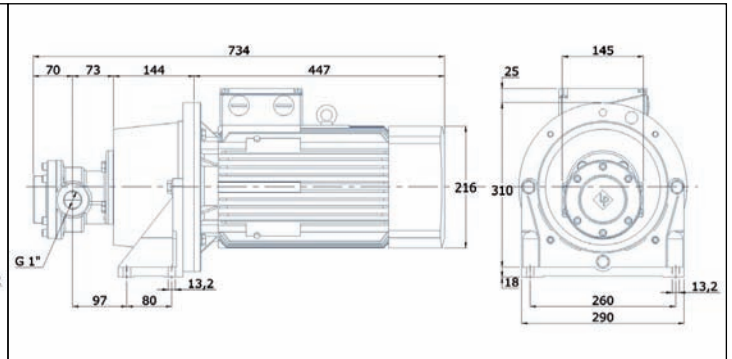
FOM 422- FOM 438 3,0 kW weight: 33,5 kg



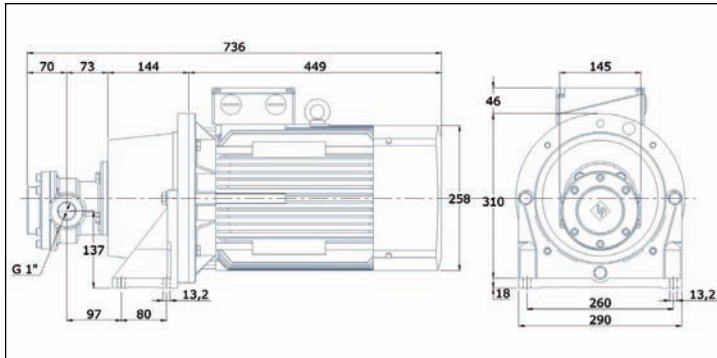
FOM 422- FOM 438 4,0 kW weight: 38,5 kg



FOM 422- FOM 438 5,5 kW weight: 55,5 kg



FOM 430- FOM 438 7,5 kW weight: 63,5 kg



Gear-pumps with electric motor series FOM 545 - FOM 556

Performance (n ≈ 1450 min⁻¹):

type	cm ³ /U	motor power kW	pressure max. bar		pressure (bar)						
					5	10	15	20	30	40	50
FOM 545	43,40	2,2	12	capacity l/min	62,70	62,50	62,30	61,80	61,30	60,80	60,30
		3	16								
		4	22								
		5,5	30								
		7,5	41								
		11	50								
FOM 556	54,00	2,2	10		78,10	77,90	77,70	77,20	76,70	76,20	75,70
		3	13								
		4	17								
		5,5	24								
		7,5	32								
		11	48								
		15	50								

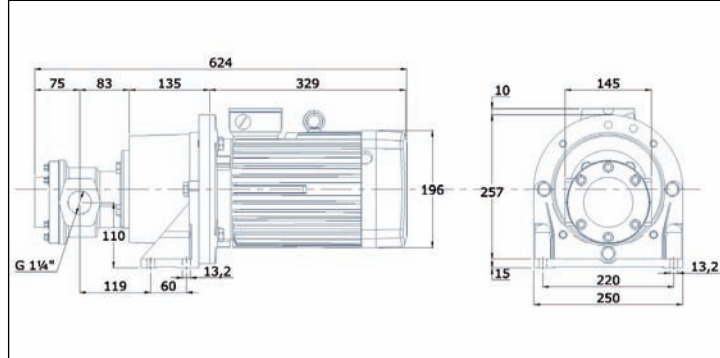
Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity: +/- 3%

Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side

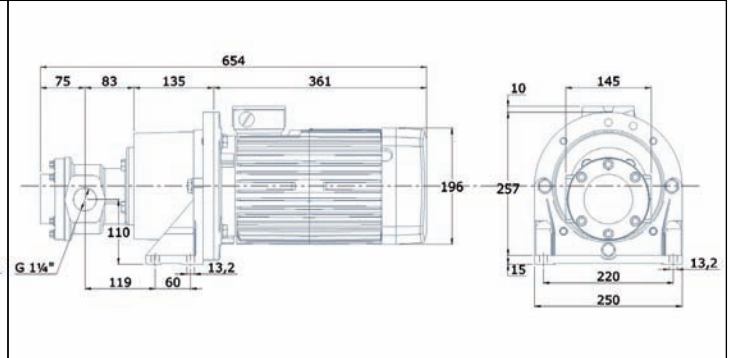
Gear-pumps with electric motor series FOM 545 - FOM 556

Dimensions and weight

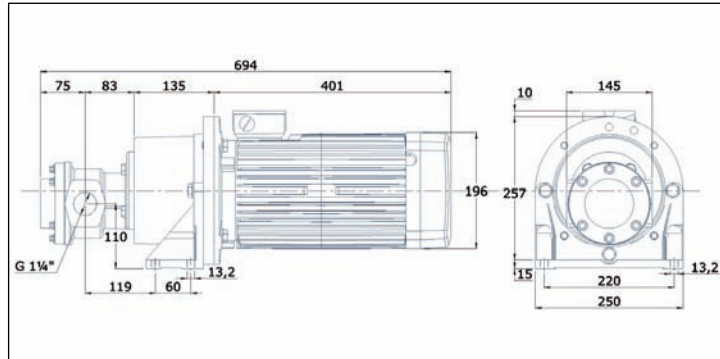
FOM 545- FOM 556 2,2 kW weight: 33 kg



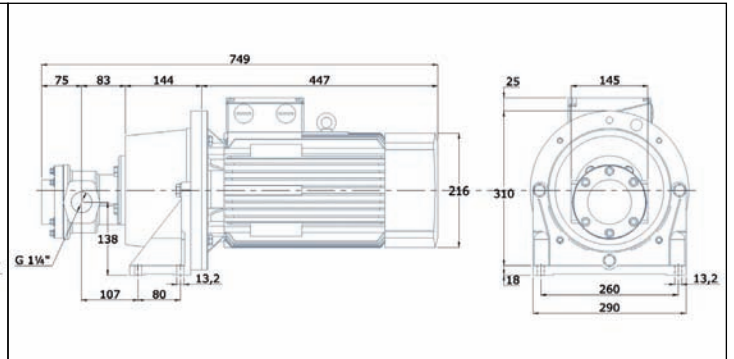
FOM 545- FOM 556 3,0 kW weight: 35 kg



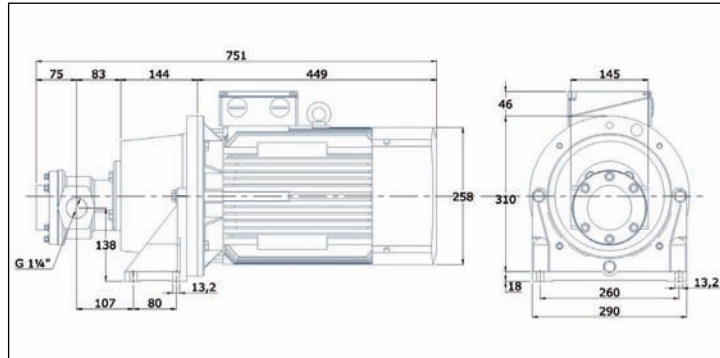
FOM 545- FOM 556 4,0 kW weight: 40 kg



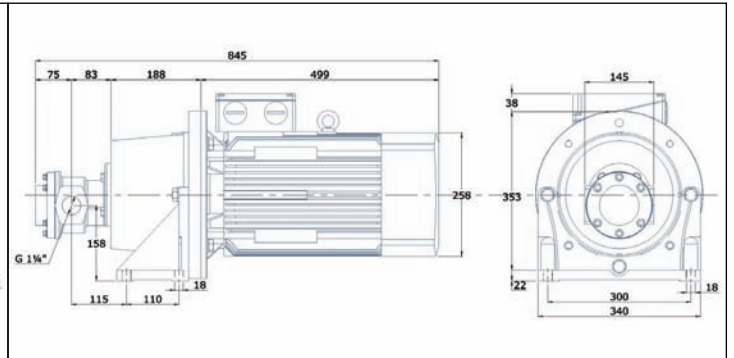
FOM 545- FOM 556 5,5 kW weight: 57 kg



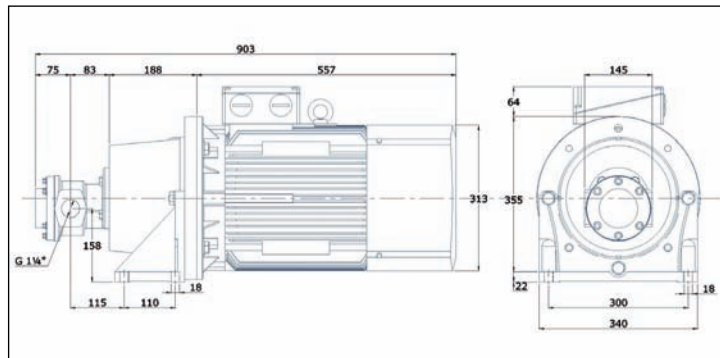
FOM 545- FOM 556 7,5 kW weight: 65 kg



FOM 545- FOM 556 11 kW weight: 82 kg



FOM 545- FOM 556 15 kW weight: 116 kg



Gear-pumps with electric motor series FOM 570 - FOM 590

Performance (n ≈ 1450 min⁻¹):

type	cm ³ /U	motor power kW	pressure max. bar		pressure (bar)						
					5	10	15	20	30	40	50
FOM 570	67,50	2,2	8	capacity l/min	97,70	97,50	97,20	96,70	96,20	95,70	95,20
		3	10								
		4	14								
		5,5	19								
		7,5	26								
		11	38								
		15	50								
FOM 590	86,80	2,2	6		124,00	123,80	123,60	123,10	122,60	122,10	121,60
		3	8								
		4	11								
		5,5	15								
		7,5	20								
		11	30								
		15	40								
		18,5	50								

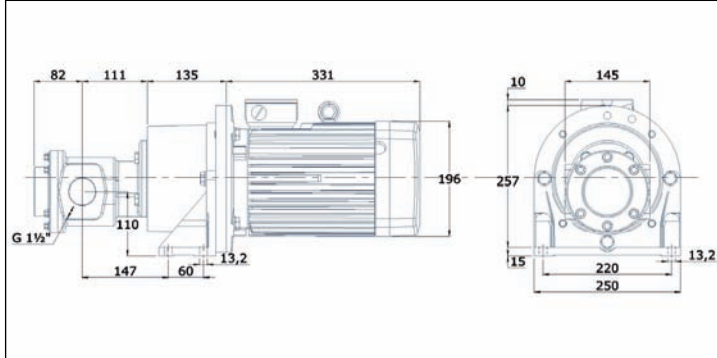
Valid for hydraulic oil with 35 mm²/s at 50 °C
Tolerance of capacity: +/- 3%

Oil-Speed: max. 1,5 m/s suction side, max. 4,5 m/s pressure side

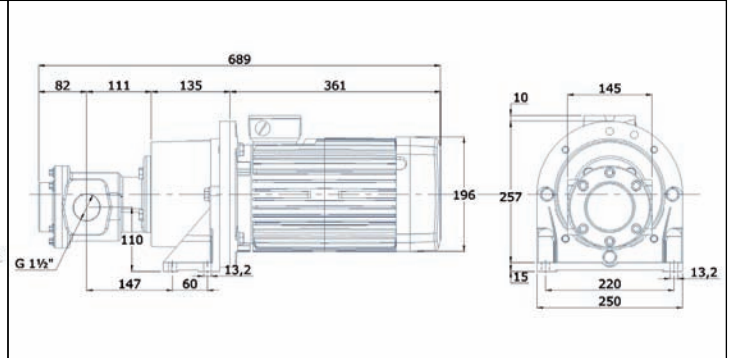
Gear-pumps with electric motor series FOM 570 - FOM 590

Dimensions and weight

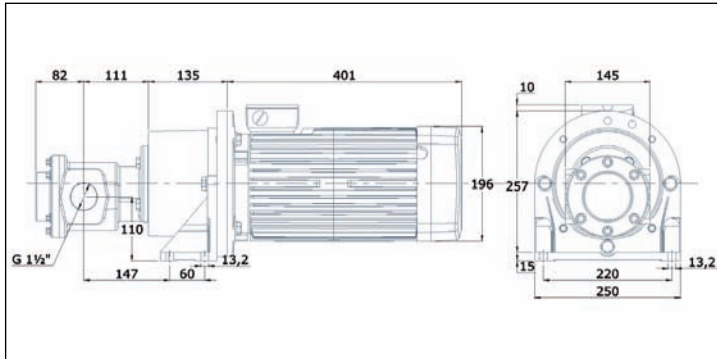
FOM 570- FOM 590 2,2 kW weight: 36 kg



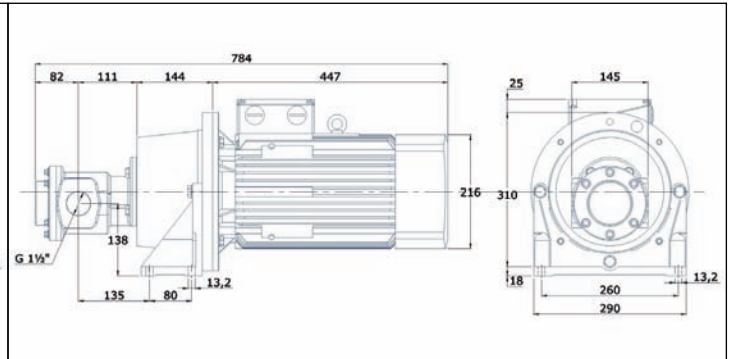
FOM 570- FOM 590 3,0 kW weight: 38 kg



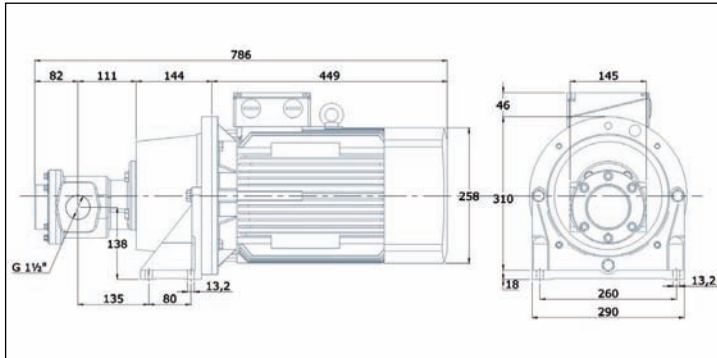
FOM 570- FOM 590 4,0 kW weight: 43 kg



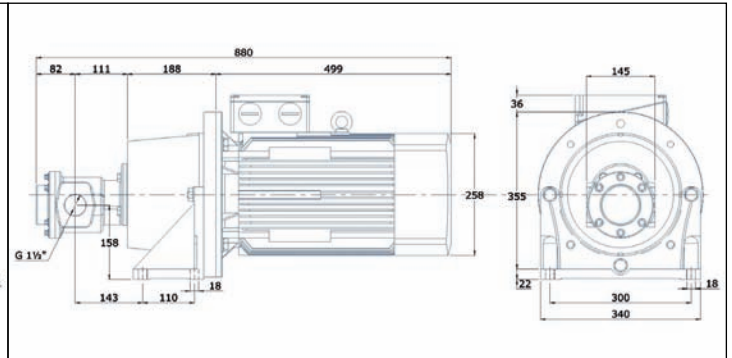
FOM 570- FOM 590 5,5 kW weight: 60 kg



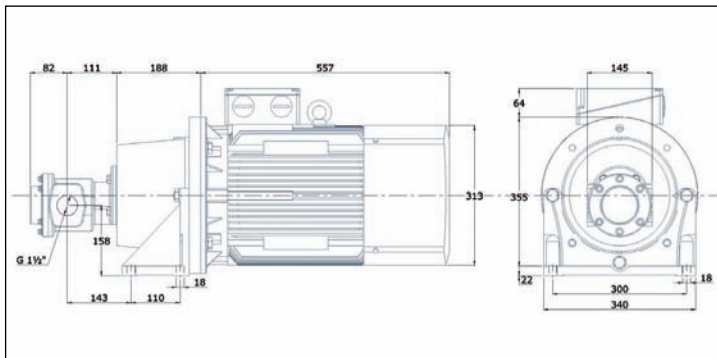
FOM 570- FOM 590 7,5 kW weight: 68 kg



FOM 570- FOM 590 11 kW weight: 85 kg



FOM 570- FOM 590 15 kW weight: 119 kg



FOM 570- FOM 590 18,5 kW weight: 135 kg

