

Technical Specification OMS Hypodrive AZHP 1



ANTRIEBSTECHNIK

(technical modification reserved; update 09/05)

Gear:

input-revolution, max: $n = 1800 \text{ rpm}$
 efficiency: $\eta, n = > 90 \%$
 typical backlash range : 5 to 15 (arc. minutes)
 sound pressure level (1500 rpm /nominal load): $L_{pA} = 59 \text{ dB(A)}$

car suspension		2 : 1 / 1 : 1
gear ratio	i	14,67
output shaft max. torque	T	930 Nm
max. axle weight	F	35 kN
for car load up to	Q	630 kg (options upon request)
for car speed up to	v	1,6 m/s

Motor:

(for frequency converter only)
 three phase induction motor: 4-pole, IP 54, motor protection: PTC, integral fans,
 type / diameter B / dimension type: 112 / B = 220 type: 132 / B = 246
 motor nominal torque up to: $T_{n} = 51,4 \text{ Nm}$
 encoder: HTL, TTL, Sinus

Brake:

2-circle safety disc brake

Traction wheel:

diameter: $D = 320, 400, 450 \text{ mm}^*)$
 weight, ca.: $G = 34, 37, 46 \text{ kg}^*)$
 width: $C = 112 \text{ mm}^*)$, $F = 173,5 \text{ mm}^*)$
 125 mm, (only for dia. 320 mm) *)
 rope diameter: $D, s = 8 - 10 \text{ mm}^*)$
 number of ropes: $n = 4 - 6^*)$
 *) options upon request

Dimension:

total height A according to motor dimension
 (weight of drive, all inclusive without traction wheel)

Motor Type	P_{nenn} kW	T_{nenn} Nm	n_{nenn} min ⁻¹	f Hz	A mm	G kg
112	4,2	22,3	1725	60	843	152
112	3,8	32,4	1120	40	863	159
112	5,5	30,5	1725	60	863	159
112	7,5	41,4	1730	60	960	170
132*	5,5	36,5	1440	50	855	178
132*	7,5	49,8	1440	50	905	197
132*	5,0	51,4	930	33,3	905	197
132	9,0	49,6	1735	60	948	186

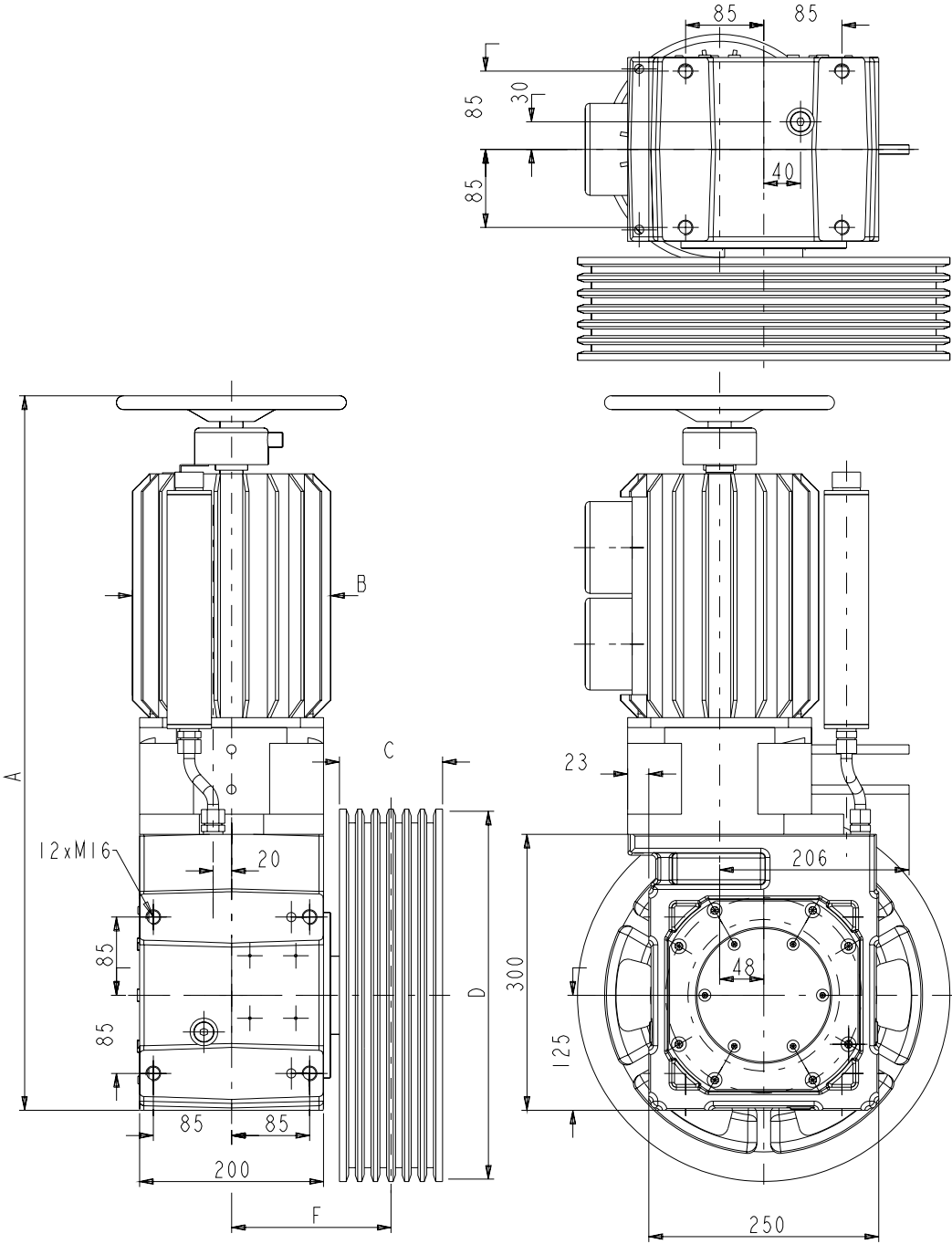
* fan less motor
 A = total height

Other dimensions:

Please see dimension sheet

Dimension Sheet OMS Hypodrive AZHP 1

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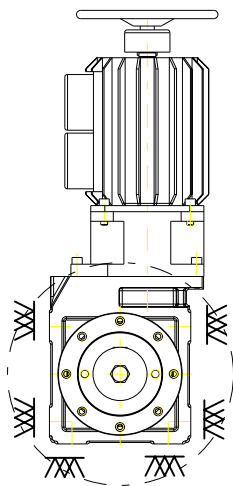


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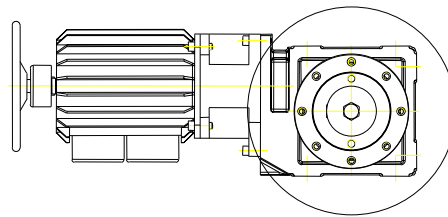
Example for Positioning and Supporting of Drive Unit

View of drive unit with traction wheel in front side
(force of rope possible in down ↓ and up ↑ direction or ↗ diagonally)

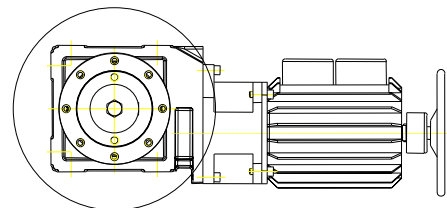
The gearbox has 4 fastening holes on each of the 3 mounting sides.
When applying forces from the side, additionally a support for these forces at that side is needed.



Motor vertical
A 1



Motor horizontal, (high)
A 2



Motor horizontal, (low)
A 3