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### About this Document:

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## Combination

Drive solution	Technical data	Unit price	Quantity	Total price
gear				
	Planetary Gearhead GP 52 C Ø52 mm, 4 - 30 Nm, Ceramic Version Part No.: 223080	Outer diameter: 52 mm Reduction: 3.5 : 1 Max. continuous torque: 4 Nm	€358.20	
motor				
	RE 50 Ø50 mm, Graphite Brushes, 200 Watt Part No.: 370354	Outer diameter: 50 mm Type power: 200 W Nominal voltage: 24 V No load speed: 5950 rpm Nominal torque (max. continuous torque): 405 mNm Certificate of Conformity: No	€632.40	
Sensor				
	Encoder HEDL 5540, 500 CPT, 3 Channels, with Line Driver RS 422 Part No.: 110518	Counts per turn: 500 Number of channels: 3 Line Driver: DS26LS31	€147.79	
Subtotal (mounted)		€1,138.39	1	€1,138.39

[Details](#)
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**Total cart** €1,138.39

Expected Shipping and packing costs €39.90

VAT €90.73

**Total sum** €1,269.02

### Taxes and tariffs

Goods are delivered duty paid within Switzerland, Germany, Japan and China. VAT is accounted for and settled by us. For deliveries outside Switzerland, Germany, Japan and China, your country may levy VAT, import duty, or fees.

Encoder HEDL 5540, 500 CPT, 3 Channels, with Line Driver RS 422  
Part No. 110518

Details



Price scales

1-4	€147.79
5-19	€128.94
20-49	€109.89
from 50	On request

Prices excluding VAT and shipping costs

Product specifications

General information

Counts per turn	500
Number of channels	3
Line Driver	DS26LS31
Max. mechanical speed	12000 rpm
Shaft diameter	8 mm

Technical Data

Supply voltage Vcc	5.0V &plusmn; 10.0%
Output signal	EIA RS 422
Driver used logic	EIA RS 422
Max. angular acceleration	250000 rad / s²
Output current per channel	-20...20 mA
Signal rise time	180 ns
Measurement condition for signal rise time	CL=25pF, RL=2.7kOhm, T=25°C
Signal fall time	40 ns
Measurement condition for signal fall time	CL=25pF, RL=2.7kOhm, T=25°C
Phase shift	90 °e
Phase shift, inaccuracy	45 °e
Index synchronized to AB	Yes
Max. moment of inertia of code wheel	0.6 gcm²
Operating temperature	-40...+100 °C
Orientation of encoder output to motor flange	-1 °

Product

Weight	28 g
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Planetary Gearhead GP 52 C Ø52 mm, 4 - 30 Nm, Ceramic Version

Part No. 223080



Details

Price scales

1-4	€358.20
5-19	€307.67
20-49	€252.10
from 50	On request

Prices excluding VAT and shipping costs

Product specifications

General information

Gearhead type	GP
Outer diameter	52 mm
Version	Ceramic version

Gearhead Data

Reduction	3.5 : 1
Absolute reduction	7/2
Max. motor shaft diameter	10 mm
Number of stages	1
Max. continuous torque	4 Nm
Max. intermittent torque	6 Nm
Direction of rotation, drive to output	=
Max. efficiency	91 %
Average backlash no load	0.6 °
Mass inertia	20.7 gcm <sup>2</sup>
Gearhead length (L1)	49 mm
Max. transmittable power (continuous)	720 W
Max. transmittable power (intermittent)	1100 W

Technical Data

Bearing at output	ball bearing
Radial play	max. 0.06 mm, 12 mm from flange
Axial play	0 - 0.3 mm
Max. radial load	420 N, 12 mm from flange
Max. axial load (dynamic)	200 N
Max. force for press fits	500 N
Max. continuous input speed	6000 rpm
Max. intermittent input speed	6000 rpm
Recommended temperature range	-15...+80 °C
Extended temperature range	-40...+100 °C
Number of autoclave cycles	0

Product

Weight	460 g
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RE 50 Ø50 mm, Graphite Brushes, 200 Watt  
Part No. 370354

Details



Price scales

1-4	€632.40
5-19	€544.19
20-49	€436.83
from 50	On request

Prices excluding VAT and shipping costs

Product specifications

Values at nominal voltage

Nominal voltage	24 V
No load speed	5950 rpm
No load current	236 mA
Nominal speed	5680 rpm
Nominal torque (max. continuous torque)	405 mNm
Nominal current (max. continuous current)	10.8 A
Stall torque	8920 mNm
Stall current	232 A
Max. efficiency	94 %

Characteristics

Terminal resistance	0.103 $\Omega$
Terminal inductance	0.0717 mH
Torque constant	38.5 mNm/A
Speed constant	248 rpm/V
Speed / torque gradient	0.668 rpm/mNm
Mechanical time constant	3.75 ms
Rotor inertia	536 gcm <sup>2</sup>

Thermal data

Thermal resistance housing-ambient	3.81 K/W
Thermal resistance winding-housing	1.24 K/W
Thermal time constant winding	68.5 s
Thermal time constant motor	1370 s
Ambient temperature	-30...+100 °C
Max. winding temperature	+125 °C

Mechanical data

Bearing type	ball bearings
Max. speed	9500 rpm
Axial play	0 mm, at radial load < 11.5 N
Radial play	0.03 mm
Max. axial load (dynamic)	30 N
Max. force for press fits (static)	150 N
(static, shaft supported)	6000 N
Max. radial load	110 N, 15 mm from flange

#### Other specifications

Number of pole pairs	1
Number of commutator segments	15
Number of autoclave cycles	0

#### Product

Weight	1100 g
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