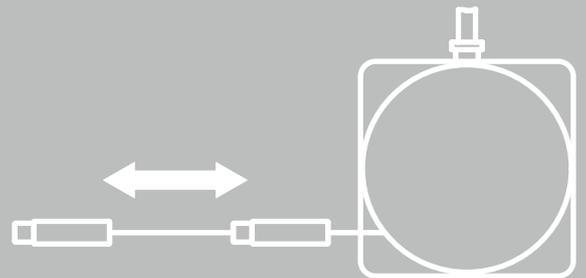
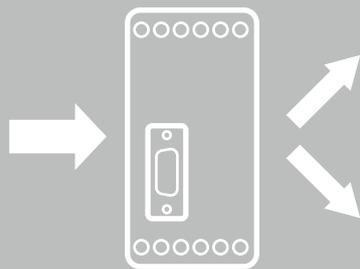
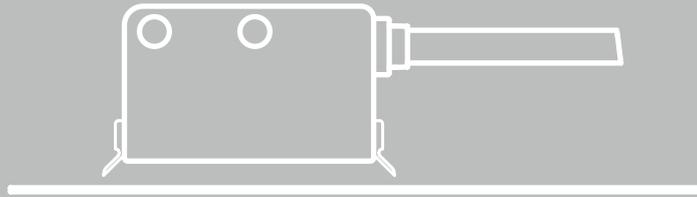
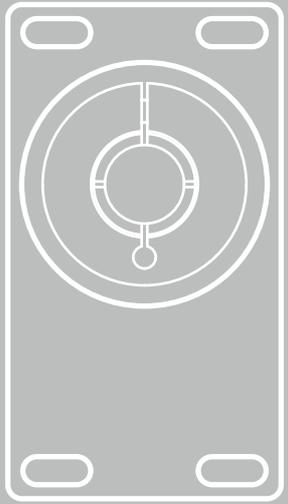
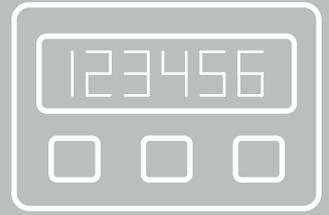
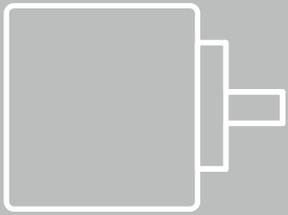




**30 YEARS
YOUNG**
1982.2012



Smart encoders & actuators



Draw wire units 2014





ROTAPULS

Incremental rotary encoders



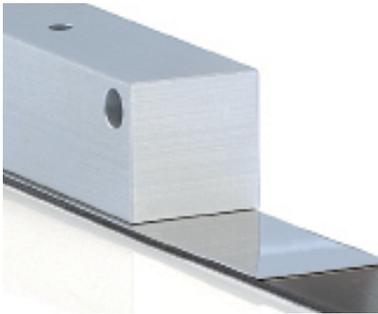
ROTACOD

Absolute rotary & Fieldbus encoders



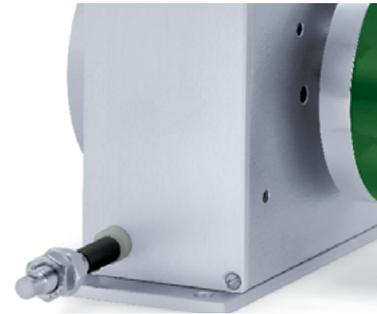
ROTAMAG

Rotary Magnetic encoder & Encoder modules



LINEPULS – LINECOD

Linear Absolute & Incremental encoders



DRAW-WIRE

Draw-wire encoders & potentiometers



COUPLINGS

Flexible & Transmission couplings



POSICONTROL

Displays & Signal converters
Encoder Interfaces



DRIVECOD

Rotary Actuators & Positioning units



**30 YEARS
YOUNG**
1982.2012

1982
Lika Electronic
founded in Schio (VI).

1986
Manufacturing of
absolute encoders with
integrated display and
incremental encoders
for the Italian market.

1991
Foundation of Lika
Trading commercial
corporate.

1993
Lika Electronic is the
first company in Italy
to offer a complete
portfolio of encoders
in the 58 mm diam.
range.

1997
Lika is first certified
to ISO 9001:1994.

1982

1986

1990

1995

1983
Lika numbers 8
customers.

1985
Lika starts the
production of
absolute encoders
for the German
market.

1987
Lika produces a 50 mm
diameter miniature
encoder, the smallest
absolute encoder in
Europe.

1995
The 100,000th
encoder rolled off the
production line.

1996
ROTACAM ASR58 is the
first absolute encoder
fitted with integrated
cam programmer.

An international family company, corporate profile



Lika Electronic stands for encoders and position measuring systems. Since its inception in 1982, Lika Electronic develops and manufactures *incremental and absolute, optical and magnetic, rotary and linear encoders, incremental & absolute sensors, linear and rotary incremental & absolute magnetic measurement systems, rotary actuators, displays, signal converters and encoder interfaces.*

Starting as a family-owned business, thanks to its technical competence and comprehensive know-how in the automation industry along with the high quality standards and the skill in providing solutions that target specific customer needs, over the years **Lika Electronic has**

grown becoming a forward thinking innovative and global company and has become one of the leading manufacturers of optical encoders and magnetic measurement systems in Europe and worldwide.

Many key features include the extensive technical engineering skills, in-depth knowledge and expertise in digital and analogical electronic design as well as the proven daily practice in co-operation with universities, research institutions and customers in order to **develop and provide advanced electronic equipment and high-tech materials & devices tailored to specific customer and market requirements.**

Moreover software development and mechanical & optical components design are entirely performed within the company. Often production machinery and tools are often engineered and built internally to satisfy specific needs and performances.

Every day Lika Electronic is committed to being a step ahead and always at the forefront of innovation, looking to the future with the enthusiasm that steers the company towards new opportunities *without giving up the strength of being an international family company.*

Lika Electronic is certified for compliance with ISO 9001:2000 quality management system and is now committed to adopt an environmental management system complying with ISO 14001:2004 requirements. All Lika's products are designed and manufactured to fully meet the requirements of CE, RoHS and REACH directives, most of them are UL and CSA compliant too. ATEX certified solutions suitable to be integrated into potential explosive environments and hazardous areas are also available.



Global presence, make us closer to the customer

Every day, everywhere Lika Electronic works in close contact with its customers to build strong, long-lasting relationships and support them at all times in each day-to-day requirement.

Lika's actions focus on customers' needs with daily challenges to develop reliable and cutting edge solutions.

Continuous innovation, outstanding expertise, overall quality, prompt action and maximum flexibility are the fundamental values that Lika Electronic is truly proud of offering its customers when working together.

Lika Electronic operates all over the world providing a widespread and efficient global distribution network, offering unrivalled technical support and excellent customer service.

At the present time the export share is approximately 60% of the turnover in more than 50 countries.

1998

First 16-bit resolution single-turn absolute encoder engineered for installation in aerostatic probes developed by Florence University.

2000

ROSETTA space probe project gets under way in co-operation with CISAS.

2002

Production in antistatic environment (ESD). DRIVECOD & POSICONTROL product ranges are launched in the market.

2007

Lika Electronic celebrates its 25th anniversary with a series of special events.

2012

30th anniversary: "30 new products for our 30 years" event launched.



2000

1999

Lika Electronic moves its corporate headquarters to Carré (VI) establishing in new larger production and office premises.

2001

Foundation of Lika subsidiary in Germany.

2004

2004

Ariane 5 rocket successfully launched: Rosetta probe fits Lika encoders.

2008

2008

ALMA project: giant array of 12-m radio telescopes equipped with special custom-made Lika encoders.

2012

2010

Lika introduces the innovative range of heavy-duty products dedicated to steel & iron industry and wind mills.

DRAW WIRE

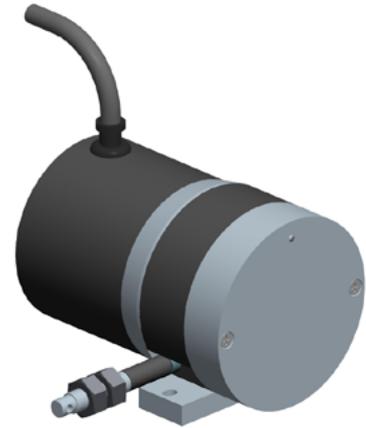
Miniature wire actuated transducer

Series

SFP



- Robust and space saving construction
- Integrated potentiometer
- Measuring length up to 2000 mm



SFP

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range:	-25°C +85°C (-13°F +185°F)
Protection:	IP64

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Stroke per turn:	100 mm
Wire retraction force:	3 ÷ 5 N
Measuring length:	300, 500, 1000, 1500, 2000 mm
Measuring speed:	1 m/sec max.
Repeat accuracy:	± 0,15 mm
Weight:	~ 0,2 kg
Connections:	cable 2,0 m

ELECTRICAL SPECIFICATIONS

Resistance value:	1, 5, 10, 20 kΩ
Tolerance of resistance:	± 5%
Linearity:	± 0,25%
Power rating:	2 W

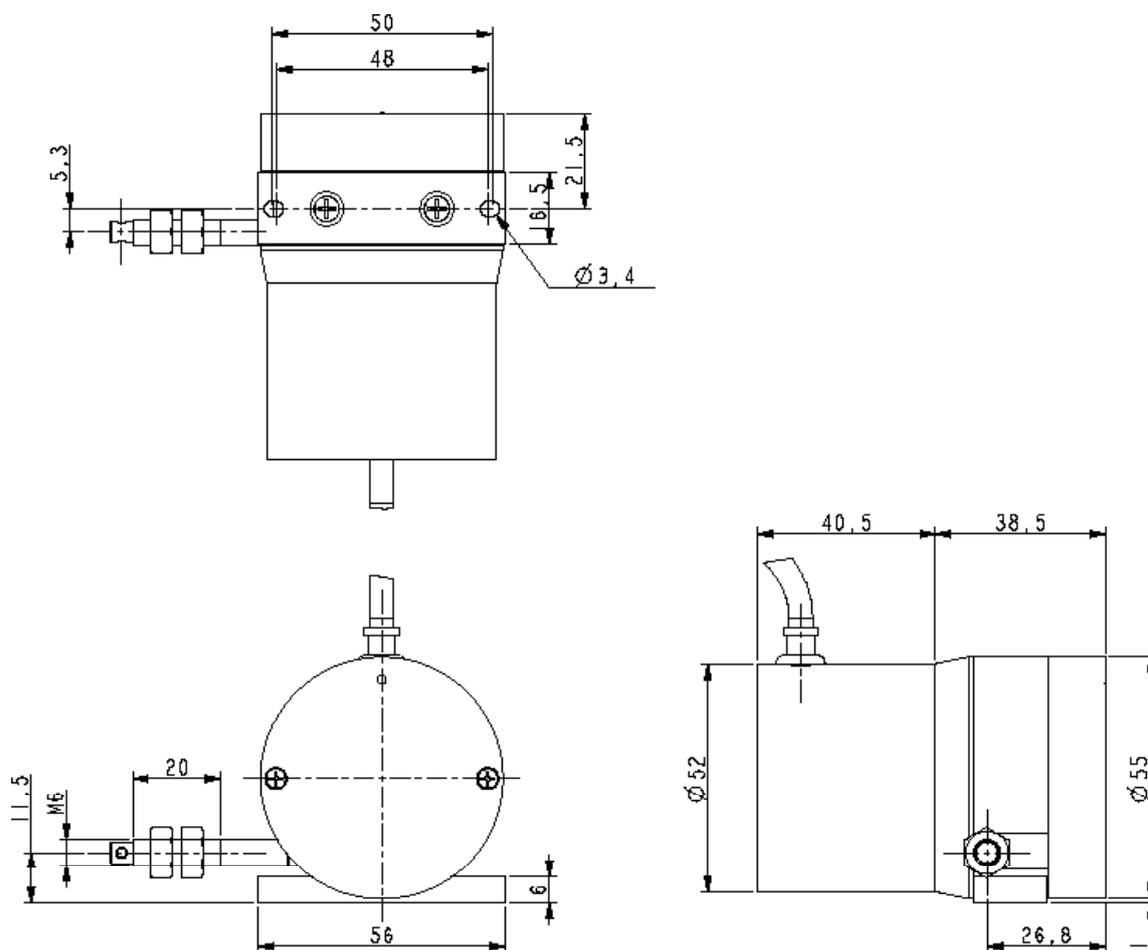
MATERIALS

Housing:	Aluminium
Wire:	Stainless steel

ELECTRICAL CONNECTIONS

1	Function
green	A (slider)
red	C+
black	C-

1 = cable LIKA 3x0,25 mm² (LIYCY)



SFP

Order code

SFP	-	XXXX Ⓐ	-	XX Ⓑ	-	XX Ⓒ
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<p>Ⓐ MEASURING LENGTH</p> <p>300 = 300 mm</p> <p>500 = 500 mm</p> <p>1000 = 1000 mm</p> <p>1500 = 1500 mm</p> <p>2000 = 2000 mm</p>	<p>Ⓑ POTENTIOMETER</p> <p>1 = 1 kΩ</p> <p>5 = 5 kΩ</p> <p>10 = 10 kΩ</p> <p>20 = 20 kΩ</p>	<p>Ⓒ CABLE LENGTH</p> <p>L2 = cable output 2 m</p> <p>L4 = cable output 4 m</p> <p>Lx = cable length on request</p>
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DRAW WIRE

Miniature draw wire encoder

Series

SFE



- Robust and space saving construction
- Integrated incremental encoder
- Measuring length up to 2000 mm



SFE

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range:	-25°C + 85°C (-13°F + 185°F)
Protection:	IP64

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Stroke per turn:	100 mm
Wire retraction force:	5 ÷ 15 N
Measuring length:	1500, 2000 mm
Measuring speed:	1 m/sec max.
Weight:	~ 0,2 kg
Connections:	cabl e 2,0 m

ELECTRICAL SPECIFICATIONS

Power supply:	+5Vdc +30Vdc
Output circuit:	Universal circuit PP/LD
Resolution:	1 / 0,5 / 0,4 / 0,05 mm
Output current:	40 mA max.
Input current:	60 mA max.
Output signals:	AB, /AB

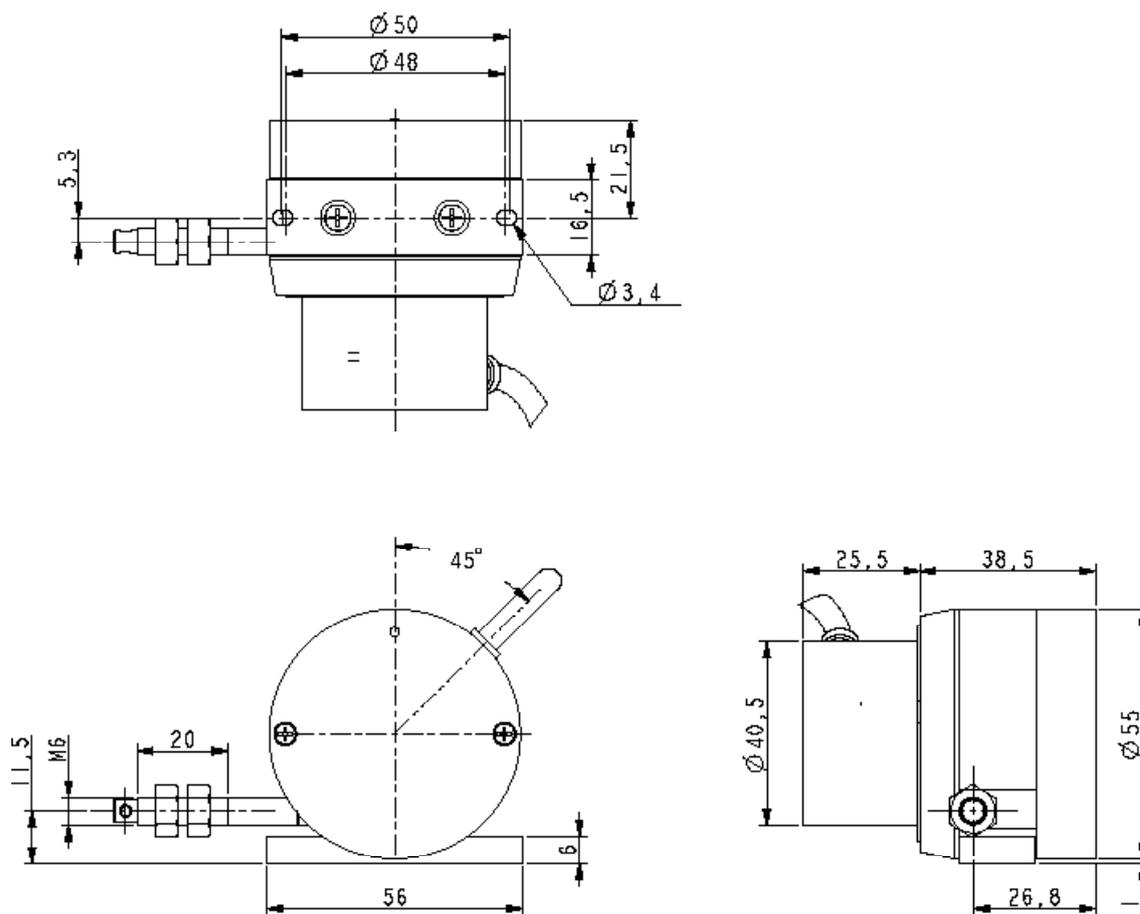
MATERIALS

Housing:	Aluminium + plastic
Wire:	stainless steel, non magnetic - UNI EN 4305

ELECTRICAL CONNECTIONS

1	Function
yellow	A
blue	/A
green	B
orange	/B
white	0
grey	/0
red	+Vdc
black	0Vdc GND

1 = Lika encoder cable I8 (8x0,25 mm²)



SFE

Order code

SFE	-	XXXX	-	X	-	XXX	-	X	-	XX
		Ⓐ		Ⓑ		Ⓒ		Ⓓ		Ⓔ

Ⓐ MEASURING LENGTH

1500 = 1500 mm
2000 = 2000 mm

Ⓑ OUTPUT CIRCUIT

H = PP/LD universal circuit

Ⓒ RESOLUTION

100 = 1 mm (x4 = 0,25 mm)
200 = 0,5 mm (x4 = 0,125 mm)
250 = 0,4 mm (x4 = 0,1 mm)
500 = 0,2 mm (x4 = 0,05 mm)

Ⓓ POWER SUPPLY

4 = +5Vdc +30Vdc

Ⓔ CONNECTIONS

L2 = 2 meters
L4 = 4 meters
Lx = cable length on request

DRAW WIRE

Miniature absolute draw wire encoder

Series

SFA



- Absolute draw-wire encoder
- Robust and compact design
- Resolution from 0.1 to 0.012 mm
- Measuring range 1000 and 2000 mm



SFA

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range:	-25°C + 85°C (-13°F + 185°F)
Protection:	IP64

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Stroke per turn:	100 mm
Wire retraction force:	5 ÷ 15 N
Measuring length:	1000, 2000 mm
Measuring speed:	1 m/sec max.
Weight:	~ 0,3 kg
Connections:	M12 8 pin plug, cable 2,0 m

ELECTRICAL SPECIFICATIONS

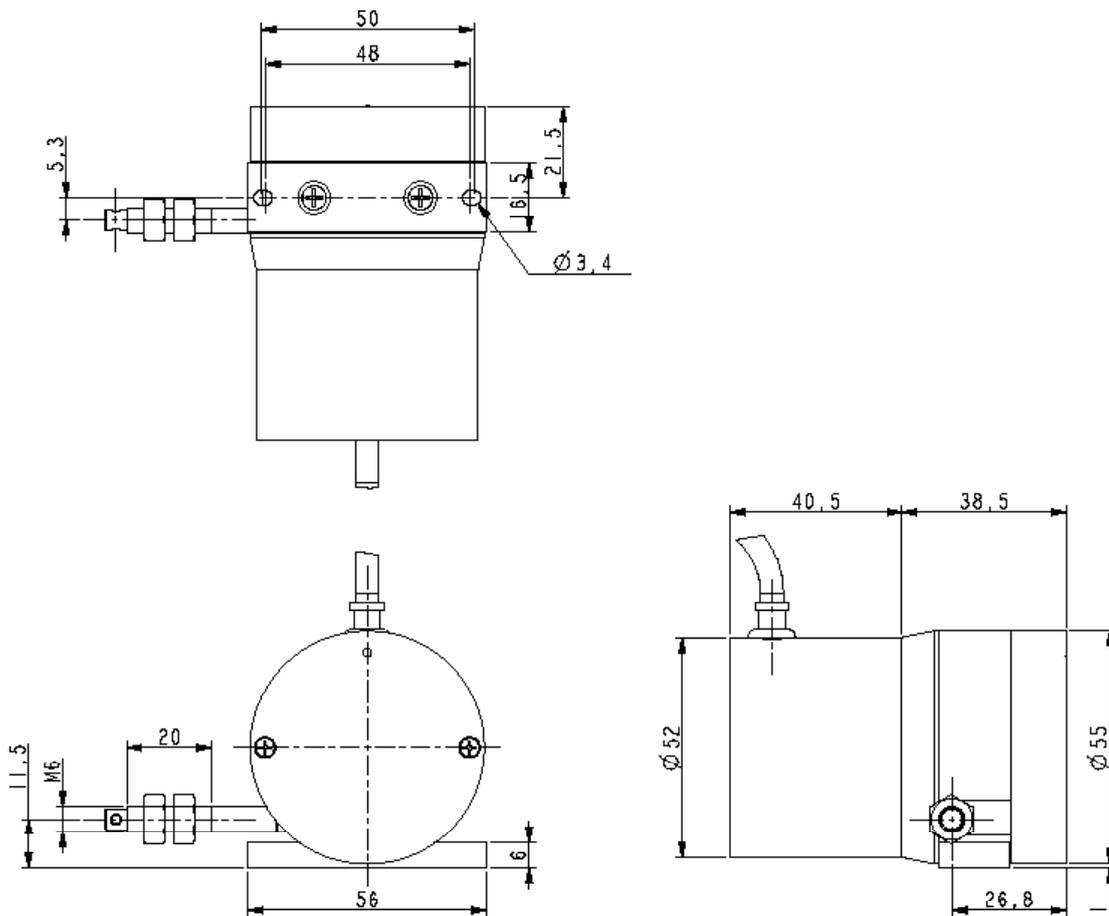
Resolution:	0.012, 0.025, 0.05, 0.1 mm
Output code:	Binary, Gray
Power supply:	+10Vdc +30Vdc
Power consumption:	25 mA max.
Output circuits:	SSI (25 bit, LSB aligned, clock 300 kHz max, Tp > 64 µsec)
Protection:	against inversion of polarity
EMC:	acc. to EN-61000-4-2/A1 EN-61000-4-4
Battery life:	10 years min.
Function:	Zero setting

MATERIALS

Housing:	non corroding, UNI EN AW-6082
Wire:	stainless steel, non magnetic - UNI EN 4305

ELECTRICAL CONNECTIONS

Function	M12 8-pin	M8 cable
0Vdc GND	1	Black
+10 +30Vdc	2	Red
Clock in +	3	Yellow
Clock in -	4	Blue
Data out +	5	Green
Data out -	6	Orange
Zero setting	7	White
n.c.	8	Grey
Shield	Shielded	Shielded



SFA

Order code

SFA	-	XXXX	-	XX	-	XXXX	-	XXX
		Ⓐ		Ⓑ		Ⓒ		Ⓓ

Ⓐ MEASURING LENGTH

1000 = 1000 mm
2000 = 2000 mm

Ⓑ OUTPUT CIRCUIT

BA = SSI, binary code, LSB aligned
GA = SSI, gray code, LSB aligned

Ⓒ RESOLUTION

8192 = 0.012 mm
4000 = 0.025 mm
2000 = 0.05 mm
1000 = 0.1 mm

Ⓓ CONNECTIONS

L2 = 2 meters
Lx = cable length on request
M0,5 = 0.5 m cable + M12 8 pin inline connector
M2 = 2 m cable + M12 8 pin inline connector

DRAW WIRE

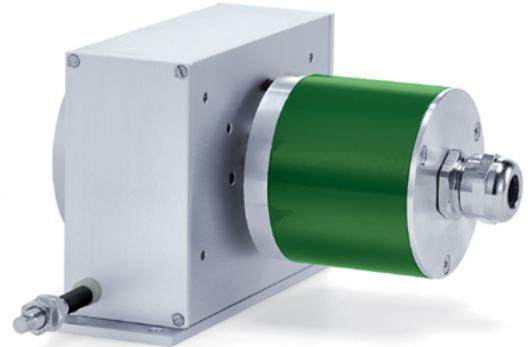
Draw wire support for encoders

Series

SF-I • SF-A



- Compact and cost effective draw-wire unit for encoders
- Simple and reliable construction
- Fits incremental, absolute, analogue & fieldbus encoder
- Measurement range from 5000 to 6800 mm
- Drum circumference:
 - 200,0 mm for incremental encoder
 - 204,8 mm for absolute encoders



SF-I
SF-A

COMBINATIONS WITH ENCODERS

SF-I + CK58-H-500ZCU415R:	Incremental encoder, resolution 0,1 mm (after x 4)
SF-I + CK58-H-2000ZCU415R:	Incremental encoder, resolution 0,1 mm
SF-A + EMC5812/4096GS-15-RM2+EPFL121H:	SSI absolute encoder, resolution 0,05 mm
SF-A + EMC5812/16384PA-15-RM2:	Programmable analogue encoder
SF-A + AMC5812/4096PB-15 + CC-PB:	Profibus absolute encoder

ENVIRONMENTAL SPECIFICATIONS

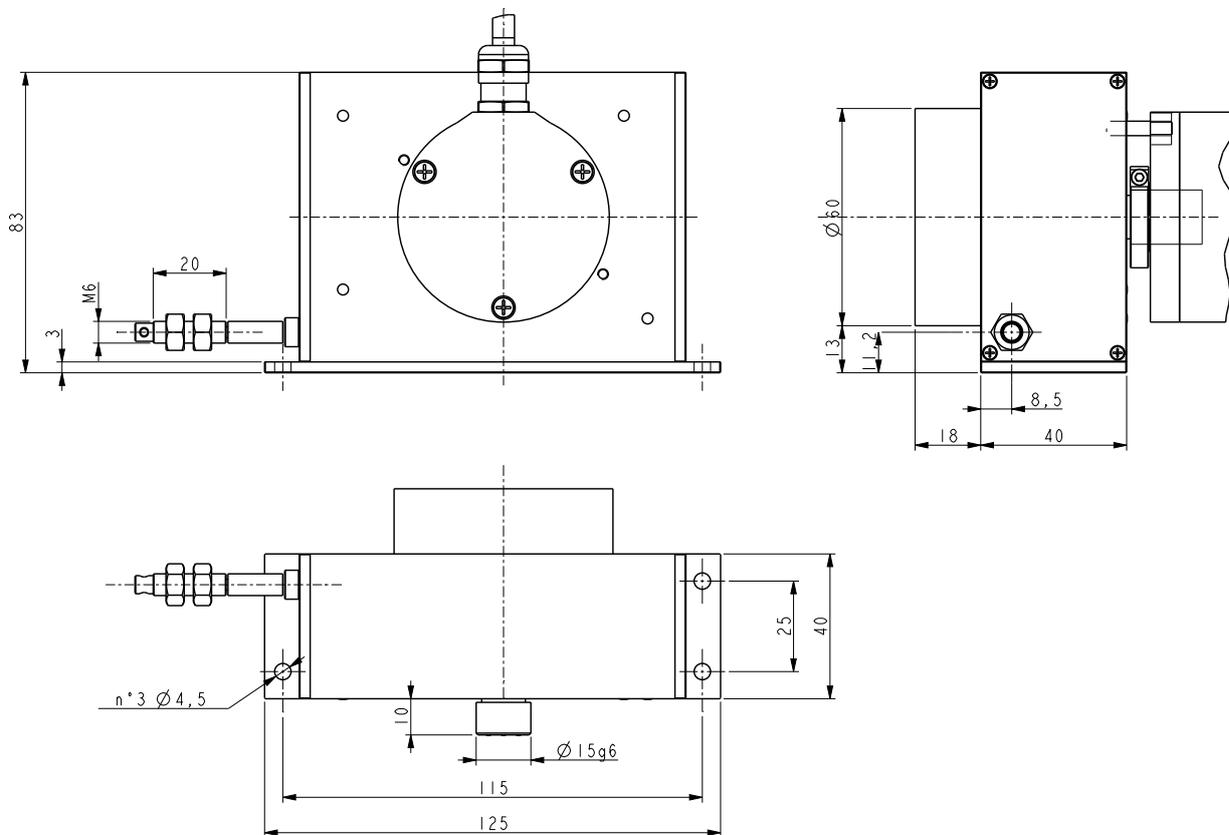
Operating temperature range:	-25°C +85°C (-13°F +158°F)
Protection:	see encoder

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Stroke per turn:	200 - 204,8 mm
Wire retraction force:	5 ÷ 15 N
Measuring length:	5000, 6800 mm
Measuring speed:	3 m/sec max.
Repeat accuracy:	± 0.15 mm
Weight:	~ 0,6 kg (without encoder)

MATERIALS

Housing:	anodized, UNI EN AW-6082
Wire:	stainless steel, non magnetic - UNI EN 4305



SF-I
SF-A

Order code

SF	-	X ⓐ	-	XXXX ⓑ
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ⓐ STROKE PER TURN

I = 200 mm (for incremental encoders)
A = 204,8 mm (for absolute encoders)

ⓑ MEASURING LENGTH

5000 = 5000 mm
6800 = 6800 mm

DRAW WIRE

Draw-wire support for incremental & absolute encoders

Series

SAK



- 10 or 15 m measurement length
- Robust aluminium housing with optional anticorrosive surface treatment
- Forced wire guidance and one layer winding
- ATEX encoder on request



SAK

SUITABLE ENCODERS

I58-H-3000ZCU46RL2:	Incremental encoder, 0.1 mm resolution, cable output
I58-H-3000ZCZ46R + EPFL121:	Incremental encoder, 0.1 mm resolution, connector output
HM5818/16384-PS-6:	Programmable SSI encoder, res. up to 0,01 mm
EM58 TA:	Programmable analogue output
AM5812/4096PB-6 + CC-PB:	AM5812/4096PB-6 + CC-PB

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range:	-25° +85°C (-13°F +185°F)
Protection:	see encoder

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Stroke per turn:	300 mm
Wire retraction force:	10 ÷ 15 N
Measuring length:	10.000, 15.000 mm
Measuring speed:	10 m/sec max.
Acceleration:	4 m/s ² max.
Linearity:	± 0,05% FS max.
Weight:	~ 6-8 kg (without encoder)

MATERIALS

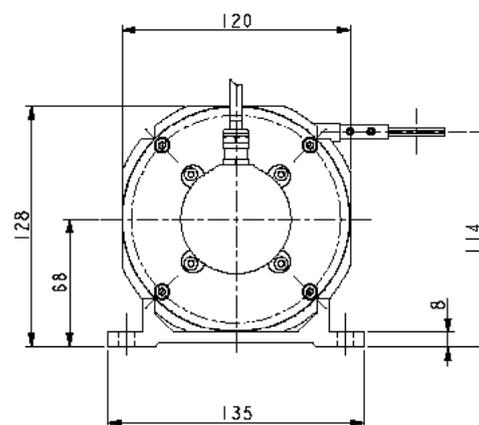
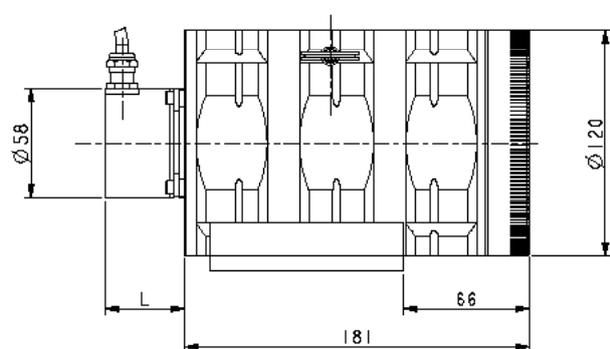
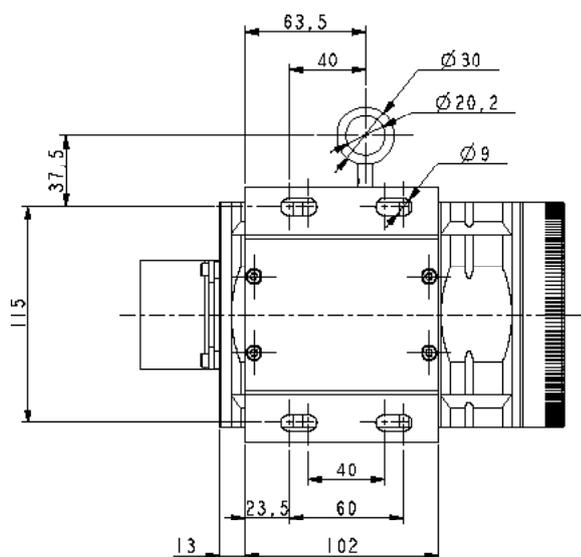
Housing:	Aluminium
Wire:	Stainless steel, ø 0,9 mm

Order code

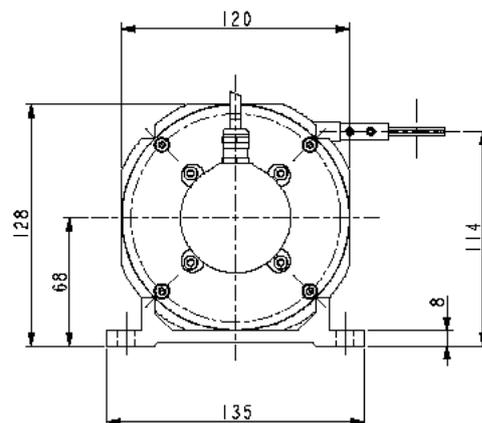
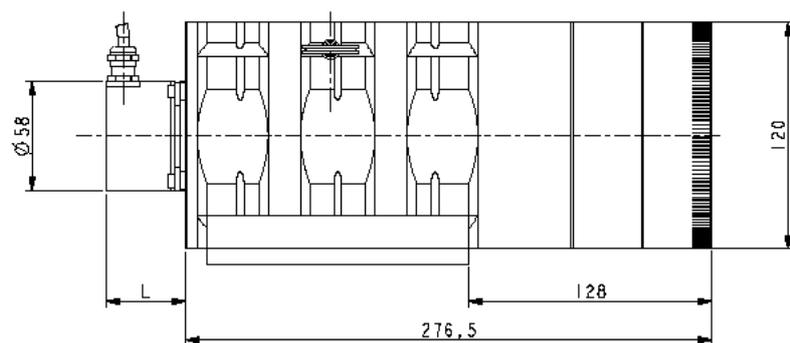
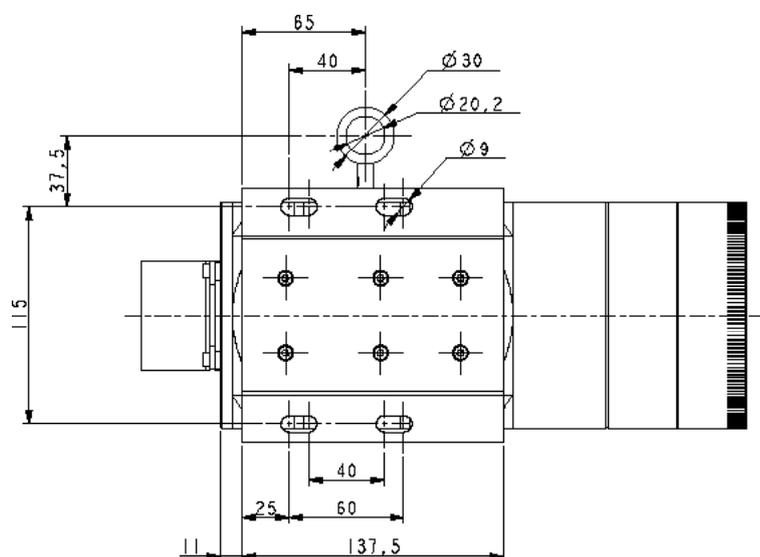
SAK	-	XXXXX Ⓐ
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Ⓐ MEASURING LENGTH

10000 = 10000 mm
15000 = 15000 mm



SAK-10000



SAK-15000

DRAW WIRE

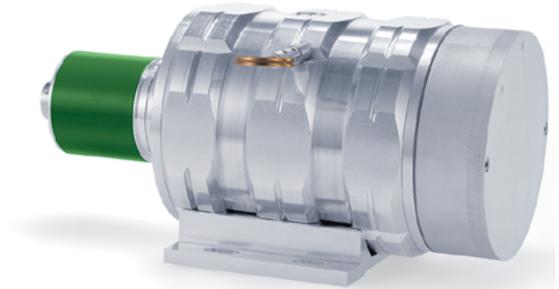
Draw-wire support for incremental & absolute encoders

Series

SBK



- From 20 to 50 m measurement length
- Robust aluminium housing
- Forced wire guidance and one-layer winding
- ATEX encoder on request
- Fits any encoders with servoflange



SBK

SUITABLE ENCODERS

I58-H-5000ZCU46RL2:	Incremental encoder, 0.1 mm resolution, cable output
I58-H-5000ZCZ46R + EPFL121:	Incremental encoder, 0.1 mm resolution, connector output
HM5818/16384-PS-6:	Programmable SSI encoder, res. up to 0,01 mm
EM58 TA:	Programmable analogue output
AM5812/4096PB-6 + CC-PB:	AM5812/4096PB-6 + CC-PB

ENVIRONMENTAL SPECIFICATIONS

Operating temperature range:	-25° +85°C (-13°F +185°F)
Protection:	see encoder

MECHANICAL SPECIFICATIONS

Dimensions:	see drawing
Stroke per turn:	500 mm
Wire retraction force:	10 ÷ 30 N
Measuring length:	20.000, 30.000, 40.000, 50.000 mm
Measuring speed:	10 m/sec max.
Acceleration:	2 m/s ² max. (20, 30 m versions) 1 m/s ² max. (40, 50 m versions)
Linearity:	± 0,05% FS max.
Weight:	~ 12-13 kg (without encoder)

MATERIALS

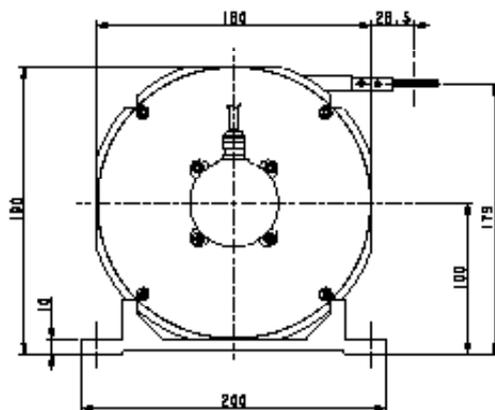
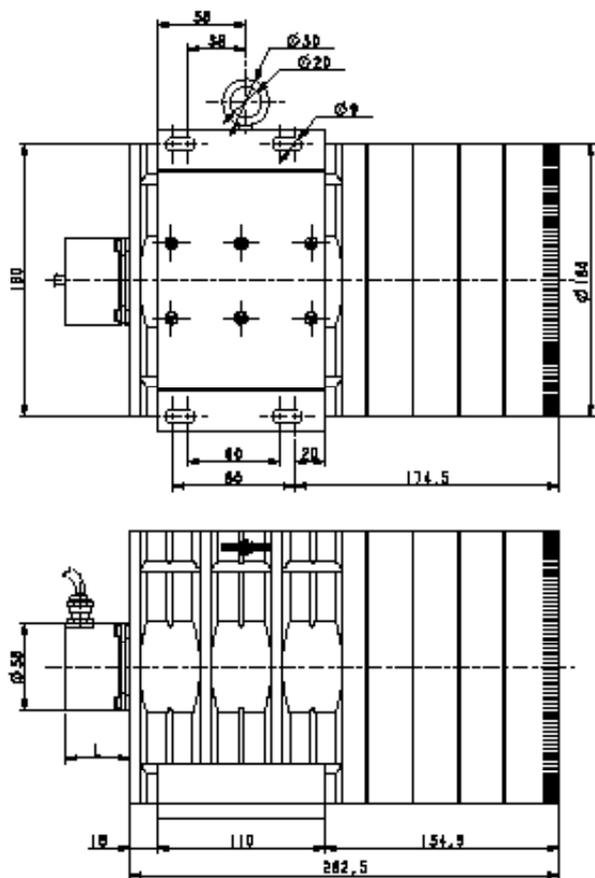
Housing:	Aluminium
Wire:	Stainless steel, ø 0,9 mm

Order code

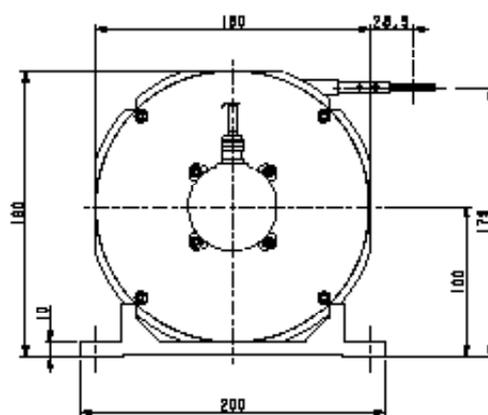
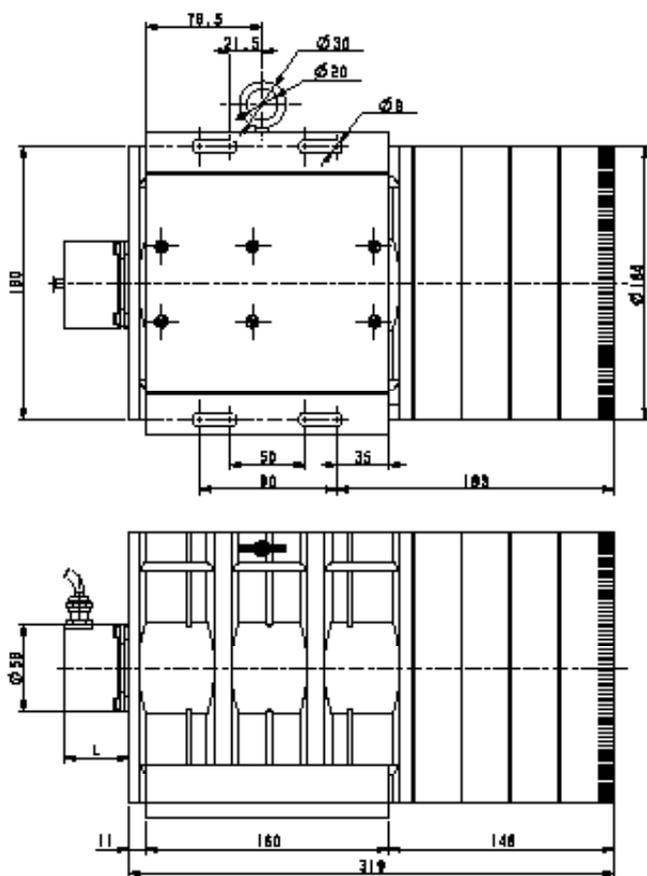
SBK	-	XXXXX ⓐ
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ⓐ MEASURING LENGTH

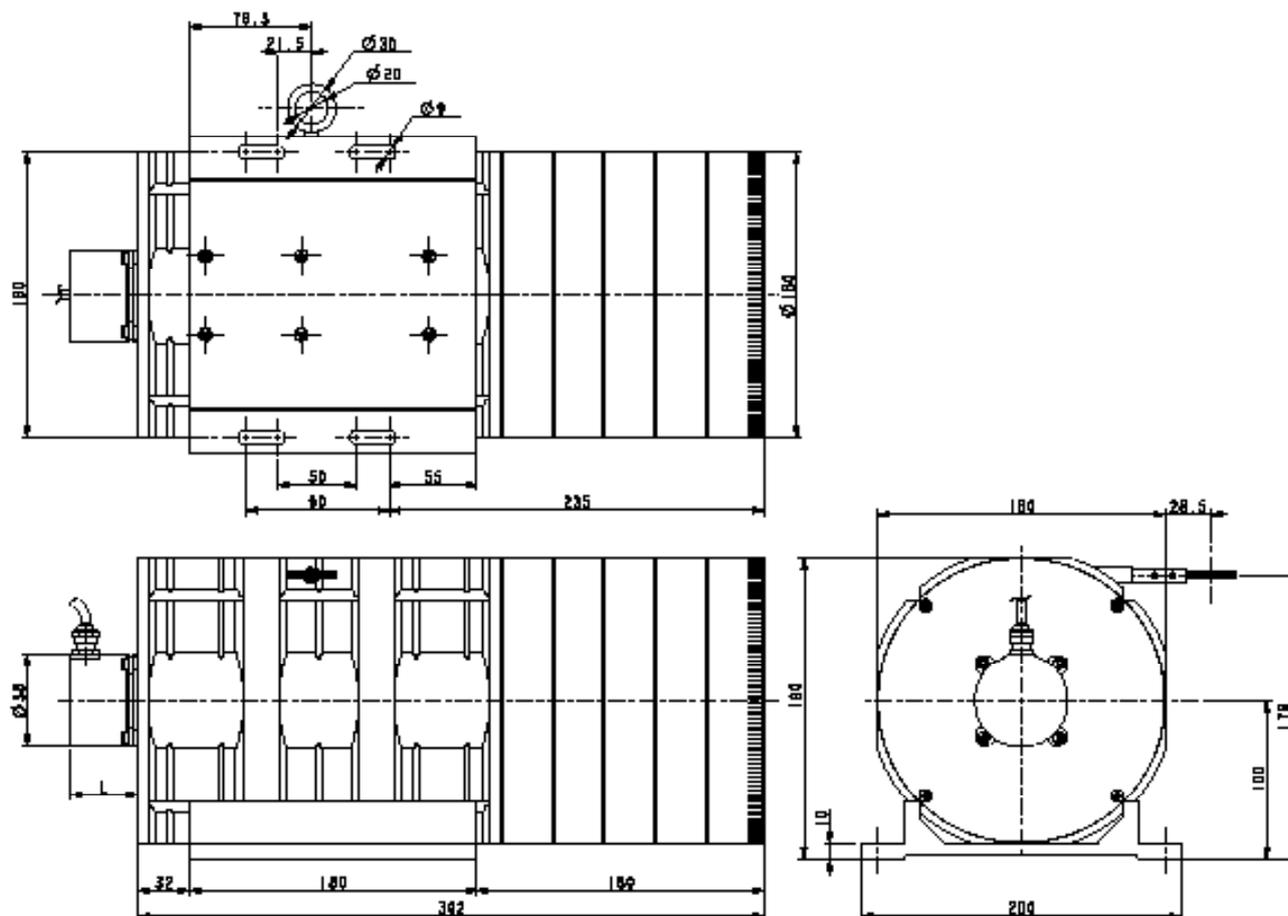
20000 = 20000 mm
30000 = 30000 mm
40000 = 40000 mm
50000 = 50000 mm



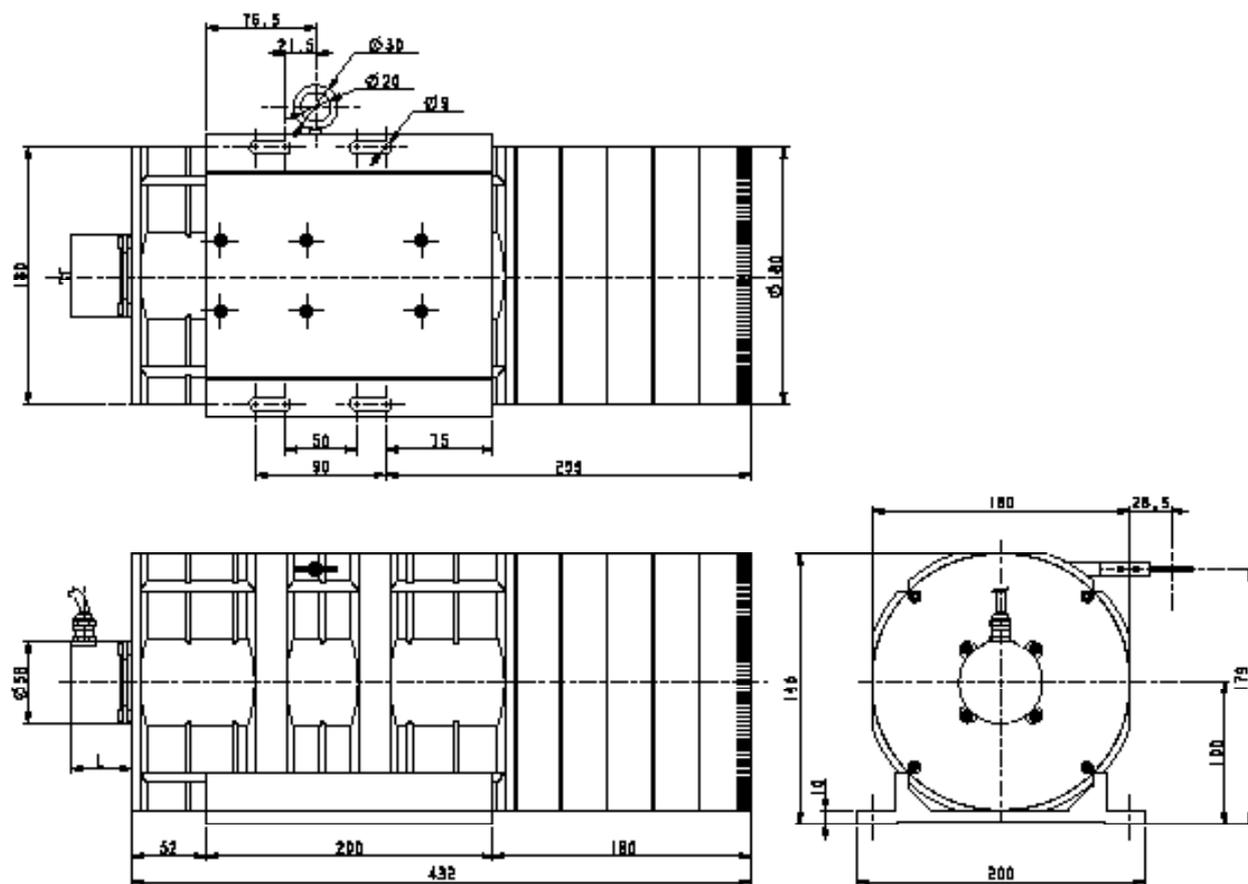
SBK-20000



SBK-30000



SBK-40000



SBK-50000



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