

MotoSuiveur Solutions

Datasheets

November 2021



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**Speed closed-loop monitoring and analysis
+ Emergency braking**

THE OLD WAY

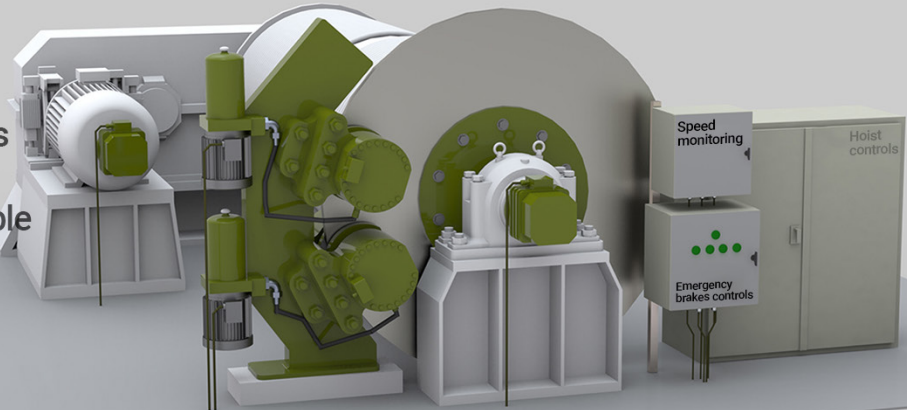
Inherent reaction delays

Multiple electronic sensors, switches, hydraulics and wear parts

Braking torque is unreliable as it depends on dust, humidity, temperature, maintenance, etc.

Frequent maintenance downtime

Bulky, complex, heavy



THE NEW WAY

MotoSuiveur™ Solution

Inherently safe sensor-less design makes any hoist fail-safe

Incredible 20 mm load arrest distance

100x shorter than "speed monitoring + emergency braking" systems

Light maintenance

Hermetically closed design
No wear parts

Easy and quick retrofit

Compact form factor
Delivered configured and tested



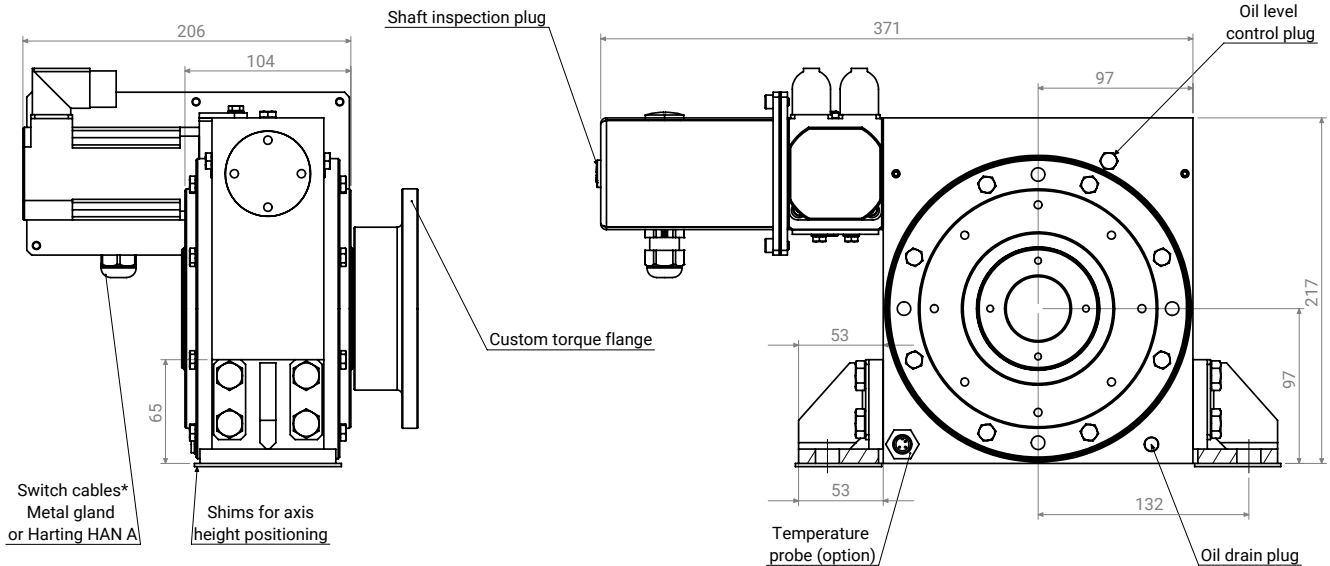


Model **motosuiveur UNIT**
MS0LFFC2F1

Rev. 09022022

Configuration

size	0
type	Passive friction (F)
mounting type	Foot mounted bearing (F)
lowering rot. dir.	Clockwise (C)
reaction pos.	(2)
driving	Torque flange (F)
motor pos.	(1)
load recovery	x
recovery pos.	x



Arrest torque calculation

$$C_{MS} \geq 1.4 \times C_S$$

(C_S : Static torque at the hoist drum)

Max. arrest torque (C_{MS})	Nm	2,400
Max. drum speed	rpm	80
Worm / worm wheel ratio		45
IP rating		IP65
Operational ambient temp. limit		-10°C
Servomotor power supply options		400VAC, three phases 230VAC, single phase 48VDC

Dimensions

L x W x H = 371 x 206 x 217 mm

Max. weight (this configuration)	kg	24
Oil volume	L	0.3
Control cabinet dimensions	mm	400 x 400 x 200

Torque flange

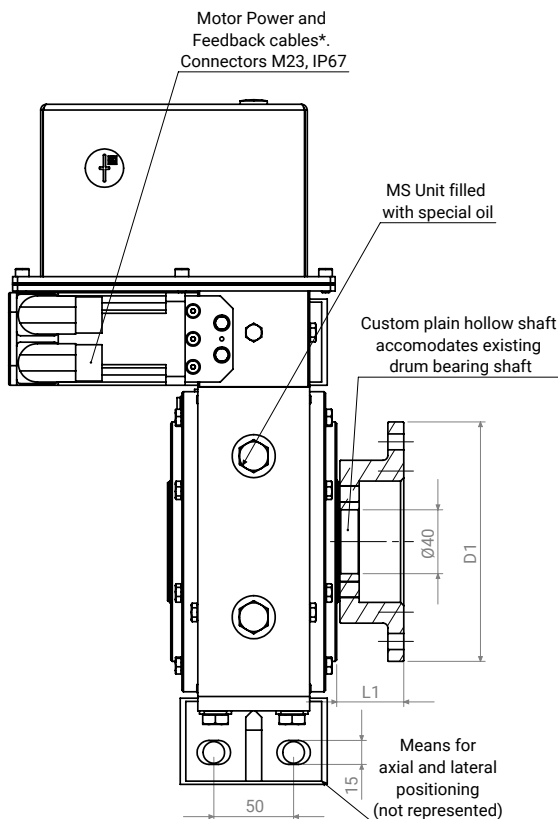
D1	mm	Custom
L1	mm	Custom

Drum bearing

Vertical capacity (up&down)	N	33,500
Horiz. lateral capacity	N	16,750
Horiz. axial capacity (locating)	N	6,700
Angular accommodation	°	±3

Mounting studs

Quantity		4
Size		M12



* All cables go to MotoSuiveur control cabinet



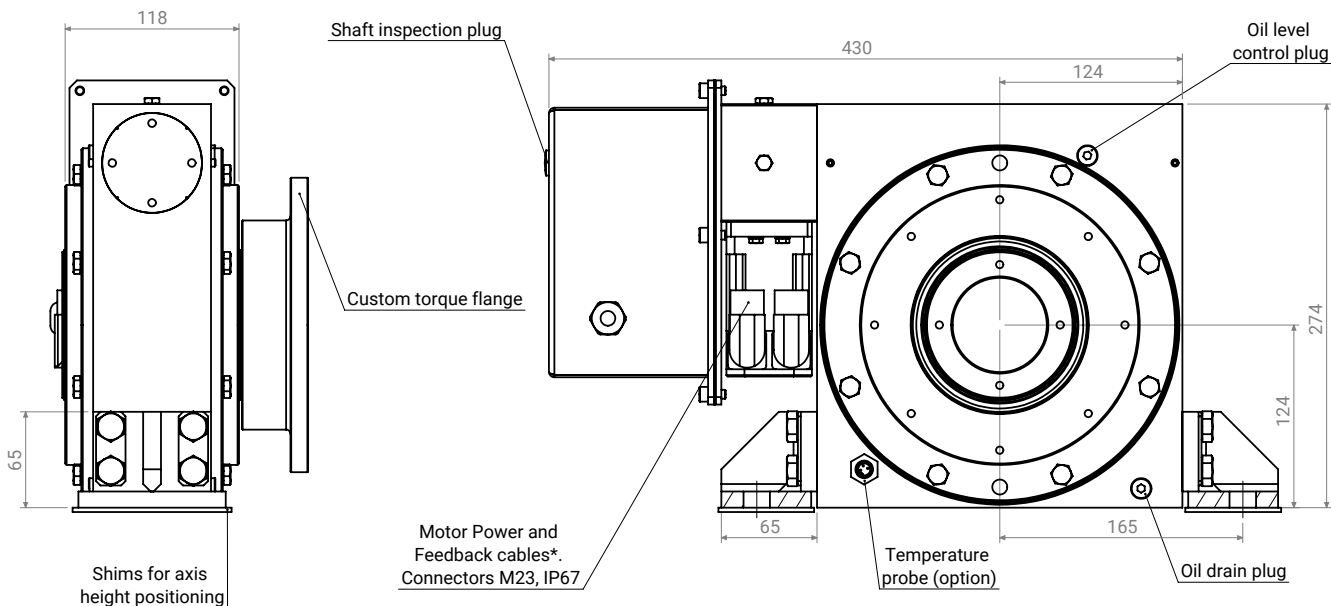
motosuiveur UNIT
MS1LFFC2F1

Model

Rev. 09022022

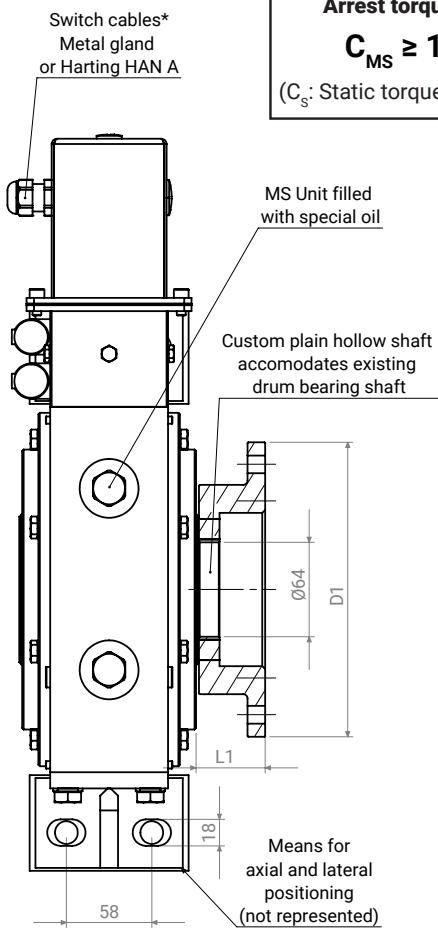
Configuration

size	1
type	Passive friction (F)
mounting type	Foot mounted bearing (F)
lowering rot. dir.	Clockwise (C)
reaction pos.	(2)
driving	Torque flange (F)
motor pos.	(1)
load recovery	x
recovery pos.	x



Arrest torque calculation
 $C_{MS} \geq 1.4 \times C_S$
(C_S : Static torque at the hoist drum)

Max. arrest torque** (C_{MS})	Nm	6,100
Max. drum speed	rpm	72
Worm / worm wheel ratio		45
IP rating		IP65
Operational ambient temp. limit		-10°C
Servomotor power supply options		400VAC, three phases 230VAC, single phase 48VDC



Dimensions
L x W x H = 430 x 118 x 274 mm

Max. weight (this configuration)	kg	55
Oil volume	L	0.7
Control cabinet dimensions	mm	400 x 400 x 200

Torque flange		
D1	mm	Custom
L1	mm	Custom

Drum bearing		
Vertical capacity (up&down)	N	54,000
Horiz. lateral capacity	N	27,000
Horiz. axial capacity (locating)	N	10,800
Angular accomodation	°	±3

Mounting studs		
Quantity		4
Size		M14

* All cables go to MotoSuiveur control cabinet
** for required C_{MS} lower than 2,400 Nm, consider MS0F Unit models.



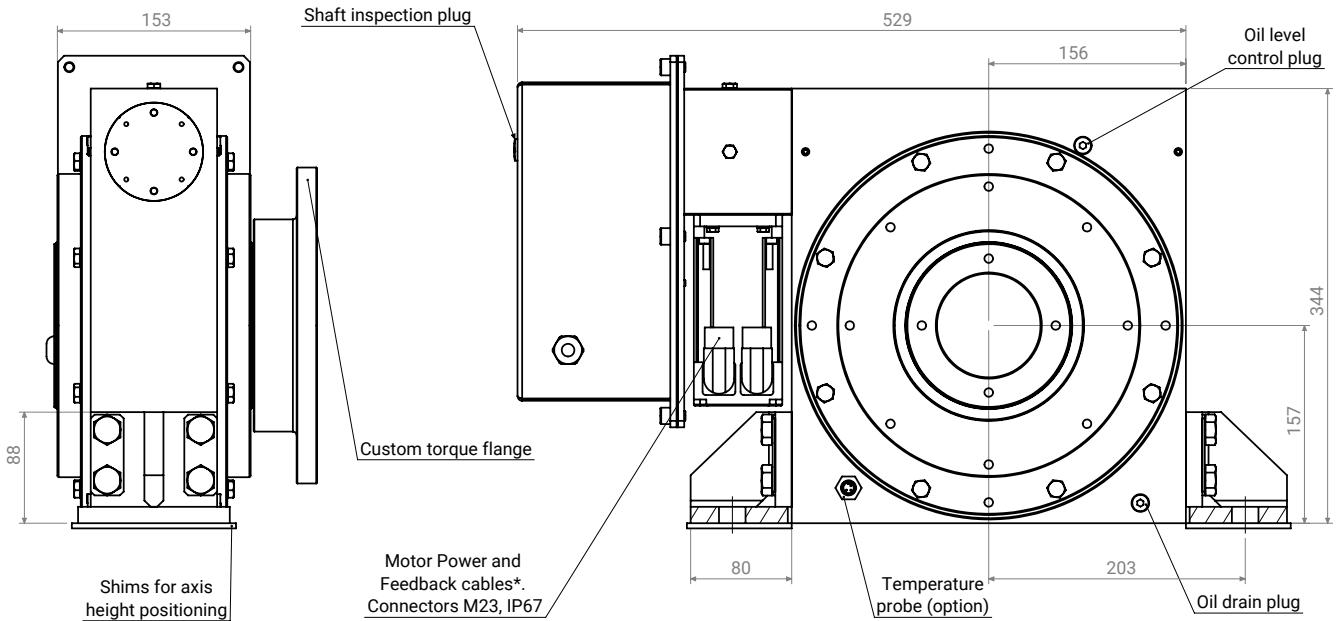
motosuiveur UNIT
MS2LFFC2F1

Model

Rev. 09022022

Configuration

size	2
type	Passive friction (F)
mounting type	Foot mounted bearing (F)
lowering rot. dir.	Clockwise (C)
reaction pos.	(2)
driving	Torque flange (F)
motor pos.	(1)
load recovery	x
recovery pos.	x



Switch cables*
Metal gland
or Harting HAN A

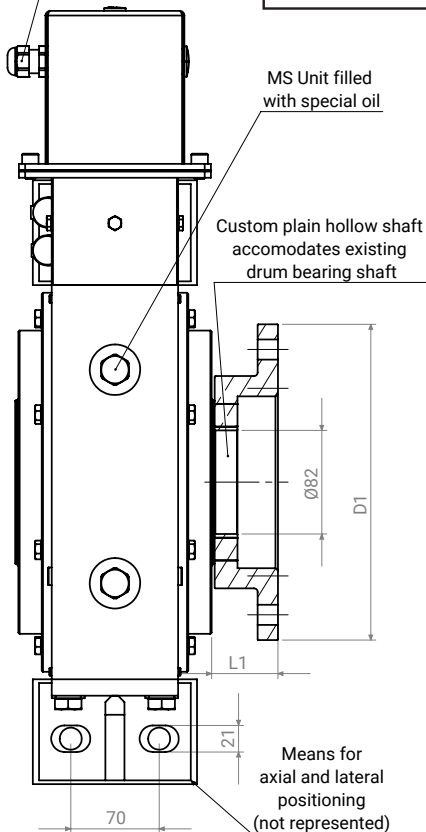
Arrest torque calculation

$$C_{MS} \geq 1.4 \times C_S$$

(C_S : Static torque at the hoist drum)

MS Unit filled
with special oil

Custom plain hollow shaft
accommodates existing
drum bearing shaft



Max. arrest torque** (C_{MS})	Nm	12,600
Max. drum speed	rpm	66
Worm / worm wheel ratio		45
IP rating		IP65
Operational ambient temp. limit		-10°C
Servomotor power supply options		400VAC, three phases 230VAC, single phase 48VDC

Dimensions

L x W x H = 529 x 153 x 344 mm

Max. weight (this configuration)	kg	110
Oil volume	L	1.3
Control cabinet dimensions	mm	400 x 400 x 200

Torque flange

D1	mm	Custom
L1	mm	Custom

Drum bearing

Vertical capacity (up&down)	N	101,000
Horiz. lateral capacity	N	50,500
Horiz. axial capacity (locating)	N	20,200
Angular accomodation	°	±3

Mounting studs

Quantity		4
Size		M16

* All cables go to MotoSuiveur control cabinet
** for required C_{MS} lower than 6,100 Nm, consider MS1F Unit models.



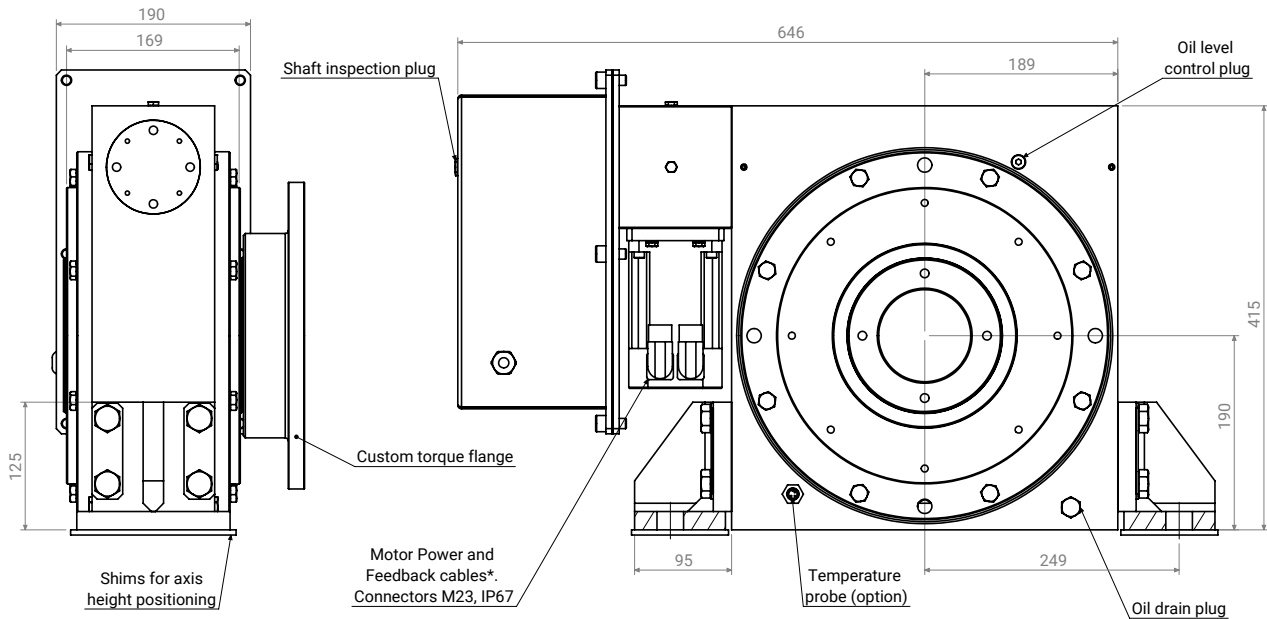
motosuiveur UNIT
MS3LFFC2F1

Model

Rev. 09022022

Configuration

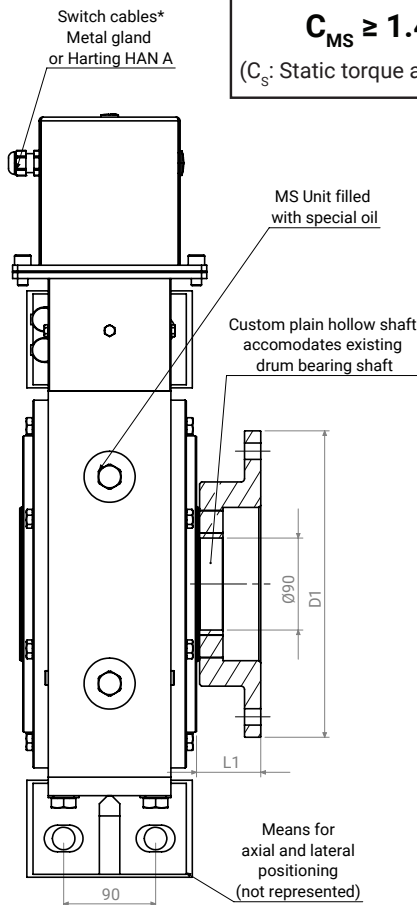
size	3
type	Passive friction (F)
mounting type	Foot mounted bearing (F)
lowering rot. dir.	Clockwise (C)
reaction pos.	(2)
driving	Torque flange (F)
motor pos.	(1)
load recovery	x
recovery pos.	x



Arrest torque calculation

$$C_{MS} \geq 1.4 \times C_S$$

(C_S : Static torque at the hoist drum)



Max. arrest torque** (C_{MS})	Nm	23,000
Max. drum speed	rpm	60
Worm / worm wheel ratio		45
IP rating		IP65
Operational ambient temp. limit		-10°C
Servomotor power supply options		400VAC, three phases 230VAC, single phase 48VDC
Dimensions		
L x W x H = 646 x 190 x 415 mm		
Max. weight (this configuration)	kg	185
Oil volume	L	2.3
Control cabinet dimensions	mm	400 x 400 x 200
Torque flange		
D1	mm	Custom
L1	mm	Custom
Drum bearing		
Vertical capacity (up&down)	N	124,000
Horiz. lateral capacity	N	62,000
Horiz. axial capacity (locating)	N	24,800
Angular accomodation	°	±3
Mounting studs		
Quantity		4
Size		M20

* All cables go to MotoSuiueur control cabinet

** for required C_{MS} lower than 12,600 Nm, consider MS2F Unit models.



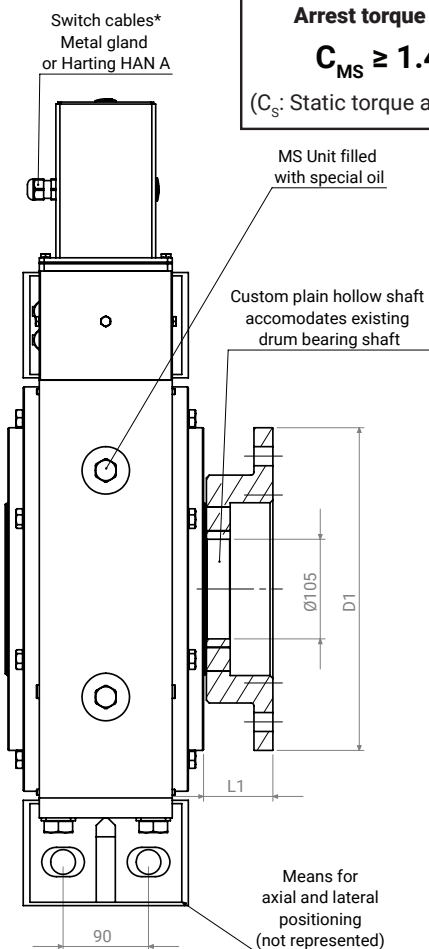
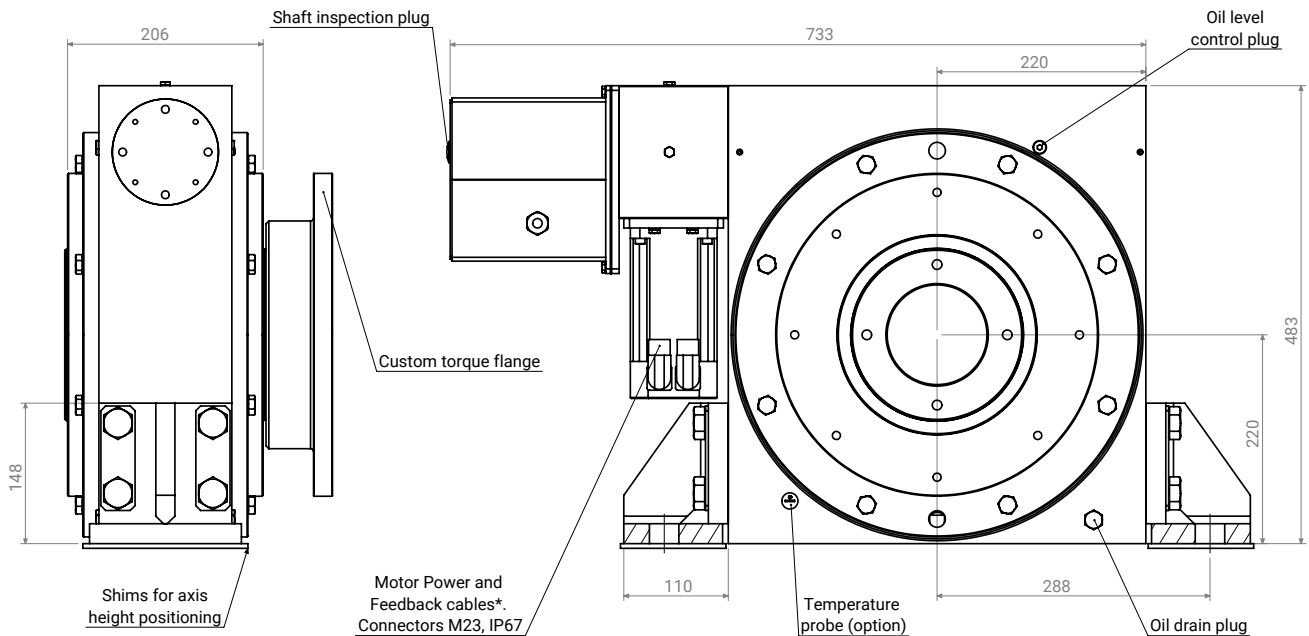
motosuiveur UNIT
MS4LFFC2F1

Model

Rev. 09022022

Configuration

size	4
type	Passive friction (F)
mounting type	Foot mounted bearing (F)
lowering rot. dir.	Clockwise (C)
reaction pos.	(2)
driving	Torque flange (F)
motor pos.	(1)
load recovery	x
recovery pos.	x



Arrest torque calculation
 $C_{MS} \geq 1.4 \times C_S$
(C_S : Static torque at the hoist drum)

Max. arrest torque** (C_{MS})	Nm	40,000
Max. drum speed	rpm	50
Worm / worm wheel ratio		45
IP rating		IP65
Operational ambient temp. limit		-10°C
Servomotor power supply options		400VAC, three phases 230VAC, single phase 48VDC

Dimensions

L x W x H = 733 x 206 x 483 mm

Max. weight (this configuration)	kg	295
Oil volume	L	3.7
Control cabinet dimensions	mm	600 x 400 x 200

Torque flange

D1	mm	Custom
L1	mm	Custom

Drum bearing

Vertical capacity (up&down)	N	199,000
Horiz. lateral capacity	N	99,500
Horiz. axial capacity (locating)	N	39,800
Angular accomodation	°	±3

Mounting studs

Quantity		4
Size		M24

* All cables go to MotoSuiveur control cabinet
** for required C_{MS} lower than 23,000 Nm, consider MS3F Unit models.



Series

MS5F
motosuiveur

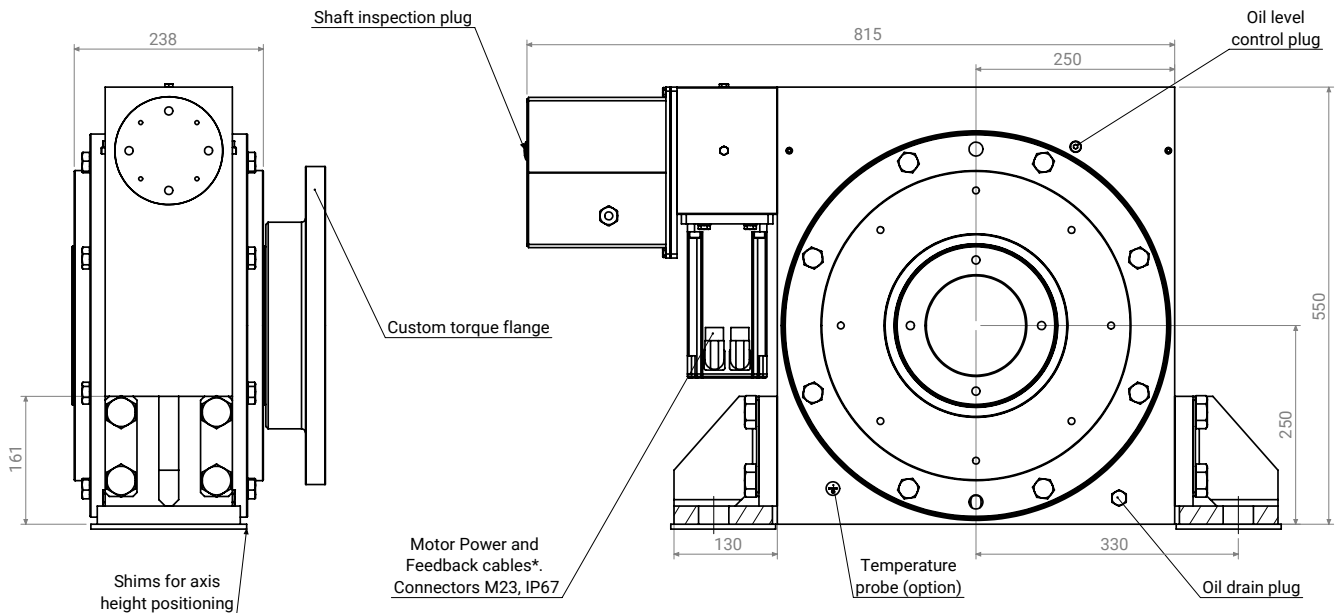
Model

motosuiveur UNIT
MS5LFFC2F1

Rev. 09022022

Configuration

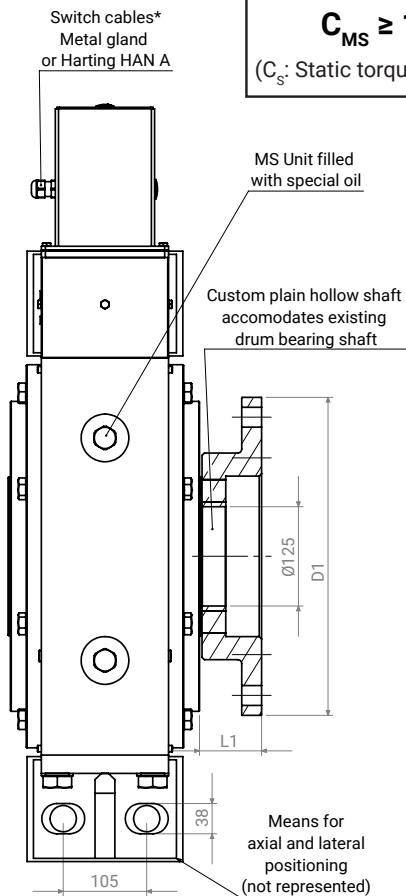
size	5
type	Passive friction (F)
mounting type	Foot mounted bearing (F)
lowering rot. dir.	Clockwise (C)
reaction pos.	(2)
driving	Torque flange (F)
motor pos.	(1)
load recovery	x
recovery pos.	x



Arrest torque calculation

$$C_{MS} \geq 1.4 \times C_S$$

(C_S : Static torque at the hoist drum)



Max. arrest torque** (C_{MS})	Nm	63,600
Max. drum speed	rpm	40
Worm / worm wheel ratio		45
IP rating		IP65
Operational ambient temp. limit		-10°C
Servomotor power supply options		400VAC, three phases 230VAC, single phase 48VDC

Dimensions

L x W x H = 815 x 238 x 550 mm

Max. weight (this configuration)	kg	430
Oil volume	L	5.5
Control cabinet dimensions	mm	600 x 400 x 200

Torque flange

D1	mm	Custom
L1	mm	Custom

Drum bearing

Vertical capacity (up&down)	N	243,000
Horiz. lateral capacity	N	121,500
Horiz. axial capacity (locating)	N	48,600
Angular accomodation	°	±3

Mounting studs

Quantity		4
Size		M30

* All cables go to MotoSuiveur control cabinet

** for required C_{MS} lower than 40,000 Nm, consider MS4F Unit models.



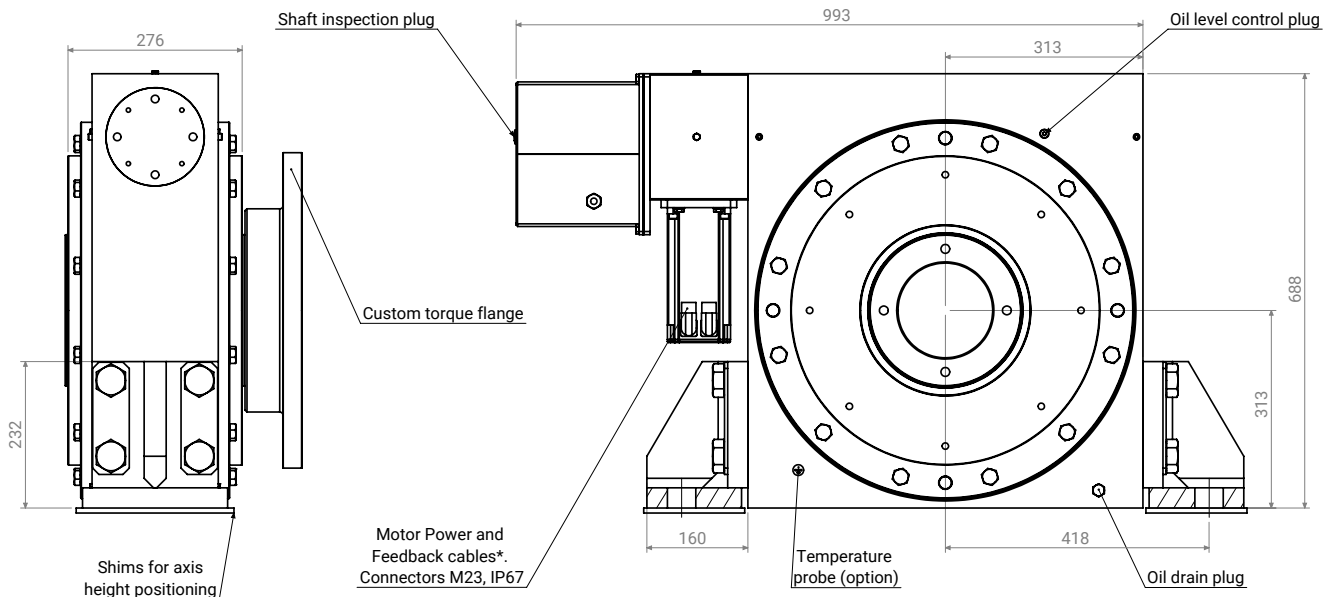
motosuiveur UNIT
MS6LFFC2F1

Model

Rev. 09022022

Configuration

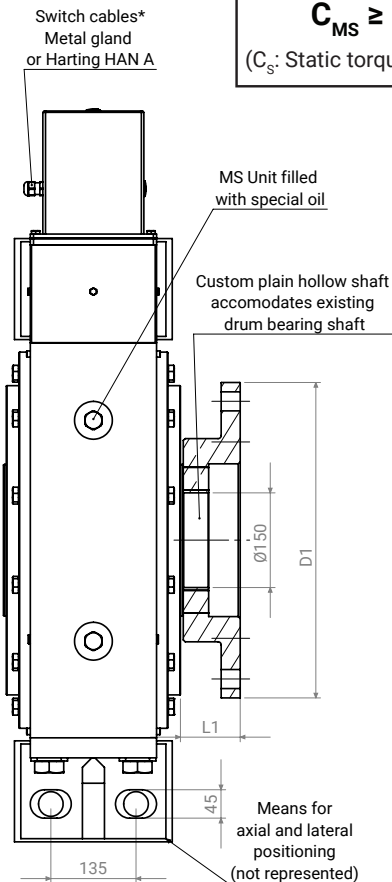
size	6
type	Passive friction (F)
mounting type	Foot mounted bearing (F)
lowering rot. dir.	Clockwise (C)
reaction pos.	(2)
driving	Torque flange (F)
motor pos.	(1)
load recovery	x
recovery pos.	x



Arrest torque calculation

$$C_{MS} \geq 1.4 \times C_S$$

(C_S : Static torque at the hoist drum)



Max. arrest torque** (C_{MS})	Nm	130,200
Max. drum speed	rpm	30
Worm / worm wheel ratio		45
IP rating		IP65
Operational ambient temp. limit		-10°C
Servomotor power supply options		400VAC, three phases 230VAC, single phase 48VDC

Dimensions

L x W x H = 993 x 276 x 688 mm

Max. weight (this configuration)	kg	850
Oil volume	L	10.7
Control cabinet dimensions	mm	600 x 600 x 250

Torque flange

D1	mm	Custom
L1	mm	Custom

Drum bearing

Vertical capacity (up&down)	N	315,000
Horiz. lateral capacity	N	157,500
Horiz. axial capacity (locating)	N	63,000
Angular accommodation	°	±3

Mounting studs

Quantity		4
Size		M36

* All cables go to MotoSuiveur control cabinet
** for required C_{MS} lower than 63,600 Nm, consider MS5F Unit models.



Series

MS7F
motosuiveur

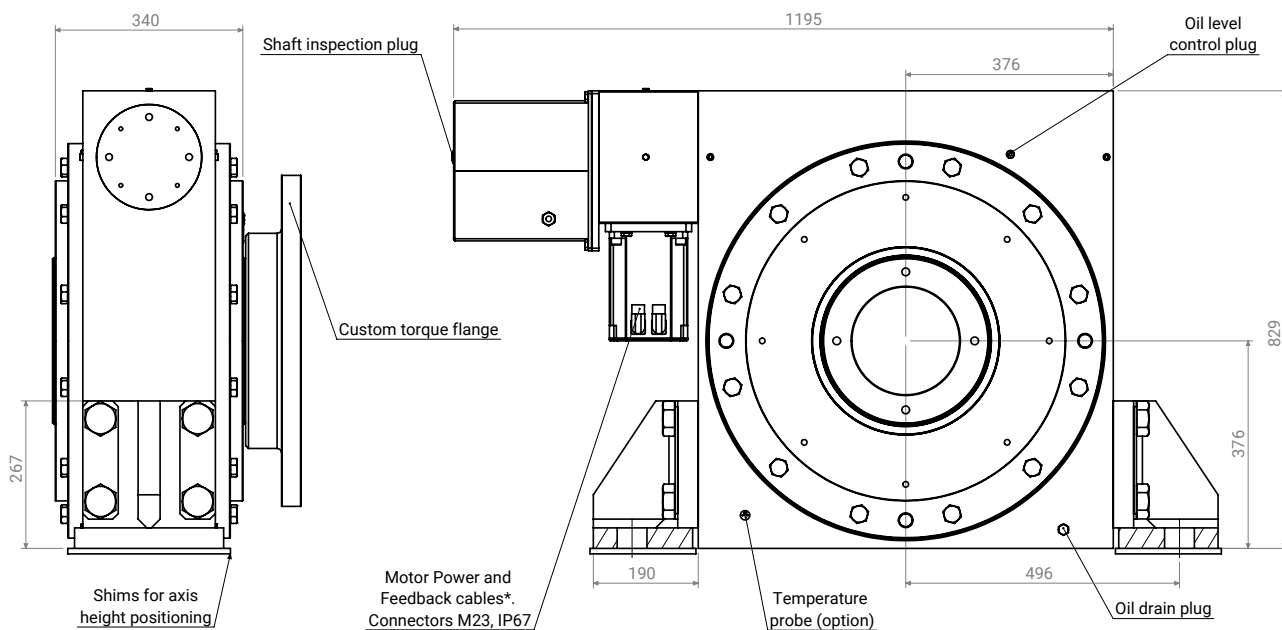
Model

motosuiveur UNIT
MS7LFFC2F1

Rev. 09022022

Configuration

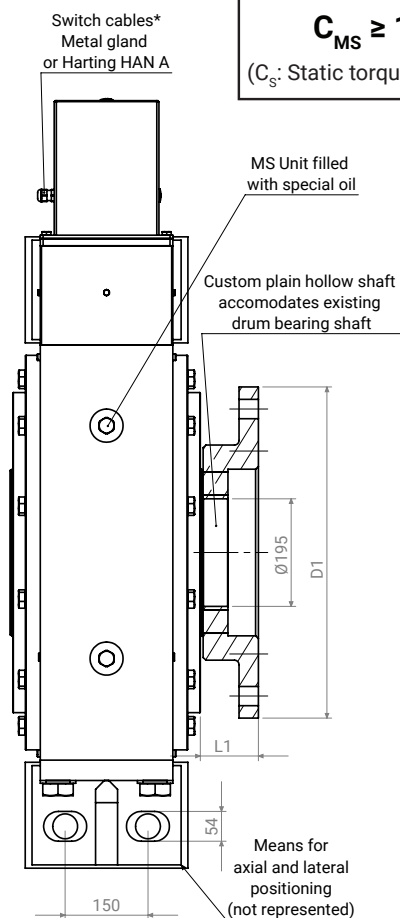
size	7
type	Passive friction (F)
mounting type	Foot mounted bearing (F)
lowering rot. dir.	Clockwise (C)
reaction pos.	(2)
driving	Torque flange (F)
motor pos.	(1)
load recovery	x
recovery pos.	x



Arrest torque calculation

$$C_{MS} \geq 1.4 \times C_S$$

(C_S : Static torque at the hoist drum)



Max. arrest torque** (C_{MS})	Nm	225,000
Max. drum speed	rpm	24
Worm / worm wheel ratio		45
IP rating		IP65
Operational ambient temp. limit		-10°C
Servomotor power supply options		400VAC, three phases 230VAC, single phase 48VDC

Dimensions

L x W x H = 1195 x 340 x 829 mm

Max. weight (this configuration)	kg	1450
Oil volume	L	18.6
Control cabinet dimensions	mm	600 x 600 x 250

Torque flange

D1	mm	Custom
L1	mm	Custom

Drum bearing

Vertical capacity (up&down)	N	520,000
Horiz. lateral capacity	N	260,000
Horiz. axial capacity (locating)	N	104,000
Angular accomodation	°	±3

Mounting studs

Quantity		4
Size		M42

* All cables go to MotoSuiveur control cabinet
** for required C_{MS} lower than 130,200 Nm, consider MS6F Unit models.

GET STARTED WITH MOTOSUIVEUR SOLUTIONS

Need advice on which MotoSuiueur Solution is best suited to your requirements ?
Our team will help you get started in no time.

With some key specifications of your project, we will be able to preselect a MotoSuiueur Unit :

SPECIFICATIONS	VALUES
Safe Working Load (kg)	
Barrel pitch diameter (mm)	
Reeving ratio	
Gearbox ratio	
Speed at high-speed shaft (rpm)	
Selected hoist motor power (kW)	
Lifting speed (m/min)	

Do not worry if some data is missing or not yet definitive, we only need a few of these to preselect a MotoSuiueur Unit for you.

TALK TO OUR TEAM



Peter Pachov
Business Development
Manager

 /peterpachov

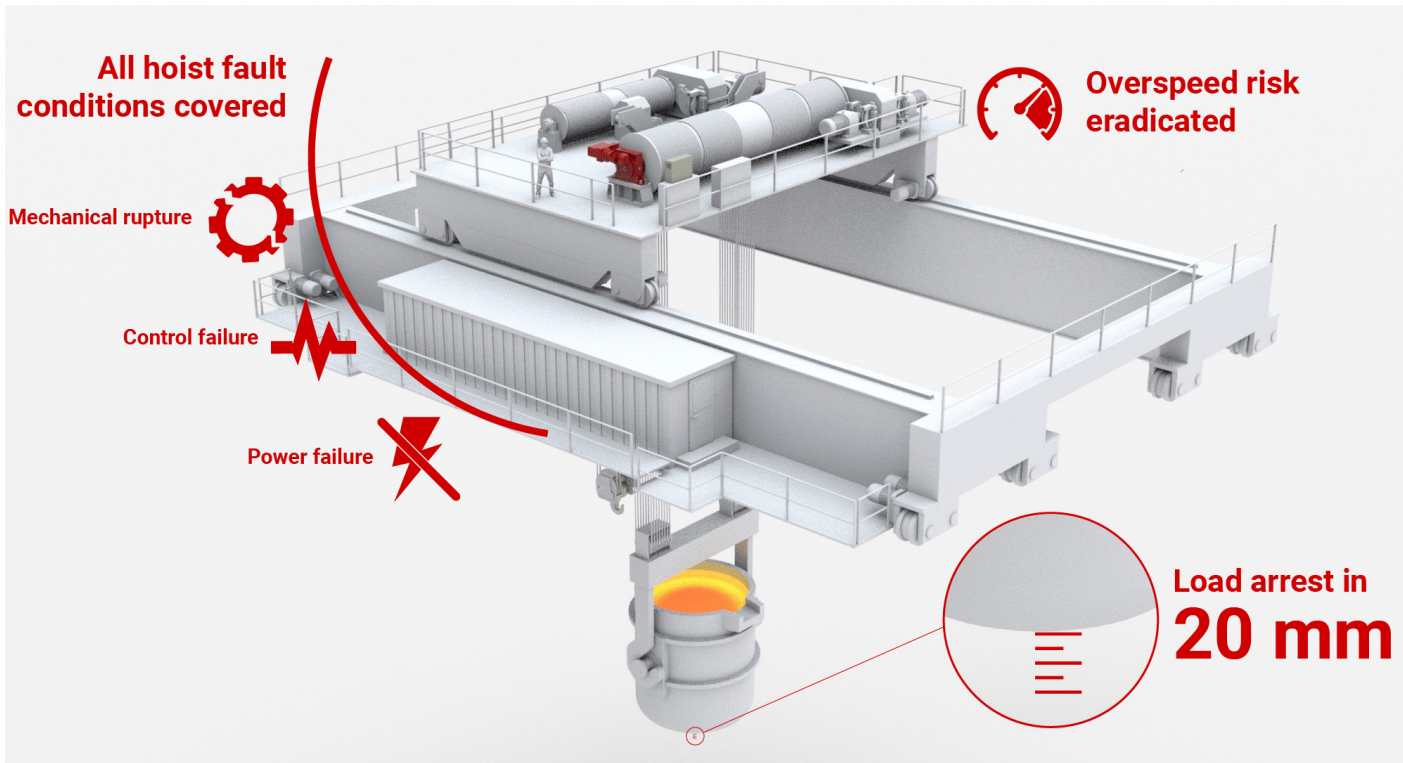
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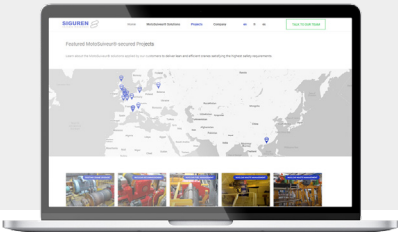
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SIGUREN technologies aims to revolutionize the way hoists are designed and operated by making the highest levels of lifting safety accessible and easy to implement. We are based in Plovdiv, Bulgaria.






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 TECHNICAL INFORMATION
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Learn about the MotoSuiveur® Solutions applied by our customers to deliver lean and efficient cranes satisfying the highest safety requirements.

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