

Customer

Supplier

Company name
Editor
Phone number
E-mail

Fields of Application

Water supply and booster stations
Irrigation, overhead irrigation and draining
Filling and emptying of tanks and containers
Circulating of hot and cold water in HVAC systems
Pumping of condensate
Water circulating for swimming pools
Sanitary and cleaning installations
For industrial applications and public services
Fresh water supply on ships

**Design Specification**

Single-stage, end suction, centrifugal volute pump.

Main dimensions according to EN 733.

Single entry, closed impeller is hydraulically thrust compensated and dynamically balanced.

Pump and motor are separate components, connected to each other via a flexible coupling and mounted on a common base plate.

Maintenance is very much easier, the impeller shaft and other rotating parts being removable with no need to disconnect the suction and delivery pipes.

In fact the use of one extension coupling enables a pump to be dismantled without moving either the driver or the pump casing.

Maximum interchangeability of components, identical parts can be used with various sizes of a pump, which greatly simplifies and reduces stock of spare parts.

Technical Data

Suction Flange	: DN50 - DN400
Discharge Flange	: DN32 - DN350
Operating Pressure	: 10 bar
Temperature Range	: Up to 140 °C
Speed Range	: 1000 - 3500 rpm
Flow Range	: 5 - 3500 m ³ /h
Head Range	: 4 - 105 m

Bearings

The pump has sturdy maintenance-free antifriction bearings, which are greased for life with high-temperature grease. A deflector on the shaft prevents leakage fluid from getting into bracket.

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Operating data specification

Pumped fluid	Water		Rated flow		m ³ /h
Solids			Rated head		m
Kind			Geodetic head		m
Percentage of solid content	0		Available system NPSH		m
pH value			Inlet pressure (pin)	0	kPa
Temperature	20	°C	Altitude above sea level	100	m
Density	998.3	kg/m ³	Max. operating pressure	689	kPa
Kin. viscosity	1.005	mm ² /s	Max. diff. pressure	689	kPa
Vapour pressure	2.34	kPa			

Pump

Make	MAS DAF		Impeller type		
Pump type	NM 80-200		Impeller construction		
Frame size	80-200		Impeller Ø		
Design	End Suction		Max.	218	mm
Self priming	<input checked="" type="checkbox"/> No		designed	218	mm
Speed	2960	1/min	Min.	183	mm
Stages	1		Flow		
Suction port			Nominal	204	m ³ /h
Pressure rating	PN16		Max.	278	m ³ /h
Nominal pipe size	DN100		Min.	0	m ³ /h
Standard	DIN		Head		
Discharge port			Nominal	63.4	m
Pressure rating	PN16		Min.	45.2	m
Nominal pipe size	DN80		Max.	70.4	m
Standard	DIN		Shut off head	70.4	m
Shaft power		kW	NPSH3		m
Shaft power P2(Q=max.)	52.2	kW	Efficiency		%

Motor

Make/Type	55 KW-2900 RPM / 250M	
Specific design	IE3 / 50 Hz / Pole pairs 1	
Rated power	55	kW
Electric voltage	3~ 400	V
Speed	2980	1/min
Electric current	92	A
Frame size	250M	
Degree of protection	IP 55	
Type of protection		
Explosion protection		

Coupling

Make/Type	
Series	
Spacer length	mm
Frame size	

Materials

Pump		Shaft seal	Soft Packing
Pump Casing	GJL-250 (GG25)	Material code	
Impeller	GJL-250 (GG25)		
Shaft	A 276 Type 420 (X20Cr13)		
Bearing Housing	GJL-250 (GG25)		

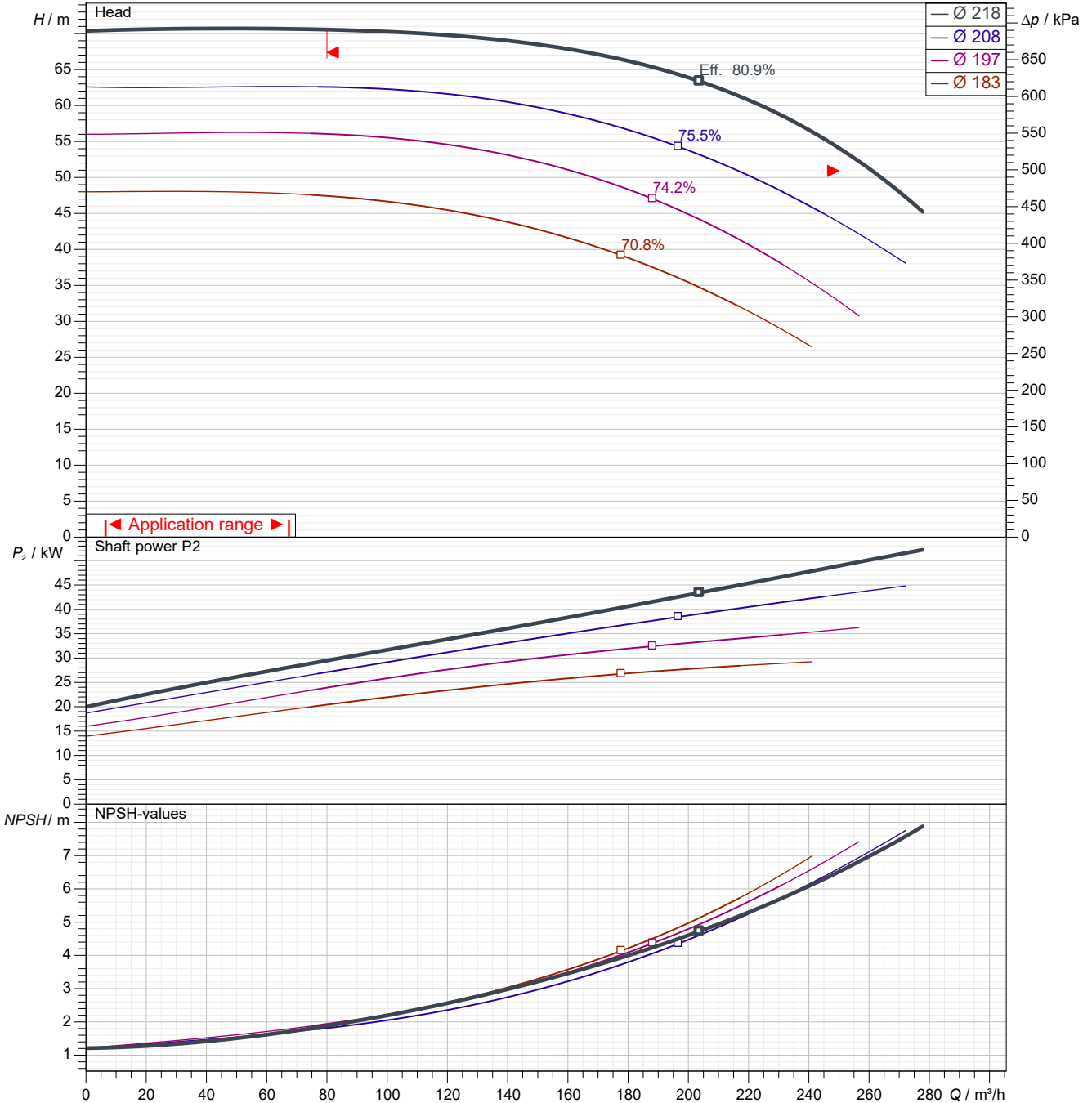
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Power data referred to: Water; 20°C; 998.3kg/m³; 1.005mm²/s Sense of rotation Clockwise from the drive end

Missing or invalid parameter (REFDIAM)



Pump curves in accordance with ISO 9906 2B

Pumped fluid	Water		Rated flow	m ³ /h
Temperature	20	°C	Rated head	m
Density	998.3	kg/m ³	Shaft power	kW
Kin. viscosity	1.005	mm ² /s	Speed	2960 1/min
Vapour pressure	2.34	kPa	NPSH3	m
Impeller \varnothing	218	mm	Efficiency	%

Subject to change

Projec

Issue date
2022-04-11

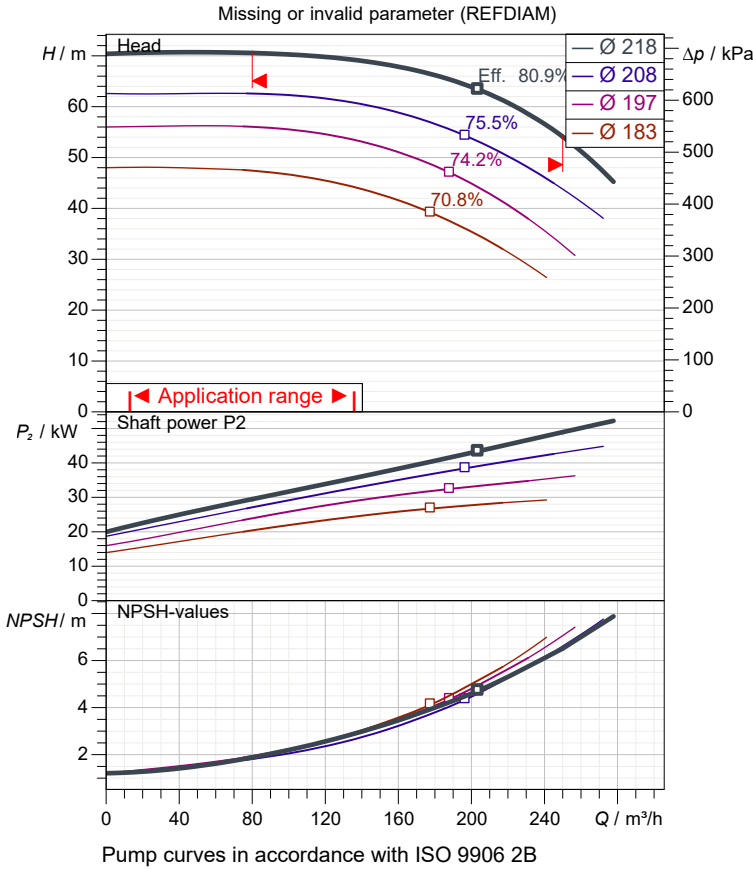
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Performance curves



Pump

Make	MAS DAF
Pump type	NM 80-200
Design	End Suction
Suction port	
Pressure rating	PN16
Nominal pipe size	DN100
Standard	DIN
Discharge port	
Pressure rating	PN16
Nominal pipe size	DN80
Standard	DIN

Operating data specification

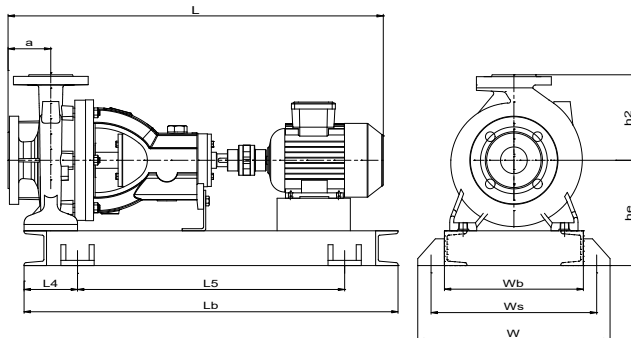
Pumped fluid	Water	
Temperature	20	°C
Density	998.3	kg/m ³
Kin. viscosity	1.005	mm ² /s
Vapour pressure	2.34	kPa
Rated flow		m ³ /h
Rated head		m
Shaft power		kW
Speed	2960	1/min
NPSH3		m
Efficiency		%
Impeller Ø	218	mm

Motor

Make/Type	55 KW-2900 RPM / 250M
Specific design	IE3 / 50 Hz / Pole pairs 1
Rated power	55 kW
Speed	2980 1/min
Electric voltage	3~ 400 V
Electric current	92 A
Degree of protection	IP 55

Materials

Shaft seal	Soft Packing
Material code	



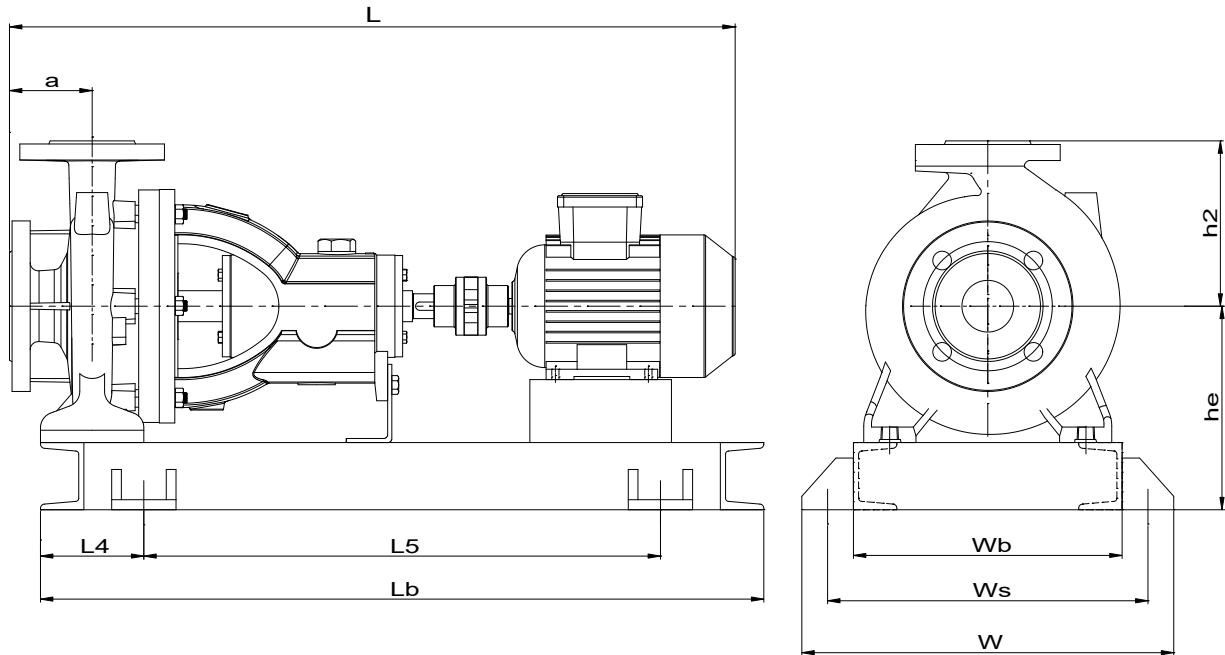
Dimensions	mm
a	125
h ₂	250
h _e	370
L	1535
L ₄	200
L ₅	950
L _b	1350
w	640
w _b	520
w _s	580

Pump Casing	GJL-250 (GG25)
Impeller	GJL-250 (GG25)
Shaft	A 276 Type 420 (X20Cr13)
Bearing Housing	GJL-250 (GG25)

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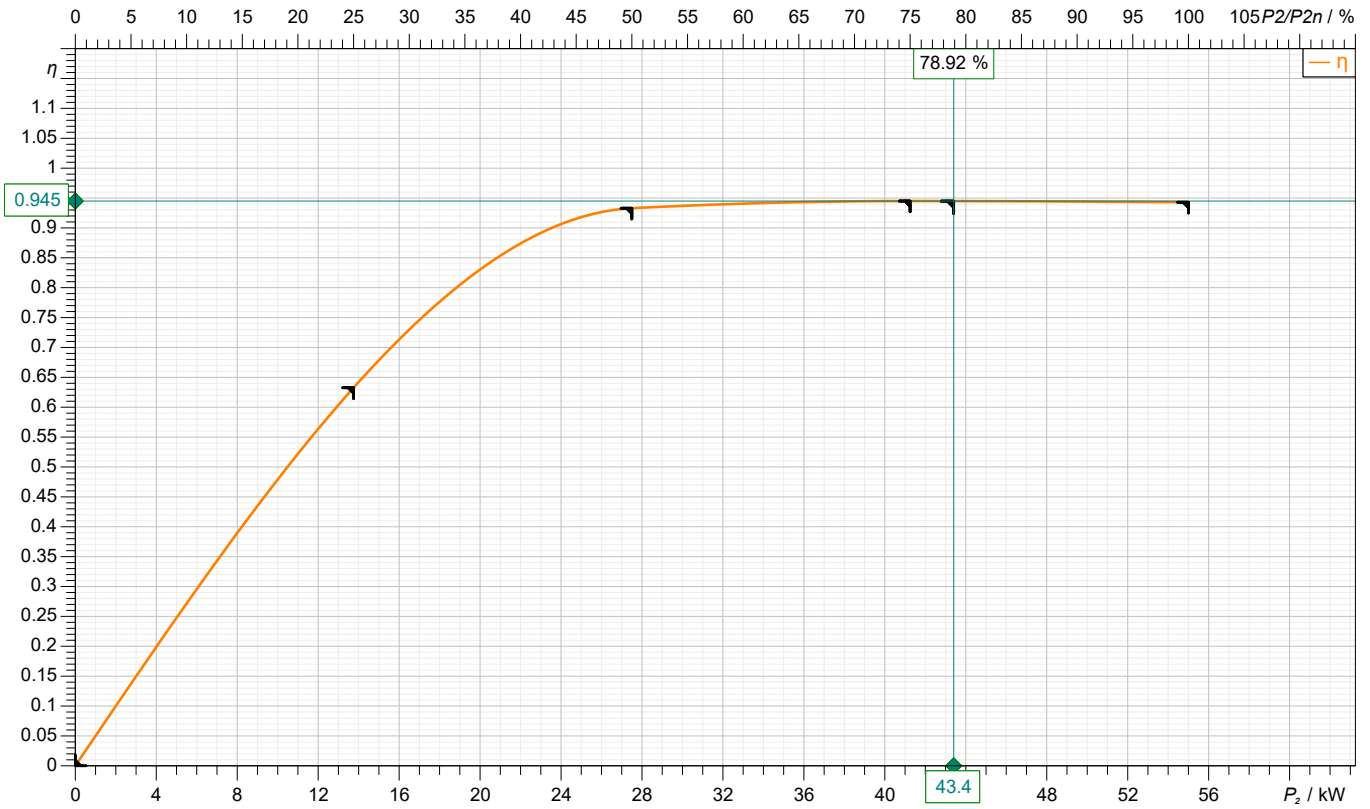
Dimensions	mm	Inlet / outlet	
a	125	Suction port	Discharge port
h2	250	DN100	DN80
he	370	PN16	PN16
L	1535		
L4	200		
L5	950		
Lb	1350		
w	640		
wb	520		
ws	580		

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motor data



Symbol	No load	25 %	50 %	75 %	100 %	125 %
P ₂ / kW	0	13.75	27.5	41.25	55	
P ₁ / kW		21.73	29.47	43.65	58.32	
η / %	0	63.27	93.3	94.5	94.3	

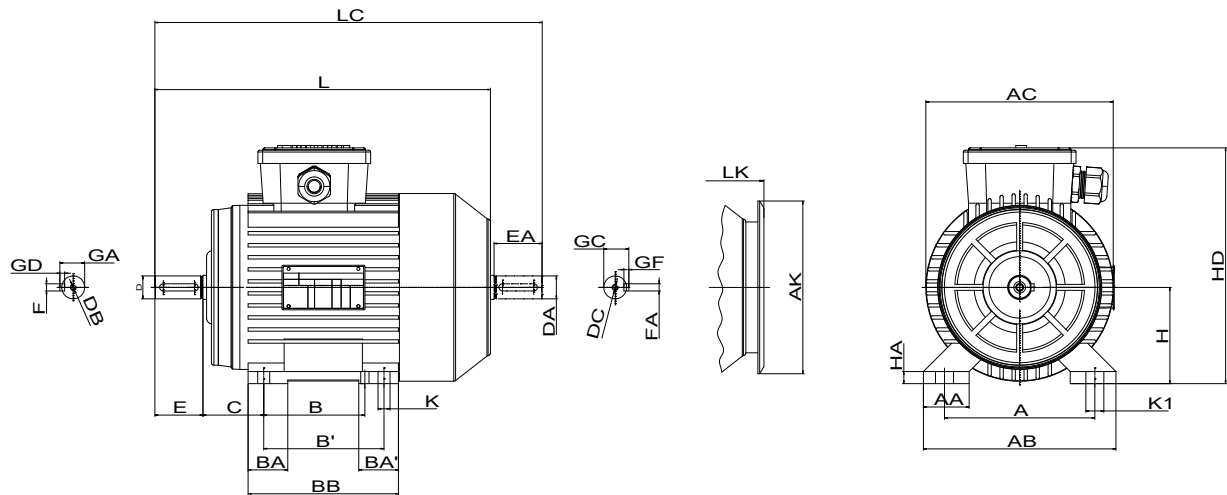
Motor

Make/Type	55 KW-2900 RPM / 250M	Degree of protection	IP 55
Specific design	IE3 / 50 Hz / Pole pairs 1	Type of protection	
Rated power	55 kW	Explosion protection	
Electric voltage	3~ 400 V	Service factor	1.15
Number of poles	2	Starting current	
Speed	2980 1/min	Starting torque	
Electric current	92 A	Moment of inertia	
Power factor	0.92	No. starts per hour	
Frame size	250M	Rated torque	176 Nm
Efficiency class	IE3	Insulation class	F (155C°)

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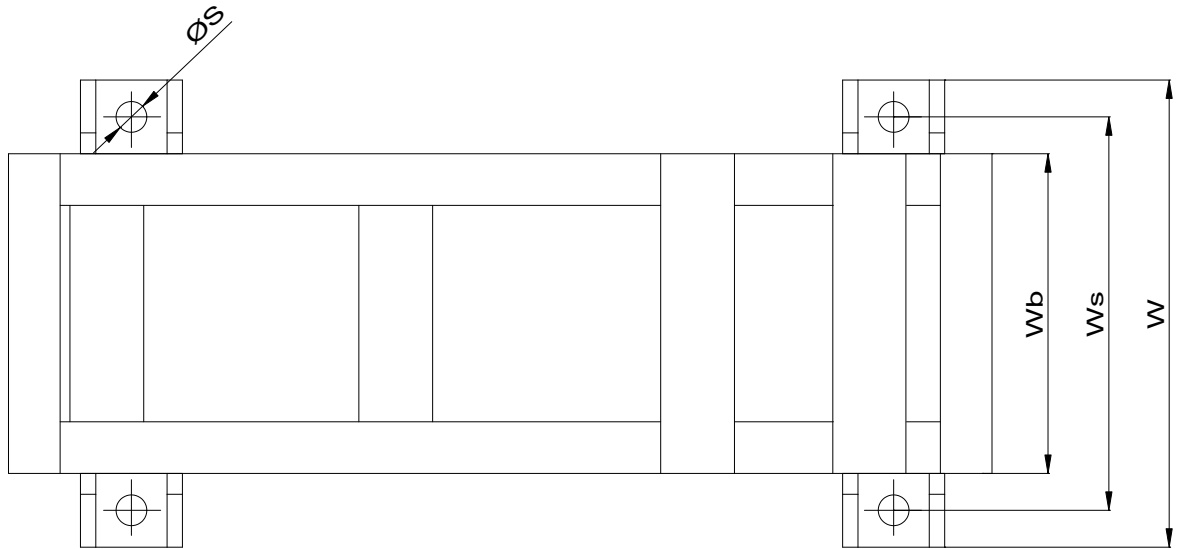
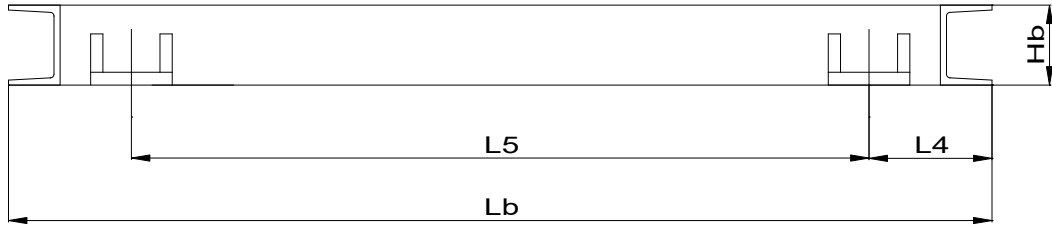


Dimensions	mm		
A	406	E	140
AA	80	EA	140
AB	484	FxGF	18X11
AC	480	FxGD	18X11
AK	440	GA	69
B	349	GC	69
B'	-	H	250
BA	75	HA	35
BA'	-	HD	572
BB	410	K	24
C	168	L	896
D	65	LC	1044
DA	65	LK	952
DB	M20		
DC	M20		

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Dimensions	mm
hb	120
L4	200
L5	950
Lb	1350
S	24
w	640
wb	520
ws	580



Spare part list
NM 80-200

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