# Product description

SPLT 200-500

| Customer | Supplier |
|---|---|
| Company name | |
| Editor | |
| Phone number | |
| E-mail | |

## Fields of Application

Water supply and booster stations.
Irrigation, overhead irrigation.
Drainage stations.
Power stations.
Industrial water supply systems.
Firefighting systems.
Marine applications.
General applications in refineries.


## Design Specification

Single-stage axially split casing pumps with double entry and radial impeller.

Double entry, closed impeller is hydraulically thrust compensated.

Lower casing is in-line design, suction and discharge nozzles are on the same line.

Upper casing is self-aligning and it is easy to mount.

The NPSH values are reduced and high suction lifts are possible thanks to double suction impeller.

Two different designs can be applicable:

Long shaft design: For soft packing stuffing box, the length of the pump shaft is longer. It is also possible to use mechanical seal on this design.

Short shaft design: For mechanical seal applications, shaft length can be reduced. Therefore, compact and rigid pumps are available .

Pump and motor are separate components connected to each other via flexible coupling and mounting on a base plate. It is also possible to couple the pump to the diesel engine.

## Technical Data

Suction Flange: DN80 - DN500
Discharge Flange : DN65 - DN500
Operating Pressure : 16 - 20 bar
Temperature Range : Up to 110 °C
Speed Range : 960 - 3500 rpm
Flow Range : 30 - 4000 m³/h
Head Range : 15 - 180 m

| Customer | Supplier |
|---|---|
| Company name | |
| Editor | |
| Phone number | |
| E-mail | |

## Operating data specification

| | | | | | |
|---|---|---|---|---|---|
| Pumped fluid | Water | | Rated flow | | m³/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/m³ | Max. operating pressure | 605 | kPa |
| Kin. viscosity | 1.005 | mm²/s | Max. diff. pressure | 605 | kPa |
| Vapour pressure | 2.34 | kPa | | | |

## Pump

| | | | | | |
|---|---|---|---|---|---|
| Make | MAS DAF | | Impeller type | | |
| Pump type | SPLT 200-500 | | Impeller construction | | |
| Frame size | | | Impeller Ø | | |
| Design | Split Case | | Max. | 560 | mm |
| Self priming | ☒ No | | designed | 530 | mm |
| Speed | 1176 | 1/min | Min. | 505 | mm |
| Stages | 1 | | Flow | | |
| Suction port | | | Nominal | 642 | m³/h |
| Pressure rating | PN10 | | Max. | 966 | m³/h |
| Nominal pipe size | DN250 | | Min. | 0 | m³/h |
| Standard | DIN | | Head | | |
| Discharge port | | | Nominal | 51.2 | m |
| Pressure rating | PN16 | | Min. | 32.3 | m |
| Nominal pipe size | DN200 | | Max. | 61.8 | m |
| Standard | DIN | | Shut off head | 61.8 | m |
| Shaft power | | kW | NPSH3 | | m |
| Shaft power P2(Q=max.) | 142 | kW | Efficiency | | % |

## Motor

| | | | | |
|---|---|---|---|---|
| Make/Type | 132 KW-1000 RPM / 315L | | Make/Type | |
| Specific design | IE3 / 60 Hz / Pole pairs 3 | | Series | |
| Rated power | 132 | kW | Spacer length | mm |
| Electric voltage | 3~ 400 | V | Frame size | |
| Speed | 990 | 1/min | | |
| Electric current | 235 | A | | |
| Frame size | 315L | | | |
| Degree of protection | IP 55 | | | |
| Type of protection | | | | |
| Explosion protection | | | | |

## Coupling

## Materials

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

# Performance curves

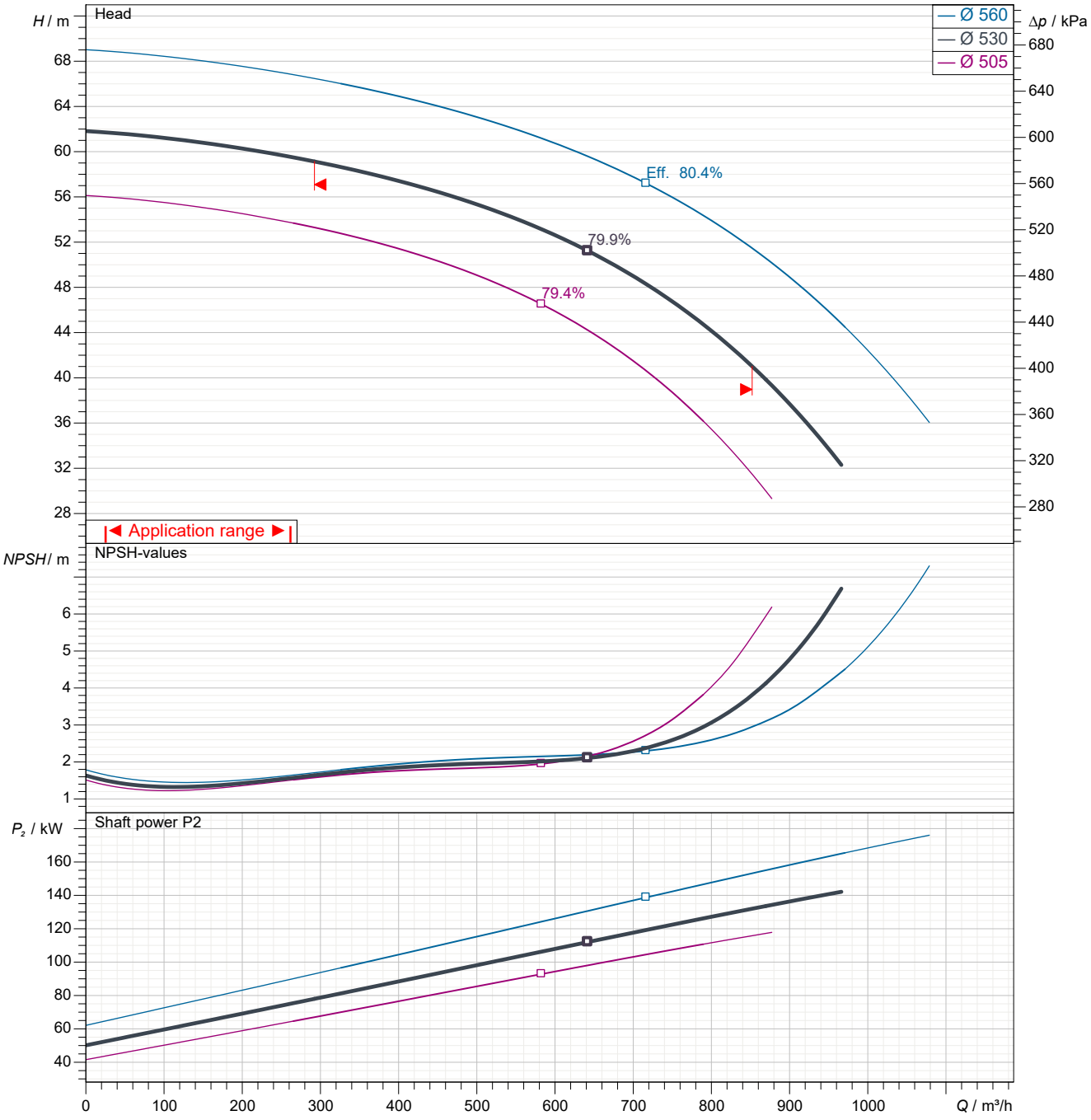
SPLT 200-500

| Customer | Supplier |
|---|---|
| Company name | |
| Editor | |
| Phone number | |
| E-mail | |

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

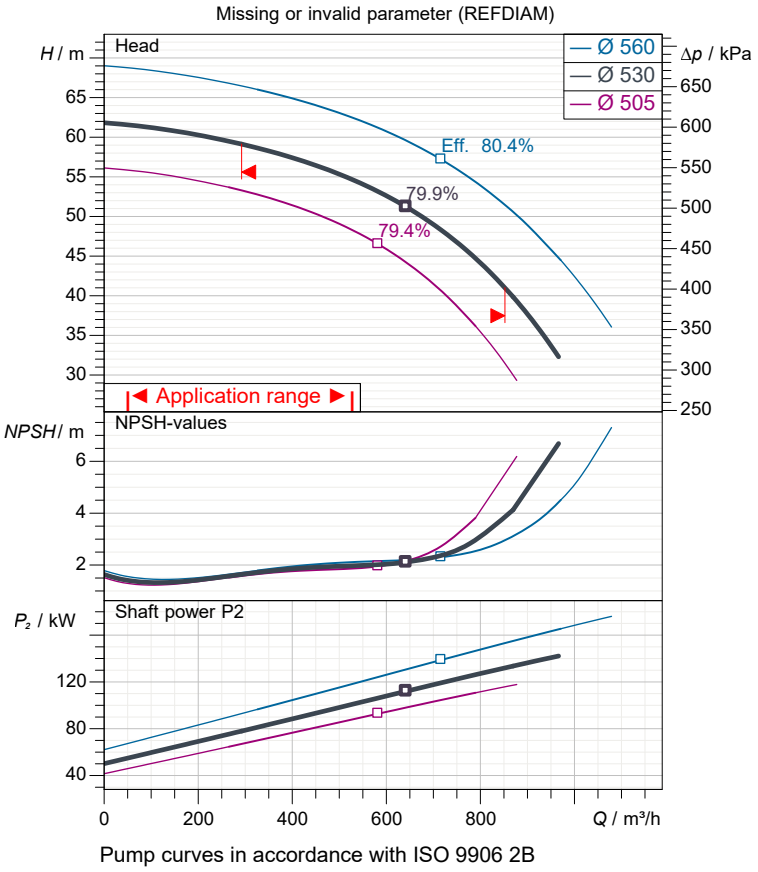
| | | | | | |
|---|---|---|---|---|---|
| Pumped fluid | Water | | Rated flow | | m³/h |
| Temperature | 20 | °C | Rated head | | m |
| Density | 998.3 | kg/m³ | Shaft power | | kW |
| Kin. viscosity | 1.005 | mm²/s | Speed | 1176 | 1/min |
| Vapour pressure | 2.34 | kPa | NPSH3 | | m |
| Impeller Ø | 530 | mm | Efficiency | | % |

# Brief description of pump

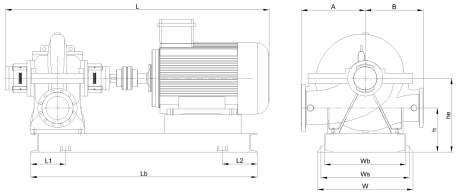
SPLT 200-500

| Customer | Supplier |
|---|---|
| Company name | |
| Editor | |
| Phone number | |
| E-mail | |

## Performance curves




Pump curves in accordance with ISO 9906 2B



## Pump

| | |
|---|---|
| Make | MAS DAF |
| Pump type | SPLT 200-500 |
| Design | Split Case |
| Suction port | |
| Pressure rating | PN10 |
| Nominal pipe size | DN250 |
| Standard | DIN |
| Discharge port | |
| Pressure rating | PN16 |
| Nominal pipe size | DN200 |
| Standard | DIN |

## Operating data specification

| | | |
|---|---|---|
| Pumped fluid | Water | |
| Temperature | 20 | °C |
| Density | 998.3 | kg/m³ |
| Kin. viscosity | 1.005 | mm²/s |
| Vapour pressure | 2.34 | kPa |
| Rated flow | | m³/h |
| Rated head | | m |
| Shaft power | | kW |
| Speed | 1176 | 1/min |
| NPSH3 | | m |
| Efficiency | | % |
| Impeller Ø | 530 | mm |

## Motor

| | | |
|---|---|---|
| Make/Type | 132 KW-1000 RPM / 315L | |
| Specific design | IE3 / 60 Hz / Pole pairs 3 | |
| Rated power | 132 | kW |
| Speed | 990 | 1/min |
| Electric voltage | 3~ 400 | V |
| Electric current | 235 | A |
| Degree of protection | IP 55 | |

## Materials

| | |
|---|---|
| Shaft seal | Soft Packing |
| Material code | |

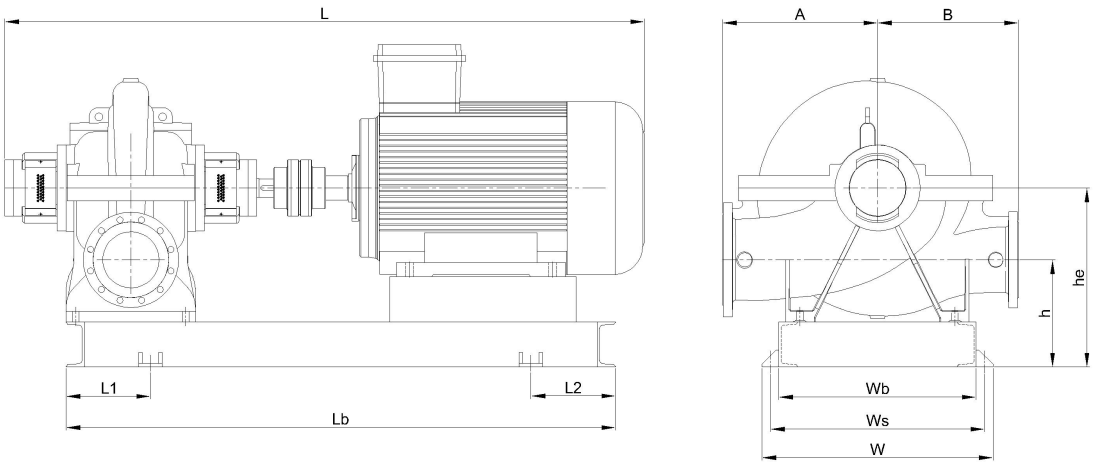
| Dimensions | mm |
|---|---|
| A | 550 |
| B | 500 |
| h | 380 |
| he | 635 |
| L | 2270 |
| L1 | 300 |
| L2 | 300 |
| Lb | 1950 |
| W | 820 |
| Wb | 700 |
| Ws | 760 |

| | |
|---|---|
| Casing | GJL-250 (GG25) |
| Impeller | GJL-250 (GG25) |
| Shaft | A 276 Type 420 (X20Cr13) |

# Pump dimensions

SPLT 200-500

| Customer | Supplier |
|---|---|
| Company name | |
| Editor | |
| Phone number | |
| E-mail | |




| Dimensions | mm |
|---|---|
| A | 550 |
| B | 500 |
| h | 380 |
| he | 635 |
| L | 2270 |
| L1 | 300 |
| L2 | 300 |
| Lb | 1950 |
| W | 820 |
| Wb | 700 |
| Ws | 760 |

**Inlet / outlet**

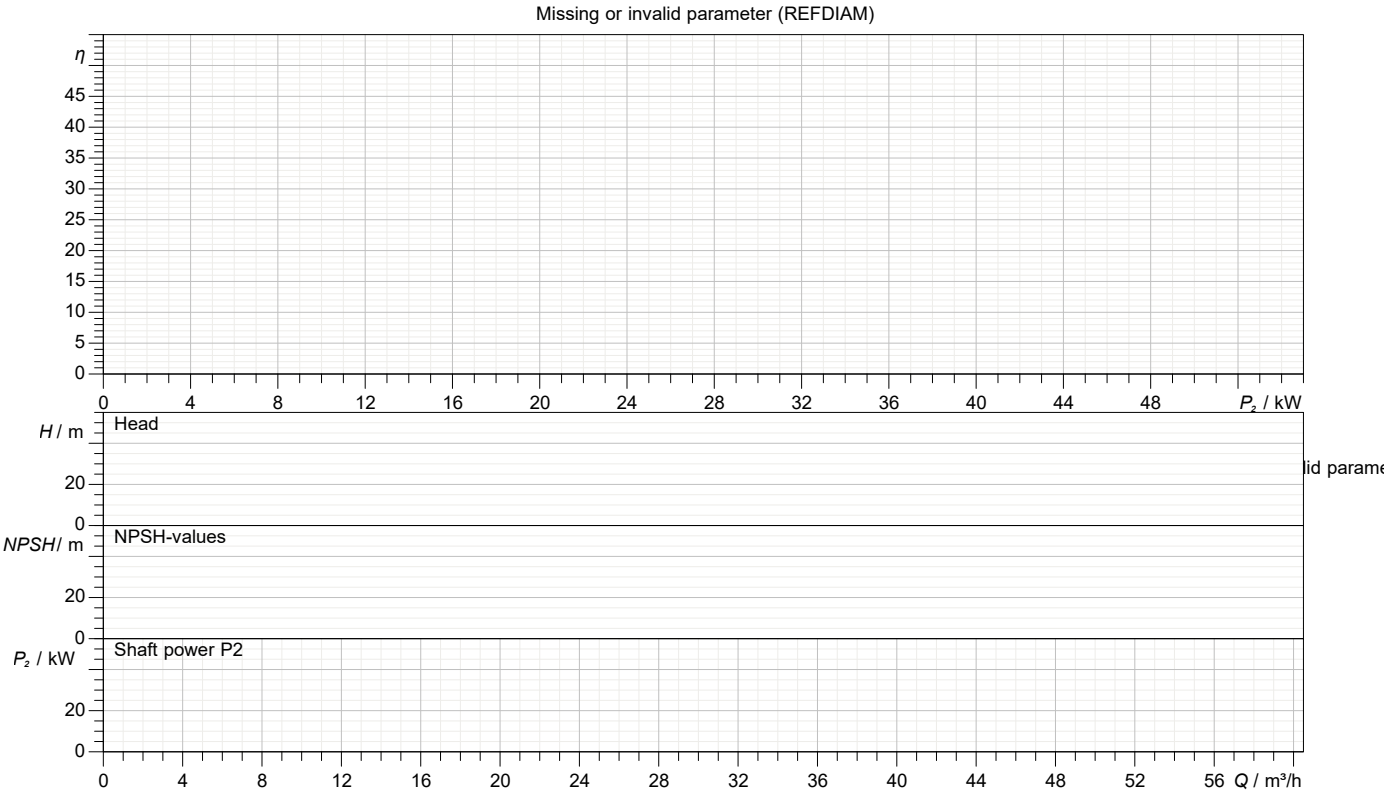
| Suction port | Discharge port |
|---|---|
| DN250 | DN200 |
| PN10 | PN16 |

# Motor performance curve

132 KW-1000 RPM / 315L

| Customer | Supplier |
|---|---|
| Company name | |
| Editor | |
| Phone number | |
| E-mail | |

**motor data**




| Symbol | No load | 25 % | 50 % | 75 % | 100 % | 125 % |
|---|---|---|---|---|---|---|

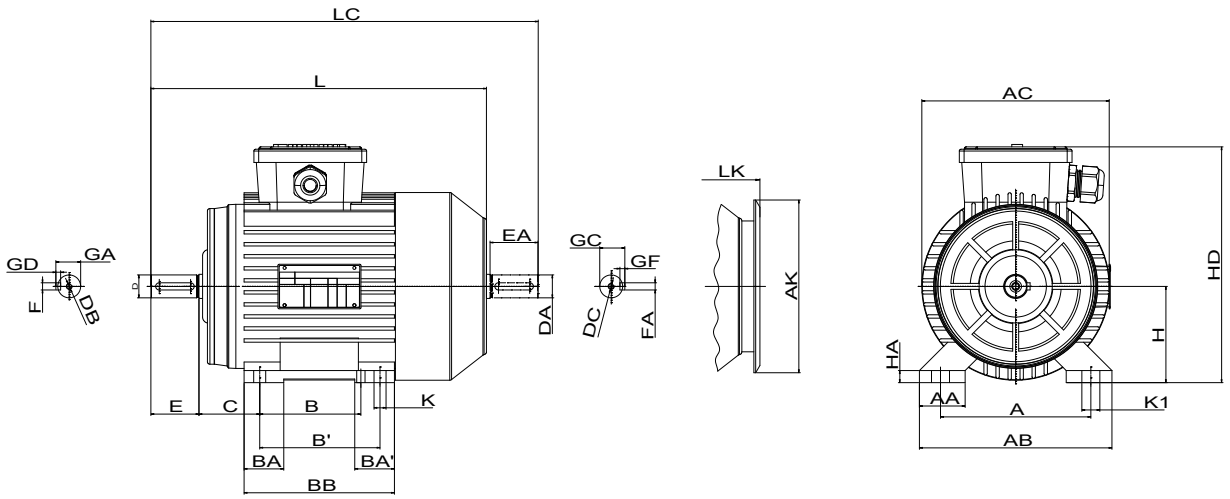
**Motor**

| | | | | |
|---|---|---|---|---|
| Make/Type | 132 KW-1000 RPM / 315L | | Degree of protection | IP 55 |
| Specific design | IE3 / 60 Hz / Pole pairs 3 | | Type of protection | |
| Rated power | 132 | kW | Explosion protection | |
| Electric voltage | 3~ 400 | V | Service factor | 1.15 |
| Number of poles | | | Starting current | |
| Speed | 990 | 1/min | Starting torque | |
| Electric current | 235 | A | Moment of inertia | |
| Power factor | 0.85 | | No. starts per hour | |
| Frame size | 315L | | Rated torque | 1270 Nm |
| Efficiency class | IE3 | | Insulation class | F (155C°) |

# Motor dimensions

132 KW-1000 RPM / 315L

| Customer | Supplier |
|---|---|
| Company name | |
| Editor | |
| Phone number | |
| E-mail | |

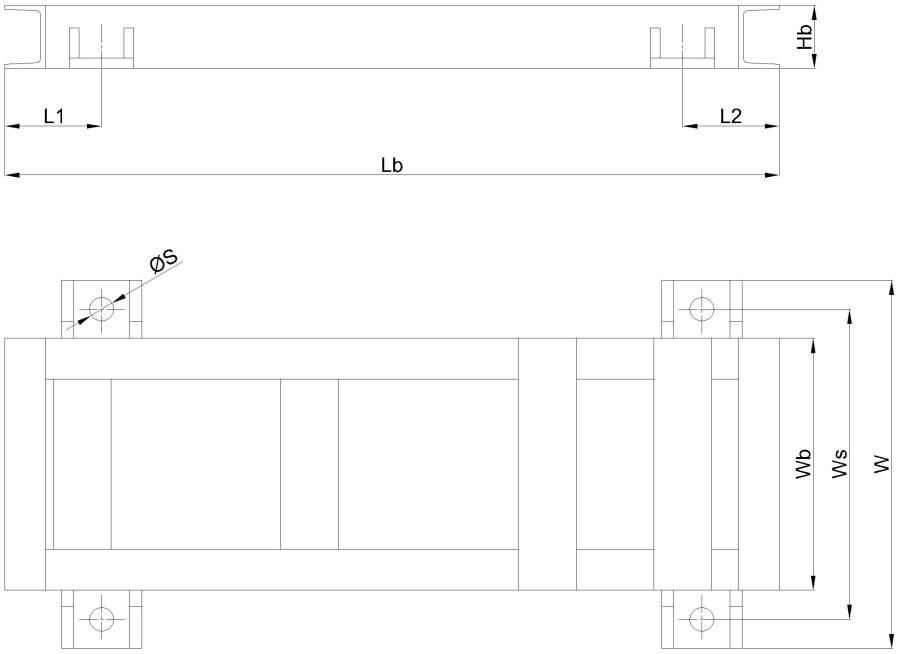



| Dimensions | mm | | |
|---|---|---|---|
| A | 508 | E | 170 |
| AA | 125 | EA | 170 |
| AB | 620 | FAxGF | 22X14 |
| AC | 614 | FxGD | 22X14 |
| AK | 571 | GA | 90 |
| B | 508 | GC | 90 |
| B' | – | H | 315 |
| BA | 125 | HA | 50 |
| BA' | – | HD | 825 |
| BB | 600 | K | 28 |
| C | 216 | L | 1220 |
| D | 85 | LC | 1400 |
| DA | 85 | LK | 1297 |
| DB | M20 | | |
| DC | M20 | | |

# Base plate

SPLT 200-500

| Customer | Supplier |
|---|---|
| Company name | |
| Editor | |
| Phone number | |
| E-mail | |




| Dimensions | mm |
|---|---|
| Hb | 160 |
| L1 | 300 |
| L2 | 300 |
| Lb | 1950 |
| S | 65 |
| W | 820 |
| Wb | 700 |
| Ws | 760 |

| Customer | Supplier |
| --- | --- |
| Company name | |
| Editor | |
| Phone number | |
| E-mail | |

| **Customer** | **Supplier** |
| --- | --- |
| Company name | |
| Editor | |
| Phone number | |
| E-mail | |