



## ELEC43SP WITH ELECTRIC SUBMERSIBLE PUMPS FOR PROCESSING SOLIDS

Possible immersion depth of these vertical submersible pumps is up to 30 meters.

# 30 m

Martins Engineering designs are robust, exceptionally reliable pumps with flanged submersible motor for wet installations. Typical applications include mining, extraction of fine sand, sludge dumps, drainage of dams and cleaning lakes, ponds, and rivers. Only reliable and long-proven designs of HPK, NPW and KB series are used for the construction of these

wear-resistant pumps. Today's new technologies in pump production allow us to build an even better geometry of the slurry flow path. The result is a significantly improved efficiency and a longer service life of the casing and wet parts compared to other pump manufacturers. The three main differences between Martins Engineering are the drive method, the passage dimension and the shaft seal type. These pumps can be adapted to the properties of the process media, which makes them suitable for use with neutral, alkaline and lightly acidic media.



Find more information about this series on our website.



# CHALLENGER

## SUBMERSIBLE PUMPS FOR MEDIUM WEAR APPLICATIONS

Challenger has various drive installation methods. The pump is easily transportable and user friendly. There are two designs available: pump with metallic finish (CRM) and pump with polyurethane APFlex lining (CRP). Both pumps are available with and without an agitator.

Performance characteristics of Challenger	
Flow rate up to	950 [m <sup>3</sup> /h]
Maximum head	56 [m.l.c]
Pump speed, depending on the size, up to	1470 [min <sup>-1</sup> ]
Cable length from	8 m
Submersion depth up to	30 m
Temperature range	+12°C to +40°C
Optional temperature range (with anti-condensate heater)	+4°C to +40°C
Pump sizes	DN 32 to DN 250



METALLIC PUMP CRM TYPE

CRP PUMP WITH POLYURATHANE LINING



Motors, pump designs, as well as additional components are compatible with one another and can be easily combined, therefore create an individual design depending on the application.

# HERACLES

## SUBMERSIBLE PUMPS FOR HEAVY-DUTY OPERATIONS

Heracles has a special shaft seal, which allows heavy-duty operations to run smoothly and continuously. The pump can be configured with both electric and hydraulic motor. The units with hydraulic drive are especially designed with a direct connection to mobile construction machinery, such as crawler or wheel excavators. The pumps are directly connected to the hydraulic circuit and can therefore be controlled from the driver's cab.

Performance characteristics of Heracles	
Flow rate up to	600 [m <sup>3</sup> /h]
Maximum head	52 [m.l.c]
Pump speed, depending on the size, up to	1475 [min <sup>-1</sup> ]
Cable length from	8 m
Submersion depth up to	30 m
Temperature range	+12°C to +40°C
Optional temperature range (with anti-condensate heater)	+4°C to +40°C
Pump sizes	DN 100 to DN 250



HERACLES PUMP WITH ELECTRIC MOTOR

HERACLES PUMP WITH HYDRAULIC MOTOR

