



天河水务

DY 型带式压滤机 TYPE-DY BELT FILTER PRESS

● 用途 Applications

带式压滤机主要用于给排水工程中污泥的脱水，使其体积减小，以利于进一步进行填埋、焚烧等处理。

The belt filter press is mainly used for the dewatering of sludge in water supply and sewage engineering to reduce the volume of sludge to benefit the further burying, burning and other treatment for it.

● 工作原理及构造 Working Principle and Strucure

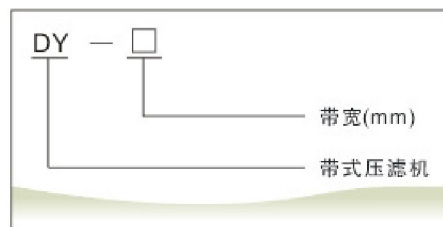
通过带式压滤机上一系列的辊及滚筒，将上下两层滤带张紧，滤带上的污泥在剪力的作用下，污泥中的游离水不断被挤出，从而完成泥水分离过程。脱水过程一般分为三个阶段：重力脱水段，楔形预压榨段，中、高压剪切脱水段。

压滤机由架体、辊、纠偏装置、张紧装置、布泥系统、滤带、刮泥板、冲洗系统等组成。

● 特点 Features

1. 结构紧凑、整体刚性好。
2. 无级调速电机驱动,可以随时调节运行速度,适应性强。
3. 特制冲洗喷嘴及防堵塞装置,使滤带冲洗干净。
4. 控制系统自动纠偏,并有限位开关保护滤带,确保设备正常运行。
5. 处理量大,脱水效果好,运行费用低。
6. 附属设备选用名牌产品,性能可靠。
7. 可提供PLC远程控制接口,利于管理。

● 型号示例 Type and Its Indication



The upper and lower filtering belts are taken up through the movements of a series of rollers and cylinders on the machine. The free moisture in sludge between the two layers of filtering belts will uninterruptedly be squeezed out to complete the course of keeping water from sludge. The working procedure of the machine can be divided 3 stages: the one of dewatering by gravity, the one of wedge preliminary pressure and the one of dewatering by cutting with intermediate and high pressure.

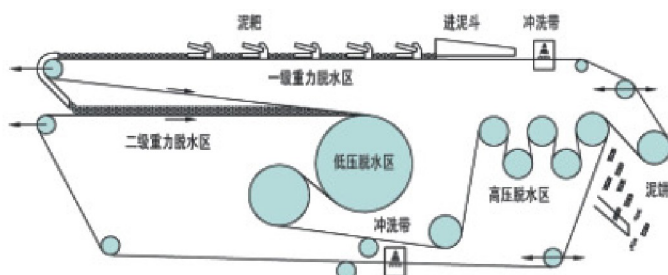
The machine is generally composed of frame body, rollers, rectifying device, squeezing system, sludge distribution system, filtering belts, cleaning shoe, washing system and so on.

1. Compact in structure, fine in stiffness of whole body.
2. Driven by no-class electric machine. It can adjust the speed of running at any time and have wide suitability.
3. Special jet nozzle for washing and obstruction-proof device to make filtering belt washed clean.
4. There's electric control system automatically to rectify deviation and limit switch to protect filtering belt to ensure for the equipment a normal running.
5. A large quantity of treated matters, good effect of dewatering and low expense of running.
6. Accessory equipments come from famous factories and their performances are reliable.
7. The interface port of long-range control of PLC can be supplied to benefit management.

● 技术性能参数 Technical Parameters

型号	项目	带宽 (mm)	处理量 (m ³ /h)	功率 (kW)	冲洗水量 (m ³ /h)	冲洗水压 (MPa)	泥饼含水率 (%)	进泥含固率 (%)
DY500		700	~4	1.1	≤5	≥0.5	65~80	≥3
DY1000		1000	~8	1.5	≤12			
DY1500		1500	~12	2.2	≤16			
DY2000		2000	~15	3	≤20			

● 工作原理示意图 Function diagram

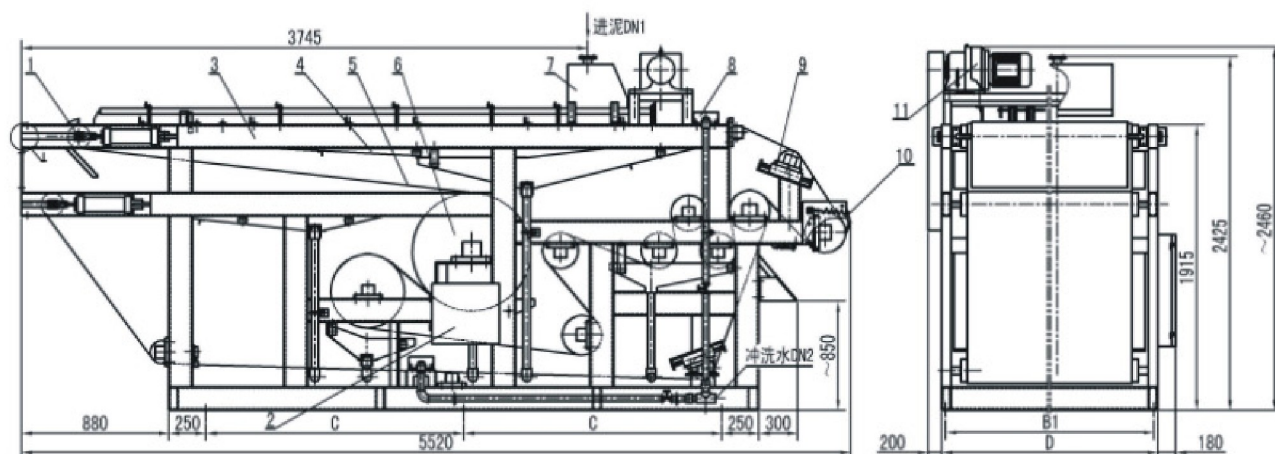




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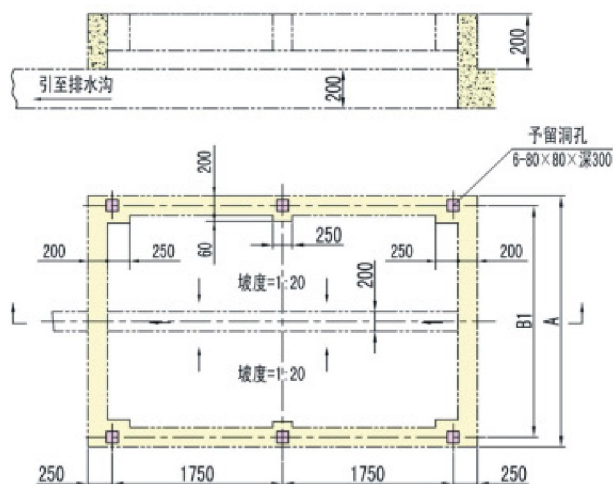
外形及预埋件尺寸 Outlines and Embedded Parts Size



1、张紧机构 2、气柜 3、机架 4、集水斗 5、滤带 6、压榨辊 7、进料器 8、冲洗系统 9、纠偏装置 10、刮泥板 11、驱动装置

型号	A	B1	C	D	DN1	DN2
DY500	1220	1040	1750	1100	50	50
DY1000	1520	1340	1750	1400	65	50
DY1500	2020	1840	1750	1900	80	50
DY2000	2520	2340	1750	2400	100	50

(mm)



压滤机基础图

订货说明 Requirements for Order

1. 注明设备主体的材质。
2. 注明配套设备的名称及数量。
3. 若用户选用几套系统并联运行时，除加药及输送设备共用外，其余均按标准配套。
4. 订全套系统时，用户须提供车间平面图。

1. Note the material of main body.
2. Note the name and quantities of matching equipments.
3. When customers choose to use several sets of systems for parallel operation, except for medicine-feeding and conveying equipment used in common, the others will be matched according to the normal standard.
4. When a complete set of systems is ordered, the customer must offer the plain figure of workshop.

