天河水务

DNDY 型带式浓缩脱水一体机

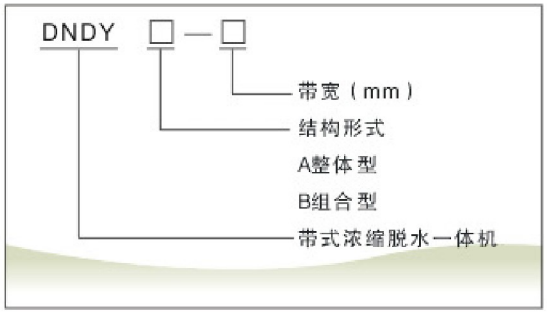
TYPE-DNDY INTEGRATIVE BELT CONCENTRATION AND DEWATERING MACHINE

用 途 Applications

主要用于未经浓缩的剩余污泥的处理（如A/O法、SBR法的剩余污泥），具有污泥浓缩、脱水双重功能，节省土建投资，同时不增加药剂费用，较单独的压滤机处理量提高几倍以上。本机也可用于浓缩后污泥的处理，运行更稳定。

It is mainly used in the treatment of un-concentrated residual sludge (such as sludge resulted from A/O method, SBR method).It has the two functions of mud concentration and dewatering and can save construction cost and increase treatment capacity several times more than single pressure filtering machine without increasing cost on chemicals. The machines can also be used in sludge treatment after concentration and ensure smooth operation.

型号示例 Type and Its Indication



工作原理及构造 Working Principle and Strucre

主机由带式浓缩机与带式压滤机两部分组成。絮凝污泥进入带式浓缩机的滤带上，在重力的作用下游离水从滤带的缝隙中流出，进入集水箱中，浓缩后的污泥进入带式压滤机中，经带式压滤机的一、二级重力脱水区后，进入压榨区进行高压脱水，将污泥中的毛细水进一步脱出，从而得到含水率较低的泥饼，泥饼被脱水机上的刮板卸下，由输送机送入下一处理工序（填埋或焚烧）。滤带经过反冲洗后，进入下一循环。

The main body of the machine is made up of belt concentration machine and belt pressure filtering machine. Coagulation mud entered into the filtration belt of the belt concentration machine is separated from water, which drips out from the gap of filtration belt and get into water tank. The concentrated sludge enters into the pressure filtering machine and go through the process 1 and process 2 weight dewater areas of the pressure filtering machine and then goes to pressure squeezing area to further dewater from sludge. Therefore, a sludge cake that has less water content can be made and unloaded by the scraper on the dewatering machine and transferred by a conveyor for next process (buried or burned).The filtration belt is rinsed for next use.

特 点 Features

1. 结构紧凑合理、外形美观大方；
2. 处理量大，固体捕获率高达95%；
3. 采用组合式结构，清洗、维护方便；
4. 采用二沉池出水反冲洗滤带，节省运行费用；
5. 采用多种先进技术，运行稳定可靠；
6. 全自动控制运行，操作强度极低。

1. Compact in structure and beautiful appearance;
2. Large processing capacity and solid catching rate can be as high as 95%;
3. Combined structure and easy for rinse and maintenance;
4. Use the filtration liquid to rinse the filtration belt time and again and save operation cost;
5. Using the advanced technology and reliable operation;
6. Fully automatic operation and least manual control workload.

技术性能参数及外形尺寸表 Technical Parameters Shape and Size

型号 / 参数	DNDYA型						DNDYB型					
	500	1000	1500	2000	2500	3000	500	1000	1500	2000	2500	3000
处理量（m^3/h）	5～8	10～20	15～25	20～30	25～40	40～60	10～20	20～40	30～60	40～80	50～100	70～120
进料含水量水率（%）	约99											
滤带宽度（mm）	500	1000	1500	2000	2500	3000	500	1000	1500	2000	2500	3000
浓缩机滤带速度（m/min）	2～10						4～20					
压滤机滤带速度（m/min）	1～5						1～5.4					
浓缩机功率（kW）	0.37	0.37	0.55	0.55	0.75	1.1	0.55	0.75	0.75	1.1	1.5	2.2
压滤机功率（kW）	0.75	1.1	1.5	2.2	3	4	0.75	1.1	1.5	2.2	3	4
A（mm）	2150	2150	2150	2150	2150	2150	1150	1450	1950	2460	3000	3500
B（mm）	1060	1360	1860	2360	2860	3360	1200	1500	2000	2510	3050	3550
C（mm）	3300	3300	3300	3300	3300	3300	2100	2100	2100	2100	2100	2100
H（mm）	2050	2050	2050	2050	2050	2050	2350	2350	2350	2350	2640	2640
DN（mm）	50	65	65	80	100	125	80	100	125	150	200	200

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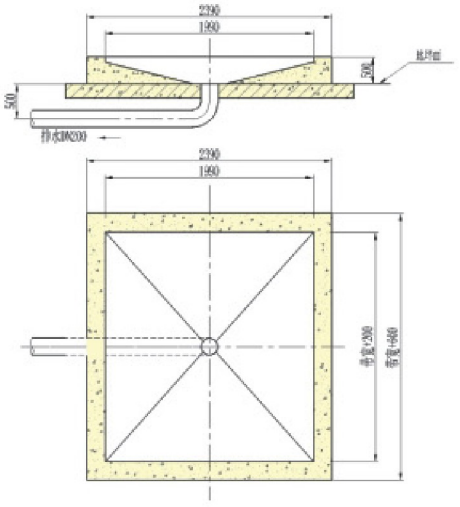
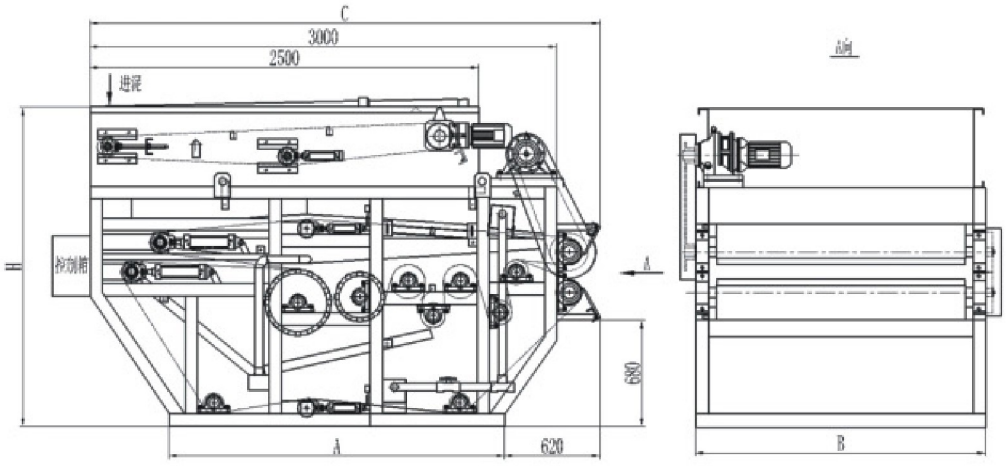
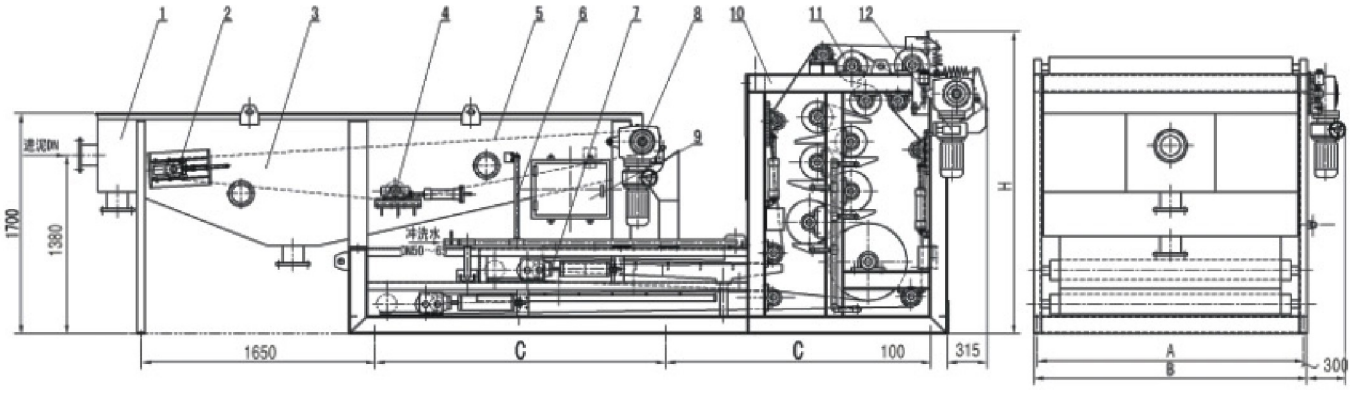
DNDYA型-基础图 DNDYA-Base map



DNDYA型-外形尺寸 DNDYA-Shape and size



DNDYB型-外形尺寸 DNDYB-Shape and size



1、进料装置 2、浓缩段张紧装置 3、浓缩段机箱 4、纠偏装置 5、滤带 6、冲洗装置 7、张紧装置
8、浓缩段传动装置 9、气控柜 10、机架 11、压榨辊 12、压滤段传动装置

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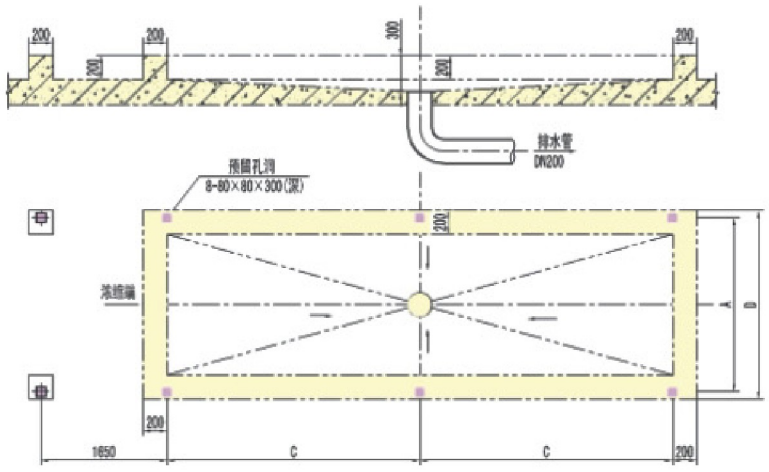
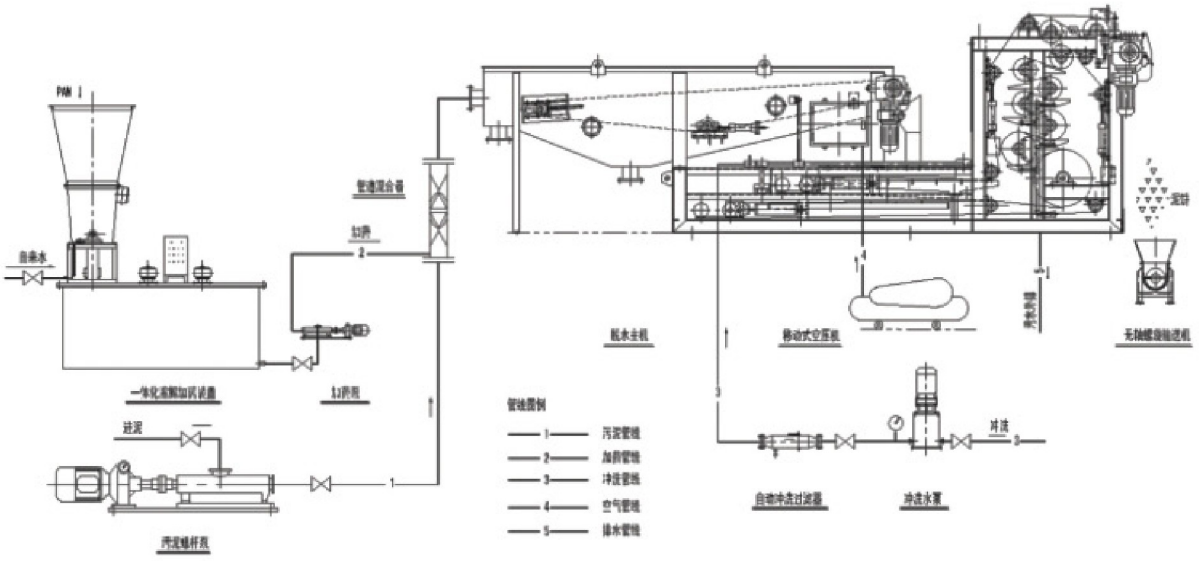
DNDYB型-基础图 DNDYB-Base map



型号 \ 尺寸	A	C	D
DNDYB1000	1450	2100	1570
DNDYB1500	1950	2100	2070
DNDYB2000	2460	2100	2580
DNDYB2500	3000	2100	3150
DNDYB3000	3500	2100	3650

DNDY型脱水系统典型工艺图 DNDY-Typical Process Drawing of The DNDY System for Sludge Dewatering



订货说明 Requirements for Order

1. 注明主体设备的材质。
2. 注明配套设备的名称及数量。
3. 订全套脱水系统时，请提供车间平面图。
4. 处理量参数为参考数值，不同污泥的处理量及泥饼含水率不同。

1. Note the material of the principal equipments.
2. Note the names and numbers of accessories.
3. Please offer plain diagram of the workshop when the whole set of dewatering system is ordered.
4. The parameter of capacity is only for reference, the capacity and the water content of the sludge may change when different sludge is treated.