

Paper machine applications

Equipment Introduction

A machine use the pulp water slurry which had meet the requirements through the filter dewatering forming, mechanical squeeze dewatering and drying processes to make paper. Paper machine finish above mentioned main craft process such as Forming, pressing and drying. And be equipped with necessary grooming, coiling and transmission device. As well as supply for pulp, slurry and water circulation, vacuum, ventilation exhaust, broken paper processing and lubrication, self-control so on auxiliary system. Paper machine picture see in below.

Process requirements

- Adopt multi-segment electric motor drive, each gear assembly needs to maintain high accuracy synchronization.
- Adjustable line speed system, the rotating speed(rpm) of each gear assembly can be adjusted separately
- When the speed of gear assembly changes, the after gear assembly also changes
- No broken paper and pile paper

EDS1000 frequency inverter transformation feasibility analysis

Adopting multi-turn precision potentiometer control, 1# unit as the preset of the system linear speed, the follow-up units use frequency combination preset method, the analog output of each unit accesses to the next unit of the analog input, using analog can fine-tune directly by inputting YCI.

- Simple structure, safe and reliable, easy operation and maintenance.
- Analog cascade control, the resolution of A01 analog output is mv level. By setting parameters of each gear assembly, to reach the ratio of each machine linkage
- ENC EDS1000 series has excellent steady speed precision in low frequency, high frequency resolution, and the YCI terminals by analog signal to control the forward and flip of the motor.
- Give consideration to performance and cost, can be obtained high-performance control effect at a lower cost.

EDS1000 series frequency inverter transformation

Parameter set:

1# Main frequency inverter parameter set(Fig 1)

Set the function code parameter	Set Value	Set parameter value function
F0.00	04	High precision potentiometer speed adjustment
F0.02	2	External terminal start stop control
F0.08	010.0	Acceleration time (unit: S)
F0.09	005.0	Deceleration time (unit: S)

Fig1

2#~5# Main frequency inverter parameter set. (Fig 2)

Set the function code parameter	Set Value	Set parameter value function
F0.00	8	Combination of a given frequency channel
F2.09=4	4	VCI=YCI Combination of a given frequency select

Fig2

