

Equipment supplier identified by the SINOPEC 中石化装备定点供应商 ;
Syndic unit of SYNETHETIC FIBRE 《合成纤维》理事单位

Technical Attachment

1. Introduction

WELLSUN Batch Type SSP System (WSB-SSP) consists of automatic feeding conveying system, tumble reactor, conduction oil heating system and cooling system, vacuum system , mixing silo, chip cooling and dust removal system, and electrical control system PLC.

2. Main Specifications & Utilities

- A. I.V will be increased from 0.63 ± 0.03 up to 1.025 ± 0.025 (According to your final I.V requirement) ;
- B. Operating temperature : 90– 235 deg C;
- C. Operating Vacuum : less than 0.8 milli bar;
- D. Rotation : less than 3 rpm (VFD driven);
- E. Cooling: The batch will be cooled to 160 deg C before discharging;
- F. N2 purging arrangement required inside SSP in case of abnormal shut-down or equipment fails;
- G. Final product will be discharged into storage silo above the screw extruder.
- H. Installed Power: AC380,50HZ, ~900kw(60% actually used)
- I. Cooling Water (Provided by the buyer): Q= 10T/H, T \leq 25°C, P=0.3MPa
(Water supplement is mainly for vacuum)
- J. HTM : Q=15T (by buyer), T>300°C
- K. Total Area Space required of main SSP device: L40m*W12m*H9m

3. Scope of Supply

No.	Device Name	Quantity
1	3T/H Wet PET Chips Conveying System	1 Set
2	6.5m ³ Overhead Silo	8 PC
3	5T/B(10m ³)Tumble Reactor	8 Sets
4	5T/H Chips Conveying System	1 Set
5	35m ³ Chip Mixing Silo	1 PC
6	chip cooling and dust removal system	1 Set

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7	2T/H Final Chips Conveying System	1 Set
8	Air dryer	1 set
9	Electrical Control System	1 Set

4. Equipment List and Scope of Supply

Note: S---Provided by the seller

B---Provided by the buyer, designed by the seller

1> 3T/H Wet PET Chips Conveying System		1 Set		
No.	Equipment Name	Specification	Qty.	Scope
1	Feeding can	Volume: 2m ³ ,SS	1	S
2	Buffer	SS	1	S
3	Rotary valve	WSHT220, 0.75KW	1	S
4	Sender	SS	1	S
5	Roots blower	11 KW, Motor: Siemens	1	S
6	pipng	DN100	100m	S
7	Valve, flange etc.		1	S
8	Installation		1	B
2> 6.5m ³ Overhead Silo		8 Pcs		
No.	Equipment Name	Specification	Qty.	Scope
1	Overhead Silo	Volume: 6.5m ³ ,SS With 2 pcs of Resistance level gauge.	8	S
2	Installation		1	B

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3> 5T/B(10m ³)Tumble Reactor		8 Sets		
No.	Equipment name	Specification	Qty.	Scope
1	Tumble Reactor	10m ³ , CS&SS	8	S
2	High expansion tank	3m ³ ,with level meter	4	S
3	Oil-gas separator	CS	8	S
4	Circulating pump	Motor: Siemens	8	S
5	HTM heater	60KW	8	S
6	HTM cooler	Air cooler, By air, no chilling water	8	S
7	HTM control valve	CS	8	S
8	Temp. instruments	PT100	16	S
9	Pressure instruments		16	S
10	Separating drum	SS	8	S
12	Vacuum pump set	Each set with 3 pump Siemens motor	8	S
13	Piping, flange, valve etc.		8	S
15	Insulation and painting		8	B
16	Installation		8	B
4> 5T/H Chips Conveying System		1 set		
1	Sender	SS	1	S
2	Roots blower	11 KW, Motor: Siemens	1	S

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3	pipng	DN100	150m	S
4	flange, valve etc.		1	S
15	Insulation and painting		1	B
16	Installation		1	B
5> 35m³ Chip Mixing Silo 1pc				
No.	Equipment Name	Specification	Qty.	Scope
1	Chip Mixing Silo	Volume: 35m ³ ,SS With 2 pcs of Resistance level gauge. With one set of circulating conveyor system	8	S
15	Insulation and painting		1	B
16	Installation		1	B
6> chip cooling and dust removal system 1 set				
1	Rotary valve	WSHT220, 0.75KW	1	S
2	Fluidized bed	SS	1	S
3	Air filter	SS	1	S
4	Blower	CS	1	S
5	Cooler	SS	1	S
6	pipng		1	S
7	flange, valve etc.		1	S
8	Insulation and painting		1	B

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9	Installation		1	B
7> 2T/H Final Chips Conveying System 1 Set				
No.	Equipment name	Specification	Qty.	Scope
1	Rotary valve	WSHT220, 0.75KW	1	S
2	Sender	SS	1	S
3	Roots blower	11 KW, Motor: Siemens	1	S
4	pipng	DN100	100m	S
5	Valve, flange etc.		1	S
6	Installation		1	B
8> Air dryer (ADU) 1 set				
No.	Equipment name	Specification	Qty.	Scope
1	Air compressor	8 Bar, 10Nm3/min	2	S
2	Air tank	10Bar, 1m3	2	S
3	Freezer dryer	8 Bar, 15Nm3/min	1	S
4	Filter	10 Bar, 15Nm3/min	2	S
5	Installation		1	B
9> Electrical control system				
No.	Equipment name	Specification	Qty.	Scope
1	Electric control cabinet for Conveying & SSP & ADU	1.Inverter: Yaskawa 2.Thermometer: Shimada 3.Low-voltage apparatus: Schneider	1	S

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		<p>4. For providing safety of SSP system, equipment protection alarm, safety interlock, circuit and emergency stopping system on the main control circuit and equipments.</p> <p>3. PID calculation, Instrument</p> <p>4.Siemens PLC &HIM Man-machine interaction.</p>		
2	Cable, cable tray etc	The Seller shall provide the BOQ together with procurement data sheet of cable to the Buyer	1	B
3	Installation		1	B

The end.