# Complete lines

Complete turnkey systems from feed hopper to bale dispatch, including electricals, steelwork and commissioning.

13 models in this series. Capacities are indicative and depend on material bulk density, moisture, feed size and target output; a written capacity guarantee is issued against a material sample.

## Lithium battery recycling line SST-L1 series

Discharge, crush and separate black mass from spent packs.

| CONFIGURATION | CAPACITY (T/H) | RECOVERY | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L1-500 | 0.5 - 1 | Black mass 30-40% | about 260 |
| SST-L1-1000 | 1 - 2 | Black mass 30-40% | about 480 |
| SST-L1-3000 | 2 - 5 | Black mass 30-40% | about 900 |

Regulatory requirements for battery transport and storage differ by country; tell us the destination before layout.

## Solar panel recycling line SST-L2 series

Frame removal, glass separation and cell recovery.

| CONFIGURATION | CAPACITY (T/H) | RECOVERY | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L2-500 | 0.5 - 1 | Glass 70%+ | about 180 |
| SST-L2-1500 | 1 - 2 | Glass 70%+ | about 300 |
| SST-L2-3000 | 2 - 3 | Glass 70%+ | about 460 |

Silver and silicon recovery needs a further hydrometallurgical step; we quote the mechanical front end only.

## Cable copper recycling line SST-L3 series

Copper granule from mixed cable, dry and water-free.

| CONFIGURATION | CAPACITY (T/H) | COPPER PURITY | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L3-300 | 0.3 - 0.6 | 98 - 99% | about 60 |
| SST-L3-800 | 0.6 - 1.5 | 98 - 99% | about 130 |
| SST-L3-2000 | 1.5 - 3 | 98 - 99% | about 240 |

Very fine or heavily contaminated cable may need a second electrostatic pass.

## Waste tire recycling line SST-L4 series

Whole tires in, TDF chip or rubber powder out.

| CONFIGURATION | CAPACITY (T/H) | PRODUCT | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L4-TDF | 3 - 10 | Chip 50-150 mm | about 380 |
| SST-L4-P40 | 1 - 3 | Powder 10-40 mesh | about 420 |
| SST-L4-P80 | 0.8 - 2 | Powder 40-80 mesh | about 520 |

Powder purity: steel below 0.1%, fibre below 0.5% with a clean front end.

## Bulky waste disposal line SST-L5 series

Sofas, mattresses and furniture shredded and sorted on site.

| CONFIGURATION | CAPACITY (T/D) | FOOTPRINT (M) | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L5-10 | 10 - 20 | 18 x 10 | about 120 |
| SST-L5-50 | 40 - 60 | 30 x 15 | about 260 |
| SST-L5-100 | 80 - 100 | 45 x 20 | about 400 |

Mattress and carpet feed needs the four-shaft chamber; a twin-shaft machine will wrap.

## C&D waste recycling line SST-L6 series

Demolition rubble to certified recycled aggregate.

| CONFIGURATION | CAPACITY (T/H) | PRODUCTS | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L6-50 | 50 - 80 | 3 | about 220 |
| SST-L6-100 | 100 - 150 | 3 | about 420 |
| SST-L6-200 | 180 - 220 | 4 | about 760 |
| SST-L6-300 | 250 - 300 | 4 | about 1,050 |

Output gradation is confirmed against your local recycled aggregate standard before handover.

## MSW recycling line SST-L7 series

Bag opening, shredding and screening for transfer stations.

| CONFIGURATION | CAPACITY (T/D) | FOOTPRINT (M) | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L7-100 | 100 - 150 | 40 x 18 | about 320 |
| SST-L7-300 | 250 - 350 | 60 x 24 | about 780 |
| SST-L7-600 | 500 - 700 | 90 x 30 | about 1,450 |

Footprint excludes storage bunkers. A site survey and material test normally precede a firm layout.

## E-waste recycling line SST-L8 series

Shred, crush and separate boards, cables and shells.

| CONFIGURATION | CAPACITY (T/H) | RECOVERY | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L8-300 | 0.3 - 0.6 | Metal concentrate | about 90 |
| SST-L8-800 | 0.6 - 1.5 | Metal concentrate | about 180 |
| SST-L8-2000 | 1.5 - 3 | Metal concentrate | about 320 |

Precious metal refining needs a licensed smelter; this line produces the concentrate only.

## Aluminium scrap recycling line SST-L9 series

Shred, crush and separate mixed aluminium scrap.

| CONFIGURATION | CAPACITY (T/H) | RECOVERY | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L9-1000 | 1 - 2 | Al 92-96% | about 180 |
| SST-L9-3000 | 2 - 4 | Al 92-96% | about 340 |
| SST-L9-8000 | 4 - 8 | Al 92-96% | about 620 |

Mixed aluminium grades need a sorting stage or a downstream sensor sorter for alloy separation.

## Aluminium-plastic separation line SST-L10 series

Split aluminium-plastic composite without burning it.

| CONFIGURATION | CAPACITY (T/H) | RECOVERY | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L10-500 | 0.5 - 1 | Al 95%+ | about 70 |
| SST-L10-1500 | 1 - 2 | Al 95%+ | about 130 |
| SST-L10-3000 | 2 - 3 | Al 95%+ | about 190 |

Very thin foil laminates may need two separation passes to reach 95% metal purity.

## Metal scrap recycling line SST-L11 series

Shred, separate and bale mixed ferrous and non-ferrous.

| CONFIGURATION | CAPACITY (T/H) | RECOVERY | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L11-3000 | 3 - 6 | Fe + non-ferrous | about 240 |
| SST-L11-10000 | 6 - 12 | Fe + non-ferrous | about 480 |
| SST-L11-25000 | 12 - 25 | Fe + non-ferrous | about 900 |

Heavy oversize scrap needs a shear first; the crusher is sized for light material.

## Copper-aluminium separation line SST-L12 series

Split copper from aluminium in radiators and composite scrap.

| CONFIGURATION | CAPACITY (T/H) | COPPER PURITY | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L12-500 | 0.5 - 1 | 98%+ | about 80 |
| SST-L12-1500 | 1 - 2 | 98%+ | about 150 |
| SST-L12-4000 | 2 - 4 | 98%+ | about 260 |

Brazed joints with high filler content need a second pass to hold copper purity.

## WEEE appliance recycling line SST-L13 series

Refrigerators, washing machines and AC units taken apart safely.

| CONFIGURATION | CAPACITY (UNITS/H) | RECOVERY | INSTALLED POWER (KW) |
|---|---|---|---|
| SST-L13-20 | 20 - 40 | Metal + plastic | about 160 |
| SST-L13-60 | 50 - 70 | Metal + plastic | about 320 |
| SST-L13-120 | 90 - 120 | Metal + plastic | about 520 |

Refrigerant handling is licensed work in most countries; local rules decide the recovery equipment.

Zhengzhou, Henan, China · sales@shuangshitong.com · +86 159 3629 9993 www.shuangshitong.com