

JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors



DS
001

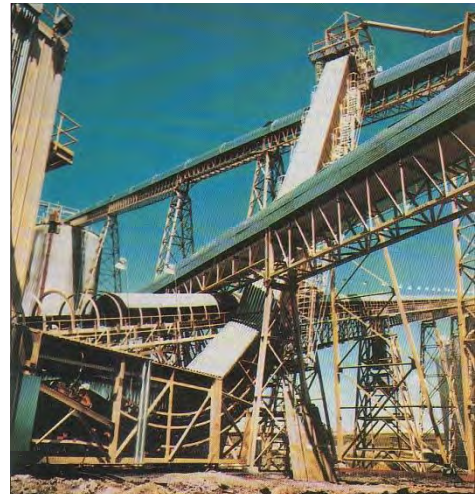
Sandwich Conveyor Test & Demonstration

| | |
|-----------------|--|
| Materials | - Various, from light weight wood chips to heavy course ores |
| - Density | - 0.27 to 2.4 t/cu-m (17 to 150 PCF) |
| - Size | - To 254 mm (10") minus |
| Conveying Rate | - To 2700 t/h (3000 STPH) |
| Conveying Angle | - Variable 30 to 60 degrees |
| Belt Width | - 1524 mm (60") |
| Belt Speed | - Variable to 6.1 m/s (1200 FPM) |
| Lift | - Variable 7,900 to 19,50032 mm (26 to 64') |
| Length | - 35,000 mm (115') |
| Drives | |
| - Top Belt | - 74.6 kW (100 HP) |
| - Bottom Belt | - 111.8 kW (150 HP) |

Sandwich Conveyor for Coal Mine, Western USA

| | |
|-----------------|------------------------|
| Material | - Coal |
| Conveying Rate | - 2540 t/h (2800 STPH) |
| Conveying Angle | - 60 degrees |
| Belt Width | - 1524 mm (60") |
| Belt Speed | - 5.33 m/s (1050 FPM) |
| Lift | - 32,900 mm (108') |
| Length | - 35,000 mm (115') |
| Drives | |
| - Top Belt | - 149 kW (200 HP) |
| - Bottom Belt | - 224 kW (300 HP) |

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002



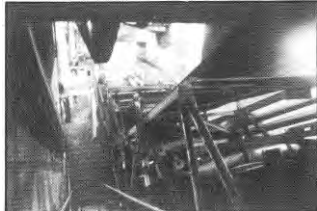
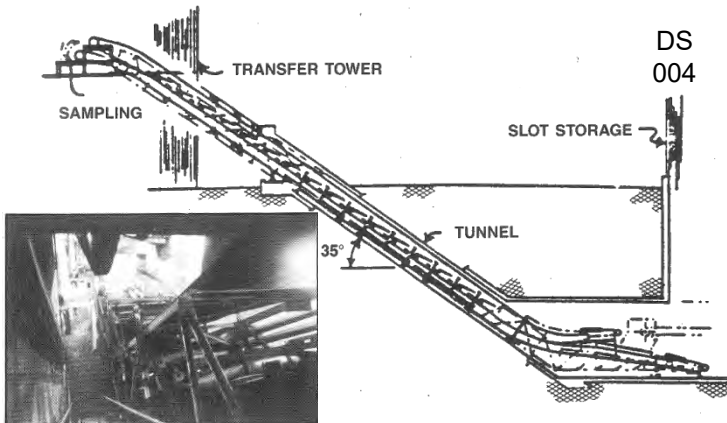
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003

Sandwich Conveyor for Copper Mine, Eastern Europe

| | |
|-----------------|--------------------------|
| Material | - Copper Ore |
| - Density | - 2.08 t/cu-m (130 PCF) |
| - Size | - To 250 mm (10") minus |
| Conveying Rate | - 4000 t/h (4409 STPH) |
| Conveying Angle | - 35.5 degrees |
| Belt Width | - 2000 mm (78.7") |
| Belt Speed | - 2.85 m/s (561 FPM) |
| Lift | - 93,500 mm (307') |
| Drives | |
| - Top Belt | - 450 kW (600 HP) |
| - Bottom Belt | - 2x450=900 kW (1200 HP) |

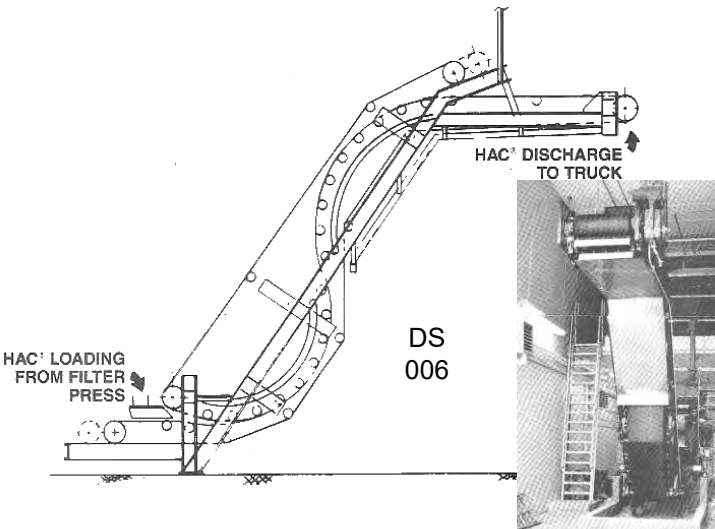
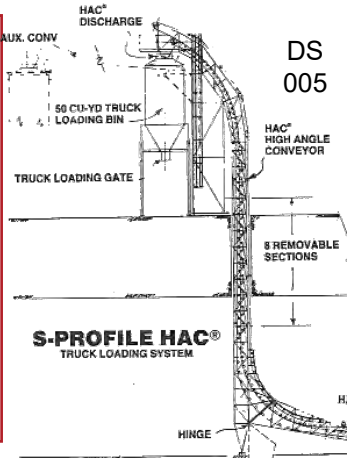
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Sandwich Belt High Angle Conveyors



| Sandwich Conveyor for Coal Mine, Western USA | |
|--|------------------------|
| Material | - Coal |
| Conveying Rate | - 2903 t/h (3200 STPH) |
| Conveying Angle | - 35 degrees |
| Belt Width | - 1829 mm (72") |
| Belt Speed | - 4.57 m/s (900 FPM) |
| Lift | - 29,000 mm (95') |
| Drives | |
| - Top Belt | - 149 kW (200 HP) |
| - Bottom Belt | - 224 kW (300 HP) |

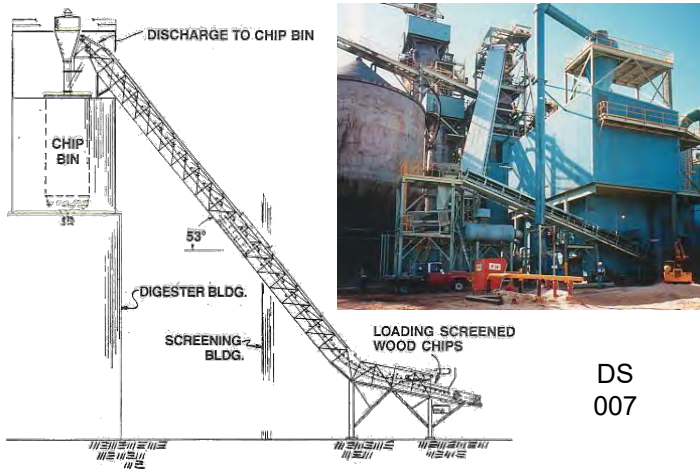
| Sandwich Conveyor for Metro Project, Los Angeles, CA, USA | |
|---|----------------------|
| Material | - Excavated Earth |
| Conveying Rate | - 272 t/h (300 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 1.6 m/s (315 FPM) |
| Lift | - 32,300 mm (106') |
| Drives | |
| - Top Belt | - 22.4 kW (30 HP) |
| - Bottom Belt | - 22.4 kW (30 HP) |



| Sandwich Conveyor for Waste Treatment Plant, Eastern USA | |
|--|-------------------------|
| Material | - Municipal Sludge |
| Conveying Rate | - 272 kgs/h (600 lbs/h) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 610 mm (24") |
| Belt Speed | - .3 m/s (60 FPM) |
| Lift | - 3,660 mm (12') |
| Drive | |
| - Bottom Belt | - 2.2 kW (3 HP) |

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Sandwich Belt High Angle Conveyors



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007

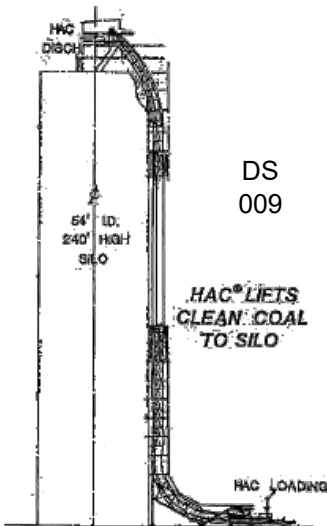
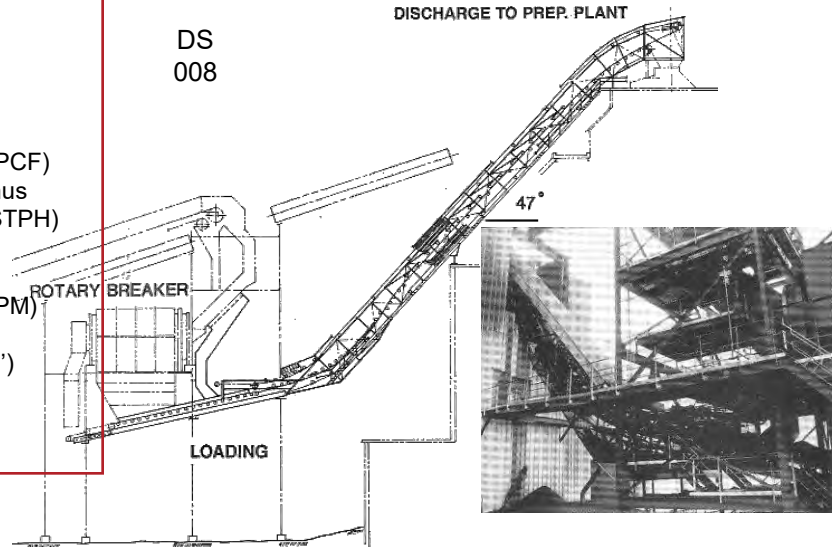
Sandwich Conveyor for Paper Mill, Western USA

| | |
|-----------------|------------------------|
| Material | - Wood Chips |
| - Density | - 0.27 t/cu-m (17 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 173 t/h (191 STPH) |
| Conveying Angle | - 53 degrees |
| Belt Width | - 1219 mm (48") |
| Belt Speed | - 2.03 m/s (400 FPM) |
| Lift | - 32,600 mm (107') |
| Length | - 49,300 mm (162') |
| Drives | |
| - Top Belt | - 22.4 kW (30 HP) |
| - Bottom Belt | - 22.4 kW (30 HP) |

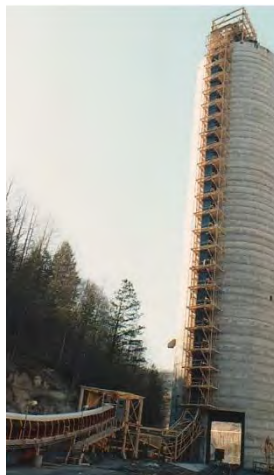
Sandwich Conveyor for Coal Prep Plant, Eastern USA

| | |
|-----------------|------------------------|
| Material | - Raw Coal |
| - Density | - 1.04 t/cu-m (65 PCF) |
| - Size | - 152 mm (6") minus |
| Conveying Rate | - 1089 t/h (1200 STPH) |
| Conveying Angle | - 47 degrees |
| Belt Width | - 1372 mm (54") |
| Belt Speed | - 2.79 m/s (550 FPM) |
| Lift | - 21,900 mm (72') |
| Length | - 40,200 mm (132') |
| Drives | |
| - Top Belt | - 56 kW (75 HP) |
| - Bottom Belt | - 56 kW (75 HP) |

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DS
009



Sandwich Conveyor for Coal Prep Plant, Eastern USA

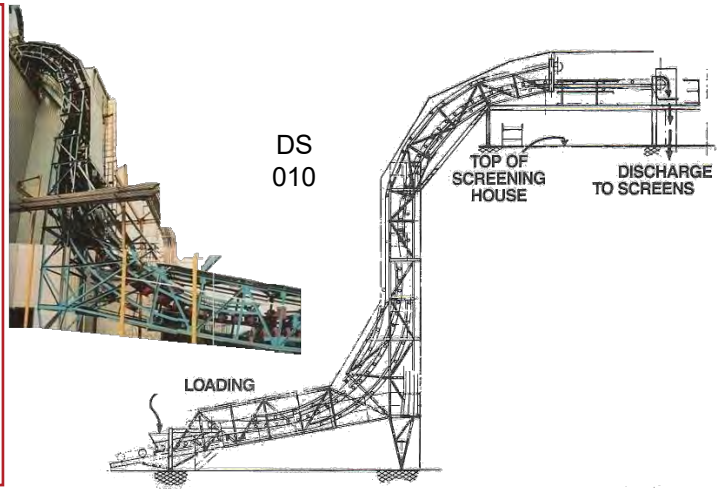
| | |
|-----------------|-----------------------|
| Material | - Clean Coal |
| - Density | - 0.8 t/cu-m (50 PCF) |
| - Size | - 127 mm (5") minus |
| Conveying Rate | - 726 t/h (800 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1372 mm (54") |
| Belt Speed | - 2.79 m/s (550 FPM) |
| Lift | - 76,200 mm (250') |
| Length | - 90,200 mm (296') |
| Drives | |
| - Top Belt | - 112 kW (150 HP) |
| - Bottom Belt | - 112 kW (150 HP) |

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Sandwich Belt High Angle Conveyors

Sandwich Conveyor for Paper Mill, Western USA

| | |
|-----------------|---------------------------|
| Material | - Wood Chips |
| - Density | - 0.275 t/cu-m (17.2 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 65.3 t/h (72 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 2.03 m/s (400 FPM) |
| Lift | - 15,500 mm (51') |
| Length | - 31,400 mm (103') |
| Drives | |
| - Top Belt | - 7.5 kW (10 HP) |
| - Bottom Belt | - 7.5 kW (10 HP) |



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011

Sandwich Conveyor for Coal Mine, Western USA

| | |
|-----------------|-------------------------|
| Material | - Raw Coal |
| - Density | - 0.961 t/cu-m (60 PCF) |
| - Size | - 203 mm (8") minus |
| Conveying Rate | - 1089 t/h (1200 STPH) |
| Conveying Angle | - 67 degrees |
| Belt Width | - 1372 mm (54") |
| Belt Speed | - 3.56 m/s (700 FPM) |
| Lift | - 33,200 mm (109') |
| Length | - 46,000 mm (151') |
| Drives | |
| - Top Belt | - 93.2 kW (125 HP) |
| - Bottom Belt | - 93.2 kW (125 HP) |

Sandwich Conveyor for Coal Prep Plant, Eastern USA

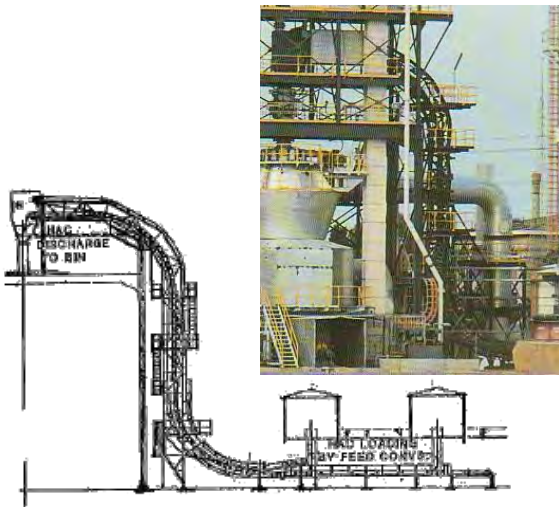
| | |
|-----------------|------------------------|
| Material | - Refuse |
| - Density | - 1.28 t/cu-m (80 PCF) |
| - Size | - 135 mm (5.3") minus |
| Conveying Rate | - 454 t/h (500 STPH) |
| Conveying Angle | - To 41 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 2.34 m/s (460 FPM) |
| Lift | - 174,800 mm (574') |
| Length | - 454,200 mm (1490') |
| Drives | |
| - Top Belt | - 186.5 kW (250 HP) |
| - Bottom Belt | - 186.5 kW (250 HP) |

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Sandwich Belt High Angle Conveyors



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Sandwich Conveyor for Cement Plant, Australia

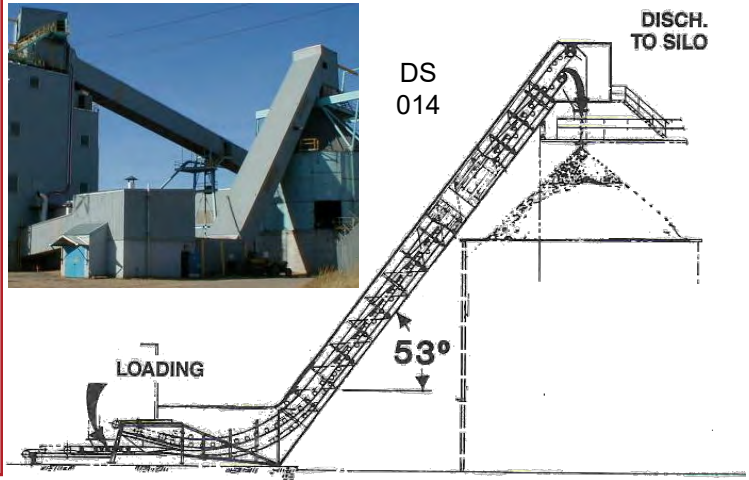
| | |
|-----------------|---------------------------|
| Material | - Gypsum, Slag |
| - Density | - 0.968 t/cu-m (60.4 PCF) |
| - Size | - 30 mm (1.2") minus |
| Conveying Rate | - 50 t/h (55 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 600 mm (23.6") |
| Belt Speed | - 1.67 m/s (329 FPM) |
| Lift | - 16,200 mm (53') |
| Length | - 37,800 mm (124') |
| Drives | |
| - Top Belt | - 7.5 kW (10 HP) |
| - Bottom Belt | - 7.5 kW (10 HP) |

Sandwich Conveyor for Pulp Mill, Eastern Canada

| | |
|-----------------|-------------------------|
| Material | - Wood Chips |
| - Density | - 0.336 t/cu-m (21 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 375 t/h (414 STPH) |
| Conveying Angle | - 53 degrees |
| Belt Width | - 1219 mm (48") |
| Belt Speed | - 2.67 m/s (525 FPM) |
| Lift | - 22,900 mm (75') |
| Length | - 40,500 mm (133') |
| Drives | |
| - Top Belt | - 44.8 kW (60 HP) |
| - Bottom Belt | - 44.8 kW (60 HP) |



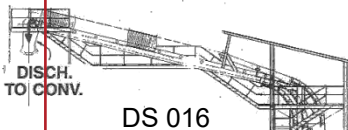
DS
014



Unit 016

| | |
|-----------------|-------------------------|
| Material | - Mixed Compost |
| - Density | - 0.545 t/cu-m (34 PCF) |
| Conveying Rate | - 40.2 t/h (44.4 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 1.27 m/s (250 FPM) |
| Lift | - 12,900 mm (42.5') |
| Length | - 31,800 mm (104.5') |
| Drive | |
| - Bottom Belt | - 11.2 kW (15 HP) |

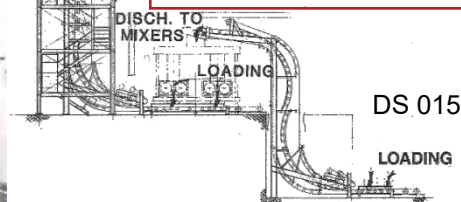
Sandwich Conveyors for Composting Plant, Eastern USA



DS 016

Unit 015

| | |
|-----------------|---------------------------|
| Material | - Unmixed Compost |
| - Density | - 0.564 t/cu-m (35.2 PCF) |
| Conveying Rate | - 40.2 t/h (44.4 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 1.27 m/s (250 FPM) |
| Lift | - 9,000 mm (29.5') |
| Length | - 17,500 mm (57.5') |
| Drive | |
| - Bottom Belt | - 11.2 kW (15 HP) |



DS 015

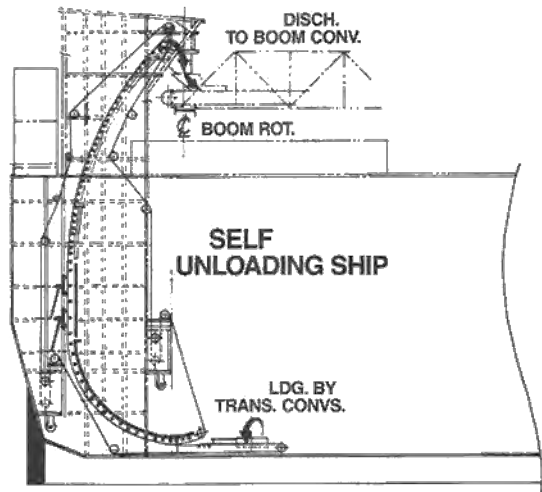
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Sandwich Belt High Angle Conveyors

Sandwich Conveyor for Self-Unloading Ship, Mexico

| | |
|-----------------|-------------------------|
| Material | - Various Grains |
| - Density | - 0.721 t/cu-m (45 PCF) |
| Conveying Rate | - 584 t/h (644 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1524 mm (60") |
| Belt Speed | - 4.06 m/s (800 FPM) |
| Lift | - 18,900 mm (62') |
| Length | - 27,400 mm (90') |
| Drives | |
| - Inner Belt | - 56 kW (75 HP) |
| - Outer Belt | - 56 kW (75 HP) |

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017



DISCHARGE
TO BOOM CONVEYOR

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018

COMPLETE SYSTEM
FOR SELF UNLOADER

LOADING TAIL FROM HOLDS ABOVE

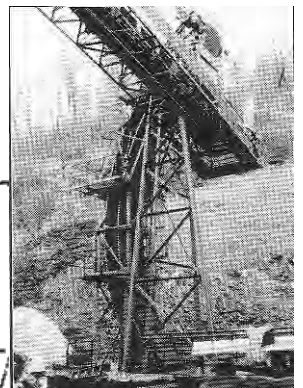
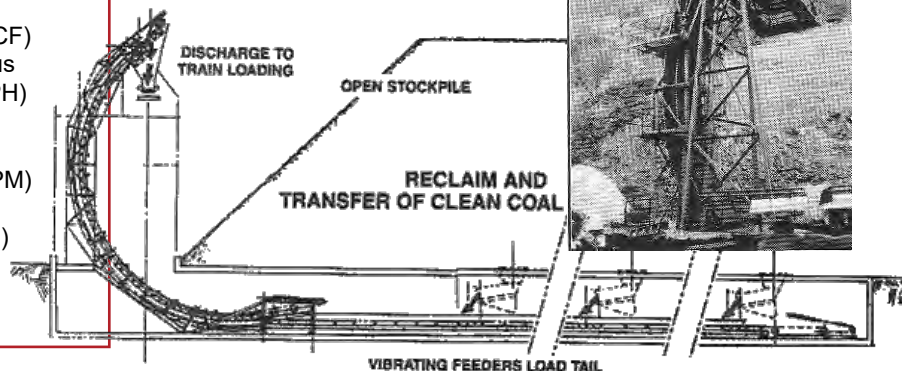
Sandwich Conveyor for Self-Unloading Ship, Mexico

| | |
|-----------------|-------------------------|
| Material | - Various Grains |
| - Density | - 0.721 t/cu-m (45 PCF) |
| Conveying Rate | - 1361 t/h (1500 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1829 mm (72") |
| Belt Speed | - 4.06 m/s (800 FPM) |
| Lift | - 17,800 mm (58.5') |
| Length | - 123,000 mm (404') |
| Drives | |
| - Inner Belt | - 112 kW (150 HP) |
| - Outer Belt | - 112 kW (150 HP) |

Sandwich Conveyor for Coal Mine, Eastern USA

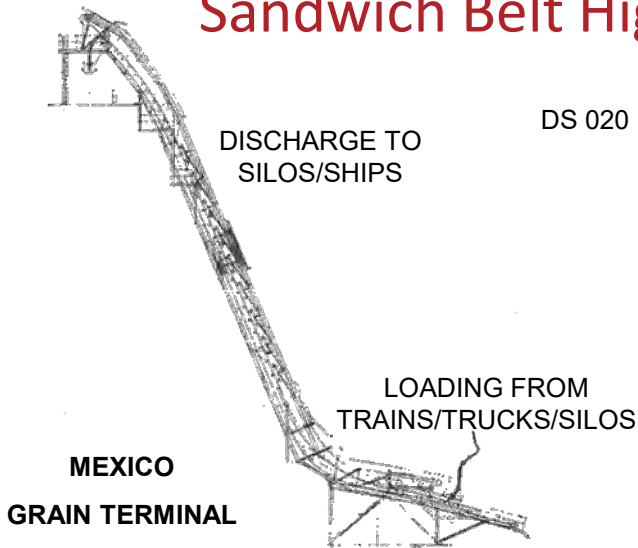
| | |
|-----------------|-----------------------|
| Material | - Clean Coal |
| - Density | - 0.8 t/cu-m (50 PCF) |
| - Size | - 6 mm (1/4") minus |
| Conveying Rate | - 544 t/h (600 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1372 mm (54") |
| Belt Speed | - 2.79 m/s (550 FPM) |
| Lift | - 16,100 mm (53') |
| Length | - 69,400 mm (228') |
| Drives | |
| - Inner Belt | - 37.3 kW (50 HP) |
| - Outer Belt | - 75 kW (100 HP) |

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Sandwich Belt High Angle Conveyors

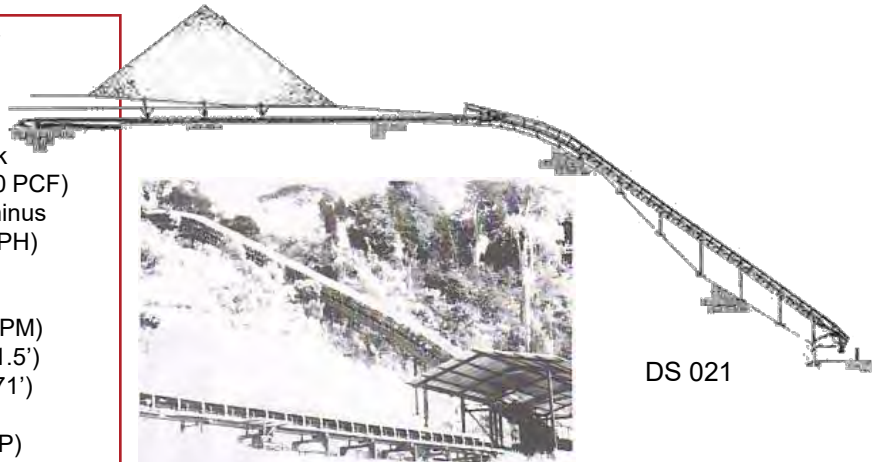


Sandwich Conveyor for Grain Distribution Terminal, Mexico

| | |
|-----------------|-------------------------|
| Material | - Various Grains |
| - Density | - 0.721 t/cu-m (45 PCF) |
| - Size | - 50 mm (2") minus |
| Conveying Rate | - 907 t/h (1000 STPH) |
| Conveying Angle | - 65 degrees |
| Belt Width | - 1372 mm (54") |
| Belt Speed | - 3.73 m/s (735 FPM) |
| Lift | - 30,700 mm (100.6') |
| Length | - 44,200 mm (145.2') |
| Drives | |
| - Top Belt | - 75 kW (100 HP) |
| - Bottom Belt | - 75 kW (100 HP) |

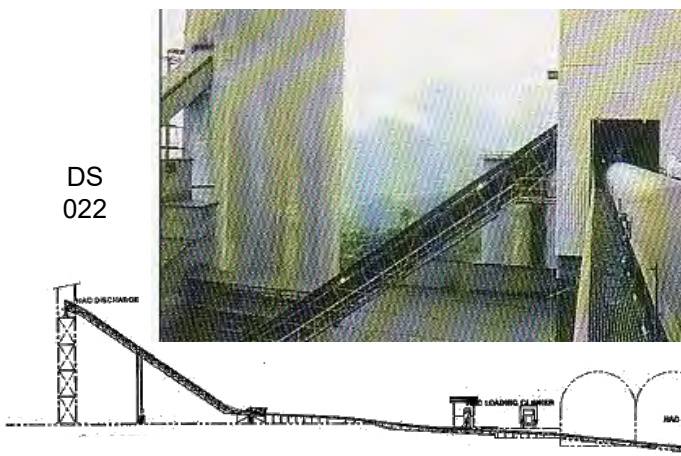
Downhill Sandwich Conveyor from Phosphate Mine, Venezuela

| | |
|-----------------|-------------------------|
| Material | - Phosphate Rock |
| - Density | - 1.60 t/cu-m (100 PCF) |
| - Size | - 6.3 mm (1/4") minus |
| Conveying Rate | - 668 t/h (736 STPH) |
| Conveying Angle | - 35.5 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 2.29 m/s (450 FPM) |
| Elevation Drop | - 34,000 mm (111.5') |
| Length | - 113,000 mm (371') |
| Drive | |
| - Bottom Belt | - 93.2 kW (125 HP) |



Sandwich Conveyor for Cement Plant, Mexico

| | |
|-----------------|-----------------------------|
| Material | - Clinker, Gypsum, Pozzolan |
| - Density | - 1.36 t/cu-m (85 PCF) |
| - Size | - 100 mm (3.9") minus |
| - Temperature | - Clinker to 200 deg C |
| Conveying Rate | - 715 t/h (788 STPH) |
| Conveying Angle | - 35 degrees |
| Belt Width | - 1219 mm (48") |
| Belt Speed | - 1.73 m/s (340 FPM) |
| Lift | - 40,950 mm (134.3') |
| Length | - 198,900 mm (653') |
| Drives | |
| - Top Belt | - 55.9 kW (50 HP) |
| - Bottom Belt | - 111.9 kW (100 HP) |



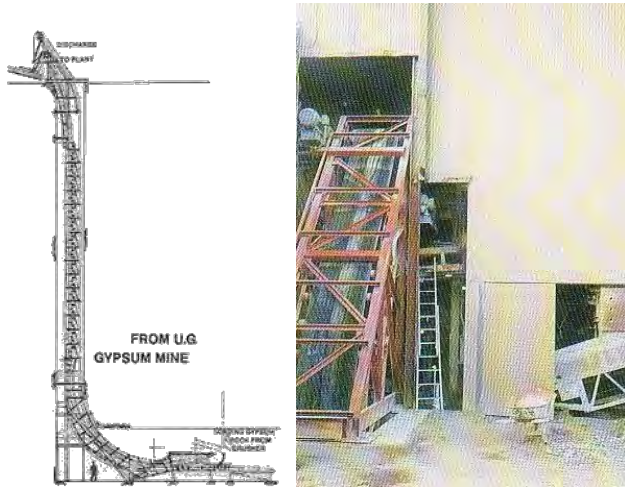
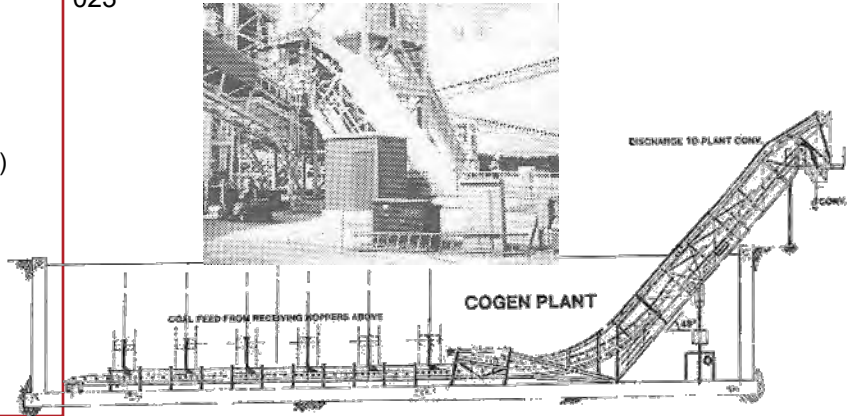
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Sandwich Belt High Angle Conveyors

Sandwich Conveyor at Power Plant, Eastern USA

DS
023

| | |
|-----------------|------------------------|
| Material | - Coal |
| - Density | - 0.80 t/cu-m (50 PCF) |
| - Size | - 102 mm (4") minus |
| Conveying Rate | - 1814 t/h (2000 STPH) |
| Conveying Angle | - 48 degrees |
| Belt Width | - 1829 mm (72") |
| Belt Speed | - 3.56 m/s (700 FPM) |
| Lift | - 14,200 mm (46.6') |
| Length | - 57,000 mm (187') |
| Drives | |
| - Top Belt | - 75 kW (100 HP) |
| - Bottom Belt | - 112kW (150 HP) |



DS
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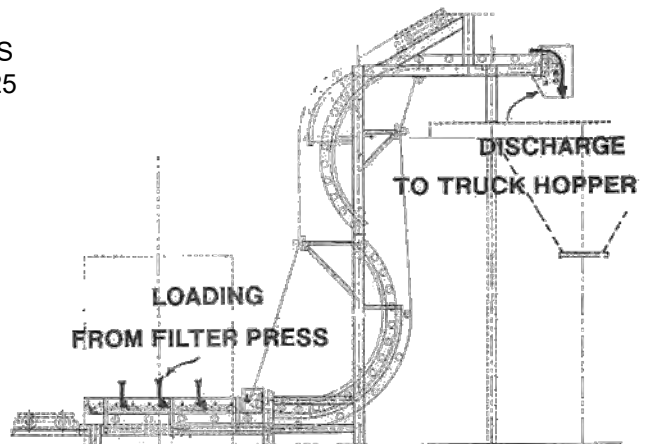
Sandwich Conveyor at Underground Gypsum Mine, Eastern USA

| | |
|-----------------|-------------------------|
| Material | - Gypsum Rock |
| - Density | - 1.70 t/cu-m (106 PCF) |
| - Size | - 152 mm (6") minus |
| Conveying Rate | - 363 t/h (400 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1067 mm (42") |
| Belt Speed | - 1.52 m/s (300 FPM) |
| Lift | - 36,600 mm (120') |
| Length | - 48,500 mm (159') |
| Drives | |
| - Top Belt | - 37.3 kW (50 HP) |
| - Bottom Belt | - 37.3 kW (50 HP) |

Sandwich Conveyor for Sludge Dewatering Plant, Midwest USA

DS
025

| | |
|-----------------|-----------------------|
| Material | - Sewage Sludge |
| - Density | - .64 t/cu-m (40 PCF) |
| - Size | - 51 mm (2") minus |
| Conveying Rate | - 9.1 t/h (10 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 610 mm (24") |
| Belt Speed | - 1.22 m/s (240 FPM) |
| Lift | - 7,100 mm (23.2') |
| Length | - 16,100 mm (53') |
| Drive | |
| - Bottom Belt | - 11.2 kW (15 HP) |



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Sandwich Belt High Angle Conveyors

Unit 026

| | |
|-----------------|------------------------|
| Material | - Raw Coal |
| - Density | - 0.88 t/cu-m (55 PCF) |
| - Size | - 203 mm (8") minus |
| Conveying Rate | - 1361 t/h (1500 STPH) |
| Conveying Angle | - 51 degrees |
| Belt Width | - 1524 mm (60") |
| Belt Speed | - 3.56 m/s (700 FPM) |
| Lift | - 23,200 mm (76') |
| Length | - 44,800 mm (147') |
| Drives | |
| - Top Belt | - 93.2 kW (125 HP) |
| - Bottom Belt | - 93.2 kW (125 HP) |

Sandwich Conveyors for Coal Mine, Western USA



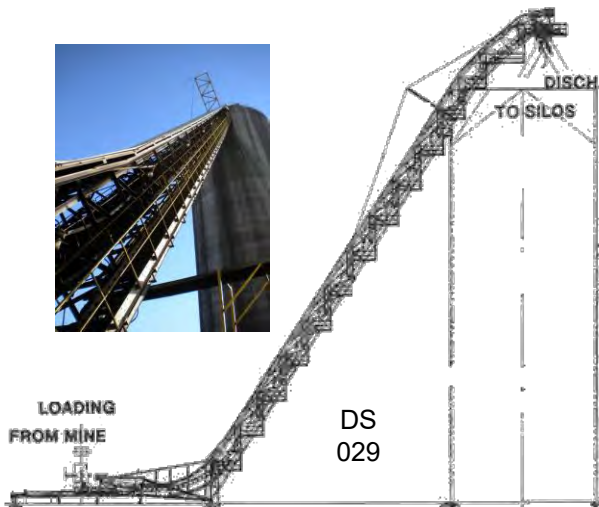
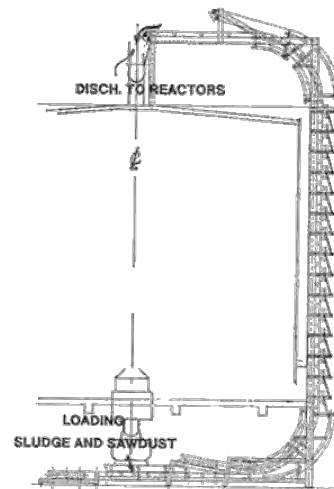
Unit 027

| | |
|-----------------|------------------------|
| Material | - Oversize Coal |
| - Density | - 1.04 t/cu-m (65 PCF) |
| - Size | - 2033X51mm (8"x2") |
| Conveying Rate | - 272 t/h (300 STPH) |
| Conveying Angle | - 35 degrees |
| Belt Width | - 1219 mm (48") |
| Belt Speed | - 1.27 m/s (250 FPM) |
| Lift | - 14,900 mm (49') |
| Length | - 38,200 mm (125.5') |
| Drives | |
| - Top Belt | - 14.9 kW (20 HP) |
| - Bottom Belt | - 14.9 kW (20 HP) |

Sandwich Conveyor for Composting Plant, Eastern Canada

| | |
|-----------------|------------------------|
| Material | - Dewatered Sludge |
| - Density | - 0.72 t/cu-m (45 PCF) |
| Conveying Rate | - 109 t/h (120 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 1.52 m/s (300 FPM) |
| Lift | - 21,300 mm (70') |
| Length | - 36,900 mm (121') |
| Drives | |
| - Inner Belt | - 18.6 kW (25 HP) |
| - Outer Belt | - 18.6 kW (25 HP) |

DS
028



DS
029

Sandwich Conveyor for Coal Mine, Western USA

| | |
|-----------------|------------------------|
| Material | - Coal |
| - Density | - 0.88 t/cu-m (55 PCF) |
| - Size | - 51 mm (2") minus |
| Conveying Rate | - 1949 t/h (2150 STPH) |
| Conveying Angle | - 57 degrees |
| Belt Width | - 1829 mm (72") |
| Belt Speed | - 3.81 m/s (750 FPM) |
| Lift | - 54,200 mm (178') |
| Length | - 90,800 mm (298') |
| Drives | |
| - Top Belt | - 186 kW (250 HP) |
| - Bottom Belt | - 298 kW (400 HP) |

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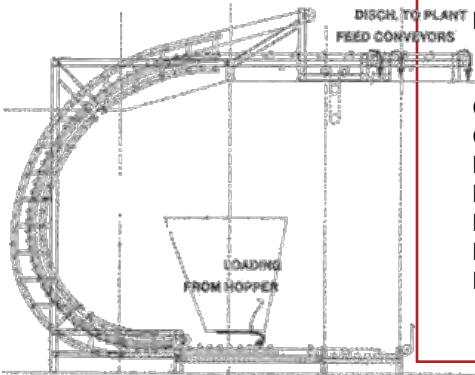
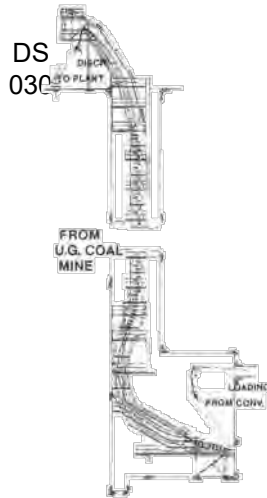
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JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors

Sandwich Conveyor at Underground Coal Mine, Midwest USA

| | |
|-----------------|------------------------|
| Material | - ROM Coal |
| - Density | - 0.88 t/cu-m (55 PCF) |
| - Size | - 228 mm (9") minus |
| Conveying Rate | - 1361 t/h (1500 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1524 mm (60") |
| Belt Speed | - 4.57 m/s (900 FPM) |
| Lift | - 104,000 mm (342') |
| Length | - 115,000 mm (377') |
| Drives | |
| - Top Belt | - 298 kW (400 HP) |
| - Bottom Belt | - 298 kW (400 HP) |



Sandwich Conveyors at Synfuel Plants, South Africa

| Units DS | - 031 | 032 | 033 | 034 | 035 |
|-----------------|--|-----|--------------------------------|-----|-----|
| Material | - Coal..... | | | | |
| - Density | -0.85 t/cu-m (53.1 PCF)..... | | | | |
| - Size | -6 mm (1/4")..... | | | | |
| Conveying Rate | -400 t/h (441 STPH)..... | | -600 t/h (661 STPH)..... | | |
| Conveying Angle | -90 degrees..... | | | | |
| Belt Width | -1200 mm (47.2")..... | | -1350 (53.1")..... | | |
| Belt Speed | -2.2 m/s (433 FPM)..... | | -2.6 m/s (512 FPM)..... | | |
| Lift | -13,300 mm (43.5')..... | | | | |
| Length | - 37m(121')...38m(125')...41m(134')..... | | -38m(125')..... | | |
| Drives | | | | | |
| - Inner Belt | -30 kW (40.2 HP)..... | | -40 kW (53.6 HP)..... | | |
| - Outer Belt | -30 kW (40.2 HP)..... | | -40 kW (53.6 HP)..... | | |

Sandwich Conveyor for Gold Mine, Western USA

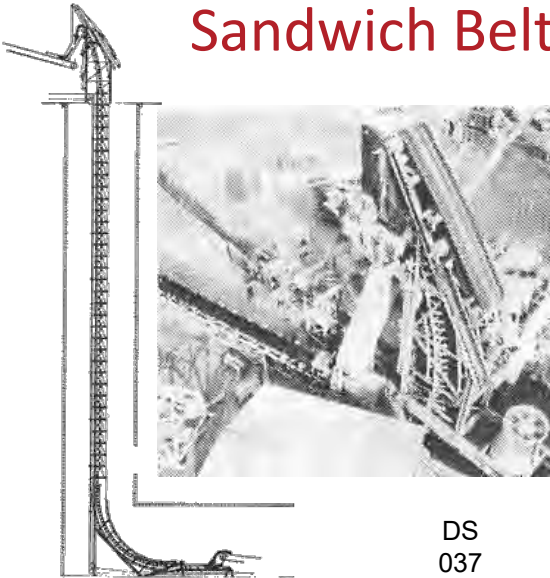
| | |
|-----------------|------------------------|
| Material | - Gold Ore |
| - Density | - 1.6 t/cu-m (100 PCF) |
| - Size | - 250 mm (10") minus |
| Conveying Rate | - 689 t/h (760 STPH) |
| Conveying Angle | - 50 degrees |
| Belt Width | - 1219 mm (48") |
| Belt Speed | - 1.65 m/s (325 FPM) |
| Lift | - 28,900 mm (95') |
| Length | - 58,400 mm (191.5') |
| Drives | |
| - Top Belt | - 37.3 kW (50 HP) |
| - Bottom Belt | - 56 kW (75 HP) |



DS
036

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Sandwich Belt High Angle Conveyors



DS
037

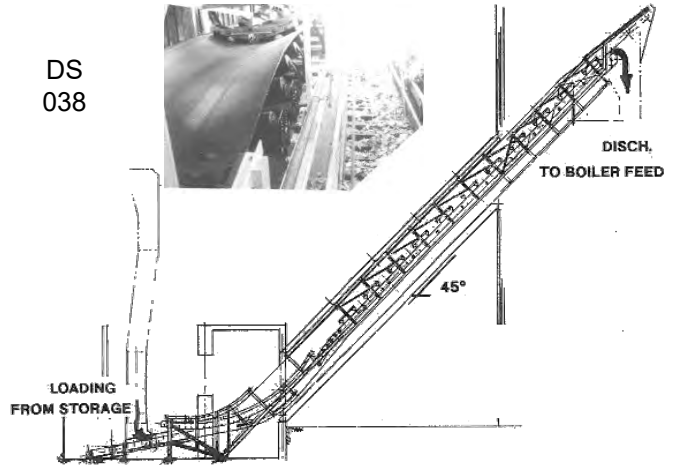
Sandwich Conveyor at Tunnel Excavation Project, Midwest USA

| | |
|-----------------|-------------------------------------|
| Material | - TBM Muck |
| - Density | - 1.1 to 1.3 t/cu-m (85 to 105 PCF) |
| - Size | - 152 mm (6") minus |
| Conveying Rate | - 1266 t/h (1395 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1372 mm (54") |
| Belt Speed | - 3.56 m/s (700 FPM) |
| Lift | - 70,000 mm (230') |
| Length | - 83,800 mm (275') |
| Drives | |
| - Top Belt | - 186 kW (250 HP) |
| - Bottom Belt | - 186 kW (250 HP) |

Sandwich Conveyor for Refuse Power Plant, Eastern USA

| | |
|-----------------|----------------------------|
| Material | - Refused Derived Fuel-RDF |
| - Density | - 0.19 t/cu-m (15 PCF) |
| - Size | - 203 mm (8") minus |
| Conveying Rate | - 45.3 t/h (50 STPH) |
| Conveying Angle | - 45 degrees |
| Belt Width | - 1372 mm (54") |
| Belt Speed | - 1.15 m/s (227 FPM) |
| Lift | - 23,800 mm (78') |
| Length | - 40,200 mm (132') |
| Drive | |
| - Bottom Belt | - 15 kW (20 HP) |

DS
038



Sandwich Conveyor Unit 039 for CoGen Power Plant, Eastern USA

| | |
|-----------------|------------------------|
| Material | - Coal |
| - Density | - 1.12 t/cu-m (70 PCF) |
| - Size | - 51 mm (2") minus |
| Conveying Rate | - 236 t/h (260 STPH) |
| Conveying Angle | - 55 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 2.29 m/s (450 FPM) |
| Lift | - 28,300 mm (93') |
| Length | - 60,400 mm (199') |
| Drives | |
| - Top Belt | - 22.4 kW (30 HP) |
| - Bottom Belt | - 22.4 kW (30 HP) |

DS
040

Sandwich Conveyor Unit 040 for CoGen Power Plant, Eastern USA

| | |
|-----------------|------------------------|
| Material | - Coal |
| - Density | - 1.12 t/cu-m (70 PCF) |
| - Size | - 6.3 mm (1/4") minus |
| Conveying Rate | - 236 t/h (260 STPH) |
| Conveying Angle | - 60/45 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 2.29 m/s (450 FPM) |
| Lift | - 48,500 mm (159') |
| Length | - 75,000 mm (246') |
| Drives | |
| - Top Belt | - 30 kW (40 HP) |
| - Bottom Belt | - 37.3 kW (50 HP) |

DS
039

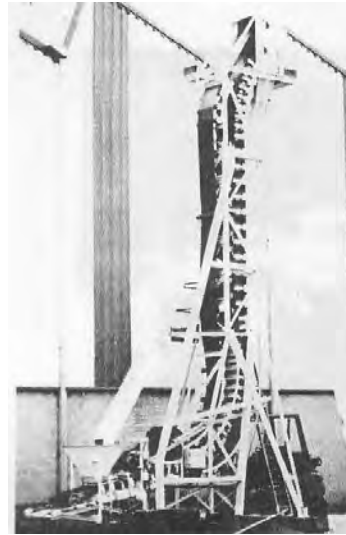
JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors

Sandwich Conveyor Demonstration Unit, England

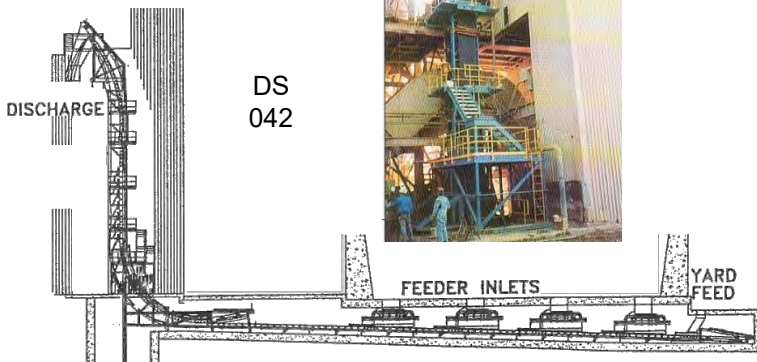
| | |
|-----------------|-------------------------------------|
| Material | - Various |
| - Density | - 0.65 to 1.3 t/cu-m (40 to 80 PCF) |
| - Size | - 50 mm (2") minus |
| Conveying Rate | - 49 t/h (54 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 500 mm (20") |
| Belt Speed | - 2.5 m/s (480 FPM) |
| Lift | - 9,000 mm (29.5') |
| Length | - 11,300 mm (38.2') |
| Drives | |
| - Top Belt | - 3 kW (4 HP) |
| - Bottom Belt | - 3 kW (4 HP) |

DS
041



Sandwich Conveyor for Cement Plant, Southeast USA

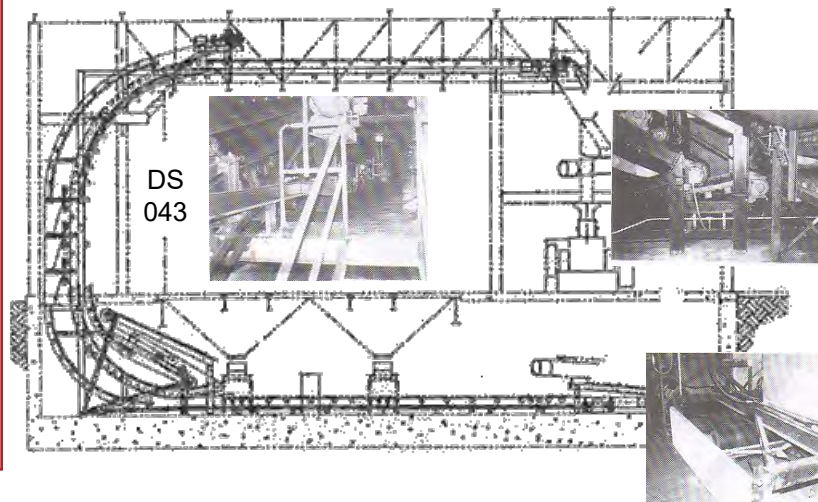
| | |
|-----------------|------------------------|
| Material | - Limestone Mix |
| - Density | - 1.6 t/cu-m (100 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 227 t/h (250 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 2.8 m/s (557 FPM) |
| Lift | - 28,500 mm (93.5') |
| Length | - 75,300 mm (247') |
| Drives | |
| - Top Belt | - 30 kW (40 HP) |
| - Bottom Belt | - 37 kW (50HP) |



DS
042

Sandwich Conveyor for Coal Power Plant, Alaska USA

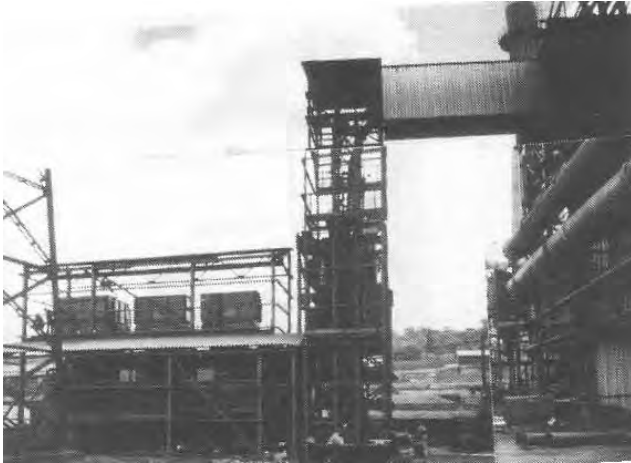
| | |
|-----------------|-----------------------|
| Material | - Sized Coal |
| - Density | - 0.8 t/cu-m (50 PCF) |
| - Size | - 152 mm (6") minus |
| Conveying Rate | - 136 t/h (150 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1067 mm (42") |
| Belt Speed | - 1.51 m/s (297 FPM) |
| Lift | - 11,600 mm (38') |
| Length | - 42,600 mm (140') |
| Drives | |
| - Inner Belt | - 11.2 kW (15 HP) |
| - Outer Belt | - 14.9 kW (20 HP) |



DS
043

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Sandwich Belt High Angle Conveyors



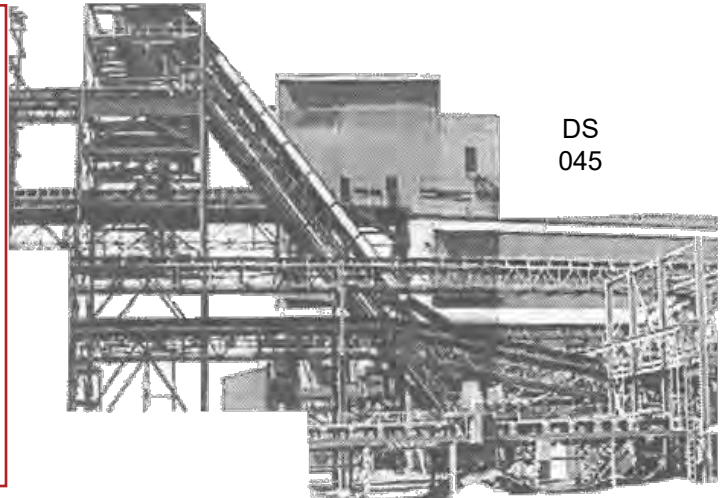
DS 044

Sandwich Conveyor for Nickel Copper Mine, Zimbabwe

| | |
|-----------------|------------------------------|
| Material | - Cu Residue, Coal, Pyrite |
| - Density | - To 3.0 t/cu-m (to 187 PCF) |
| - Size | - 20 mm (.79") minus |
| Conveying Rate | - 7 t/h (7.7 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 500 mm (20") |
| Belt Speed | - 0.75 m/s (148 FPM) |
| Lift | - 15,900 mm (52.2') |
| Length | - 67,000 mm (220') |
| Drive | |
| - Bottom Belt | - 6 kW (8 HP) |

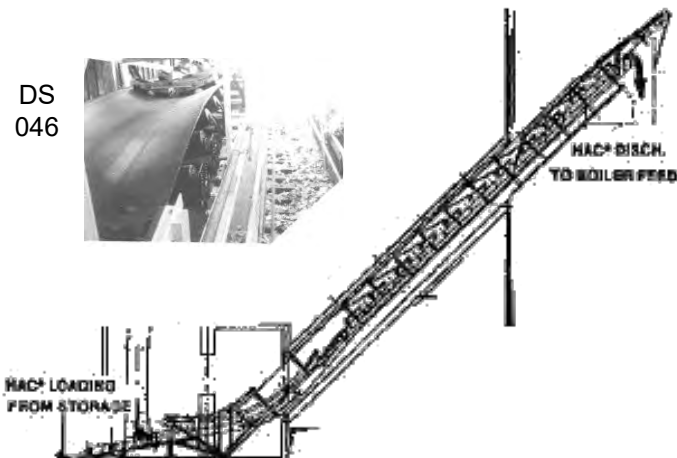
Sandwich Conveyor for Iron Ore Mine, South Africa

| | |
|-----------------|-------------------------|
| Material | - Iron Ore |
| - Density | - 2.54 t/cu-m (159 PCF) |
| - Size | - 25 mm (1") minus |
| Conveying Rate | - 4250 t/h (4685 STPH) |
| Conveying Angle | - 53.5 degrees |
| Belt Width | - 1800 mm (70.9") |
| Belt Speed | - 3.1 m/s (610 FPM) |
| Lift | - 17,500 mm (57.4') |
| Length | - 37,000 mm (121.4') |
| Drives | |
| - Top Belt | - 220 kW (295 HP) |
| - Bottom Belt | - 220 kW (295 HP) |



DS
045

DS
046



Sandwich Conveyor for Refuse Power Plant, Eastern USA

| | |
|-----------------|----------------------------|
| Material | - Refused Derived Fuel-RDF |
| - Density | - 0.19 t/cu-m (15 PCF) |
| - Size | - 203 mm (8") minus |
| Conveying Rate | - 45.3 t/h (50 STPH) |
| Conveying Angle | - 45 degrees |
| Belt Width | - 1372 mm (54") |
| Belt Speed | - 1.52 m/s (300 FPM) |
| Lift | - 23,800 mm (78') |
| Length | - 40,200 mm (132') |
| Drive | |
| - Bottom Belt | - 15 kW (20 HP) |

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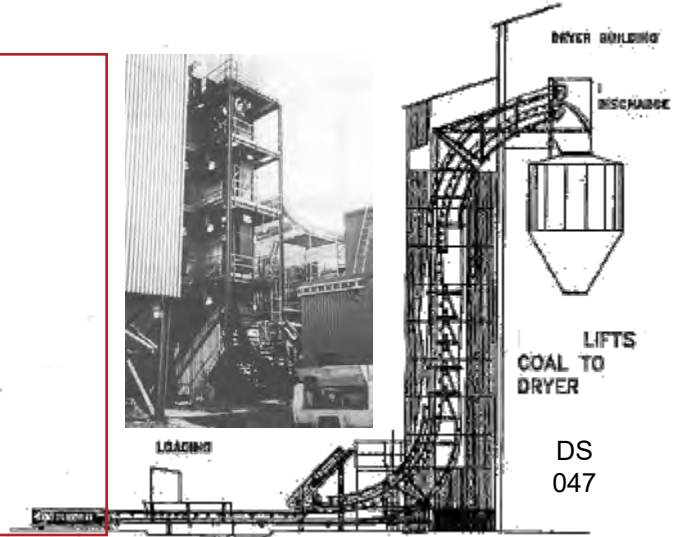
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JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors

Sandwich Conveyor at Coal Mine, Western Canada

| | |
|-----------------|-------------------------------|
| Material | - Sized Coal |
| - Density | - 0.80 to 1.3 t/cu-m (50 PCF) |
| - Size | - 50 mm (2") minus |
| Conveying Rate | - 200 t/h (220 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 2.54 m/s (500 FPM) |
| Lift | - 17,400 mm (57') |
| Length | - 28,800 mm (95') |
| Drives | |
| - Top Belt | - 22.4 kW (30 HP) |
| - Bottom Belt | - 22.4 kW (30 HP) |

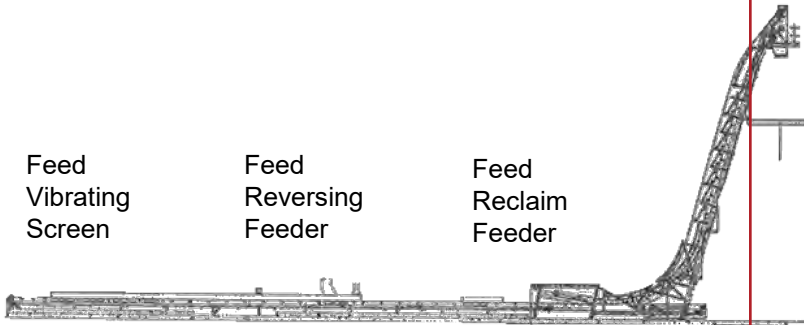


Sandwich Conveyor for CoGen Power Plant, Eastern USA

DS
048

| | |
|-----------------|------------------------|
| Material | - Anthracite Culm |
| - Density | - 0.96 t/cu-m (60 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 273 t/h (300 STPH) |
| Conveying Angle | - 75 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 2.3 m/s (450 FPM) |
| Lift | - 18,300 mm (60') |
| Length | - 57,900 mm (190') |
| Drives | |
| - Top Belt | - 30 kW (40 HP) |
| - Bottom Belt | - 30 kW (40HP) |

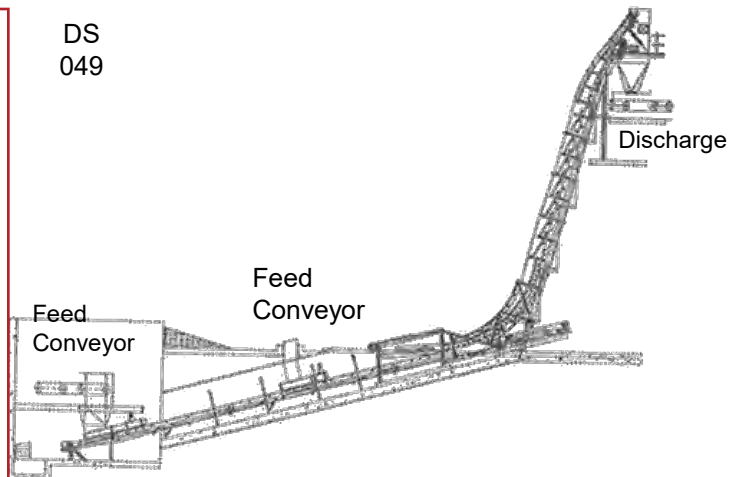
Feed Vibrating Screen Feed Reversing Feeder Feed Reclaim Feeder



Sandwich Conveyor for CoGen Power Plant, Eastern USA

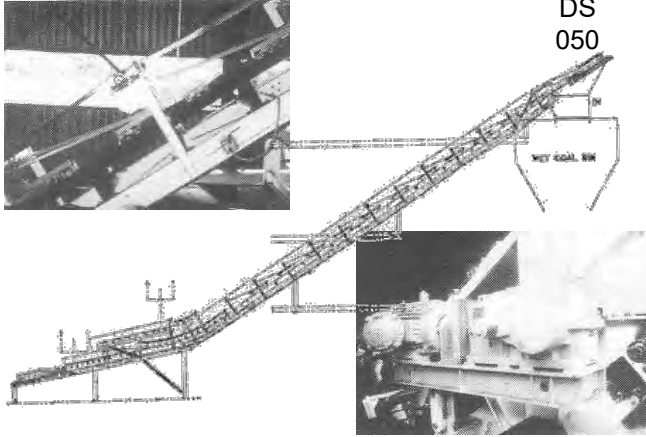
DS
049

| | |
|-----------------|------------------------|
| Material | - Anthracite Culm |
| - Density | - 0.96 t/cu-m (60 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 273 t/h (300 STPH) |
| Conveying Angle | - 75 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 2.3 m/s (450 FPM) |
| Lift | - 23,300 mm (76.6') |
| Length | - 37,500 mm (123') |
| Drives | |
| - Top Belt | - 30 kW (40 HP) |
| - Bottom Belt | - 30 kW (40HP) |



JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors

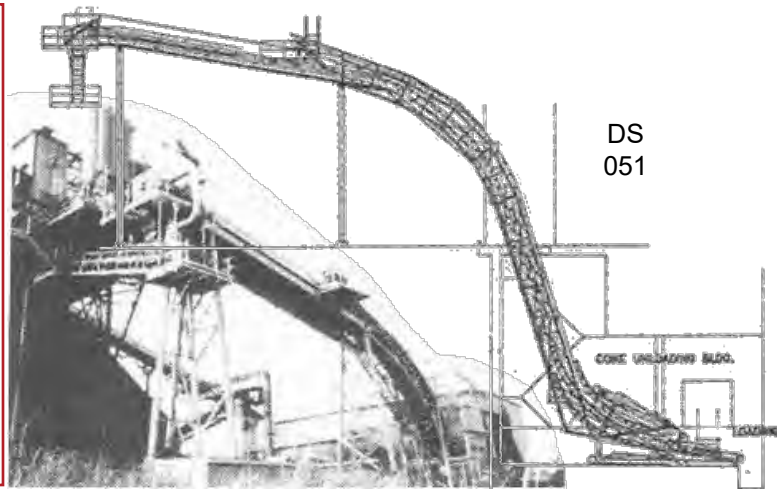


Sandwich Conveyor for Coal Prep Plant, Eastern USA

| | |
|-----------------|---------------------------------|
| Material | - Coal |
| - Density | - 0.80 t/cu-m (50 PCF) |
| - Size | - 38 mm (1.5") minus |
| Conveying Rate | - 317 t/h (350 STPH) |
| Conveying Angle | - 33 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 2.29 m/s (450 FPM) |
| Lift | - 15,200 mm (49.9') |
| Length | - 31,100 mm (102') |
| Drive | - Bottom Belt - 37.3 kW (50 HP) |

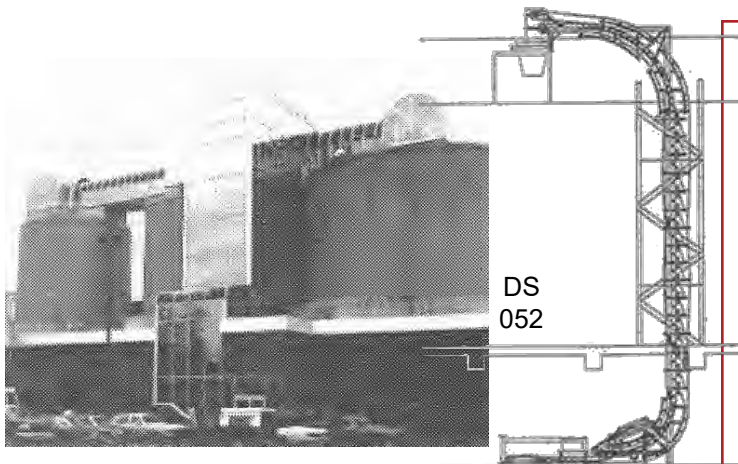
Sandwich Conveyor at Oil Refinery, Pet Coke Plant, Southern USA

| | |
|-----------------|-----------------------|
| Material | - Hot Petroleum Coke |
| - Density | - 0.85t/cu-m (53 PCF) |
| - Size | - 152 mm (6") minus |
| Conveying Rate | - 635 t/h (700 STPH) |
| Conveying Angle | - 72.5 degrees |
| Belt Width | - 1372 mm (54") |
| Belt Speed | - 2.67 m/s (525 FPM) |
| Lift | - 26,200 mm (86') |
| Length | - 53,000 mm (173.9') |
| Drives | |
| - Top Belt | - 56 kW (75 HP) |
| - Bottom Belt | - 75 kW (100 HP) |



Sandwich Conveyor for Composting Plant, Eastern USA

| | |
|-----------------|-----------------------------|
| Material | - Compost, Sludge & Sawdust |
| - Density | - 0.85 t/cu-m (53 PCF) |
| Conveying Rate | - 83.8 t/h (93 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 1.78 m/s (350 FPM) |
| Lift | - 22,600 mm (74.25') |
| Length | - 38,100 mm (125') |
| Drives | |
| - Inner Belt | - 15 kW (20 HP) |
| - Outer Belt | - 15 kW (20 HP) |



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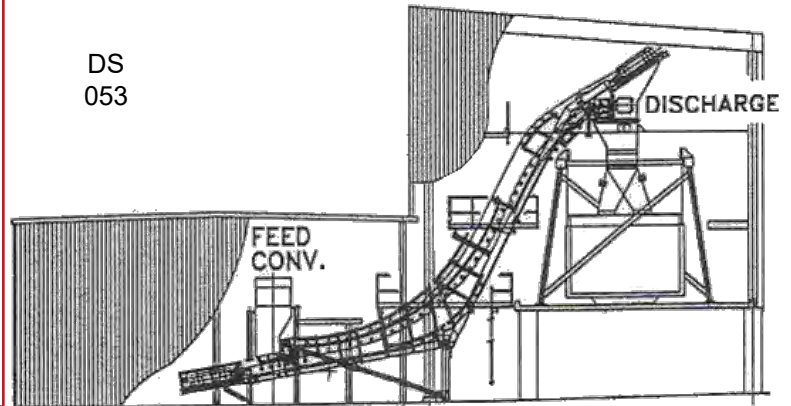
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JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors

Sandwich Conveyor for Paper Mill, Eastern USA

| | |
|-----------------|-------------------------|
| Material | - Wood Chips |
| - Density | - 0.368 t/cu-m (23 PCF) |
| - Size | - 25 mm (1") minus |
| Conveying Rate | - 145 t/h (160 STPH) |
| Conveying Angle | - 63 degrees |
| Belt Width | - 1067 mm (42") |
| Belt Speed | - 1.8 m/s (350 FPM) |
| Lift | - 9,200 mm (30') |
| Length | - 16,700 mm (55') |
| Drive | |
| - Bottom Belt | - 22.4 kW (30 HP) |



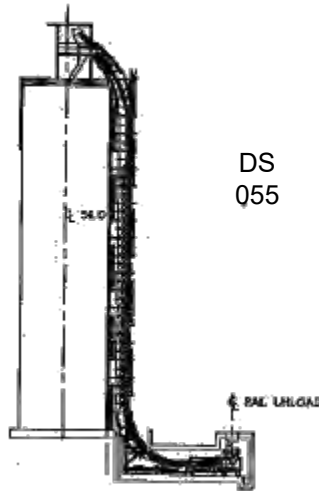
DS
054

Sandwich Conveyor for Paper Mill, Western USA

| | |
|-----------------|-------------------------|
| Material | - Wood Chips |
| - Density | - 0.277 t/cu-m (17 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 435 t/h (480 STPH) |
| Conveying Angle | - 50 degrees |
| Belt Width | - 1524 mm (60") |
| Belt Speed | - 2.94 m/s (580 FPM) |
| Lift | - 32,000 mm (105') |
| Length | - 98,200 mm (322') |
| Drives | |
| - Top Belt | - 56 kW (75 HP) |
| - Bottom Belt | - 56 kW (75 HP) |

Sandwich Conveyor for Power Plant Stack Scrubber, Southeast USA

| | |
|-----------------|------------------------|
| Material | - Pebble Lime |
| - Density | - 0.96 t/cu-m (60 PCF) |
| Conveying Rate | - 90.5 t/h (100 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 2.03 m/s (400 FPM) |
| Lift | - 44,300 mm (145.3') |
| Length | - 56,900 mm (187') |
| Drives | |
| - Top Belt | - 18.7 kW (25 HP) |
| - Bottom Belt | - 18.7 kW (25 HP) |



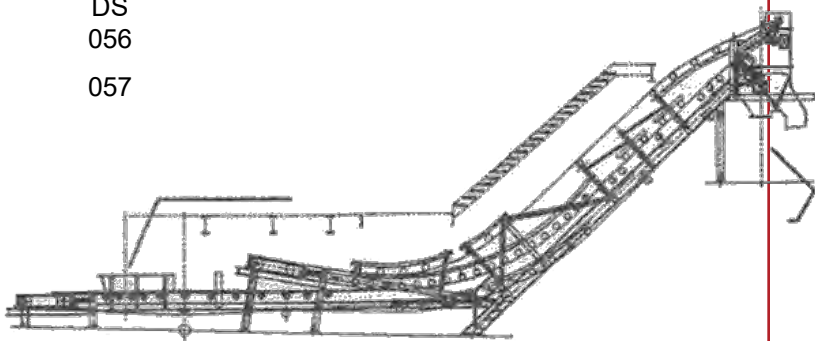
DS
055



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Sandwich Belt High Angle Conveyors

DS
056
057

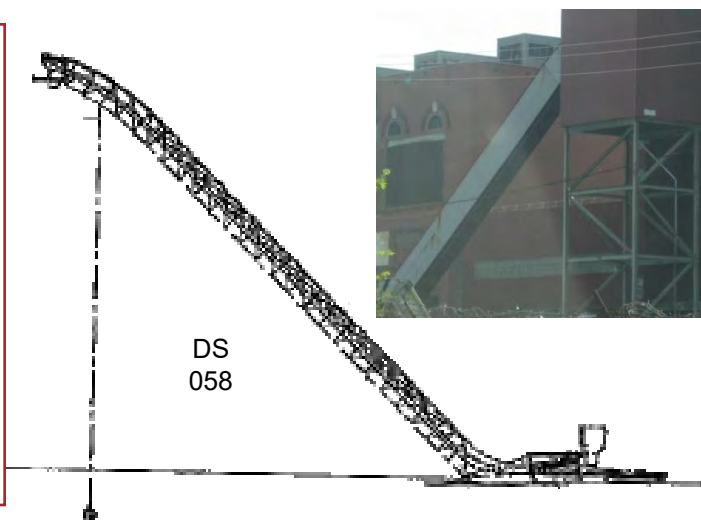


Sandwich Conveyors Units 056 & 057 for Taconite Mine, Northern USA

| | |
|-----------------|---------------------------------|
| Material | - Iron Ore (Taconite) |
| - Density | - 2.26 t/cu-m (150 PCF) |
| - Size | - 64 mm (2.5") minus |
| Conveying Rate | - 136 t/h (150 STPH) |
| Conveying Angle | - 43 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 0.8 m/s (150 FPM) |
| Lift | - 5,300 mm (17') |
| Length | - 16,800 mm (55') |
| Drives | - Bottom Belt - 11.2 kW (15 HP) |

Sandwich Conveyor for Coal Power Plant, Midwest USA

| | |
|-----------------|------------------------|
| Material | - Coal |
| - Density | - 0.72 t/cu-m (45 PCF) |
| - Size | - 38 mm (1.5") minus |
| Conveying Rate | - 635 t/h (700 STPH) |
| Conveying Angle | - 45 degrees |
| Belt Width | - 1219 mm (48") |
| Belt Speed | - 3.05 m/s (600 FPM) |
| Lift | - 37,000 mm (121') |
| Length | - 67,000 mm (220') |
| Drives | |
| - Top Belt | - 74.6 kW (100 HP) |
| - Bottom Belt | - 74.6 kW (100 HP) |

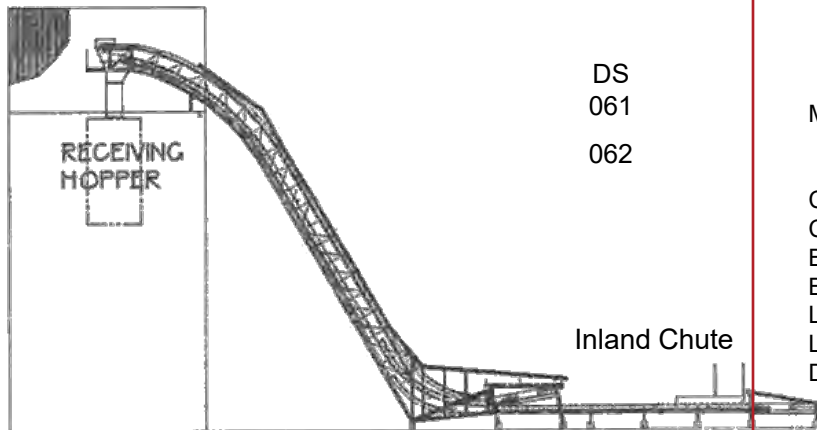


DS
058

Sandwich Conveyors Units 061 & 062 for Cement Plant, Indonesia

| | |
|-----------------|-----------------------|
| Material | - Coal |
| - Density | - 1.0 t/cu-m (62 PCF) |
| - Size | - 9.5 mm (3/8") minus |
| Conveying Rate | - 200 t/h (220 STPH) |
| Conveying Angle | - 60 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 2.29 m/s (450 FPM) |
| Lift | - 19,965 mm (66') |
| Length | - 36,000 mm (118') |
| Drives | |
| - Top Belt | - 22.4 kW (30 HP) |
| - Bottom Belt | - 22.4 kW (30 HP) |

DS
061
062



Inland Chute

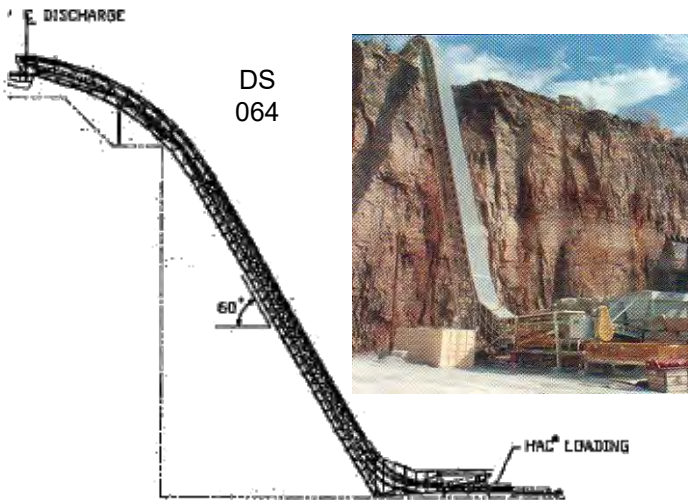
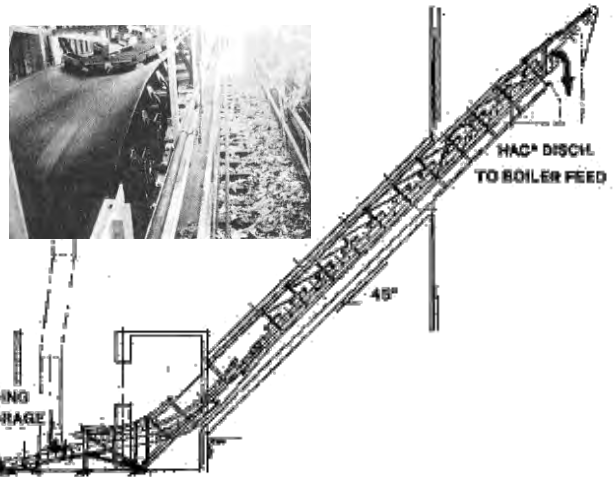
JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors

Sandwich Conveyor for Refuse Power Plant, Eastern USA

| | |
|-----------------|----------------------------|
| Material | - Refused Derived Fuel-RDF |
| - Density | - 0.19 t/cu-m (15 PCF) |
| - Size | - 203 mm (8") minus |
| Conveying Rate | - 45.3 t/h (50 STPH) |
| Conveying Angle | - 45 degrees |
| Belt Width | - 1372 mm (54") |
| Belt Speed | - 1.52 m/s (300 FPM) |
| Lift | - 21,900 mm (72') |
| Length | - 38,100 mm (125') |
| Drive | |
| - Bottom Belt | - 22 kW (30 HP) |

DS
063



DS
064

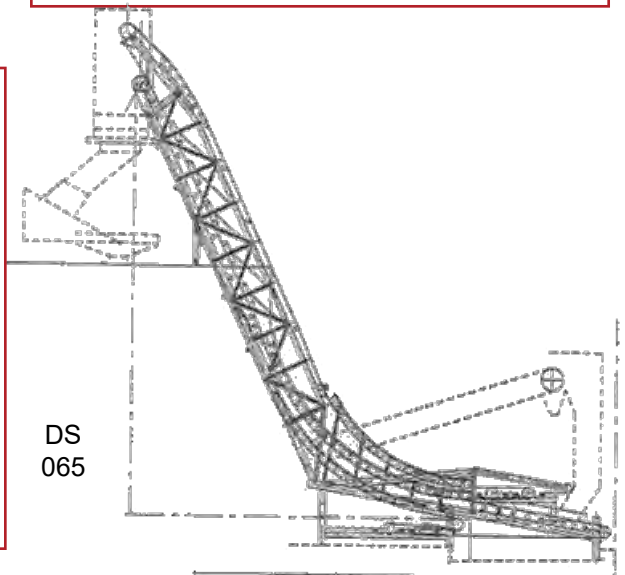
Sandwich Conveyor for Limestone Quarry, Midwest USA

| | |
|-----------------|-------------------------|
| Material | - Limestone |
| - Density | - 1.60 t/cu-m (100 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 762 t/h (800 STPH) |
| Conveying Angle | - 60 degrees |
| Belt Width | - 1067 mm (42") |
| Belt Speed | - 2.54 m/s (500 FPM) |
| Lift | - 48,000 mm (158') |
| Length | - 79,000 mm (258') |
| Drives | |
| - Top Belt | - 168 kW (125 HP) |
| - Bottom Belt | - 168 kW (125 HP) |

Sandwich Conveyor for Self-Unloading Ship, Great Lakes USA

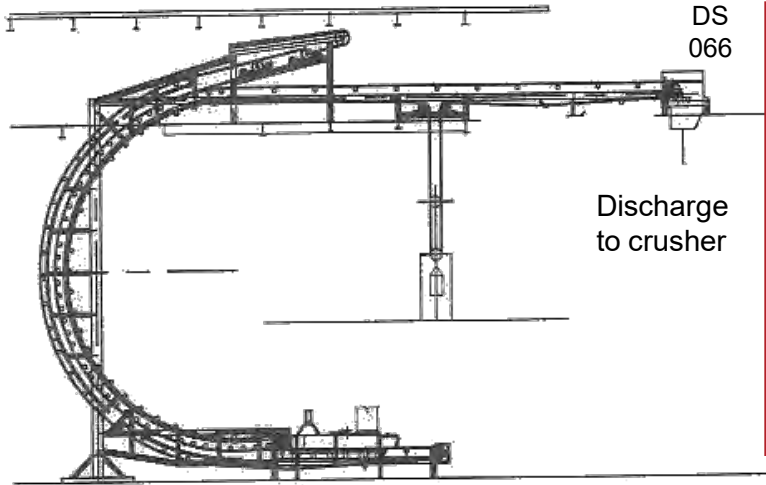
| | |
|-----------------|--------------------------------------|
| Material | - Coal, Limestone, Iron Ore |
| - Density | - 0.8 to 2.16 t/cu-m (50 to 135 PCF) |
| - Size | - To 305 mm (12") minus |
| Conveying Rate | - To 3993 t/h (4400 STPH) |
| Conveying Angle | - 65 degrees |
| Belt Width | - 2134 mm (84") |
| Belt Speed | - 3.5 m/s (700 FPM) |
| Lift | - 17,900 mm (59') |
| Length | - 28,900 mm (95') |
| Drives | |
| - Top Belt | - 186 kW (250 HP) |
| - Bottom Belt | - 186 kW (250 HP) |

DS
065



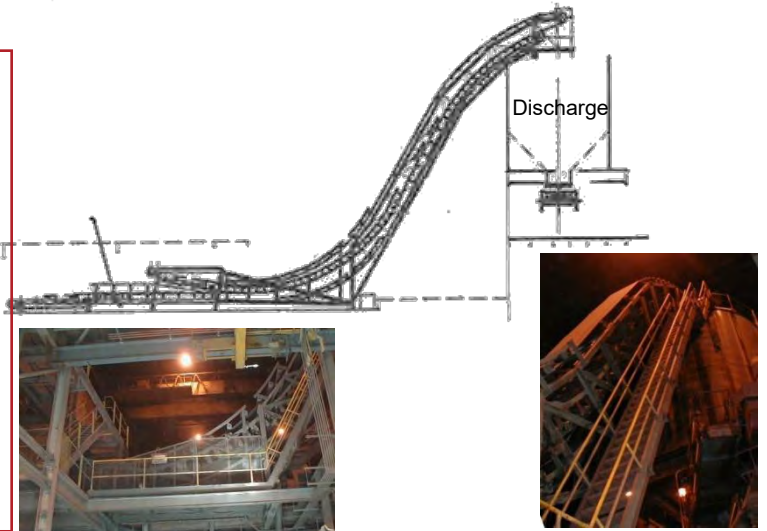
JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors

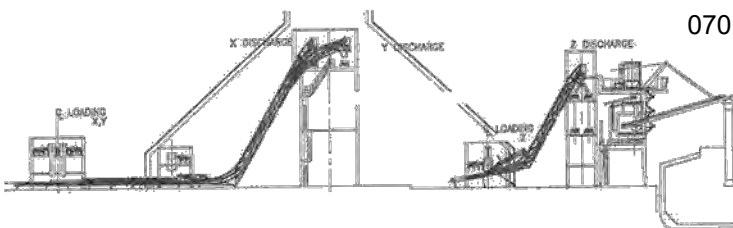


| Sandwich Conveyor for Coal Power Plant, Midwest USA | |
|---|------------------------------|
| Material | - Coal |
| - Density | - 0.80 t/cu-m (50 PCF) |
| - Size | - 51 mm (2") minus |
| Conveying Rate | - 136 t/h (150 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 2.25 m/s (445 FPM) |
| Lift | - 10,800 mm (35.5') |
| Length | - 36,600 mm (120') |
| Drives | - Inner Belt - 37 kW (50 HP) |

| Sandwich Conveyor for Taconite Mine, Northern USA | |
|---|---|
| Material | - Crushed Iron Ore |
| - Density | - 2.16 t/cu-m (135 PCF) |
| - Size | - 38 mm (1.5") minus |
| Conveying Rate | - 590 t/h (650 STPH) |
| Conveying Angle | - 60 degrees |
| Belt Width | - 1067 mm (42") |
| Belt Speed | - 2.03 m/s (400 FPM) |
| Lift | - 13,700 mm (45') |
| Length | - 36,600 mm (120') |
| Drives | - Top Belt - 37 kW (50 HP) - Bottom Belt - 37 kW (50 HP) |



Sandwich Conveyors at Cement Plant Terminal, South Korea



| Units | DS 068 | 069 | 070 |
|-----------------|------------------------------|----------|----------|
| Material | - Limestone | | |
| - Density | - 1.5 t/cu-m (94 PCF) | | |
| - Size | - 80 mm (3.1") minus | | |
| Conveying Rate | - 2000 t/h (2205 STPH) minus | | |
| Conveying Angle | - 60 degrees | | |
| Belt Width | - 1524 mm (60") | | |
| Belt Speed | - 3.45 m/s (679 FPM) | | |
| Lift | - 30.2 M | - 30.9 M | - 22.5 M |
| Length | - 78.1 M | - 83.6 M | - 36.5 M |
| Drives | | | |
| - Inner Belt | - 150 kW (200 HP) | | |
| - Outer Belt | - 150 kW (200 HP) | | |

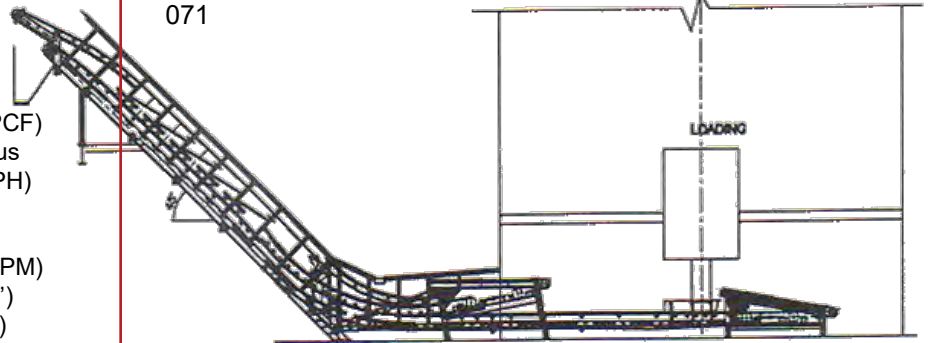
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Sandwich Belt High Angle Conveyors

Sandwich Conveyor for Pulp Mill, Western USA

| | |
|-----------------|-----------------------|
| Material | - Wood Chips |
| - Density | - 0.4 t/cu-m (25 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 21.8 t/h (24 STPH) |
| Conveying Angle | - 45 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 1.02 m/s (200 FPM) |
| Lift | - 8,930 mm (29.3') |
| Length | - 25,900 mm (85') |
| Drive | |
| - Bottom Belt | - 11.2 kW (15 HP) |

DS
071



DS
072
073

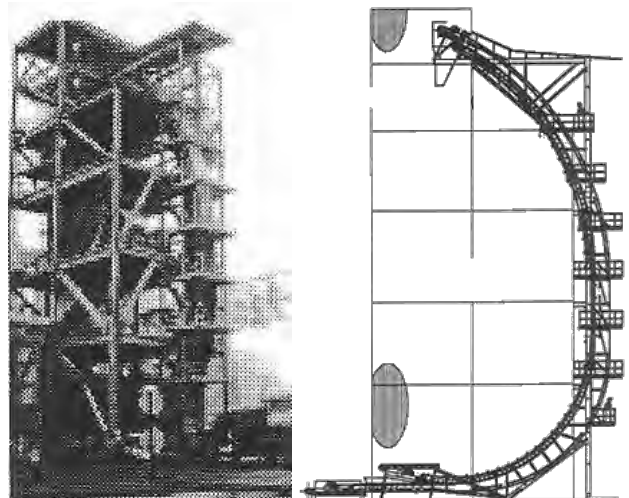
Sandwich Conveyors for Cement Plant, Eastern USA

| Units DS | 072 | 073 |
|-----------------|------------------------------|----------|
| Material | - Clay | |
| - Density | - To 1.04 t/cu-m (To 65 PCF) | |
| - Size | - 51 mm (2") minus | |
| Conveying Rate | - 19.8 t/h (20 STPH) | |
| Conveying Angle | - 60 degrees | |
| Belt Width | - 762 mm (30") | |
| Belt Speed | - 1.0 m/s (200 FPM) | |
| Lift | - 11.1 M | - 11.4 M |
| Length | - 23.5 M | - 27.4 M |
| Drive | | |
| -Bottom Belt | - 11.2 kW (15 HP) | |

Sandwich Conveyor for Paper Mill, Eastern USA

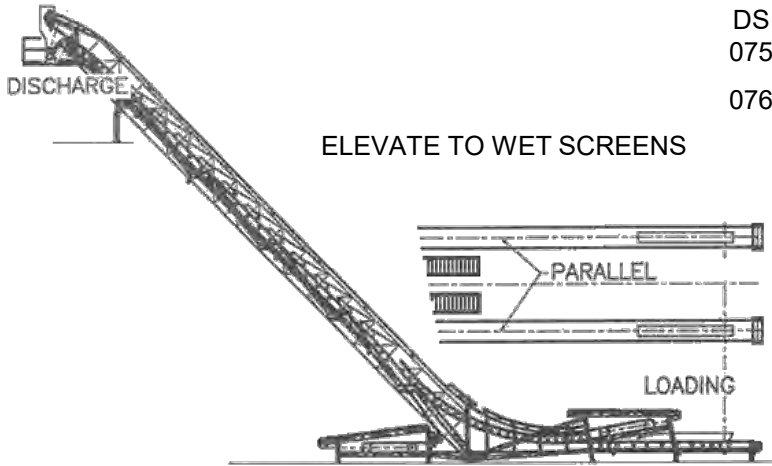
| | |
|-----------------|-----------------------|
| Material | - Wood Chips |
| - Density | - 0.4 t/cu-m (25 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 245 t/h (250 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1524 mm (60") |
| Belt Speed | - 2.29 m/s (450 FPM) |
| Lift | - 32,900 mm (108') |
| Length | - 53,300 mm (175') |
| Drives | |
| - Inner Belt | - 44.8 kW (60 HP) |
| - Outer Belt | - 44.8 kW (60 HP) |

DS
074



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Sandwich Belt High Angle Conveyors



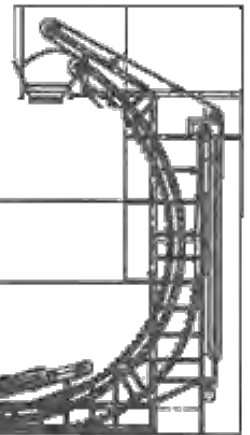
DS
075
076

Sandwich Conveyors for Copper Mine, Western Canada

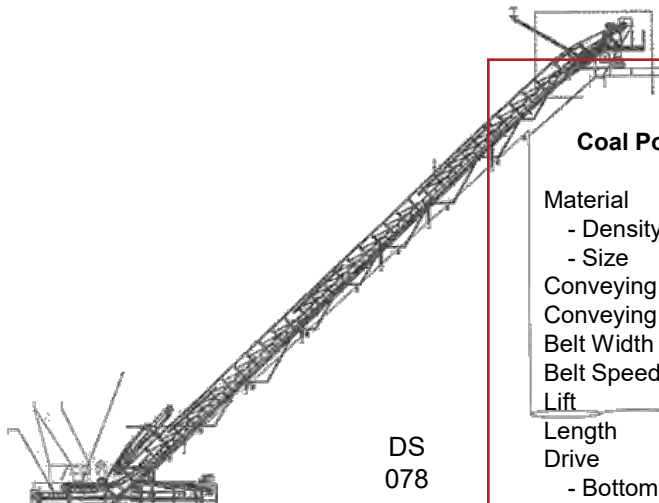
| | |
|-----------------|-------------------------|
| Material | - Copper Ore |
| - Density | - 1.62 t/cu-m (101 PCF) |
| - Size | - 75 mm (3") minus |
| Conveying Rate | - 584 t/h (644 STPH) |
| Conveying Angle | - 45 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 2.29 m/s (450 FPM) |
| Lift | - 18,300 mm (60') |
| Length | - 38,600 mm (126.6') |
| Drives | |
| - Top Belt | - 45 kW (60 HP) |
| - Bottom Belt | - 45 kW (60 HP) |

Sandwich Conveyor for Self Unloading Ship, Great Lakes USA

| | |
|-----------------|-------------------------------------|
| Material | - Various |
| - Density | - 0.9 to 2.5 t/cu-m (55 to 155 PCF) |
| - Size | - 152 mm (6") minus |
| Conveying Rate | - To 4264 t/h (To 4700 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 2134 mm (84") |
| Belt Speed | - 5.0 m/s (1000 FPM) |
| Lift | - 18,300 mm (60.3') |
| Length | - 166,000 mm (545') |
| Drives | |
| - Inner Belt | - 298 kW (400 HP) |
| - Outer Belt | - 298 kW (400 HP) |



DS 077



DS
078

Sandwich Conveyor for Coal Power Plant, Western Canada

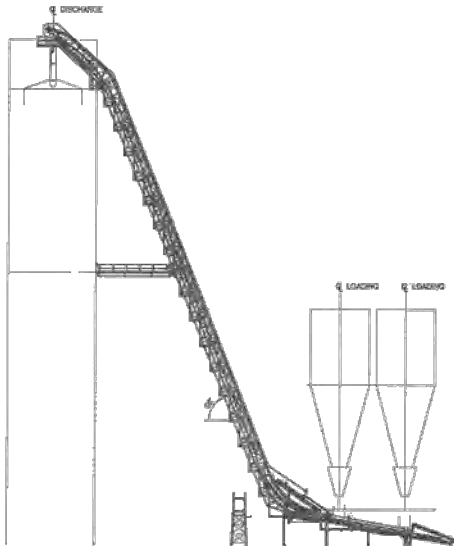
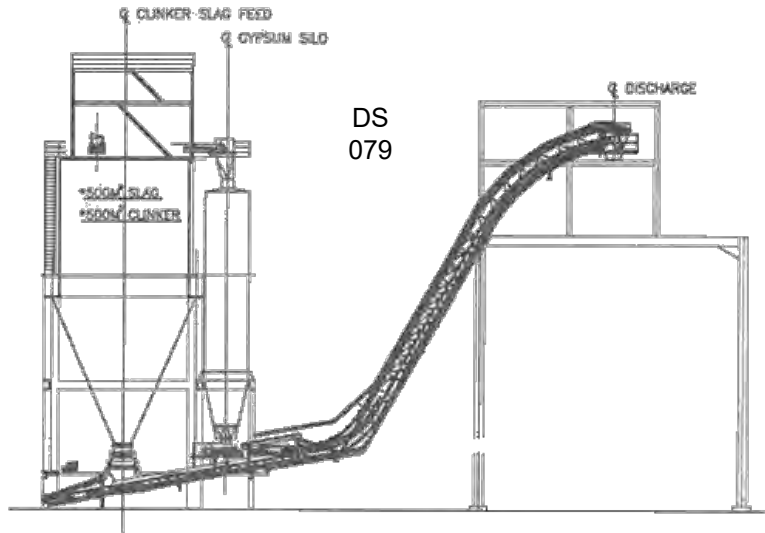
| | |
|-----------------|------------------------|
| Material | - Wet Bottom Ash |
| - Density | - 1.02 t/cu-m (64 PCF) |
| - Size | - 102 mm (4") minus |
| Conveying Rate | - 82 t/h (92 STPH) |
| Conveying Angle | - 43 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 1.0 m/s (197 FPM) |
| Lift | - 31,700 mm (104') |
| Length | - 60,000 mm (197') |
| Drive | |
| - Bottom Belt | - 37 kW (50 HP) |

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Sandwich Belt High Angle Conveyors

Sandwich Conveyor for Cement Plant, Brasil

| | |
|-----------------|-------------------------|
| Material | - Slag, Clinker, Gypsum |
| - Density | - 1.3 t/cu-m (81 PCF) |
| - Size | - 100 mm (4") minus |
| Conveying Rate | - 100 t/h (110 STPH) |
| Conveying Angle | - 60 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 1.34 m/s (264 FPM) |
| Lift | - 23,700 mm (78') |
| Length | - 46,100 mm (174') |
| Drives | |
| - Top Belt | - 19 kW (25 HP) |
| - Bottom Belt | - 19 kW (25 HP) |



DS
080

Sandwich Conveyor for Steel Mill, Southern USA

| | |
|-----------------|------------------------|
| Material | - Iron Ore Fines |
| - Density | - 2.2 t/cu-m (138 PCF) |
| - Size | - 2 mm (1/16") minus |
| Conveying Rate | - 180 t/h (198 STPH) |
| Conveying Angle | - 68 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 1.2 m/s (236 FPM) |
| Lift | - 67,600 mm (222') |
| Length | - 91,000 mm (299') |
| Drives | |
| - Top Belt | - 37 kW (50 HP) |
| - Bottom Belt | - 37 kW (50 HP) |

Sandwich Conveyor Elevating to Shiploader, England

| | |
|-----------------|-------------------------------------|
| Material | - Grain, Limestone |
| - Density | - 0.7 to 1.35 t/cu-m (44 to 88 PCF) |
| - Size | - 50 mm (2") minus |
| Conveying Rate | - 2000 t/h (2204 STPH) |
| Conveying Angle | - 53.5 degrees |
| Belt Width | - 1800 mm (72") |
| Belt Speed | - 4.32 m/s (850 FPM) |
| Lift | - 20,462 mm (67') |
| Length | - 42,750 mm (140') |
| Drives | |
| - Top Belt | - 132 kW (175 HP) |
| - Bottom Belt | - 132 kW (175 HP) |

DS 081

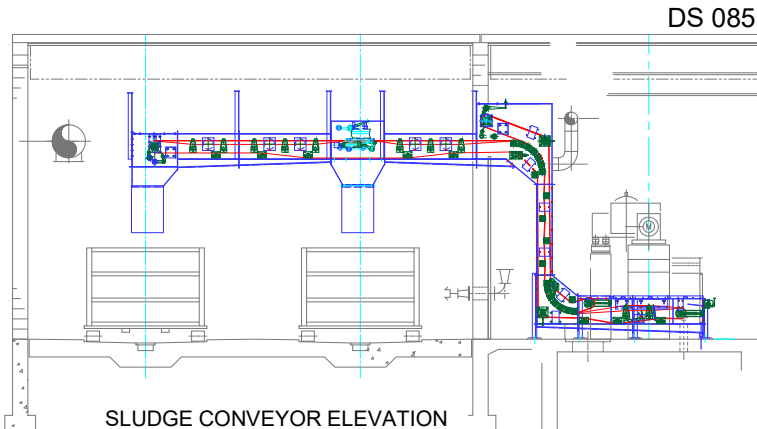
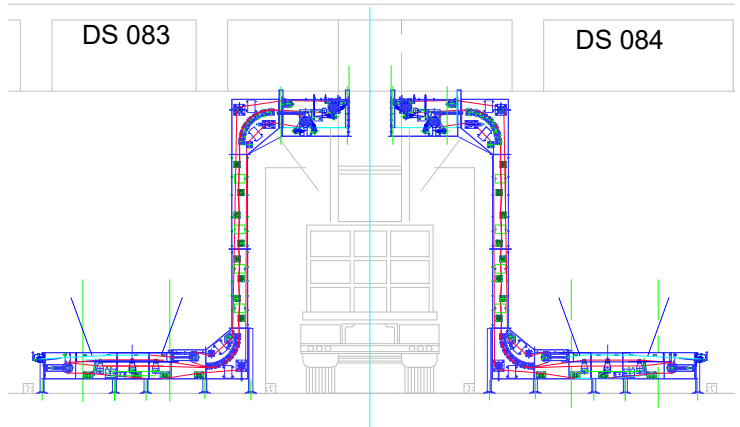


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Sandwich Belt High Angle Conveyors

Two-Units EleVeyor EL for Blue Plains -WWTP (Data, Each Unit)

| | |
|-----------------|-----------------------|
| Material | - Municipal Sludge |
| - Density | - 1.0 t/cu-m (65 PCF) |
| Conveying Rate | - 13.6 t/h (15 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 610 mm (24") |
| Belt Speed | - 0.38 m/s (75 FPM) |
| Lift | - 5,000 mm (16.3') |
| Length | - 11,250 mm (36.9') |
| EL Drives | |
| - Top Belt | - 1.9 kW (2.5 HP) |
| - Bottom Belt | - 1.9 kW (2.5 HP) |

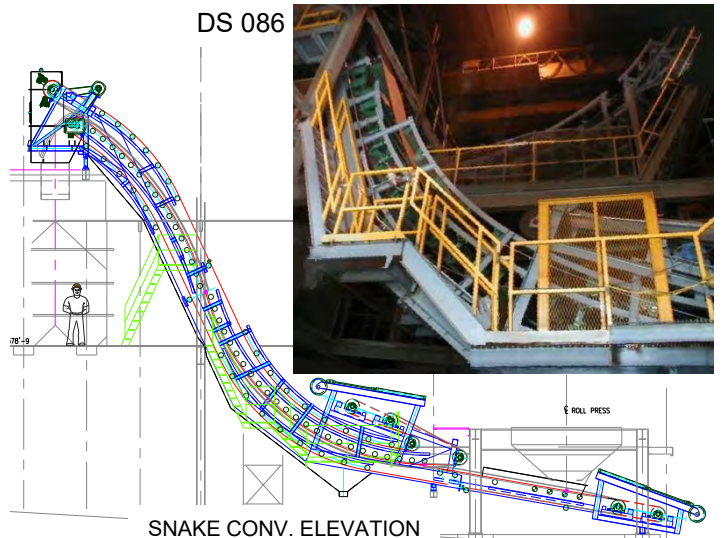


EleVeyor EL for Foxwood Casino -WWTP

| | |
|-----------------|-----------------------|
| Material | - Municipal Sludge |
| - Density | - 1.0 t/cu-m (65 PCF) |
| Conveying Rate | - 13.6 t/h (15 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 610 mm (24") |
| Belt Speed | - 0.38 m/s (75 FPM) |
| Lift | - 3,350 mm (11') |
| Length | - 14,800 mm (48.5') |
| EL Drives | |
| - Top Belt | - 1.5 kW (2 HP) |
| - Bottom Belt | - 1.5 kW (2 HP) |

DSI Snake Sandwich Conveyor for Empire Iron Ore Mining Partnership

| | |
|-----------------|------------------------|
| Material | - Iron Ore |
| - Density | - 2.4 t/cu-m (150 PCF) |
| - Size | - 2 mm (.08") minus |
| Conveying Rate | - 793 t/h (780 LTPH) |
| Conveying Angle | - 65 degrees |
| Belt Width | - 1067 mm (42") |
| Belt Speed | - 2.29 m/s (450 FPM) |
| Lift | - 11,522 mm (37.8') |
| Length | - 21,489 mm (70.5') |
| Snake Drives | |
| - Top Belt | - 29.8 kW (40 HP) |
| - Bottom Belt | - 37.3 kW (50 HP) |



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Sandwich Belt High Angle Conveyors



DS
087

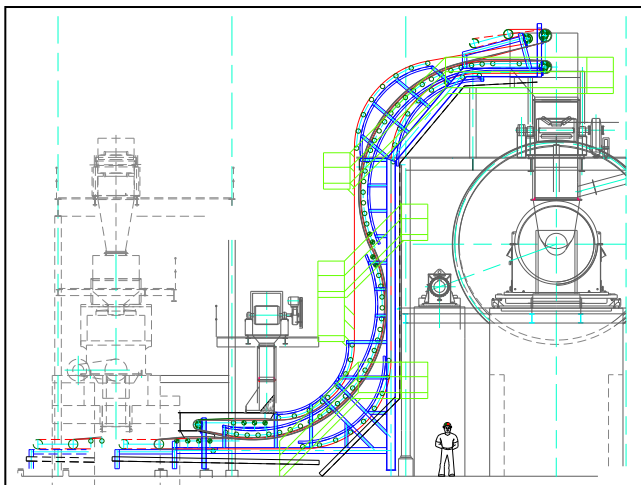
DSI Snake Sandwich Conveyor for PHB Weserhutte S.A. at Aceralia

| | |
|-----------------|-----------------------|
| Material | - Coal |
| - Density | - 0.8 t/cu-m (50 PCF) |
| - Size | - 50 mm (2") minus |
| Conveying Rate | - 250 t/h (276 STPH) |
| Conveying Angle | - 75 degrees |
| Belt Width | - 1200 mm (47") |
| Belt Speed | - 2.29 m/s (450 FPM) |
| Lift | - 35,100 mm (115') |
| Length | - 45,065 mm (148') |
| Snake Drives | |
| - Top Belt | - 30 kW (40.2 HP) |
| - Bottom Belt | - 30 kW (40.2 HP) |

Sandwich Conveyor at Pulp Mill, Western Canada

| | |
|-----------------|-----------------------|
| Material | - Wood Chips |
| - Density | - .24 t/cu-m (15 PCF) |
| Conveying Rate | - 203 t/h (224 STPH) |
| Conveying Angle | - 45 degrees |
| Belt Width | - 1372 mm (54") |
| Belt Speed | - 2.61 m/s (513 FPM) |
| Lift | - 20,422 mm (67') |
| Length | - 57,303 mm (188') |
| Drives | |
| - Top Belt | - 22.4 kW (30 HP) |
| - Bottom Belt | - 22.4 kW (30 HP) |

DS
088



DS
89

DSI Snake Sandwich Conveyor for Continental CN at INCO Voisey's Bay Proj

| | |
|-----------------|-------------------------|
| Material | - Pebble Ore |
| - Density | - 2.25 t/cu-m (140 PCF) |
| - Size | - 60 mm (2.4") minus |
| Conveying Rate | - 102 t/h (112 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 1.02 m/s (200 FPM) |
| Lift | - 13,010 mm (42.7') |
| Length | - 23,500 mm (77.1') |
| Snake Drives | |
| - Top Belt | - 7.46 kW (10 HP) |
| - Bottom Belt | - 7.46 kW (10 HP) |

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Sandwich Belt High Angle Conveyors

DSI Snake Sandwich Conveyor for Continental CN at DOFASCO Steel Project

| | |
|-----------------|-----------------------|
| Material | - Coke Breeze |
| - Density | - .48 t/cu-m (30 PCF) |
| - Size | - 25 mm (1") minus |
| Conveying Rate | - 31.8 t/h (35 STPH) |
| Conveying Angle | - 75 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 1.41 m/s (278 FPM) |
| Lift | - 16,382 mm (53.7') |
| Length | - 24,835 mm (81.5') |
| Snake Drives | |
| - Top Belt | - 7.46 kW (10 HP) |
| - Bottom Belt | - 7.46 kW (10 HP) |

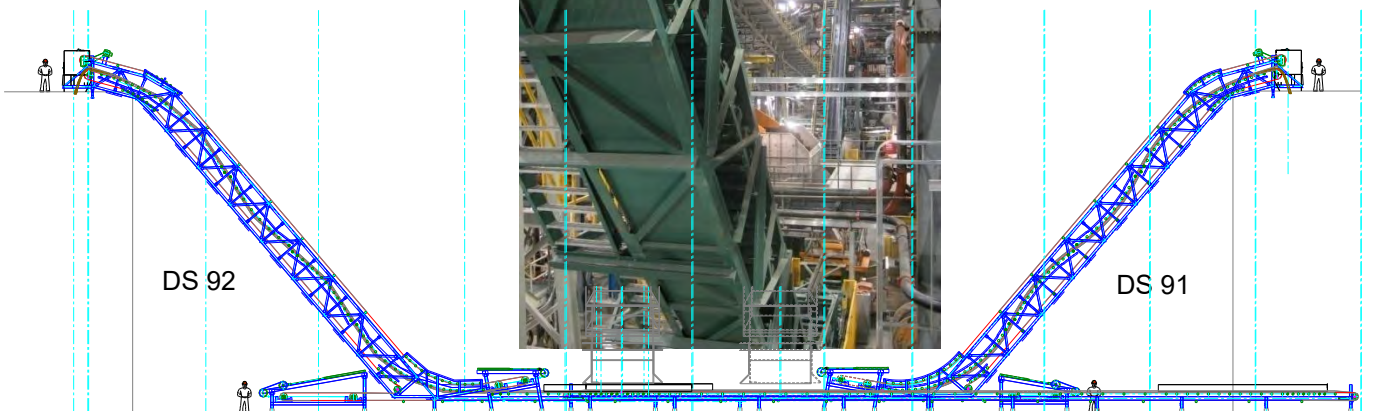
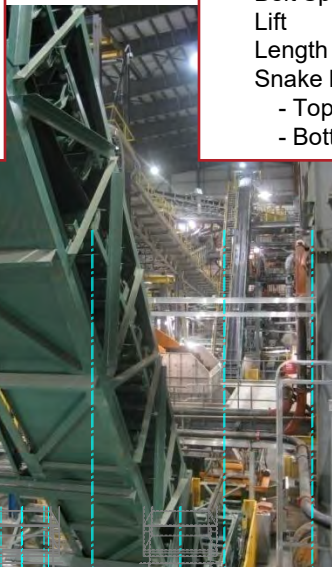


DSI Snake #2 Sandwich Conveyor for Continental CN at Snap Lake Diamond Mine (Initial / Future)

| | |
|-----------------|------------------------------|
| Material | - Kimberlite |
| - Density | - 1.6 t/cu-m (100 PCF) |
| - Size | - 50 mm (2") minus |
| Conveying Rate | - 250/500 t/h (276/552 STPH) |
| Conveying Angle | - 49.5 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 1.5/2.2 m/s (295/433 FPM) |
| Lift | - 18,310 mm (60.1') |
| Length | - 70,562 mm (231.5') |
| Snake Drives | |
| - Top Belt | - 22.4/44.8 kW (30/60 HP) |
| - Bottom Belt | - 22.4/44.8 kW (30/60 HP) |

DSI Snake #1 Sandwich Conveyor for Continental CN at Snap Lake Diamond Mine (Initial / Future)

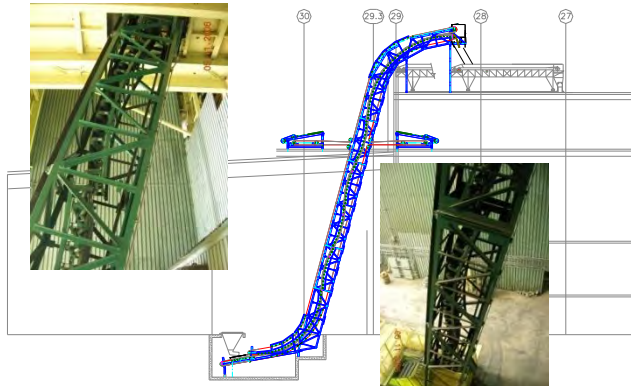
| | |
|-----------------|------------------------------|
| Material | - Kimberlite |
| - Density | - 1.6 t/cu-m (100 PCF) |
| - Size | - 32 mm (1.3") minus |
| Conveying Rate | - 275/550 t/h (303/606 STPH) |
| Conveying Angle | - 49.5 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 1.5/2.2 m/s (295/433 FPM) |
| Lift | - 18,310 mm (60.1') |
| Length | - 39,015 mm (128') |
| Snake Drives | |
| - Top Belt | - 22.4/44.8 kW (30/60 HP) |
| - Bottom Belt | - 22.4/44.8 kW (30/60 HP) |



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Sandwich Belt High Angle Conveyors

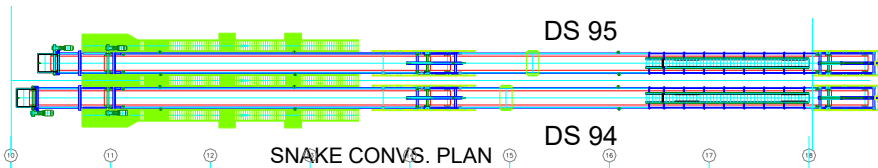
DS 93



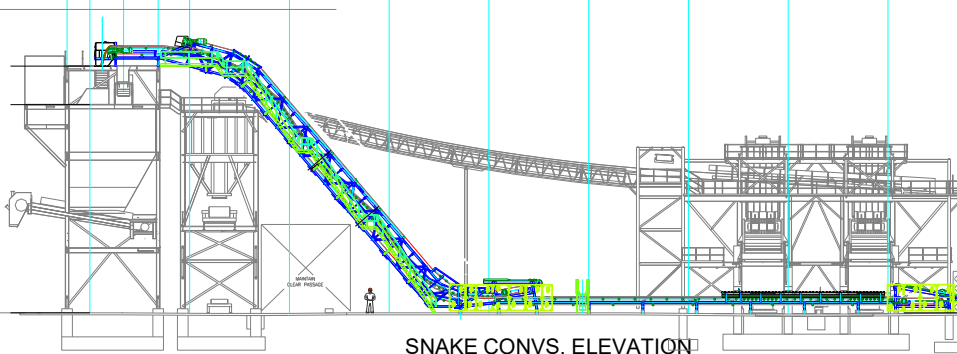
SNAKE CONV. ELEVATION

DSI Snake Sandwich Conveyor for Continental CN at DOFASCO Steel Project

| | |
|-----------------|-------------------------|
| Material | - Various |
| - Density | - 4.16 t/cu-m (260 PCF) |
| - Size | - 75 mm (3") minus |
| Conveying Rate | - 188 t/h (200 STPH) |
| Conveying Angle | - 70 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 1.02 m/s (207 FPM) |
| Lift | - 35,235 mm (115.6') |
| Length | - 48,768 mm (160.0') |
| Snake Drives | |
| - Top Belt | - 18.64 kW (25 HP) |
| - Bottom Belt | - 18.64 kW (25 HP) |



SNAKE CONVS. PLAN



SNAKE CONVS. ELEVATION

DSI Snake #1 Sandwich Conveyor for Victor Diamond Mine Project

| | |
|-----------------|------------------------|
| Material | - Kimberlite |
| - Density | - 1.6 t/cu-m (100 PCF) |
| - Size | - 28 mm (1.1") minus |
| Conveying Rate | - 381 t/h (420 STPH) |
| Conveying Angle | - 49.5 degrees |
| Belt Width | - 1067 mm (42") |
| Belt Speed | - 2 m/s (394 FPM) |
| Lift | - 18,508 mm (60.7') |
| Length | - 67,581 mm (221.7') |
| Snake Drives | |
| - Top Belt | - 29.83 kW (40 HP) |
| - Bottom Belt | - 29.83 kW (40 HP) |

DSI Snake #2 Sandwich Conveyor for Victor Diamond Mine Project

| | |
|-----------------|------------------------|
| Material | - Kimberlite |
| - Density | - 1.6 t/cu-m (100 PCF) |
| - Size | - 6 mm (1/4") minus |
| Conveying Rate | - 185 t/h (204 STPH) |
| Conveying Angle | - 49.5 degrees |
| Belt Width | - 1067 mm (42") |
| Belt Speed | - 1.0 m/s (197 FPM) |
| Lift | - 18,508 mm (60.7') |
| Length | - 65,981 mm (216.5') |
| Snake Drives | |
| - Top Belt | - 18.65 kW (25 HP) |
| - Bottom Belt | - 18.65 kW (25 HP) |

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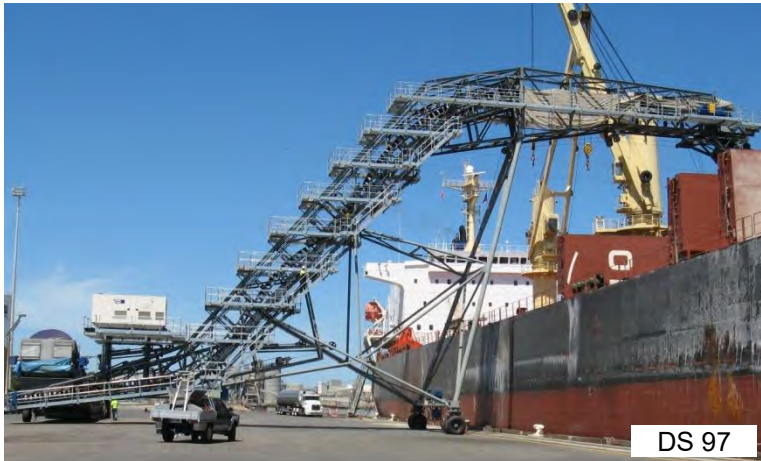
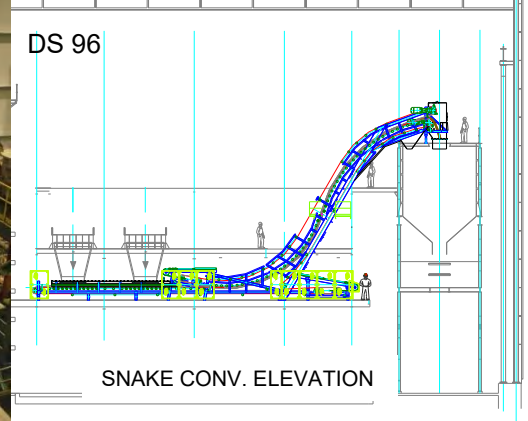
Sandwich Belt High Angle Conveyors

DSI Snake #3 Sandwich Conveyor for Victor Diamond Mine Project

| | |
|-----------------|------------------------|
| Material | - Kimberlite |
| - Density | - 1.6 t/cu-m (100 PCF) |
| - Size | - 28 mm (1.1") minus |
| Conveying Rate | - 422 t/h (465 STPH) |
| Conveying Angle | - 60 degrees |
| Belt Width | - 1067 mm (42") |
| Belt Speed | - 2 m/s (394 FPM) |
| Lift | - 11,886 mm (39.0') |
| Length | - 33,282 mm (109.2') |
| Snake Drives | |
| - Top Belt | - 29.83 kW (40 HP) |
| - Bottom Belt | - 29.83 kW (40 HP) |



DS 96



DS 97

DSI Snake Sandwich Conveyor Shiploader for Cortex Resources at Port Adelaide, Australia

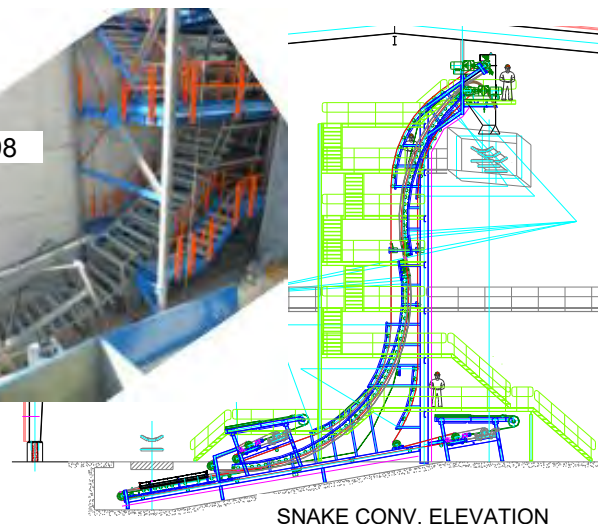
| | |
|-----------------|------------------------|
| Material | - Titanium Ore |
| - Density | - 2.4 t/cu-m (150 PCF) |
| Conveying Rate | - 1000 t/h (1102 STPH) |
| Conveying Angle | - 50 degrees |
| Belt Width | - 1200 mm (47") |
| Belt Speed | - 2 m/s (394 FPM) |
| Lift | - 21,805 mm (71.5') |
| Length | - 56,656 mm (185.9') |
| Snake Drives | |
| - Top Belt | - 55 kW (74 HP) |
| - Bottom Belt | - 55 kW (74 HP) |

DSI Snake Sandwich Conveyor for Duro Felguera at Repsol Refinery, Bilbao, Spain

| | |
|-----------------|-------------------------|
| Material | - Green Petroleum Coke |
| - Density | - 0.721 t/cu-m (45 PCF) |
| - Size | - 80 mm (3.1") minus |
| - Temperature | - to 93° C |
| Conveying Rate | - 475 t/h (524 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1400 mm (55") |
| Belt Speed | - 3.5 m/s (689 FPM) |
| Lift | - 21,155 mm (69.4') |
| Length | - 32,266 mm (105.2') |
| Snake Drives | |
| - Top Belt | - 45 kW (60 HP) |
| - Bottom Belt | - 45 kW (60 HP) |

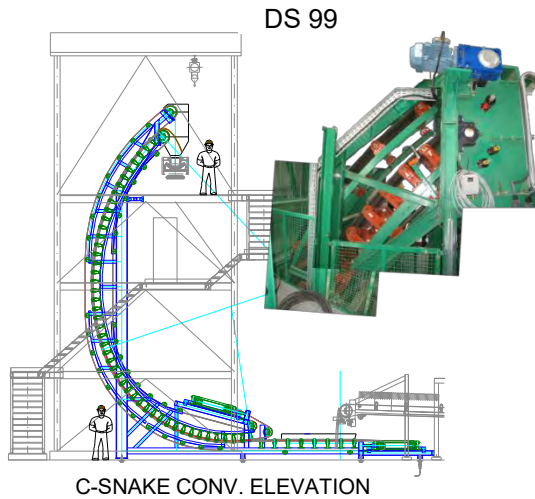


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JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors

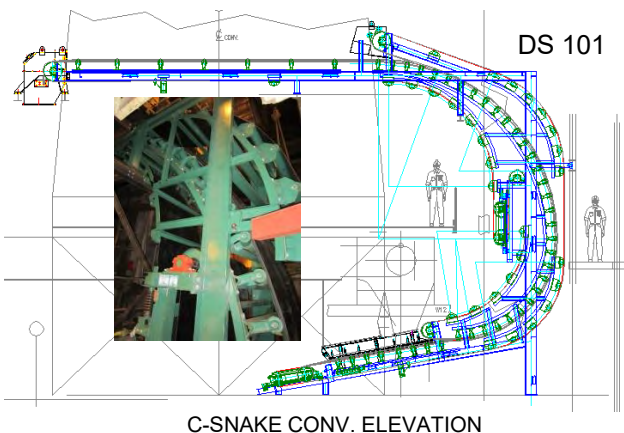
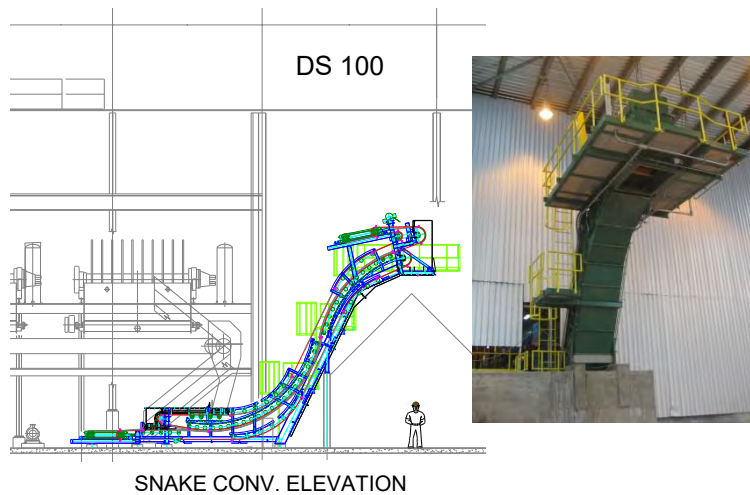


DSI Snake Sandwich Conveyor for TAI M WESER at Repsol Refinery, Cartagena, Spain

| | |
|-----------------|------------------------|
| Material | - Sulfur |
| - Density | - 1.04 t/cu-m (63 PCF) |
| - Size | - 3 mm (0.12") minus |
| Conveying Rate | - 40 t/h (44 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 600 mm (23.6") |
| Belt Speed | - 2.0 m/s (394 FPM) |
| Lift | - 10,509 mm (34.5') |
| Length | - 20,648 mm (67.7') |
| Snake Drives | |
| - Inner Belt | - 7.5 kW (10 HP) |
| - Outer Belt | - 7.5 kW (10 HP) |

DSI Snake Sandwich Conveyor for Golder Associates at Coyhaique XI Region, Chile

| | |
|-----------------|-----------------------|
| Material | - Filter Cake |
| - Density | - 1.2 t/cu-m (75 PCF) |
| - Size | - 1 mm (0.04") minus |
| Conveying Rate | - 77 t/h (85 STPH) |
| Conveying Angle | - 64 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 1.3 m/s (256 FPM) |
| Lift | - 7,235 mm (23.7') |
| Length | - 14,832 mm (48.7') |
| Snake Drives | |
| - Top Belt | - 7.5 kW (10 HP) |
| - Bottom Belt | - 7.5 kW (10 HP) |



DSI Snake Sandwich Conveyor for New Page Mill, Rumford, Maine, USA

| | |
|-----------------|---------------------------------|
| Material | - Hog Fuel, (bark & wood waste) |
| - Density | - 0.32 t/cu-m (20 PCF) |
| - Size | - 102 mm (4") minus |
| Conveying Rate | - 54.4 t/h (60 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1067 mm (42") |
| Belt Speed | - 1.52 m/s (300 FPM) |
| Lift | - 7,742 mm (27.6') |
| Length | - 16,642 mm (83.2') |
| Snake Drives | |
| - Inner Belt | - 7.5 kW (10 HP) |
| - Outer Belt | - 7.5 kW (10 HP) |

JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors

DSI Snake Sandwich Conveyor for Amec at Red Chris Project, BC, Canada

| | |
|-----------------|------------------------|
| Material | - Pebble Ore (Cu, Au) |
| - Density | - 1.6 t/cu-m (100 PCF) |
| - Size | - 55 mm (2.2") minus |
| Conveying Rate | - 340 t/h (375 STPH) |
| Conveying Angle | - 67 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 2.1 m/s (413 FPM) |
| Lift | -24,215 mm (79.5') |
| Length | - 49,817 mm (160.7') |
| Snake Drives | |
| - Top Belt | - 29.8 kW (40 HP) |
| - Bottom Belt | - 29.8 kW (40 HP) |

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DSI Snake Sandwich Conveyor for Oxbow, Ltd, Fawley Plant, Southampton, UK

| | |
|-----------------|------------------------|
| Material | - Sulfur |
| - Density | - 1.20 t/cu-m (75 PCF) |
| - Size | - 2 mm (1/8") minus |
| Conveying Rate | - 20 t/h (22 STPH) |
| Conveying Angle | - 50.5 degrees |
| Belt Width | - 600 mm (23.6") |
| Belt Speed | - 0.40 m/s (78.7 FPM) |
| Lift | - 19,266 mm (63.2') |
| Length | - 55,800 mm (183.1') |
| Snake Drives | |
| -Top Belt | - 3.7 kW (5 HP) |
| - Bottom Belt | - 3.7 kW (5 HP) |

DSI Snake Sandwich Conveyor for Zanella Maquinas at Paraiba Cement, Brasil

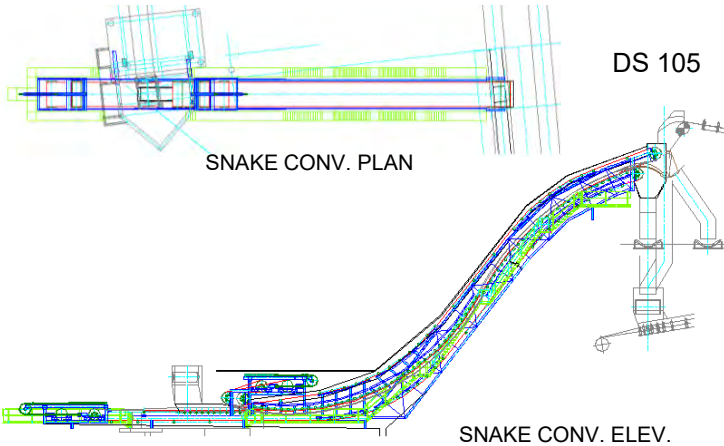
| | |
|-----------------|-----------------------|
| Material | - Various Cement Feed |
| - Density | - 1.4 t/cu-m (87 PCF) |
| - Size | - 100 mm (4") minus |
| Conveying Rate | - 720 t/h (794 STPH) |
| Conveying Angle | - 60 degrees |
| Belt Width | - 1220 mm (48") |
| Belt Speed | - 3.1 m/s (610 FPM) |
| Lift | - 20,290 mm (66.7') |
| Length | - 61,470 mm (202.7') |
| Snake Drives | |
| - Top Belt | - 56 kW (75 HP) |
| - Bottom Belt | - 56 kW (75 HP) |

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JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors

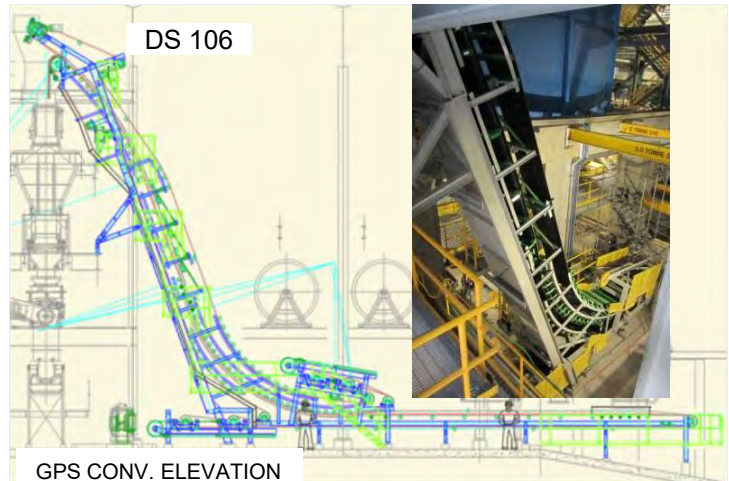


DSI Snake Sandwich Conveyor for UBT, Davant, LA, USA

| | |
|-----------------|------------------------|
| Material | - Coal |
| - Density | - 0.80 t/cu-m (50 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 3629 t/h (4000 STPH) |
| Conveying Angle | - 52 degrees |
| Belt Width | - 2438 mm (96") |
| Belt Speed | - 4.32 m/s (850 FPM) |
| Lift | - 18,540 mm (60.8') |
| Length | - 45,900 mm (150.6') |
| Snake Drives | |
| - Top Belt | - 224 kW (300 HP) |
| - Bottom Belt | - 224 kW (300 HP) |

DSI GPS Sandwich Conveyor for Pretium Metals Brucejack Project, BC, Canada

| | |
|-----------------|-------------------------|
| Material | - Pebble Ore |
| - Density | - 1.65 t/cu-m (103 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 45 t/h (49.6 STPH) |
| Conveying Angle | - 70 degrees |
| Belt Width | - 914 mm (36") |
| Belt Speed | - 0.71 m/s (140 FPM) |
| Lift | - 13,490 mm (44.2') |
| Length | - 30,900 mm (101.5') |
| Snake Drives | |
| - Top Belt | - 7.5 kW (10 HP) |
| - Bottom Belt | - 7.5 kW (10 HP) |



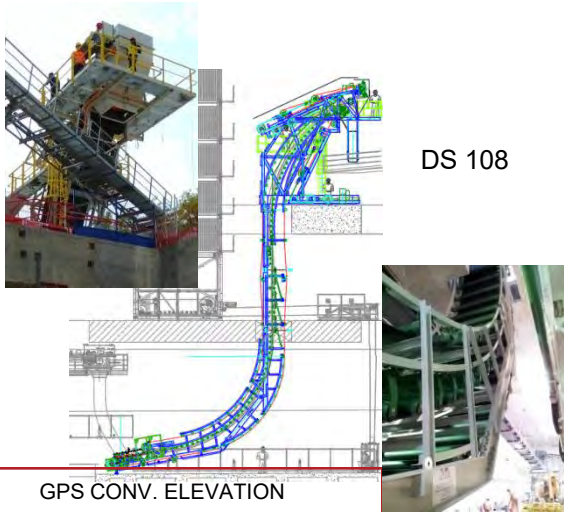
DSI Snake Sandwich Conveyor for Bedeschi S.p.A. at Yara Fertilizer, Sluiskil, Netherlands

| | |
|-----------------|------------------------|
| Material | - Urea, Amidas prills |
| - Density | - 0.75 t/cu-m (47 PCF) |
| - Size | - 3.6 mm (.14") minus |
| Conveying Rate | - 600 t/h (661 STPH) |
| Conveying Angle | - 40 degrees |
| Belt Width | - 1600 mm (63") |
| Belt Speed | - 2 m/s (394 FPM) |
| Lift | - 10,476 mm (34') |
| Length | - 32713 mm (107') |
| Snake Drives | |
| - Top Belt | - 37 kW (50 HP) |
| - Bottom Belt | - 37 kW (50 HP) |



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Sandwich Belt High Angle Conveyors

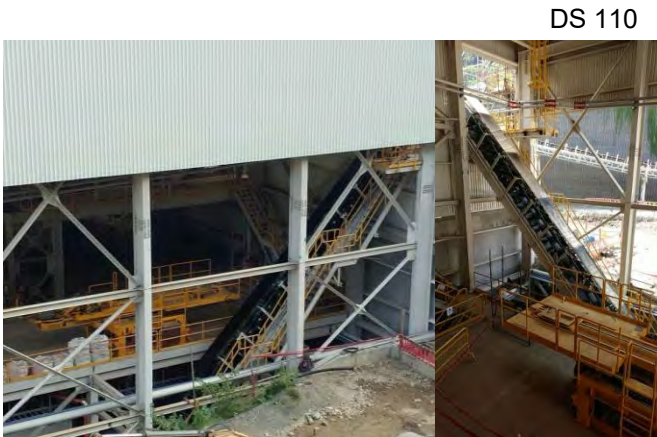
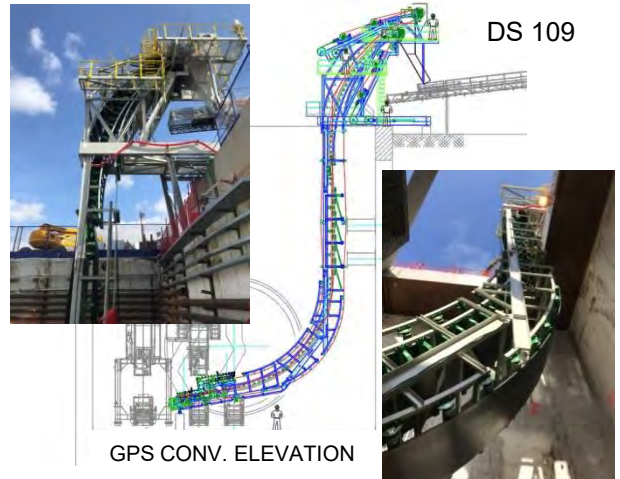


DSI GPS Sandwich Conveyor for H+E Logistik, Germany at Paris Metro project, France

| | |
|-----------------|------------------------|
| Material | - Tunnel muck |
| - Density | - 1.6 t/cu-m (100 PCF) |
| - Size | - 150 mm (5.9") minus |
| Conveying Rate | - 800 t/h (882 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1400 mm (55.1") |
| Belt Speed | - 3 m/s (591 FPM) |
| Lift | - 24,647 mm (80.9') |
| Length | - 33,521 mm (110.0') |
| Snake Drives | |
| - Top Belt | - 75 kW (101 HP) |
| - Bottom Belt | - 75 kW (101 HP) |

DSI GPS Sandwich Conveyor for H+E Logistik, Germany at Paris Metro project, France

| | |
|-----------------|------------------------|
| Material | - Tunnel muck |
| - Density | - 1.6 t/cu-m (100 PCF) |
| - Size | - 150 mm (5.9") minus |
| Conveying Rate | - 800 t/h (882 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 1400 mm (55.1") |
| Belt Speed | - 3 m/s (591 FPM) |
| Lift | - 26,323 mm (86.4') |
| Length | - 35,197 mm (115.5') |
| Snake Drives | |
| - Top Belt | - 75 kW (101 HP) |
| - Bottom Belt | - 75 kW (101 HP) |



DSI GPS Sandwich Conveyor for M3 at Buritica Project, Colombia

| | |
|-----------------|------------------------|
| Material | - Pebble ore |
| - Density | - 1.6 t/cu-m (100 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 135 t/h (149 STPH) |
| Conveying Angle | - 45 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 1.07 m/s (211 FPM) |
| Lift | - 14,250 mm (46.8') |
| Length | - 34,100 mm (111.9') |
| Snake Drives | |
| - Inner Belt | - 11 kW (15 HP) |
| - Outer Belt | - 11 kW (15 HP) |

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Sandwich Belt High Angle Conveyors

DS 111



GPS CONVEYOR

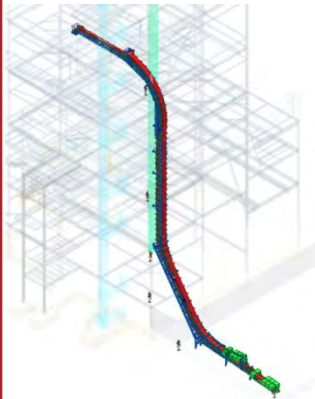
DSI GPS Sandwich Conveyor for M3 at Buritica Project, Colombia

| | |
|-----------------|------------------------|
| Material | - Pebble ore |
| - Density | - 1.6 t/cu-m (100 PCF) |
| - Size | - 76 mm (3") minus |
| Conveying Rate | - 135 t/h (149 STPH) |
| Conveying Angle | - 45 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 1.07 m/s (211 FPM) |
| Lift | - 6,750 mm (22.2') |
| Length | - 17,500 mm (57.3') |
| Snake Drives | |
| - Inner Belt | - 11 kW (15 HP) |
| - Outer Belt | - 11 kW (15 HP) |

DSI GPS Sandwich Conveyor for Ash Grove Cement, Midlothian, TX USA

| | |
|-----------------|------------------------|
| Material | - Tire chips |
| - Density | - 0.40 t/cu-m (25 PCF) |
| - Size | - 50.8 mm (2") minus |
| Conveying Rate | - 9 t/h (10 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 0.50 m/s (100 FPM) |
| Lift | - 40,538 mm (133') |
| Length | - 67,056 mm (220') |
| Snake Drives | |
| - Inner Belt | - 5.6 kW (7.50 HP) |
| - Outer Belt | - 5.6 kW (7.50 HP) |

DS 112



DS 113



DSI GPS Sandwich Conveyor for Ash Grove Cement, Midlothian, TX USA

| | |
|-----------------|------------------------|
| Material | - Tire chips |
| - Density | - 0.40 t/cu-m (25 PCF) |
| - Size | - 50.8 mm (2") minus |
| Conveying Rate | - 9 t/h (10 STPH) |
| Conveying Angle | - 70 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 0.50 m/s (100 FPM) |
| Lift | - 40,538 mm (133') |
| Length | - 62,500 mm (205') |
| Snake Drives | |
| - Inner Belt | - 5.6 kW (7.50 HP) |
| - Outer Belt | - 5.6 kW (7.50 HP) |

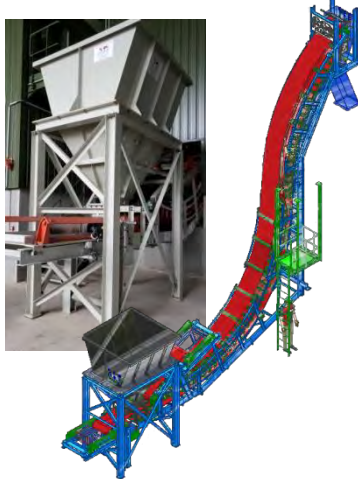
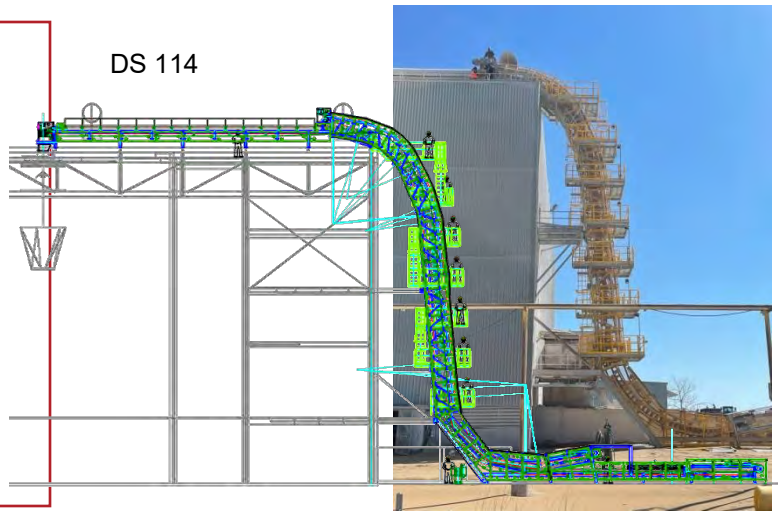
JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors

DSI GPS Sandwich Conveyor for

Lafarge Holcim, Sparrow Point, MD USA

| | |
|-----------------|------------------------|
| Material | - Natural Gypsum |
| - Density | - 0.40 t/cu-m (75 PCF) |
| - Size | - 50.8 mm (3") minus |
| Conveying Rate | - 122 t/h (135 STPH) |
| Conveying Angle | - 85 degrees |
| Belt Width | - 762 mm (30") |
| Belt Speed | - 2.03 m/s (400 FPM) |
| Lift | - 23,300 mm (76') |
| Length | - 61,500 mm (202') |
| Snake Drives | |
| - Inner Belt | - 19 kW (25 HP) |
| - Outer Belt | - 19 kW (25 HP) |



DSI Sandwich Conveyor

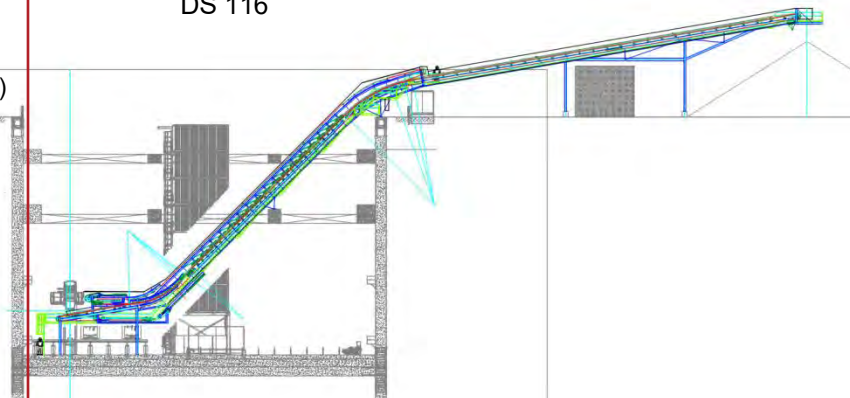
DS 115
for
SNF Coagulants, St. Avold France

| | |
|-----------------|-------------------------|
| Material | - Magnetite |
| - Density | - 3.00 t/cu-m (188 PCF) |
| - Size | - 1 mm (.04") minus |
| Conveying Rate | - 30 t/h (33 STPH) |
| Conveying Angle | - 90 degrees |
| Belt Width | - 610 mm (24") |
| Belt Speed | - 0.39 m/s (76 FPM) |
| Lift | - 8,790 mm (29') |
| Length | - 14,400 mm (47') |
| Snake Drives | |
| - Inner Belt | - 4.00 kW (6 HP) |
| - Outer Belt | - 4.00 kW (6 HP) |

DSI Sandwich Conveyor for Singapore Airport

| | |
|-----------------|-------------------------|
| Material | - Tunnel Muck |
| - Density | - 1.83 t/cu-m (114 PCF) |
| - Size | - 150 mm (6") minus |
| Conveying Rate | - 800 t/h (882 STPH) |
| Conveying Angle | - 45 degrees |
| Belt Width | - 1200 mm (47") |
| Belt Speed | - 2.00 m/s (76 FPM) |
| Lift | - 32,783 mm (108') |
| Length | - 90,142 mm (296') |
| Snake Drives | |
| - Inner Belt | - 75 kW (100 HP) |
| - Outer Belt | - 75 kW (100 HP) |

DS 116



JOSEPH A. DOS SANTOS

Sandwich Belt High Angle Conveyors



**DS 117 DSI Sandwich Conveyor
for
Cooper Consolidated, New Orleans, LA USA**

| | |
|-----------------|------------------------|
| Material | - Grains |
| - Density | - 0.77 t/cu-m (48 PCF) |
| - Size | - 101.6 mm (4") minus |
| Conveying Rate | - 2268 t/h (2500 STPH) |
| Conveying Angle | - 50 degrees |
| Belt Width | - 2133 mm (84") |
| Belt Speed | - 4.57 m/s (900 FPM) |
| Lift | - 18,474 mm (60.6') |
| Length | - 36,538 mm (119.9') |
| Snake Drives | |
| - Inner Belt | - 149 kW (200 HP) |
| - Outer Belt | - 112 kW (150 HP) |