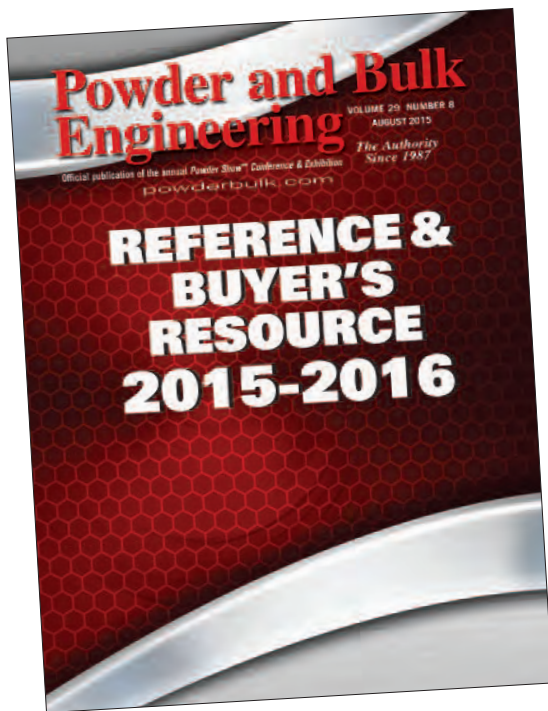


Powder and Bulk Engineering's



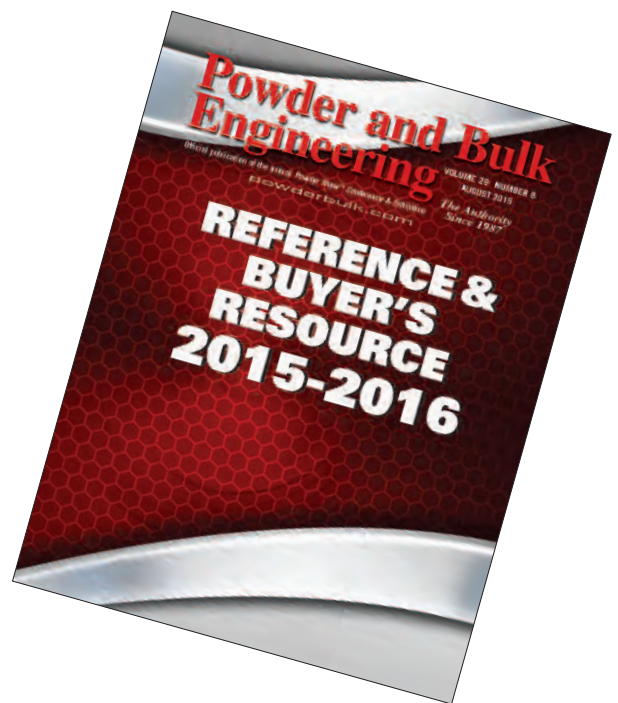
2015-2016 Annual Buyer's Guide

Complete and return
this questionnaire for
free listings in the
August Buyer's Guide issue.

In August, the annual *Powder and Bulk Engineering* buyer's guide will be published and mailed to more than 30,000+ readers. For a full year it will be the most complete source of information in the powder and bulk solids market.

Your company can be included in this important buyer's guide at absolutely no cost to you. All it takes is several minutes of your time to go through, complete, and return this questionnaire.

Because we may have a slightly different way of describing an item, please go through the entire questionnaire to make sure that you don't miss anything.



DEADLINE - JUNE 26 ... BUT WHY WAIT! COMPLETE AND RETURN TODAY!

2

ABRASION-RESISTANT MATERIALS

(See Linings, Abrasion Resistant)

ACOUSTIC GENERATORS

(See Discharge Aids)

ACTUATORS

10000 Actuators

AERATION DEVICES

22468 Aeration devices

AGGLOMERATION EQUIPMENT

11111 Briquetter
15110 Compactor
19109 Conditioner
23108 Deduster
26107 Densifier
30106 Disc pelletizer
34105 Drum pelletizer
38100 Encapsulator
42103 Extruder
46106 Flaker
50101 Fluid bed
54100 Granulator
58009 Instantizer
62095 Kneader
66097 Lab
70000 Mixing agglomerator
71520 Pastillator
72095 Pellet mill
73094 Pin mixer
75091 Powder press
79711 Priller
82097 Rewetting
84090 Rotary
87876 Rotating pan
91628 Spheroidizer
93391 Tablet press
98472 Tilting disk/pan
99893 Vibratory

AGITATORS/PROPELLERS

12473 Agitators/propellers

AIR CANNONS

(See Discharge Aids)

AIR CLASSIFIERS

10768 Air classifiers

AIR FILTERS

(See Dust Collectors or Dust Collector Media)

AIR HORNS

(See Discharge Aids)

AIR KNOCKERS

(See Discharge Aids)

AIR POLLUTION CONTROL EQUIPMENT

(See Dust Collectors)

AIR SEPARATORS

(See Air Classifiers)

AIRLOCKS

(See Valves)

ALARM SYSTEMS

10101 Fire
26139 Level
54328 Motion
79621 Temperature

ANALYZERS

10445 Air quality
18401 Colorimeter, lab
24536 Colorimeter, process
30651 Density
36788 Dew point
36942 Flowability
42914 Hardness
49406 Moisture, lab
55170 Moisture, process
61304 Particle counter
61350 Particle mobility
79483 Particle shape

67228 Particle size, calibration standards
67439 Particle size, lab
73572 Particle size, process
85825 Porosity
91948 Powder volume
92418 Relative humidity
10002 Segregation
98104 Surface area
98260 Vibratory
98677 Zeta potential

ANTI-BLINDING BALLS

(See Screening, Anti-Blinding Balls)

11423 Anti-caking agents

ASH CONDITIONING EQUIPMENT

59201 Ash conditioning equipment

ASH REMOVAL SYSTEMS

12738 Ash removal systems

ASPIRATORS

19214 Aspirators

ATTRITORS

(See Mills)

AUGERS

16361 Augers

BAG CLOSING/SEALING EQUIPMENT

10208 Adhesive
21639 Heat sealing
33833 Pinch bottom
44414 Pinch top
52809 Sewn
69333 Sewn/tape
71247 Square top
80030 Tape
96423 Zipper

BAG CLOSING/SEALING SUPPLIES

10224 Tape
10214 Thread

**BAG FILLING EQUIPMENT
(MULTIWALL)**

(Also see Bulk Bag Filling Equipment)

- 1 5# and under 4 26-50#
2 6-10# 5 51-100#
3 11-25# 6 Over 100#
- 17544 Compression packing
 1 2 3 4 5 6
- 19684 Form-fill-seal
 1 2 3 4 5 6
- 20077 Gravimetric
 1 2 3 4 5 6
- 29804 Gross weight
 1 2 3 4 5 6
- 38901 Net weight
 1 2 3 4 5 6
- 47098 Open mouth
 1 2 3 4 5 6
- 53871 Sanitary
 1 2 3 4 5 6
- 65112 Vacuum
 1 2 3 4 5 6
- 74139 Valve, air pressure
 1 2 3 4 5 6
- 79322 Valve, auger
 1 2 3 4 5 6
- 83106 Valve, gravity
 1 2 3 4 5 6
- 99873 Volumetric
 1 2 3 4 5 6
- 99890 Wicketted
 1 2 3 4 5 6

**BAG HANDLING
EQUIPMENT (MULTIWALL)**

(Also see Bulk Bag & Bin Handling
Equipment)

- 12050 Adhesive palletizing
equipment
- 13171 Checkweighers
- 22437 Conveyors
- 31773 Deaerators
- 36830 Depalletizers
- 36855 Dump stations
- 40092 Empty bag systems
- 47649 Flatteners
- 47805 Inserters
- 48135 Lifters
- 49113 Openers, automatic
- 50041 Openers, manual
- 50046 Pallet dispensers
- 51100 Pallet inverters

- 51234 Palletizers
- 51280 Pallets
- 74474 Placers
- 79236 Robots
- 81922 Settlers
- 81944 Shrink wrappers
- 81950 Slitters
- 90315 Stackers
- 92730 Stretch hood wrappers
- 92960 Stretch wrappers
- 91750 Turners
- 92961 Vacuum manipulators

**BAGGING SYSTEMS,
COMPLETE**

- 16662 Bagging systems, complete

BAGHOUSES

(See Dust Collectors)

BAGS

(See Multiwall Bags, Bulk Bags, or
Dust Collector Media)

BEARING HANGERS

- 17620 Bearing hangers

BEARING SEALS

(See Gaskets & Seals)

BEARINGS

- 19436 Bearings

BELT CLEANERS & SCRAPERS

- 17777 Belt cleaners & scrapers

BELT FASTENERS

- 10708 Belt fasteners
- 23156 Belt splicers

BELT SCALES

(See Scales)

BELT TAKE-UPS

- 23619 Belt take-ups

BELTING, CONVEYOR

- 10047 Balata
- 31382 Cleated

- 47321 Corrugated sidewall
- 58475 Fabric
- 63459 Fluidizing
- 67891 PVC
- 78494 Rubber
- 97973 Trough
- 99216 Urethane

**BINACTIVATORS/
DISCHARGERS**

(Also see Aeration Devices, Discharge
Aids, and Vibrators)

- 10201 Bin activators/dischargers

BIN LEVEL INDICATORS

(See Level Indicators)

BIN VENTS

(See Dust Collectors)

BIN VIBRATORS

(See Vibrators)

**BINS & HOPPERS,
PERMANENT**

- 10372 Aluminum
- 13542 Carbon steel
- 33914 Fabric
- 34290 Fiberglass
- 53316 Plastic
- 91423 Stainless steel

BINS & HOPPERS, PORTABLE

- 10032 Aluminum
- 12241 Carbon steel
- 24476 Corrugated
- 29918 Fabric
- 32367 Fiberglass
- 50025 Plastic
- 90047 Stainless steel

BLENDERS

(See Mixers & Blenders)

BLOWER PACKAGES

- 12323 Blower packages

**BLOWER SILENCER
ENCLOSURES**

- 30423 Blower silencer enclosures

BLOWERS

- 11140 Portable
- 26843 Stationary
- 58201 Truck-mounted

BOX AND DRUM FILLERS

- 12443 Box and drum fillers

BOXES, CRATES

- 36842 Metal
- 71134 Plastic

BUCKETS

(See Elevator Buckets)

BULK BAG & BIN HANDLING EQUIPMENT

- 13601 Conveyors, belt
- 13650 Conveyors, metal belt
- 13688 Conveyors, roller
- 14055 Densifiers
- 14260 Pallet dispensers
- 15275 Presses
- 15725 Right-angle turns
- 92957 Storage racks
- 94633 Turntables

BULK BAG CLEANERS

- 25250 Cleaning equipment
- 25733 Services

BULK BAG FILLING EQUIPMENT

- 12843 Bulk bag filling equipment

BULK BAG FOLDERS

- 60150 Bulk bag folders

BULK BAG LINERS

(See Liners)

BULK BAG UNLOADING EQUIPMENT

- 12148 Bulk bag unloading equipment

BULK BAGS

- 10065 Anti-static bags
- 10240 Baffled bags
- 11568 Custom bags
- 10530 Flame retardant
- 10676 Full bottom discharge
- 38201 Grounded bags
- 45122 HazMat
- 52791 Lined bags
- 52910 Polyvinyl chloride
- 53570 Remote discharge
- 55593 Rigid-sided
- 58677 Rubberized
- 59770 Sanitary bags
- 60321 Side discharge
- 70822 Sift-proof bags
- 84287 Waterproof bags
- 84511 Woven polypropylene

BUSHINGS

- 14406 Bushings

CAKE FILTRATION EQUIPMENT

(Also see Centrifuges)

- 32511 Filter belt presses, batch
- 34480 Filter belt presses, continuous
- 34677 Pressure filters, batch
- 39356 Pressure filters, continuous
- 46200 Vacuum filters, batch
- 49615 Vacuum filters, continuous

CALIBRATION

- 20330 Particle Size

CATWALKS

- 20341 Catwalks

CENTRIFUGES

- 11562 Batch
- 29948 Continuous
- 41336 Perforated basket
- 66392 Solid basket
- 97943 Solid bowl

CHECKWEIGHERS

(See Bag Handling Equipment or Scales)

CHIPPERS

- 11848 Chippers

CHUTES & SLIDES

- 12285 Chutes & slides

CLAMPS

(See Hose Clamps or Pipe Couplings)

CLASSIFIERS

(See Air Classifiers or Screening Equipment)

CLUTCHES & BRAKES

- 27563 Clutches & brakes

COATING EQUIPMENT

(See Particle Coating Equipment)

COLOR SORTERS

- 18223 Color sorters

COMMINUTORS

- 11490 Comminutors

COMPACTION TABLES

- 18327 Compaction tables

COMPLETE SYSTEMS

- 99900 Turnkey

COMPRESSED AIR DRYERS

- 50225 Deliquescent
- 50270 Refrigerated
- 50280 Regenerative

COMPRESSORS

- 13248 Compressors

COMPUTER SOFTWARE

- 16384 Dust collector design
- 19327 Dust collector troubleshooting
- 61835 Pneumatic conveyor design
- 64581 Pneumatic conveyor troubleshooting

CONDUCTIVE FIBERS

13905 Conductive fibers

CONNECTORS

(See Screening Connectors)

CONTROL SYSTEMS & PANELS

14314 Control systems & panels

CONTROLS

(Also see Monitors)

23142 Automatic batch
23145 Dust collector
33343 Electromechanical
45008 Electronic
69022 Level
75460 Moisture, dryer
76343 Pneumatic
78795 Pressure
89947 Programmable
95495 Relative humidity
97757 Safety switch
98011 Statistical process
98027 Temperature
98771 Timing
99489 Vacuum

CONVEYOR BELT SCALES

(See Scales)

CONVEYOR BELTING

(See Belting, Conveyor)

CONVEYOR CHAIN

10203 Conveyor chain

CONVEYOR CLEANERS

(See Belt Cleaners)

CONVEYOR COVERS/HOODS

60284 Conveyor covers/hoods

CONVEYOR DUST CONTROL

60310 Conveyor dust control

CONVEYOR HOLDBACKS/BACKSTOPS

24236 Conveyor holdbacks/backstops

CONVEYOR SAFETY SWITCHES

30150 Conveyor safety switches

CONVEYOR SCREWS

(Also see Augers)

31180 Mild steel
32955 Plastic
36262 Stainless steel

CONVEYOR SKIRTING

20934 Conveyor skirting

CONVEYOR SLIDER BEDS

20221 Conveyor slider beds

CONVEYORS

(See Mechanical Conveyors or Pneumatic Conveyors)

COOLERS

12186 Coolers

COUPLINGS

(See Pipe Couplings or Shaft Couplings)

CRUSHERS

(Also see Mills or Shredders)

11314 Batch
18817 Continuous
26320 Gyratory
33823 Impact
41326 Integral screening
48829 Jaw
56332 Low-profile
63839 Pre-breakers
71338 Ring-roll
78841 Roll
86334 Rotary
90884 Sanitary
93848 Secondary

CRYOGENIC GRINDING EQUIPMENT

(See Mills)

CRYSTALIZERS

10542 Crystalizers

CUSTOM FABRICATORS

19385 Custom fabricators

CUSTOM SERVICES

11492 Agglomeration
16539 Bagging
19440 Custom packaging
26189 Drying
31398 Laboratory services
34181 Mixing/blending
34345 Particle characterization
38225 Particle coating
40132 Pilot scale processing
43336 Screening & classifying
73892 Size reduction
90011 Spray drying
92672 Tableting

CUTTERS

12142 Dicers
31367 Flakers
50001 Graters
78777 Shredders
99396 Slicers

CYCLONES

(See Dust Collectors)

DAMPERS

70512 Dampers

DEAERATORS

12144 Deaerators

DEAGGLOMERATORS

13872 Deagglomerators

DEDUSTERS

25910 Electronic
51943 Mechanical

DEHUMIDIFIERS

11211 Dehumidifiers

DEHYDRATORS

10138 Dehydrators

DELUMPING MILLS

(See Mills or Crushers)

DENSIFIERS

10030 Densifiers

DESICCANTS

14945 Desiccants

DEWATERING EQUIPMENT

(See Centrifuges or Cake Filtration Equipment)

DISCHARGE AIDS

(Also see Aeration Devices, Bin Activators/Dischargers or Vibrators)

11482 Acoustic generator
12850 Air cannon
13340 Air horn
49300 Air knocker
13579 Live bottom
73822 Pneumatic blasting

DISPERSERS

(See Mixers & Blenders)

DIVERTERS

(See Valves)

DOMESTORAGE

(Also see Silos)

18634 Dome storage

DRAG CHAIN

18827 Drag chain

DRAG FLIGHTS

79402 Drag flights

DRIVES

12940 Drives

DRUM FILLERS

(See Box and Drum Fillers)

DRUM HANDLING EQUIPMENT

11841 Drum handling equipment

DRUMS

10008 Aluminum
22042 Carbon steel
22471 Corrugated
38187 Fiber
45453 Lined
60015 Metal
81444 Plastic
99001 Stainless steel

DRYER REPLACEMENT PARTS

57000 Dryer replacement parts

DRYERS

10001 After-cooling
12333 Agitated
14455 Apron
16566 Back mixed
18872 Back-mix feeding
20002 Calciner
22033 Centrifugal
24307 Classifying
26666 Closed-loop
28770 Combination dryer/mixer
30316 Conduction
32422 Convection
34531 Conveyor
36766 Counter-current
38380 Cross-flow
39977 Desiccant
39985 Double cone
40000 Drum
42111 Dust-tight
44998 Flash
46466 Fluid bed
48902 Freeze
50010 Gas-tight
99567 Helical dryer/mixer
51333 Hopper
51755 Infrared
52175 Lab
53433 Microwave
55357 Multi-stage
56190 Multi-zoned
57171 Paddle
58599 Pan
60444 Plate
62681 Plug flow
63087 Pulse jet
64270 Radio frequency

65800 Ribbon
65814 Ring
66999 Roaster
67913 Rotary
68315 Scraped surface
69696 Screw
71310 Second stage
72263 Shelf
72316 Size reducing
73914 Sludge
74799 Spin flash
75631 Spiral
77117 Spray
79210 Superheated vapor
81214 Suspension
83095 Thermal disk
83595 Thin film
84112 Tower
85490 Tray
86435 Tumble
88991 Tunnel
90105 V-cone
92016 Vacuum
94560 Vertical
99891 Vibratory

DUCTWORK

10046 Ductwork

DUMPERS

(Also see Lifters)

13245 Dumpers

DUST ARRESTORS

14358 Dust arrestors

DUST COLLECTOR CAGES

10123 Dust collector cages
10507 Bags
54354 Cartridges
99894 Ceramics
89879 Cloth
99898 Membrane/nano
90137 Sintered plastic element
92104 Synthetic

DUST COLLECTOR MEDIA

10507 Bags
54354 Cartridges
99894 Ceramics

89879 Cloth
99898 Membrane/nano
90137 Sintered plastic element
92104 Synthetic

DUST COLLECTOR MEDIA CLEANERS

25480 Bags
26233 Cartridges
26710 Services

DUST COLLECTOR SYSTEMS, COMPLETE

30072 Dust collector systems,
complete

DUST COLLECTOR VALVES

(Also see Valves)

30090 Dust collector valves

DUST COLLECTORS

15302 Absolute filtering
21435 Bag filtering
27803 Bin vent
34510 Cartridge filtering
37334 Centrifugal
40001 Cyclone
46018 Electrostatic precipitator
54123 HEPA filtering
62148 Intake filtering
66771 Mist-fume
72999 Multi-stage
79214 Pulse jet
85030 Reverse air
91249 Scrubber
94111 Shaker
99135 Waste recovery
97350 Wet

EDUCTORS

11121 Eductors

ELBOWS

12429 Elbows

ELEVATOR BOLTS

43628 Elevator bolts

ELEVATOR BUCKETS

11670 Aluminum
12633 Iron
23578 Nylon
36120 Polyethylene
47724 Steel
74625 Urethane

ELEVATORS

(See Mechanical Conveyors)

EMISSION MONITORS

(See Monitors)

EVAPORATORS

11089 Evaporators

EXPLOSION SUPPRESSION

11335 Isolation valves
40560 Spark detection
76043 Systems

EXPLOSION VENTING

14642 Door vent latches
15483 Vents
16000 Vents, flameless

EXTRACTION EQUIPMENT

37890 Extraction equipment

EXTRUDERS

50377 Lab
61602 Planetary two stage
70299 Single screw
81750 Twin screw

FANS

11440 Air movement
14395 Materials handling

FEEDERS

11222 Agitated
16655 Belt
21242 Bridge breaking
26190 Dosing
31333 Dust-tight
36798 En masse

41946 Explosion-proof
43410 Fine powders
46637 Gravimetric
51905 Lab
56789 Live bottom
61233 Loss-in-weight
67730 Oscillating
71221 Proportioning
76696 Rotary valve
81244 Sanitary
86555 Screw
89211 Self-cleaning
91230 Slide gate
92333 Tray
93218 Vibratory
95402 Volumetric
97723 Weigh belt

FIBCS

(See Bulk Bags)

FILLERS, PACKAGE

(Also see Bag Filling Equipment)

10070 Fillers, package

FILTER BAGS, CARTRIDGES

(See Dust Collector Media)

FILTER PRESSES

(See Cake Filtration Equipment)

FILTERS FOR LIQUID/SOLID SEPARATION

40188 Centrifuge cloths & liners
42560 Filter belting
46440 Filter cloths (for filter belt
presses)
50150 Filter leaf covers
55933 Press cloths
64988 Vacuum filter cloths

FILTERS, IN-LINE AIR

48852 Filters, in-line air

FIRE DETECTION EQUIPMENT

10307 Fire detection equipment

FIRE SUPPRESSION SYSTEMS

12111 Fire suppression systems

FLATTENERS

(See Bag Handling Equipment)
(See Anti-Caking Agents)

FLOW AIDS

(See Discharge Aids)

FLOW METERS, SOLIDS

24793 Flow meters, pneumatic lines
10135 Flow meters, solids

FLOW MONITORS

(See Monitors)

FLUIDIZED BEDS

(See specific categories, such as Dryers)

FLUIDIZERS

(See Aeration Devices)

FLUIDIZING MEDIA

15309 Fluidizing media

GASKETS & SEALS

11054 Bearing isolation seals
11777 Gaskets
47201 Seals
99568 Seals, inflatable

GATES

(See Valves, Slidegate)

GEAR REDUCERS

12649 Gear reducers

GEARS

11857 Gears

GRANULATORS

(See Agglomeration Equipment)

GRATES

(See Magnetic Separators)

GRINDERS

(Also see Mills)
11336 Grinders

GRINDING MEDIA

13967 Grinding media

**HAMMERMILL
REPLACEMENT PARTS**

11374 Hammers
11384 Screens

HARD FACING

32688 Hard facing

HEAT EXCHANGERS

11465 Air-to-air
54391 Liquid-to-air
82250 Solids-to-liquid

HOGS

13260 Hogs

HOSE

11599 Abrasion resistant
19819 Ducting
12567 Metal
77459 Plastic
77500 Rubber
19820 Silicon
19821 Vacuum

HOSE CLAMPS

16133 Hose clamps

IBCs

(See Bins & Hoppers, Portable)

IDLER ASSEMBLIES

17302 Cantenary
14744 Cantilever
44921 Flat
57729 Offset
78290 Stub
87656 Troughed

IMPACTORS

15843 Impactors

INCINERATORS

44920 Incinerators

**INSPECTION SERVICE
DOORS**

51400 Inspection service doors

KILNS

51580 Kilns

KNIVES/CUTTERS

10459 Knives/cutters

LEAK DETECTORS

19840 Leak detectors

LEVEL CONTROLLERS

10926 Level controllers

LEVEL INDICATORS

11324 Bin-bob
19438 Capacitance
28311 Continuous
32255 Laser
36430 Microwave
42122 Nuclear radiation
50480 Paddle
58436 Pressure sensitive
63135 Radio frequency
70028 Rotating vane
78211 Sonic/ultrasonic
88123 Strain sensor
93610 Tuning fork/vibrating rod

LIFTERS

20140 Bins
21360 Bulk bags
22675 Drums

LINERS

13461 Box
13462 Bulk bag
20954 Disposable
43737 Drum
52221 Shipping container
61135 Truck

**LININGS, ABRASION
RESISTANT**

10079 Alloy
24361 Basalt
32737 Ceramic
44338 Combination
55411 Epoxy
60045 Plastic
84344 Rubber

LOAD CELLS

(See Scales)

LOADING SPOUTS & CHUTES

13543 Loading spouts & chutes

LUMP BREAKERS

15475 Lump breakers

MAGNETIC SEPARATORS

(Also see Metal Detectors)

10256 Center flow tube
20437 Chute
28166 Drawer
33480 Drum
40362 Electro high gradient
45386 Grate
50084 Hump
55211 Overhead
60036 Plate
68255 Pneumatic conveyor
74522 Pulley
77814 Roll
79629 Rotating
87105 Self-cleaning
90356 Tube

MANIPULATORS

(See Lifters or Bag Handling Equipment)

MATERIAL FLOW AIDS

(See Discharge Aids)
(See specific equipment)

MECHANICAL CONVEYORS

10399 Aeromechanical
11962 Air slide
14209 Apron
15334 Beam
19106 Belt
21900 Belt, air assisted
23951 Bucket elevator
27300 Chain
31085 Cleated belt
35201 Cooling
39133 Covered
40271 Differential motion
43567 Drag
47508 Dust-tight

51003 En masse
55347 Enclosed
59921 Flexible screw
61183 Inclined
61534 Portable
62815 Reciprocating
63286 Screening
67960 Screw
69201 Sidewall belt
71713 Spiral
74208 Stacking
74912 Steel belt
75930 Storage system
81812 Trough
82690 Tube, belt
84444 Tubular, drag
84823 Tubular, reciprocating
85066 Tubular, screw
86931 Vertical
90130 Vibratory
94367 Walled belt

METAL DETECTORS

(Also see Magnetic Separators)

63948 Bulk material
33445 Detect & reject
11000 Detect only
98983 Finished packages
98987 X-ray

MILLS

10003 Air-swept
12499 Attrition
15340 Ball
17433 Bead
19325 Blending
21232 Bowl
22105 Cage
23657 Centrifugal
24612 Chain
25354 Colloid
27566 Cone
29295 Continuous
10487 Cryogenic grinding equipment
31324 Deagglomerating
33441 Disc
35389 Dispersion
37422 Explosion-proof
39565 Fine particle
41378 Finishing
43601 Fluid energy
45978 Grinding plate

47232 Hammer
49521 Homogenizing
50992 Horizontal
51347 Impact
52343 Integral screening
52450 Jar
52563 Jet
52675 Knife cutting
52780 Lab
52852 Micronizing
99901 Nano-size
52944 Pebble
99569 Pellet
53175 Pin
53200 Pug
54073 Pulverizing
60789 Rod
63042 Roller
67735 Roller disc
71169 Sanitary
71180 Screening
72866 Semi-autogeneous
78444 Tube
80303 Tumbling
82017 Universal
84356 Vertical
86763 Vibratory ball
88320 Wet grinding

MIXERS & BLENDERS

10005 Baffled
10010 Bin
12348 Bottom entry agitated
14387 Chilled
16560 Combination mixer/dryer
18185 Compounding
20012 Conical screw
21103 Container
22337 Continuous
24285 Dispersion
26348 Dissolver
28452 Double arm
30211 Double cone
32190 Double planetary
34845 Dry powder
36509 Emulsifier
38401 Fluid bed
40797 Gravity flow
42422 Heated
99570 Helical dryer/mixer
44558 High shear
46509 Homogenizer

48320 Horizontal
50138 Impregnating
52134 Jet
54385 Kneader
56321 Lab
58329 Low shear
60452 Muller
62435 Multiple-motion
64080 Paddle
66443 Pin
68341 Planetary
70355 Plow
72198 Pneumatic blender
74328 Pony
75699 Portable
76480 Pug mill
78433 Reactor
80354 Ribbon
82367 Rotary
84120 Rotating drum
85661 Sanitary
86346 Screw
88211 Shear bar
90328 Side entry agitated
90893 Silo blender
91265 Spiral
92587 Spray processor
93549 Tank
94121 Top entry agitated
95343 V-cone
96789 Vacuum
97821 Vertical cone
97875 Vertical paddle
98490 Vibratory

MONITORS

10153 Air quality
13774 Airflow
23476 Bag leaks, breaks
99895 Belt alignment
43690 Blockage
60125 Density
65217 Dust
65225 Emission
66208 Explosion-proof
73156 Flow
79524 Moisture
84590 Motion
99241 Overfill
99280 Oxygen
99300 Plugged chute
99896 Position

99355 Pressure
99538 Relative humidity
99644 Speed
99892 Temperature
99897 Vibration

MOTORS

10045 Dust-proof
65348 Explosion-proof

MULTIWALL BAGS

(Also see Bulk Bag Filling Equipment)

| | |
|----------------|-------------|
| 1 5# and under | 4 26-50# |
| 2 6-10# | 5 51-100# |
| 3 11-25# | 6 Over 100# |

(Also see Plastic Bags)

10547 Open mouth, paper
 1 2 3 4 5 6
45739 Valve, paper
 1 2 3 4 5 6

PACKAGE OPENING EQUIPMENT, TO RECLAIM PRODUCT

11158 Package opening equipment,
to reclaim product

PACKAGING EQUIPMENT

(See Bag Filling Equipment or Fillers,
Package)

PALLETIZERS

(See Bag Handling Equipment)

PARTICLE ANALYSIS

(See Analyzers)

PARTICLE COATING EQUIPMENT

10304 Coating drums
23940 Dry applicators
24371 Dry impregnator
38529 Fluid bed
45018 Liquid applicators
61446 Vacuum coater

PIPE COUPLINGS

10744 Angle flanges
14934 Angle rings
17232 Clamps

20915 Couplings
35520 Expansion joints
47933 Fittings

PIPING/TUBING

10842 Piping/tubing
24033 Sight glasses
49027 Tube bends

PLASTIC BAGS

(Also see Bulk Bag Filling Equipment)

| | |
|----------------|-------------|
| 1 5# and under | 4 26-50# |
| 2 6-10# | 5 51-100# |
| 3 11-25# | 6 Over 100# |

(Also see Multiwall Bags)

10320 Form/Fill/Seal
 1 2 3 4 5 6
23892 Open mouth
 1 2 3 4 5 6
78320 Valve, plastic
 1 2 3 4 5 6

PNEUMATIC BLASTERS

(See Discharge Aids)

PNEUMATIC CONVEYOR SYSTEMS, COMPLETE

11011 Pneumatic conveyor systems,
complete

PNEUMATIC CONVEYORS

10438 Dense phase
28544 Dilute phase
34726 Portable
34950 Positive pressure
54208 Pressure tank
99902 Sanitary
86451 Screw pump
94312 Vacuum
97921 Vacuum/pressure

PRESSES

(See Agglomeration Equipment)

PRESSURE FILTERS

(See Cake Filtration Equipment)

PULLEYS

10053 Pulleys

PULVERIZERS

(See Mills)

PUMPS, POWDER

11430 Pumps, powder

RAILCAR ACCESS PLATFORMS

68600 Railcar access platforms

RAILCAR GATE OPENERS/CLOSERS

10652 Manual

RAILCAR LOADING & UNLOADING EQUIPMENT

16329 Mechanical

13707 Pneumatic

RAILCAR MOVERS & SPOTTERS

13750 Railcar movers & spotters

RAILCAR SEALS & FILTERS

56677 Railcar seals & filters

RAILCAR SHAKERS

16432 Railcar shakers

RAILCARS

68401 Vacuum

ROTARY AIRLOCKS

(See Valves)

SAFETY EQUIPMENT

82413 Fall protection

SAMPLERS

12648 Samplers

SCALES

(Also see Weighing Systems)

11229 Bagging

17343 Batch

23478 Bench

29444 Bin/hopper/tank

35121 Checkweighing

41238 Conveyor belt

47433 Dust-tight

50923 Explosion-proof

53000 Floor

59367 Lab balances

62341 Load cells

65393 Platform

71404 Portable

77345 Railcar

83687 Remote indicator

89513 Truck

95389 Weigh controller/indicator

SCREENING ANTI-BLINDING BALLS

12174 Screening anti-blinding balls

SCREENING CONNECTORS

11322 Screening connectors

SCREENING ENHANCERS

11640 Multi-frequency adapters

SCREENING EQUIPMENT

(Also see Air Classifiers)

12428 Centrifugal

16999 Circular

21500 Gravity

26343 Grizzly

30501 Gyrotory

30895 Heated

35432 Inclined

12589 Lab sieves

39838 Multi-deck

44000 Perforated plate

48325 Reciprocating

53682 Rectangular

57500 Rotary

62034 Sanitary

66586 Scalping

71001 Shaking

80000 Sieves

75534 Sifters

81090 Sifters, in-line pneumatic

84537 Stationary

89465 Testing

90371 Tumbler

91355 Ultrasonic

93530 Vibratory

98310 Wedge slot

SCREENING EQUIPMENT REPLACEMENT PARTS

54407 Screening equipment replacement parts

SCREENING MEDIA

11169 Alloy

17753 Conductive fabrics

20945 Custom fabricated services

21569 Drilled plate

22312 Perforated metal

31386 Sieve cloth

48300 Stainless steel

55683 Synthetic

66489 Wire cloth

78438 Wire mesh

84951 Woven wire

SCREENING PAN CLEANERS

87545 Screening pan cleaners

SCREW CONVEYORS

(See Mechanical Conveyors)

SCREW FLIGHTS

12366 Screw flights, metal

69210 Screw flights, plastic

SEALS

(See Gaskets & Seals)

SEMI-BULK BAG CLEANERS

(See Bulk Bag Cleaners)

SEMI-BULK BAG FILLING EQUIPMENT

(See Bulk Bag Filling Equipment)

SEMI-BULK BAG FOLDERS

(See Bulk Bag Folders)

SEMI-BULK BAG LINERS

(See Bulk Bag Liners)

SEMI-BULK BAG UNLOADING EQUIPMENT

(See Bulk Bag Unloading Equipment)

SEMI-BULK BAGS

(See Bulk Bags)

SEMI-BULK CONTAINERS

(See Bins & Hoppers, Portable)

SENSORS

(See Monitors)

SHAFT COUPLINGS

87210 Shaft couplings

SHIP & BARGE LOADING & UNLOADING EQUIPMENT

13122 Mechanical

34829 Pneumatic

SHREDDERS

(Also see Mills)

50361 Shredders

SIEVES

(See Analyzers or Screening Equipment)

SIFTERS

(See Screening Equipment)

SILENCERS

11250 Enclosures

11285 Silencers

SILO CLEANOUT

11321 Silo cleanout equipment

43289 Silo cleanout services

SILO DISCHARGE METHODS

11138 Chisel

33323 Combination mass/funnel flow

55892 Funnel flow

89981 Mass flow

SILO LIGHTING

90111 Silo lighting

SILO UNLOADERS

90110 Silo unloaders

SILOS

(Also see Dome Storage)

15573 Aluminum

18938 Bolted steel

39295 Concrete stave

43592 Fabric

45211 Fiberglass

48929 Field erected

54092 Glass-fused

54114 Jump formed

54521 Plastic

64346 Shop manufactured

86832 Slip formed

89739 Stainless steel

92818 Welded steel

SIZE REDUCTION EQUIPMENT

(See specific categories, such as Crushers or Mills)

SLIDE GATES

(See Valves)

SOLVENT EXTRACTORS

41932 Solvent extractors

SPEED REDUCERS

12937 Speed reducers

SPOUTS

(See Loading Spouts and Chutes)

SPRAY DRYERS

(See Dryers)

SPRAY NOZZLES

18847 Spray nozzles

SPROCKETS

(Also see Gears)

11183 Sprockets

STACKERS/RECLAIMERS

89324 Stacker/reclaimers

STATIC ELIMINATORS

89174 Static eliminators

STORAGE BINS

(See Bins & Hoppers)

STORAGE SYSTEMS, COMPLETE

11982 Storage systems, complete

STORAGE TANKS

(See Silos or Bins & Hoppers or Dome Storage)

STRETCH WRAP EQUIPMENT

(See Bag Handling Equipment)

TEST LABS

11929 Test labs

TEST SCREENS

(See Screening Equipment)

THERMAL CONDITIONERS

19242 Thermal conditioners

TOLL PROCESSING

(See Custom Services)

TRAINING INSTRUCTION

17127 Training instruction

TRAMP METAL DETECTORS/REMOVERS

(See Magnetic Separators)

TRUCK LOADING & UNLOADING EQUIPMENT

69037 Mechanical

78402 Pneumatic

TRUCK TRAILERS, DRY BULK

19329 Pneumatic

TUBING

(See Piping/Tubing)

VACUUM CLEANING EQUIPMENT

- 12877 Air
- 13002 Electric
- 15699 Explosion-proof
- 41739 HEPA filtering
- 20199 Portable
- 35022 Stationary
- 19824 ULPA filtering

VACUUM CLEANING SYSTEMS

- 19818 Vacuum cleaning systems

VACUUM FILTERS

(See Cake Filtration Equipment)

VACUUM LOADERS

- 11224 Explosion-proof
- 49103 HEPA filtering
- 70134 Trailer-mounted
- 82104 Wet/dry

VACUUM PUMPS

- 12203 Vacuum pumps

VALVES & GATES

- 13239 Ball
- 22302 Butterfly
- 25510 Check
- 31295 Cone
- 40139 Diaphragm
- 44903 Disc
- 49230 Discharge
- 58392 Diverter
- 61994 Double-dump
- 65490 Flapgate
- 67349 Iris
- 67389 Knife gates
- 76493 Pinch
- 83422 Pressure/vacuum relief
- 85834 Rotary airlock
 - 99540 *Dense phase*
 - 99541 *Dilute phase*
 - 99542 *Feeder*
 - 99544 *High pressure*
 - 99545 *Sanitary*
- 91134 Sanitary
- 94201 Slide gate
- 99482 Swing

VIBRATING TABLES

(See Compaction Tables)

VIBRATORS

- 11839 Air pads
- 23777 Electric
- 43895 External bin
- 35601 Pneumatic

WASTE HANDLING EQUIPMENT

- 19139 Waste handling equipment
- 26195 Water & wastewater equipment

WEAR PROTECTION

- 37565 Wear protection

WEIGH FEEDERS

(See Feeders)

WEIGHING EQUIPMENT

(See Scales)

WEIGHING SYSTEMS

(Also see Scales)

- 18234 Batching
- 23978 Blending
- 49320 Continuous
- 69813 Micro ingredient
- 73455 Multiple ingredient
- 93457 Proportioning
- 97201 Weigh/blend

WIRE CLOTH

(See Screening Media)

3

If your products are registered [®] by tradenames (brand names), list those that are appropriate for this marketplace.

Trade name:

Brief description:

4

If you provide appropriate products or services to the powder and bulk solids market which do not appear in the preceding section, you may suggest

their inclusion below. Indicate a generic name for the category you suggest and the topic heading in Section 2 where you feel it should be listed.

Product or Service:

Suggested Category Location:

Just a few more things to check and you're through.

A. Gather together supporting literature (catalogs, brochures, price lists, etc.) describing the items you have checked in this questionnaire. Mail them in one package to:

Powder and Bulk Engineering
Buyer's Guide 2015-2016
1155 Northland Drive
St. Paul, MN 55120

For your files and records, we suggest that you make copies of the sections in which you have entered data.

If you do not have supporting sales literature to include with your submittal, explain why here:

Check here if you would like information on advertising in this issue.