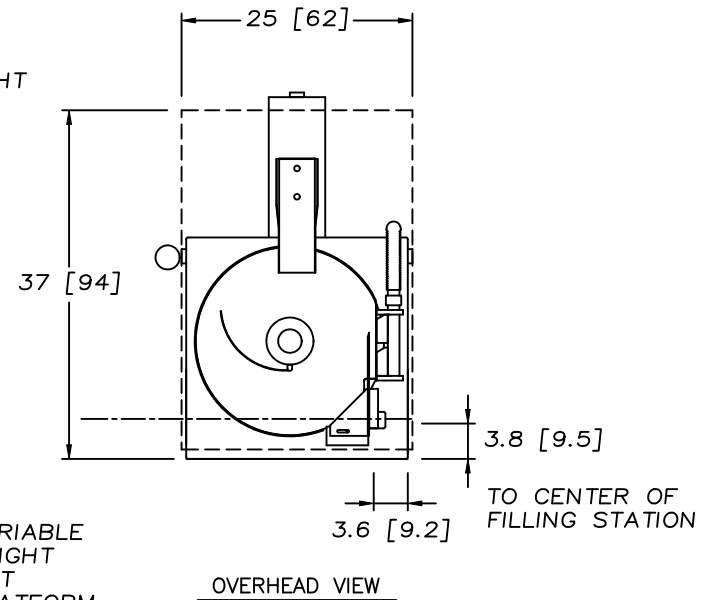
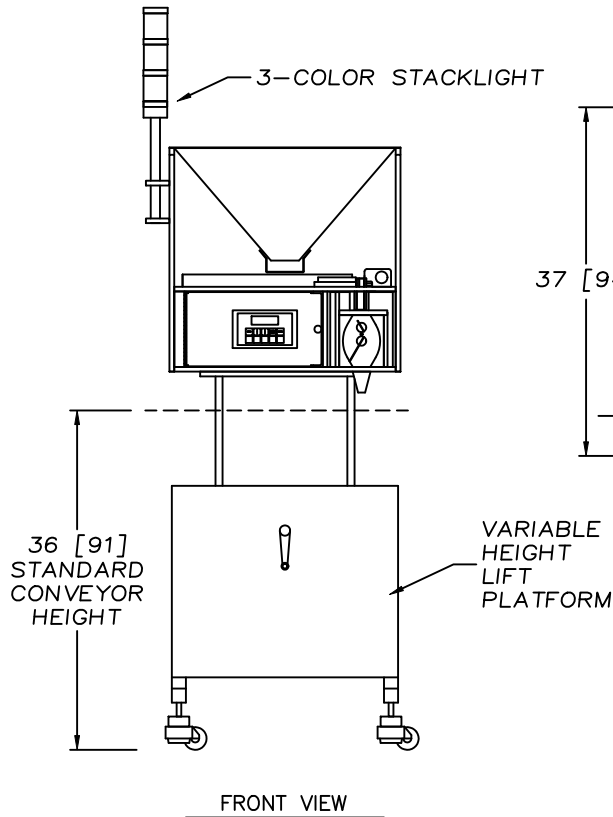
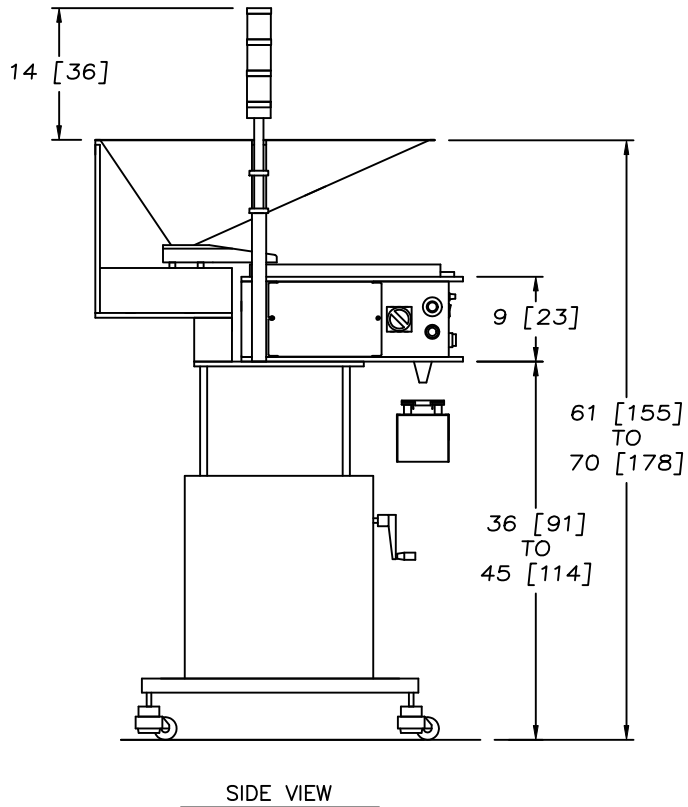


NOTE	REV	DESCRIPTION	DATE
-	-	-	---/---/---



WEIGHT	300 LBS
ELECTRIC	120VAC, 5.0 AMPS
COMPRESSED AIR	.5 CFM @ 80 PSI
HOPPER CAPACITY	1.9 CU. FT
WITH 6" EXTENSION	2.8 CU. FT.

DIMENSIONS IN INCHES [CENTIMETERS]

NUMBER:
 AD1115-DIM
 REVISION:
 1

DEITZ COMPANY, INC. ROUTE 34, WALL, N.J. TECHNICAL DRAWING - PRODUCT INFO	PRODUCT TC3	BY SJD2 DATE: 2008-08-29
	TITLE MODEL TC3 ELECTRONIC PILL COUNTER DIMENSIONAL INFO	SHEET 1 OF 1 NUMBER AD1115-DIM REVISION -



JOHN DEITZ
President

Deitz Company Inc.
1750 Route 34 PO Box 1108
Wall, NJ USA 07719

Tel 732-681-0200
Fax 732-681-8468
Email sjd2@deitzco.com

PRODUCT COMPLIANCE DATA

 Model TC3 Electronic Counter Type AD1115

FOOD COMPLIANCE STATEMENTS
MATERIALS IN DIRECT CONTACT WITH PRODUCT

Deitz Company Inc hereby certifies that the list below contains all the parts of the above-cited machine that come in direct contact with the product, and that those parts are manufactured using raw materials and surface treatments which conform to the requirements of such parts as established by the Food and Drug Administration of the United States. Certificates of compliance for raw materials and treatments are maintained according to our internal Quality Control System or to that of our material and treatment suppliers.

CONTACT PARTS, MATERIALS AND TREATMENTS

PART NUMBER	DESCRIPTION	MATERIAL	CERTIFICATION
FA1024	Hopper	SS304	ASTM Standard
FM3492	Hopper Door	SS304	ASTM Standard
FM2192	Sieve Plate	SS304	ASTM Standard
P3508	Sieve Plate Knob	Polyethylene	FDA 21 CFR 177.1600
FM3474	Feed Tray	SS304	ASTM Standard
P2503	Disc	Float Glass	ASTM Standard
FM3438	Rim Band	SS304	ASTM Standard
FM3462	Center Hub	Acetal	FDA 21 CFR 177.2480
FM3481-2	Deflector	SS304	ASTM Standard
FM3548 (see AD1134)	Flow Guide	SS304	ASTM Standard
FM3528-1	Product Guide	SS304	ASTM Standard
FM3489	Adj. Guide Block Shield	SS304	ASTM Standard
FM3433 (see FA1018)	Fixed Chute Center	SS303 ¹	ASTM Standard
FM3432 (see FA1018)	Fixed Chute Left Side	Acetal	FDA 21 CFR 177.2480
FM3431 (see FA1018)	Fixed Chute Right Side	Polycarbonate	FDA 21 CFR 177.1580
FM3442	Ajd. Product Guide Plate	Acetal	FDA 21 CFR 177.2480
FM3456	Adj. Chute Side Plate	Acetal	FDA 21 CFR 177.2480
FM3458	Chute Cover, Clear	Polycarbonate	FDA 21 CFR 177.1580
FM3494	Counting Window Clear Cover	Polycarbonate	FDA 21 CFR 177.1580
FM3452-1	Divider Flag (Upper)	SS304	ASTM Standard
FM3452-2	Trap Flag (Lower)	SS304	ASTM Standard
FM3453	Head Center Divider	Acetal	FDA 21 CFR 177.2480
Fm3468	Head Funnel Block	Acetal	FDA 21 CFR 177.2480
FM3488	Head Rear Dust Shield	Acetal	FDA 21 CFR 177.2480
FM3510	Head Front Cover	Polycarbonate	FDA 21 CFR 177.1580
FM3562	Head Back Plate Cover	Acetal	FDA 21 CFR 177.2480
FM3565	Chute Side Block	Acetal	FDA 21 CFR 177.2480
FM1393 thru FM1396	Funnel	SS304	ASTM Standard

Revisions: 1. Material was Acetal (5/7/2010).

Legal disclaimer: Deitz Company believes the above information to be truthful, based on information provided to us from our suppliers. However, Deitz Company cannot guarantee the accuracy of the reporting, testing or procedures of our suppliers and assumes no liability or obligation as to the same. Deitz Company also assumes no liability as to the suitability of the above materials to the application for which the customer intends to use the machine. It is the customer's responsibility to assure that the above materials meet the customer's requirements.



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Pharmafill TC3 Electronic Counter

Preventive maintenance

There is little preventative maintenance required on the machine other than routine cleaning and inspection. There are no lubrication points. All bearing are sealed and/or permanently lubricated.

Every six months –

1. Remove the right side access panel.
2. Visually inspect the condition and tightness of the disc drive belt. If the belt appears excessively loose, you may adjust it by loosening the motor assembly mounting screws and moving the motor assembly back. Adjust it so there is no slack. Since it is a toothed belt, there is no need for additional tension. If the belt is appears worn, replace it.

P0418 Belt,Gear - 150XL037

3. Visually inspect the condition of the flags and flag linkage. If the hole in the Derin bushing (bearing) on the flag pin appears excessively worn, replace the bushing (bearing).The shape of the hole should be round. Oval shape of the hole indicates wear.

FM3520 TC3 Flag Pin Bearing

Safety device

There are no hazardous aspects to the routine operation of the machine. There are no dangerous moving parts or sharp edges. Therefore there are no guards or interlocks to prevent operation.

For quick, convenient stoppage of the machine operation, there is a twist-to-unlock emergency stop button. The machine will not restart when the stop switch is released. The start button must be pressed to start.

For safe internal inspection and service, there is a lockable main power disconnect switch. The is an internal main circuit breaker and individual fuses for each major electrical load.



02/13/09

Part No:	AD1115	Cust Code:	DEI002
Desc:	TC3 Tab/Cap Counter w/LP3	Name:	DEITZ COMPANY, INC.
Job No:	UM: EA	PO Number:	
Drawing:	Rev:	Sales Ord:	8469 Due Date: 12/08/08
Start Dt:	12/08/08	Fin Dt:	12/08/08
Quantity:	1.00	Priority:	2 Change Order No: 0

INSTRUCTIONS

Options:

BILL OF MATERIALS

Part Number	Description	UM	Quantity	Reference
PHANTOM ASSY: AD0754-2 TC3/TC4 Vibratory Feeder Mod's				
FMA2132-2	TC3 & 4 Feed Tray Mtg SubAssy	EA	1.00	
LB0001	Labor&OH - Factory	HR	0.50	
LB0007	Gen&Admin - Office	HR	0.50	
P1303	Connector Plug, 4 Term,w/locks	EA	1.00	
P1310	Conn. Socket,4 Term Fem w/Lcks	EA	1.00	
PHANTOM ASSY: AD0797-2 TC3 & TC4 Drive Post & Hub				
FM2280	Wave Washer	EA	1.00	
FM2629-41	Drive Hub Mtg Block Standoff	EA	3.00	
FM2661-2	TC3 & TC4 Drive Hub Pulley,40T	EA	1.00	
FM2664	TC Drive Post Spacer	EA	1.00	
FM2755	TC Drive Post Shim	EA	2.00	
FM3522	TC3 & TC4 Drive Post Base Blk	EA	1.00	
FMA2440	Collar Mod (Mod of P1705)	EA	1.00	
FMA2441-3	Drive Post Assy, TC3 & TC4	EA	1.00	
LB0001	Labor&OH - Factory	HR	0.60	
LB0007	Gen&Admin - Office	HR	0.60	
P0418	Belt,Gear - 150XL037	EA	1.00	
P1705	Collar Shaft Clamp One-Pc .75	EA	1.00	
P2722	Hdwr Washer Fiber .75 x 1 x .0	EA	1.00	
P6028	Retaining Ring 3/4	EA	1.00	
P6103	Rubber O Ring 5/8 x .75	EA	1.00	
PHANTOM ASSY: AD1117 TC3 Counting Head Assy				
FM3451	TC3 Flag Hub,Rear	EA	2.00	
FM3452-1	TC3 Head Flag,Upper	EA	1.00	
FM3452-2	TC3 Head Flag,Lower	EA	1.00	
FM3453	TC3 Head Center Divider	EA	1.00	
FM3454	TC3 Head Linkage Plate	EA	2.00	
FM3455	TC3 Head Lever Mtg Block	EA	1.00	
FM3468	TC3 Funnel Block	EA	1.00	
FM3488	TC3 & TC4 Head Dust Shield	EA	1.00	
FM3496	TC3 & TC4 Funnel Holder Bkt.	EA	1.00	
FM3509	TC3 Head Back Plate	EA	1.00	
FM3510	TC3 Head Front Cover	EA	1.00	
FM3513	TC3 Head Actuator Mtg Plate	EA	2.00	
FM3514	TC3 Link Slide Block	EA	1.00	
FM3515	TC3 Head Mounting Block	EA	1.00	



02/13/09

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Drawing:	Rev:	Sales Ord:	8469 Due Date: 12/08/08
Start Dt:	12/08/08	Fin Dt:	12/08/08
Quantity:	1.00	Contact:	
		Priority:	2 Change Order No: 0

FM3516-2	TC3 Head Adjusting Block	EA	1.00
FM3517	TC3 Head Front Foot	EA	2.00
FM3518-1	TC3 & 4 Head Blk Post, Blind	EA	6.00
FM3518-3	TC3 Head Block Post, Tapped	EA	1.00
FM3519	TC3 Flag Hub Bearing Mod's	EA	2.00
FM3520	TC3 Flag Pin Bearing	EA	2.00
FM3523	TC3 Banner Scanner Mtg Block	EA	1.00
FM3524	TC3 Banner Scanner Cover	EA	1.00
FM3525	TC3 Aperature Mounting Block	EA	1.00
FM3562	TC3 Head Back Plate Cover	EA	1.00
FM3565	TC3 Head Chute Side Block	EA	2.00
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00
P0156	BRASS AIR FITTING 10-32 to 1/4	EA	4.00
P0198	Air Cyl,Pnck,.50 Bore x.25Strk	EA	4.00
P2665	Hdwr Shldr Blt.25x.188x#10-32	EA	2.00
P2719	Hdwr,Hex Bolt,Nylon,#8-32x.50	EA	4.00
P2804	Hdwr Dowel Pin .125x1.125	EA	2.00
P3511	Knob Press-in 10-32	EA	1.00
P3512	Knob Press-in 1/4-20	EA	2.00
P5029	Fiber Optic Counting Sensor	EA	1.00 D10BFPQ-78340
PHANTOM ASSY: AD1120-4 Cable Assy, LPA3 Blwr Pwr Cord			
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00
P0819	Cord Line 16/3 SJ w/plug 8 ft	EA	1.00
P7151	Strain Relief Nylon 1/2 NPT	EA	1.00
P7222	Terminals-Male Fully Ins.	EA	3.00
PHANTOM ASSY: AD1128-1 TC3 Tablet Counter			
FM1347	Disc Holdown Nut	EA	1.00
FM1628	Disc Support Ring	EA	1.00
FM2629-26	Spacer, Gas Spring Mtg Bracket	EA	8.00
FM3460	TC3 Side Access Panel	EA	2.00
FM3484	TC3 Stacklight Post Mtg Block	EA	2.00
FM3485	TC3 Stacklight Post	EA	1.00
FM3493	TC3 & TC4 Scanner Mtg. Block	EA	1.00
FM3499	TC3 Dust Cover Ball	EA	1.00
P0190	Air Valve,Flow Control	EA	2.00
P0197	Air Fitting,90 Deg,Barbed 1/4"	EA	1.00
P2503	Glass Disc 19.970 Diam	EA	1.00
P3906	STACK LIGHT, 3-COLOR	EA	1.00
P4721	PHARMAFILL Aluminum Nameplate	EA	2.00
P5016	Fiber-Opt Cable,Dual,Straight	EA	3.00
P6981	Sensor - Proximity Switch PNP	EA	1.00 BI1.5U-EGO8-AP6X-V11
P6983	Sensor Cordset, 3-pin Straight	EA	1.00 PKG3Z-2



02/13/09

Part No:	AD1115	Cust Code:	DEI002
Desc:	TC3 Tab/Cap Counter w/LP3	Name:	DEITZ COMPANY, INC.
Job No:	UM: EA	PO Number:	
Drawing:	Rev:	Sales Ord:	8469 Due Date: 12/08/08
Start Dt:	12/08/08	Fin Dt:	12/08/08
Quantity:	1.00	Contact:	
		Priority:	2 Change Order No: 0

PHANTOM ASSY: AD1129 TC3 Base Assembly			
FM2950	CS1 Adjusting Wheel Mod's	EA	1.00
FM3435	TC3 Rear Housing	EA	1.00
FM3436-1	TC3 Side Panel,Left	EA	1.00
FM3436-2	TC3 Side Panel,Center	EA	1.00
FM3436-3	TC3 Side Panel,Right	EA	1.00
FM3445	TC3 Main Base Plate	EA	1.00
FM3450	TC3 Inner Housing Panel	EA	1.00
FM3461	TC3 & TC4 Hopper Sprt Mtg Blk	EA	2.00
FM3521	TC3 & TC4 Head Adj Screw	EA	1.00
FM3564	TC3 & 4 Head Adj Screw Bearing	EA	1.00
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00
P0121	Air Fitting BH union 3/16	EA	2.00
P0122	Air Fitting BH union 1/4	EA	2.00
P0135	AIR FAN-3.12	EA	1.00
P0142	AIR VALVE 4 WAY 24VDC 1/4 TUBE	EA	3.00 #V4A0307BW0
P0183	Fan Guard/Filter Assy, 3.12"	EA	1.00
P0192	Air Manifold, 3 Port	EA	1.00
P1360	Connector Power Outlet Panel,M	EA	1.00
P5802	Din Rail End Stop (PK/50)	EA	5.00
P5816	Relay, DPST 24VDC	EA	1.00
P6410	Socket Relay Screw Term	EA	1.00
P6924	Switch PB Blk 22 mm	EA	1.00
P6929-1	PB Emer Stop Actuator, Red	EA	1.00 #704-074.2
P6929-2	Emer Stop PB Yellow Nameplate	EA	1.00 #704-963.6
P6929-3	PB Emer Sw Contact Block	EA	1.00 #704-910.2
P7006	Switch Contact Blk SPST NO	EA	1.00
P7150	Strain Relief Nylon 3/8 NPT	EA	6.00
P7151	Strain Relief Nylon 1/2 NPT	EA	2.00
P9022	DIN Term Blk Single (50/PK)	EA	3.00
P9023	DIN Term Blk Sngl Sprtr, Wht	EA	2.00
P9024	DIN Term Blk Triple	EA	2.00
P9026	DIN Term Blk Triple Sensor	EA	4.00
P9039	Switch Main Disconnect	EA	1.00
PHANTOM ASSY: AD1130-1 TC3 Motor Assembly			
FM2629-13	TC3 Motor Base Standoff	EA	4.00
FM3057	TC Motor Modifications	EA	1.00
FM3472	TC3 Motor Base	EA	1.00
FM3526	TC3 & TC4 Motor Mount Block	EA	1.00
FM3527	TC3 & TC4 Motor Mount Blk Base	EA	1.00
FMA2662-2	TC3 & TC4 Motor Pulley, 40T	EA	1.00
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00



02/13/09

Part No:	AD1115	Cust Code:	DEI002
Desc:	TC3 Tab/Cap Counter w/LP3	Name:	DEITZ COMPANY, INC.
Job No:	UM: EA	PO Number:	
Drawing:	Rev:	Sales Ord:	8469 Due Date: 12/08/08
Start Dt:	12/08/08	Fin Dt:	12/08/08
Quantity:	1.00	Priority:	2 Change Order No: 0

P2768	Hardware, TeeNut 1/4-20 x 9/16	EA	4.00
PHANTOM ASSY: AD1131	TC3 Main Power Electrical Pnl		
FM3463	TC3 Power Electrical Panel	EA	1.00
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00
P5802	Din Rail End Stop (PK/50)	EA	4.00
P5814	Relay, DPST 110 VAC	EA	1.00
P6410	Socket Relay Screw Term	EA	1.00
P9012	DIN Fuse Block w/LED 110 VDC	EA	6.00
P9013	DIN Fuse Block w/LED 24VDC	EA	1.00
P9020	DIN Term Blk Jumper 2 POLE	EA	5.00
P9022	DIN Term Blk Single (50/PK)	EA	7.00
P9023	DIN Term Blk Sngl Sprtr, Wht	EA	1.00
P9024	DIN Term Blk Triple	EA	1.00
P9025	DIN Term Blk Triple End Cover	EA	1.00
P9026	DIN Term Blk Triple Sensor	EA	6.00
P9035	Power Supply 24 VDC Reg	EA	1.00
P9068	Circuit Breaker, 10A, Din Mnt	EA	1.00
PHANTOM ASSY: AD1132	TC3 PLC/Sensor Electrical Pnl		
FM2838-13.00	Din Rail, 13"	EA	1.00
FM3464	TC3 PLC Electrical Panel	EA	1.00
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00
P1830	PLC Analog Module	EA	1.00
P5018	Sensor Fib-Op Amplifier	EA	3.00 D10AFPQ
P5019	Cordset Picofast 4pin Straight	EA	3.00 #32438
P5802	Din Rail End Stop (PK/50)	EA	3.00
P9013	DIN Fuse Block w/LED 24VDC	EA	1.00
P9029	PLC Battery	EA	1.00
P9064	PLC DL-06 #D0-06DD1	EA	1.00
PHANTOM ASSY: AD1133-1	TC3 Vibratory Feeder Assembly		
FA1022-1	TC3 Dust Chute Assembly	EA	1.00
FM2178	Feed Tray Bolt	EA	2.00
FM3459-1	TC3 Feeder Base Plate	EA	1.00
FM3465-1	TC3 Feeder Vert Support Bar	EA	2.00
FM3466	TC3 & TC4 Feeder Mtg Bar	EA	1.00
FM3471	TC3 & TC4 Feeder Enclosure	EA	1.00
FM3474	TC3 & TC4 Feed Tray	EA	1.00
FM3497-1	TC3 Chip Box Rear Cover	EA	1.00
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00
PHANTOM ASSY: AD1135	TC3 Top Cover Assembly		
FM3434	TC3 Top Plate	EA	1.00
FM3438	TC3 Rim Band	EA	1.00



02/13/09

Part No:	AD1115	Cust Code:	DEI002
Desc:	TC3 Tab/Cap Counter w/LP3	Name:	DEITZ COMPANY, INC.
Job No:	UM: EA	PO Number:	
Drawing:	Rev:	Sales Ord:	8469 Due Date: 12/08/08
Start Dt:	12/08/08	Fin Dt:	12/08/08
Quantity:	1.00	Contact:	
		Priority:	2 Change Order No: 0

FM3477-1	TC3 & TC4 Cover Hinge,Btm Half	EA	2.00
FM3477-2	TC3 & TC4 Cover Hinge,Top Half	EA	2.00
FM3479	TC3 & TC4 Cover Hinge Pin	EA	2.00
FM3482	TC3 & TC4 Cover Holddown Block	EA	1.00
FM3483	TC3 & TC4 Cover Holddown Rod	EA	1.00
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00
P3512	Knob Press-in 1/4-20	EA	3.00
PHANTOM ASSY: AD1136 TC3 Control Panel Assembly			
FA1019	TC3 Control Door Sub-Assy	EA	1.00
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00
P1378	Conn, Mdlr Adptr SUBD15M-RJ12	EA	1.00
P1701	Counter LCD	EA	1.00
P1825	Optimate #620 Interface Panel	EA	1.00
P3815	Lamp, Green Neon, 120 VAC	EA	1.00
P6934	Switch On-Off 18V	EA	2.00
PHANTOM ASSY: AD1137-2 TC3 Product Chute Assy			
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00
FA1018-2	TC3 Chute Assy Mods	EA	1.00
FM3443-L	TC3/4 Fixed Chute Mtg Bkt,LH	EA	1.00
FM3443-R	TC3/4 Fixed Chute Mtg Bkt,RH	EA	1.00
PHANTOM ASSY: AD1138-1 TC3 Product Guide Assembly			
FM3439	TC3/4 Mounting Base	EA	1.00
FM3440	TC3 & TC4 Adjustable Guide Blk	EA	1.00
FM3441	TC3/4 Adj Guide Vert Mtg Block	EA	1.00
FM3442	TC3 TC4 Adj Prod Gd Plate	EA	1.00
FM3456	TC3 TC4 Adj Chute Side Plate	EA	1.00
FM3457	TC3 & TC4 Chute Cover Mtg Blk	EA	1.00
FM3458	TC3 TC4 Chute Cover, Clear	EA	1.00
FM3473	TC3 & TC4 Guide Clamping Blk	EA	1.00
FM3489	TC3 & TC4 Adj Gd Blk Shield	EA	1.00
FM3528-1	TC3 Product Guide, Pointed	EA	1.00
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00
P2749	Washer, Flat Nylon .252 ID x	EA	1.00
P3508	Knob Press-in 8-32	EA	2.00
P3512	Knob Press-in 1/4-20	EA	1.00
PHANTOM ASSY: AD1139 TC3 Hopper Assembly			
FA1024	TC3 Hopper Assembly	EA	1.00
FM3467-1	TC3 Hopper Vert Supp Bar,Short	EA	1.00
FM3467-2	TC3 Hopper Vert Supp Bar,Left	EA	1.00
FM3467-3	TC3 Hopper Vert Supp Bar,Right	EA	1.00



02/13/09

Part No:	AD1115	Cust Code:	DEI002
Desc:	TC3 Tab/Cap Counter w/LP3	Name:	DEITZ COMPANY, INC.
Job No:	UM: EA	PO Number:	
Drawing:	Rev:	Sales Ord:	8469 Due Date: 12/08/08
Start Dt:	12/08/08	Fin Dt:	12/08/08
Quantity:	1.00	Contact:	
		Priority:	2 Change Order No: 0

FM3467-4	TC3 Hopper Horiz Supp Bar	EA	1.00
FM3470-1	TC3 Hopper Supp Bkt,Rear,55deg	EA	1.00
FM3470-2	TC3 Hopper Supp Bkt,Side	EA	2.00
FM3492	TC3 Hopper Door	EA	1.00
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00
PHANTOM ASSY: AD1140-1 TC3 Center Hub & Deflector			
FM2837	Deflector Flag (Auto-Feeder)	EA	1.00
FM3462	TC3 & TC4 Center Hub	EA	1.00
FM3475-1	TC3 & TC4 Deflector Brkt,Upper	EA	1.00
FM3475-2	TC3 & TC4 Deflector Brkt,Lower	EA	1.00
FM3476	TC3 & TC4 Deflctr Sensor Brkt	EA	1.00
FM3481-2	TC3 Deflector	EA	1.00
FM3498	TC3 & TC4 Center Hub Knob	EA	1.00
LB0001	Labor&OH - Factory	HR	1.00
LB0007	Gen&Admin - Office	HR	1.00
P2823	Dowel Pin, 3/16 x 7/16 S.S.	EA	1.00
PHANTOM ASSY: AD1141 TC3 & TC4 Counting Window			
FM3493	TC3 & TC4 Scanner Mtg. Block	EA	1.00
FM3494	TC3 & TC4 Scanner Window	EA	2.00
FM3495	TC3 & TC4 Scanner Cover	EA	1.00
LB0001	Labor&OH - Factory	HR	0.30
LB0007	Gen&Admin - Office	HR	0.30
P3511	Knob Press-in 10-32	EA	1.00
P5028	Fiber Optic Cbl Pair w/Sqr Mnt	EA	1.00 #PIRS1X166U
PHANTOM ASSY: FA1020-1 Air Manifold,TC3 w/1-1/4 Inlet			
FM3444-1	TC3 Air Manifold Tube	EA	1.00
LB0001	Labor&OH - Factory	HR	0.14
LB0007	Gen&Admin - Office	HR	0.14
SD1616	Air Manifold Plug, 1/4 NPT Thd	EA	1.00
PHANTOM ASSY: FA1026 TC3 Rim Dust Cover Assembly			
FM3079	TC 3" Vacuum Flange	EA	1.00
FM3480	TC3 Dust Cover	EA	1.00
LB0001	Labor&OH - Factory	HR	0.20
LB0007	Gen&Admin - Office	HR	0.20
PHANTOM ASSY: FM2199 Disc Hold Down Washer			
LB0001	Labor&OH - Factory	HR	0.05
LB0007	Gen&Admin - Office	HR	0.05
RM0296	SH-UHMW-.01" X 24"	SQI	10.00
PHANTOM ASSY: FM2838-11.00 Din Rail, 11.00"			
LB0001	Labor&OH - Factory	HR	0.06
LB0007	Gen&Admin - Office	HR	0.06
P9018	DIN Rail 35mm (1 meter long)	IN	11.00
PHANTOM ASSY: FM2838-11.88 Din Rail, 11.88 in. long			



02/13/09

Part No:	AD1115	Cust Code:	DEI002
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Job No:	UM: EA	PO Number:	
Drawing:	Rev:	Sales Ord:	8469 Due Date: 12/08/08
Start Dt:	12/08/08	Fin Dt:	12/08/08
Quantity:	1.00	Contact:	
		Priority:	2 Change Order No: 0

LB0001	Labor&OH - Factory	HR	0.06
LB0007	Gen&Admin - Office	HR	0.06
P9018	DIN Rail 35mm (1 meter long)	IN	11.88
PHANTOM ASSY: FM3049-2 CS1/2/10 Air Filter Element			
LB0001	Labor&OH - Factory	HR	0.05
LB0007	Gen&Admin - Office	HR	0.05
P0186	Air, Poly-U Foam Filter Sheet	SQI	10.56
PHANTOM ASSY: FM3056-2 TC3 & TC4 Vibrator Mod's			
LB0001	Labor&OH - Factory	HR	0.10
LB0007	Gen&Admin - Office	HR	0.10
P7902	Vibrator FMC FTO-C	EA	1.00 #159146-D
P1303	Connector Plug, 4 Term,w/locks	EA	1.00
PHANTOM ASSY: FM3507-1 TC3 "SC1" Motor Speed Ctrl Adj			
P1831	TC3 SCR Speed Cntrlr,w/5 Pots	EA	1.00
PHANTOM ASSY: FM3507-2 TC3 "SC2" Vib Speed Cntrl Mods			
LB0001	Labor&OH - Factory	HR	0.02
LB0007	Gen&Admin - Office	HR	0.02
P1831	TC3 SCR Speed Cntrlr,w/5 Pots	EA	1.00
PHANTOM ASSY: FMA2278 TC Drive Hub Sub-AssOy			
P0334	1635DC BALL BEARING	EA	2.00
P2806	Hdwr Roll Pin SS 1/8x5/8	EA	1.00
SD1479	TC Drive Hub (ALL)	EA	1.00
PHANTOM ASSY: FMA2839-3 Term Strip, Euro-Style, 3 Pos.			
LB0001	Labor&OH - Factory	HR	0.05
LB0007	Gen&Admin - Office	HR	0.05
P7229	Terminal Block Euro .394x2x12	EA	0.25
PHANTOM ASSY: FMA3005-7 Roller Chain, LP3 Drive			
LB0001	Labor&OH - Factory	HR	0.10
LB0007	Gen&Admin - Office	HR	0.10
P1105	Chain Roller #35	IN	39.38
P1106	Chain Master Link #35	EA	1.00
P1109	Chain Master 1/2 Link #35	EA	1.00
OPTIONS SELECTED:			
PHANTOM ASSY: AD1121-2A LPA3 Lift Platform(TC3 w/Blwr)			
AD1017-1	Blower Mod's for AS1,LPA,LP3	EA	1.00
AD1160	LP3 Frame (Extruded Type)	EA	1.00
FM2572	Filter Mounting Blk	EA	2.00
FM2597	LP Sub Plate	EA	1.00
FM2598-3	LP3 Lift Rod Plate	EA	2.00
FM2608-5	LP Lift Rod, 24.75" LP3/TC3	EA	4.00
FM2629-16	LPC2 & 10 Subplate Standoff	EA	3.00
FM2754	Roller Chain Sprkt,22T, .50 ID	EA	3.00
FM2823-7	TC3 to LP3 Mounting Bar	EA	2.00
FM2870-2	PVC Pipe, 1 I.D., 2 Long	EA	1.00



02/13/09

Part No:	AD1115	Cust Code:	DEI002
Desc:	TC3 Tab/Cap Counter w/LP3	Name:	DEITZ COMPANY, INC.
Job No:	UM: EA	PO Number:	
Drawing:	Rev:	Sales Ord:	8469 Due Date: 12/08/08
Start Dt:	12/08/08	Fin Dt:	12/08/08
Quantity:	1.00	Contact:	
		Priority:	2 Change Order No: 0

FM3029-1	LP Crank Shaft (Horizontal Sty	EA	1.00
FM3030	LP Crank Shaft Support Bar	EA	2.00
FM3031	LP Bevel Gear Mod's	EA	2.00
FM3224-1	LPC2/10 Chain Drive Shaft	EA	1.00
FM3224-2	LPC2/10 Vert Crank Idler Shaft	EA	1.00
FM3231	LPC2/10 Motor/Drive Shaft Adj	EA	1.00
FM3419	LP3 Lift Screw, ACME 3/4-10	EA	2.00
FM3428	LPA3 Blower Mounting Plate	EA	1.00
FM3571-1	LP3 Front Panel	EA	1.00
FM3571-3	LP3 Rear Panel (w/Blower)	EA	1.00
FM3572	LP3 Side	EA	2.00
FM3573	LP3 Top Panel	EA	1.00
FMA2640-18	Hose, Blk, 1-1/4" I.D., 18"	EA	1.00
FMA2640-9.25	Hose, Blk, 1-1/4" I.D., 9.25"	EA	1.00
FMA2769	Output Filter Mods	EA	1.00
LB0001	Labor&OH - Factory	HR	3.00
LB0007	Gen&Admin - Office	HR	3.00
P0114	Air Fitting Female Adapt PVC .	EA	2.00
P0115	Air Fitting Male Adapt PVC 1	EA	2.00
P0117	Air Fitting Elbow PVC .75x 90r	EA	1.00
P0119	Air Filter 3/4 NPT, 15/16 Hole	EA	1.00
P0338	Bearing Mounted .50	EA	10.00
P1175	Clamp Hose 13/16 to 1-3/4	EA	6.00
P1702	Clamping Collar, 2 Pc., 3/4 ID	EA	2.00
P1712	Collar Shaft Clamp One-Pc .500	EA	4.00
P2715	Hdwr Acme Nut 3/4-10, RH	EA	2.00
P2927	Vinyl Cap, 1/2 ID x 1 Lg, Blk	EA	4.00
P5108	Nylon Plug for 13/16 Hole	EA	2.00
P6618	Sprocket 35B15x1/2	EA	1.00
P7425	Tubing, Clear Hose, 1-1/4" ID	FT	5.00
PHANTOM ASSY: AD1134-1 TC3 Air Manifold Assy w/1-1/4			
FM2761	TC Air Relief Ring	EA	1.00
FM3437-1	TC3 & TC4 Air Manifold Gd Blk	EA	2.00
FM3437-2	TC3 & TC4 Air Manifold Mtg Blk	EA	2.00
FM3447	TC3 Air Guide Plate	EA	1.00
FM3512	TC3 & TC4 Manifold Adj Knob	EA	1.00
FM3550	TC3 & TC4 Manifold Air Nozzle	EA	1.00
LB0001	Labor&OH - Factory	HR	0.80
LB0007	Gen&Admin - Office	HR	0.80
P3510	Knob Thumb Screw Nylon	EA	4.00
P9072	Spring Pin Plunger	EA	1.00

Software technical specification for Modified Banner D10BFPO Fiber Optic Sensor

LEGAL NOTICE: The following information is proprietary intellectual property of Deitz Company Inc. and may not be used by others without specific written permission from Deitz Company.

New generation Pharmafill Pill Counter machines use a specially modified sensor, custom-engineered for Deitz Company by Banner Engineering, the world-class manufacturer of photoelectric sensors. The following information describes the Deitz Company custom software specification.

Definitions

Threshold - the percentage the light level must drop before a count signal output turns on. A threshold value of 40% means the light level must drop to under 60% (compared to 100% when unblocked) to turn on the output signal.

One-shot delay – the uniform time that the output signal stays on, regardless of how long the light level actually stays below the threshold. This adjustment is used to compensate for the possibility of double counts with clear or translucent product, by increasing the signal duration so that it stays on until after the clear center has passed through the counting window. For solid products, the signal duration is minimized.

Wrap – when making adjustments on the sensor, as indicated by the 8-segment light bar, if you attempt to increase the value above 8, it will “wrap” down to 1. If you attempt to decrease the value below 1, it will “wrap” up to 8.

Modifications to the standard Banner Model D10BFPO Photoelectric Sensor (also see standard Banner literature)

1. Removed Features

1.1. The following standard features of the Banner D10B have been removed

- 1.1.1. Dynamic Teach
- 1.1.2. Static Teach
- 1.1.3. Set-up mode (light/dark operate, 0/30 ms off-delay, normal/high speed)

2. Modified Features

2.1. Manual threshold adjustment -Configurable with settings from 5 to 40 percent (See Table 1)

2.1.1. Push-button adjustment – Click and release the (+) push-button. The light bar will display the current threshold

- 2.1.1.1. Click the (+) push-button to increase threshold - (will wrap 8 to 1)
- 2.1.1.2. Click the (-) push-button to decrease threshold - (will wrap 1 to 8)

2.1.2. Remote adjustment (not used at this time) - Press and hold the remote line greater than 2 seconds

- 2.1.2.1. Single-click remote line to increase threshold - (will wrap 8 to 1)
- 2.1.2.2. Double-click remote line to decrease threshold - (will wrap 1 to 8)

2.1.3. Adjustment mode will time-out in 4 seconds of inactivity

- 2.1.3.1. Value indicated on light bar will be saved
- 2.1.3.2. The sensor will optimize the emitter power (see item 3.2.1)

3. Added Features

3.1. One-shot delay adjustment - Configurable with settings from 5 to 40ms (see Table 2)

3.1.1. Push-button access - Single-click (-) push-button. The light bar will display the current one-shot value

- 3.1.1.1. Click (+) push-button to increase one-shot time - (will wrap 8 to 1)
- 3.1.1.2. Click (-) push-button to decrease one-shot time - (will wrap 1 to 8)

3.1.2. Remote Access (not used at this time) - Double-click the remote line. The light bar will display the current value

- 3.1.2.1. Single-click remote line to increase one-shot time - (will wrap 8 to 1)
- 3.1.2.2. Double-click remote line to decrease one-shot time - (will wrap 1 to 8)

3.1.3. Adjustment mode will time-out in 4 seconds of inactivity

- 3.1.3.1. Value indicated on light bar will be saved
- 3.1.3.2. The sensor will optimize the emitter power (see item 3.2.1)

3.2. Clear signal tracking algorithm software

- 3.2.1. Each power up, or after time-out of adjustment mode, automatically matches the emitter power (light source) to the light receiver, for maximum sensitivity, regardless of dust buildup or other environmental considerations
 - 3.2.1.1. The light bar will turn off and remain off until the process is complete
 - 3.2.1.2. The sensor light source (emitter) will cycle from low to high power and reset at the proper level
 - 3.2.1.3. After approximately 2 seconds the process is complete and the sensor returns to normal.
 - 3.2.1.4. Push-button access - Press and hold (+) push-button for greater than 2 seconds to initiate
- 3.2.2. Dynamically regenerates the threshold level every 100ms based on a low-pass filtered clear signal level, to compensate for dust buildup, etc., between optimization cycles
- 3.2.3. Drift Alarm - If the filtered clear signal level degrades (drifts down slowly) to the point that the system may soon become unreliable, the outputs will alarm (lock on) and remain on until the sensor is cleaned and an optimization cycle is performed.
 - 3.2.3.1. Light bar LEDs 5 – 8 (upper half) will flash
- 3.2.4. Blockage Alarm - If the peak clear signal level is darker than the dark threshold for more than 100ms, the outputs will alarm (lock on) and remain on until the blockage is removed
 - 3.2.4.1. Light bar LEDs 1 – 4 (lower half) will flash

4. Fixed default settings – the following setting may not be changed

- 4.1.1. Dark operate
- 4.1.2. High speed operation

TABLE 1 - THRESHOLD SETTING (for sensitivity)

LED	Value	Note
8	40%	Factory setting
7	35%	
6	30%	
5	25%	
4	20%	
3	15%	
2	10%	
1	5%	

TABLE 2 - ONE-SHOT DELAY SETTING (for clear or translucent product)

LED	Delay	Note
8	40 ms	
7	35 ms	
6	30 ms	
5	25 ms	
4	20 ms	
3	15 ms	
2	10 ms	
1	5 ms	Factory setting