

EXTRUDER SPECIFICATIONS

TRUDER SPECIFICATIONS

Basic Customer/Order Information 5'ER# 1579 \$\frac{1582}{5000}

Customer Name: Commscope		Sales Order No: <u>10288</u>	
		Customer P.O. No.: <u>L128695</u>	
Customer Order Date: 12/22/99			
		AK Promised Ship Date: 3/8/00	
		Signature:	
Rep. Company:		Rep. Salesman:	
	Basic Extr	uder Information	
	(Choices in italics	may be "added cost" options)	
AK To Supply:	⊠ Extruder; ⊠ Motor;		
Power Supply:	460 Volts, 3 Phase,		
Control Voltage:	Volts	□AC;	
P. Amadan alma	O le ale.	DC:	
Extruder size:	<u>2</u> Inch:	<u>24:1</u> L/D:	
Centerline Height:	42.25 Inches		
Feed Type:	Smooth:	Grooved: Tangential:	
Heat/Cool Zones:	4 No. Barrel Zones:		
Max.		☐ Water Cooled	
Processing Temp. (⁰	°F): ⊠ 650°F;	: ☐ Other	
Panel:	☐ Base Mounted:		
Controls:	Discrete Control		
Controls.		s with Serial Communications:	
	☐ Discrete Control		
Machine Hand:	□ R – L: or □ L –	R: (Operators view of resin flow thru extruder)	
Paint Color:			
DESCRIPTION	STANDARD COLOR	OTHER (SPECIFY)	
Base	Beige	Gliden Blue 790 "Sky Blue" or equiv.	
Panel	Beige	N/A	
Barrel Guard	Brown	Gliden Blue 790 "Sky Blue" or equiv.	
Diamond Plate	Brown	Gliden Blue 790 "Sky Blue" or equiv.	
Instrument Face	Brown	N/A	
Blowers	Vendor Standard		
Clamp	Black		
Guards	Orange		
OCS			
(Other)		Gliden Blue 790 "Sky Blue" or equiv.	



Detailed Extruder Information

<u>BASE</u>			
Mounting:		ing Pads	
	☐ Wheels:	Steel Flat Swive	
		☐ Phenolic Swivel:	
Gross Adjustment:	⊠ ± ¼ Inch (std.)	v-wneer w/ rrack	λ.
Gross Aujustinent.	☐ Other: ±	Inches	
Panel Location:	_	Right (LDS);	
Motor Location:		Right (LDS): Under E	
Lifting/Rigging:	⊠ Standard (Lifting	holes in frame)	
3 33 3			: SEE NOTES
<u>GEARBOX</u>			
Manufacturer:	<u>Koellman</u>	Model: <u>Unex 3.0</u>	Ratio: <u>17::1</u>
Orientation:	□LH; □RH;⊠ Ve		
Arrangement:	☐Z-flow; ☐ <i>U-flow</i>		
Screw Shank:	⊠AK Two Key:	•	Other
Gearbox HP:	53 HP @ 100 rpm v		
Thrust Bearing:	550K B-10 @ 5K ps	si:	
Oil Cooling:	⊠ None;		
	☐ Cooling Coil; ☐ <i>Pump and heat</i>	ovchanger:	☐ Mechanical Pump:
	T unip and near	excitatiget.	☐ Electric Pump:
DRIVE			
Motor Speed:	1750 RPM Base:		RPM Extended
Screw Speed:	125 RPM at Base N	Motor Speed:	RPM at Extended Speed
Drive Type	□ Belt Drive:	Belts:	Standard Belts;
••	_		Other: timing
		Motor Base:	Standard Slide Base
			☐ Vertical Pivot Base ☐ Other:
	☐ Direct Drive:	Coupling:	Std. Coupling;
			Other:
<u>HOPPER</u>			
Hopper Style:	Round (Standar	d):	
	Rectangular:		
Hamman Matarial	Special:		
Hopper Material:	⊠ Stainless Steel (□ Special Mat'l: □ □ Stainless Steel (□ Special Mat'l: □ Special Mat'l: □ Special Mat'l: □ Stainless Steel (□ Special Mat'l: □ Special Mat'l: □ Stainless Steel (□ Special Mat'l: □ S		
Hopper Transition:	 ·	Dump Shoot (Standard	······································
поррег папашоп.		Rotary (Open, Close, D	
Hopper Magnet:	None:		
•	🔲 Insert Type:		
	Bunting Type:		
Hopper Specials:	Cover.		
(check all that apply)	☐ Blank: ☐ Grid:		
	☐ Loader Mating:		

8/11/99



Detailed Extruder Information Continued

Feed Type:		Standard Replace	eable Liner (Nitrided 4140 Std.)
	Grooved Feed:	Kuhne GmbH Des	sign.
	Tangantial Food	AK Design.	0)
Duching		(DESCRIBE IN NOTE	•
Bushing:		gnated Bronze Bushin	
Seal:	None;Powder;Vacuum;Other		
BARREL			
Barrel Vendor:	☐ Bimex: ☐ Other:	☐ Xaloy:	⊠ Either:
Barrel Type:		☐ 800 (or equivalent): ☐ Other:	☐ 306 (or equivalent):
Barrel Style:	Non-vented		
	☐ Vented	Vent Location:	Left Side (LDS) PREFERRED: Top:
		☐ Vent Stack	
		☐ Vent Plug:	
		☐ Vacuum System: Seal Type:	Pump HP:
		Danada	☐ Oil Seal:
		Brand: Model:	
		Trap:	
Barrel Flange:	⊠ Clamp Type:	⊠ Single Bolt:	☐ Right Side Hinge (LDS):☐ Left Side Hinge (LDS):
		Dual Bolt:	
			Voltage: 230/1/60
		Cont	rolled By:
	Bolt Flange:	Standard	
	☐ Threaded	☐ Other: ☐ AK Standard	-
	mreaded		ger: Make:
Pressure Taps	□ Diagnostic Pressu		ger. Make
· · · · · · · · · · · · · · · · · · ·	Pressure Tap at E		Other:
Barrel Exit Seating:	Standard Seat: Special Seat:		
	⊠ Breaker Plate:	Stainless Steel (S	 td.):
	_	☐ 4140: `	,
		Streamlined for RI	
	□ 0I D'	Supply Standard	Screens:
	Seal Ring:	Stainless Steel:	
Rupture Disk	⊠ Standard (9,000 p	4140:	
Taplato Diok	Special:		
			



Detailed Extruder Information Continued

COOLING SYSTEM			
Heat/Cool: System Type:	4 Zones: ⊠ Air-cooled	Heaters:	
		Blowers:	☐ High Temp. Ceramic: ☐ Standard Blowers:
		Ducting:	☐ Special: ☑ Ducted Downward: ☐ Left ☑ Right
	☐ Water-cooled	Heaters: Manifolds:	☐ Special: Cast Aluminum With Tubes ☐ Standard ☐ Other:
Thermocouples:	Std. Type J ground Other:		
MISCELLANEOUS Pressure			
Gauge/Transducer:	Quantity: 1	Vendor: ISI	Model: Press/temp
Melt T/C:	Quantity:	Type:	Ship Loose:Mounted in Barrel:
Screw Cooling Assembly	: Yes:	Length:	
Screw Pusher:	☐ Yes:	Type:	_
Die Support Hinge:	Yes:	☐ Mount on Right Sid☐ Left Side (LDS):	de (LDS):
Plug Plate/Box Location:	☐ Panel: ☐ Exit Barrel Support ☐ Center Support: ☐ Other:		
J-Box Location:	☐ Exit Barrel Suppor ☐ Center Barrel Supp ☑ Other:		
Sketch Plan View of Extru	uder Here (show details	s of motor, belt, sheav	es, coupling, wheels, cooling
		SER	#'s 1579 1582
		F2	



Detailed Extruder Information Continued

SPARE PARTS Spare parts included with order: List Mechanical Spare Parts Here: Item Quantity Description 1. 1 Cast aluminum heater/cooler 2. Barrel cooling blower 1 3. Set clamp heaters Barrel Thermocouple 4. 5. 1 Breaker Plate 9,000 psi rupture disk 6. 1 1 7. Nut for clamp 8. 9. <u>10.</u> 11. 12. Notes: Both extruders (Seriel #'s 1579 & 1582) are R-L <u>Transducer holes to be plugged. Ship press/temp transducers loose.</u> Plug/junction boxes to be located as high as possible to eye-level. Reliance motors to have filter, thermostat and stub shaft for customer to mount tach Wiring diagrams shall be emailed to Michael Wall of Commscope (mwall@commscope.com)



SCREW ENGINEERING SHEET

Screw Diameter: 2.0		_ Screw L/D: <u>24:1</u>		
Extruder Brand: AK		_ Motor HP: <u>25</u>	Max RPM: <u>1750</u>	
Duplicate Part Number	•			
A 1	57.00 (47.1			
Tip Angle:	⊠ Std. (15 deg.):	-		
Tip Length:	⊠ Std.:			
Core Hole Depth:	Std. (Fd + 2D):			
Material:	<u> </u>	4340 :	☐ 416 S/S:	
	Other: <u>316 S/S</u>	<u> </u>		
Surface:	○ Polished	Chrome	Other:	
Flight Hardening:	☐ Flame		Colmonoy 83	
	Other:			
APPLICATION INFOR	MATION			
Process:	Coating			
Resin(s):	•			
Durometer / M.I.:				
PSI at Screw Tip:				
Output Required:				
Melt Temp. Desired:				
COMMENTS				
Metering screw w/ helic	cal mixing section			
	Jan Hilliam G O O Cloth			



Detailed Drive and Panel Information

DRIVE AND MOTOR

Drive:	Vendor:	_Model:			
	Power Supply:	Volts, P	hase, Hertz		
	Mounting: Temperature Control Panel				
	Separate Enclosure				
	☐ AC	Open Loop	Speed Regulation 2%		
		Closed Loop	Std. Encoder 0.01%		
	⊠ D C		Special		
	□ DC	Open Loop	Speed Regulation 2%		
		Closed Loop	☐ AC Tach 1% 1% DC Tach 1%		
			Std. Encoder 0.01%		
			Special		
Motor:	Vendor: Reliance	<u>25</u> HP:			
	Speed:	1750 RPM Base	10101		
	Eromo Numbon		d Speed (Max.):		
	Frame Number:	MC2113ATZ	PROVIDE DRAWING		
	Frame Type:	☐ Drip Proof ☐ Totally Enclosed			
	Cooling:	Non-ventilated			
		Fan Cooled			
		⊠ Blower Cooled			
	J-Box Location: F-1 (left side facing shaft)				
		F-2 (right side faci	ng shaft)		
Power Isolation:	☐ Line Choke				
	☐ Drive Isolation Transformer KVA				
	Primary Voltage				
		Secondary Vol	tage		
BASIC PANEL INFO	V 11		14.0		
Power Requirements:		hase, Hertz;			
Machine Transformer:	☐ Isolation;	☐ Step-up;			
		Secondary Vol	its; KVA.		
Ambient Temperature:	⁰ F Max;	<u>°F</u> Min.			
Controls:	Discrete Only;	☐ Discrete + Serial;	Akcess.		
CABINET TYPE	_	_			
Mounting:		Free Standing.			
Access:	☐ Front Access:	Rear Access:			
Style:	Overhung "L":	☐ Flat panel:	Slope Front:		
	Swing Arm OCS:	☐ Crosshead Style F	Panel (Describe and sketch):		

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Detailed Drive and Panel Information Continued

<u>PANEL DETAILS</u>				
Barrel Cooling:	☐ Air:	☐ Water:		
Drive Load Meter:	☐ Digital: ☐ Other:	Analog:	UniOP:	
Screw RPM Meter:	☐ Digital: ☐ Other:	Analog:	UniOP:	
Screw Speed Contr		ot:	☐ Other: _	
Temp. Control Zone		Barrel		
•	Die (Downs			
Temperature Contro	ollers: Quantity: Notes:		Model:	
Feed Section:	☐ Temperatur	re Control	☐ Solenoi ☐ Modula	d valve: ting valve:
Die Zones:				
Die Zone Name	Clamp	Die 1	Die 2	Die 3
Die Wattage	2kW	2kW	2kW	2kW
Voltage & Phase	230/1/60	230/1/60	230/1/60	230/1/60
Receptacle/Plug	Receptacle	Receptacle	Receptacle	Receptacle
	⊠ Plug	⊠ Plug	⊠ Plug	□ Plug □
	Type:Hubbell	Type:Hubbell	Type:Hubbel	Type:Hubbell
Die Zone Name				
Die Wattage				
Voltage & Phase	1	1	1	/
Receptacle/Plug	Receptacle	Receptacle	Receptacle	Receptacle
	☐ Plug	☐ Plug	Plug	Plug
	Туре:	Type:	Type:	Type:
Note: Standard receptad	cles and plugs are Hubbel	I 30A HBL2620SW and H	BL2621SW, respectively	' .
☐ Heater Ammeter	: Through Te	emperature Controller	•	
	☐ Separate	. ☐ Analog	Scale: 0-	Barrel Zones
			Scale: <u>0-</u>	Clamp Zone(s)
			Scale: <u>0-</u>	Die Zones
		☐ Digital ☐ Digital w/A	Alarm Output	
Contactors:	Solid State	Mercury	Other _	
Circuit Protection:	Barrel Zone:	Circuit Bre	eakers	
	Clamp Zone:	Circuit Bre	eakers 🔲 Fuses:	
	Die Zone:	Circuit Bre		
	Barrel Blowers	: Circuit Bre	eakers	
Die Transformer:	Estimate	ed KVA (1 KVA per k	:W): Pha	se
☐ Cold Start Interlo	ock:			
Cool-Off-Auto Sv	witch:			
Pressure Indicator:		R700: Dynisco 1		sure Shutdown:
Melt Temp. Indicato	<u>=</u>			
☐ Drive Hourmeter				·····

Detailed Drive and Panel Information Continued

Motor Starter:	☐ None: ☐ Water Pump:	HP: Voltage:
	Oil Pump:	HP: Voltage:
	☐ Vacuum Pump:	HP: Voltage:
	Other:	
SPARE PARTS Spare parts included valued to be seen the s	rts Here:	
ltemC	Quantity De	scription
1. 2. 3.		
3.		
<u>4.</u> 5.		
5.		
6.		
7		
8.		
Notes:		