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TAPE CASTER QUESTIONNAIRE

Company Information

A. Company Name: _____ Date:_____
B. Contact: _____
C. Address: _____
D. City: _____
E. State: _____ Postal Code: _____ Country:_____
F. Telephone:_____ Fax:_____
G. E-mail: _____ Website:_____

1.0 Introduction

A HED INTERNATIONAL *PRO-CAST* Series tape caster produces a thin film, or tape, by continuously casting a finely ground viscoelastic slurry media, or slip, beneath a precision casting head, or doctor blade, and by passing the moist tape through an accurately controlled drying oven with appropriate material handling. *PRO-CAST* tape caster applications embrace a wide variety of industries, slip material properties, tape dimensions, and production rates. Consequently, it is imperative that operational specifications be clearly defined to ensure that a particular caster design meets client needs. The purpose of this questionnaire, therefore, is to help the client define those specifications.

2.0 Product Requirements

2.1 Dimensions

A.	Cast tape thickness range (inch):	From _____	to _____
B.	Cast tape thickness tolerance (inch):	+ _____	- _____
C.	Dry tape thickness range (inch):	From _____	to _____
D.	Dry tape thickness tolerance (inch):	+ _____	- _____
E.	Tape width range (inches):	From _____	to _____

2.2 Composition

A. Will the casting slip contain a flammable solvent? _____
B. Which flammable solvent? _____

3.0 Operational Requirements

3.1 Production Rate

A.	Casting speed range (inch/min):	From _____	to _____
B.	Casting speed tolerance (inch/min):	+ _____	- _____
C.	Desired evaporation rates (lb/hr):	From _____	to _____
D.	Daily length of operation (hrs):	From _____	to _____
E.	Yearly surface area production (ft2):	From _____	to _____

3.2 Slip Handling

A. Will pumping be pneumatic or positive displacement? _____
B. Should the slip be filtered prior to casting? _____
C. How should doctor blade reservoir level be controlled? _____

3.3 Product/Web Handling

A. Will casting be on carrier web, steel belt, or both? _____
B. Carrier material: _____
C. Carrier width range (inches): From _____ to _____
D. Carrier thickness range (inches): From _____ to _____
E. Will product remain on carrier when rolled for take-up? _____
F. Carrier wound edge tolerance (inch): + _____ - _____
G. Will product be separated from carrier before take-up? _____
H. Is a separate product take-up spool required? _____
I. Product wound edge tolerance (inch): + _____ - _____
J. Is a product slitter required? _____
K. How many slitter heads are required? _____
L. What type slitter blade is preferred? _____
M. Will the carrier be re-used? _____
N. From steel belt, will product be rolled or sheeted? _____
O. Range of sheet lengths (inches): From _____ to _____
P.. Sheet length tolerance? + _____ - _____

3.4 Operating Conditions

A. Drying time (minutes): From _____ to _____
B. Drying temperature (oF): From _____ to _____
C. Is air heating required? _____
D. Is casting surface heating required? _____
E. Will casting be batch, continuous, or both? _____
F. Is re-circulated or single-pass drying air preferred? _____
G. Is inlet air humidity control required? _____
H. Is an inert atmosphere required? _____
I. Is solvent recovery required? _____

3.5 Operator/Caster Interface

A. Is PLC control with indicator lights adequate? _____
B. Is PC interface with graphic screens required? _____
C. Is touch-screen or mouse preferred? _____
D. Is free-standing or attached control console preferred? _____
E. What is maximum space available for tape caster? _____
F. What type of electrical power supply is available? _____
G. Is compressed air available? _____

4.0 Comments or Special Requests _____

Please return this form to HED International, Inc. via fax to 609 466-3608 or e-mail.