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r q @ 0 ? ? ? Machine Capabilities ?
? ??1. Speed A packaging line cannot be expected to produce an operating speed or deliver a quality of package that exceeds the capability of any of the machines in the line The limitations of the line are determined by the slowest or least-accurate machine in the line; Each packaging machine is designed to operate most effectively within a particular speed range, with particular types of products, and under given sets of conditions.?6 ? ? ? ? ? Machine Capabilities? ? ??2. The Machines in a Packaging Line How to Select: to handle the product, containers, and packaging material Speed versatility adaptability adjustability Accuracy dependability to forgive being misused Integrated by conveyors, control units, and timing mechanisms; Some lines operate all the machines from a common power source; Other lines use machines with independent power sources;?1$ P P P P3 ? ? ? Machine Capabilities? ? ?Some machines may perform functions that have unique power requirements including 440 V, 220 V, 3 Phase, and DC electrical power; Machines may require specific compressed air pressure for operating machine components or controls. ? ? ? ? Line Balancing ?
? ??Definition: The line must be balanced and timed so that machines will operate as one integrated unit; Timing the line sets all the machines to run at the same or compatible speeds, and it starts and stops each operation at the proper time; When one machine is running too fast, excess product backs up down the line. When a machine is too slow, the line backs up, and machines down the line do not receive enough product;?6 ? ? ? ? ? Line Balancing?
? ?Z How to Balance a Line: Selecting the machines and/or adjusting the speeds and starting times so that they operate together to produce a smooth flow; Conveyors, accumulators, and feed control systems can be used to store excess production and compensate for unevenness in the flow when one of the machines is shut down for short periods of time. ?: C A ?
? ?’ Material and Container Characteristics? ((? ??1. Converters: Many packaging materials and containers are prepared for the packaging line by the converters who supply the material; Converters are companies that combine and process materials to make them ready for use on the packaging line; [For example] The converters 1. laminate film, foil, or other web materials, apply protective coatings, and print them ready to load onto a machine that makes pouches for packaging a particular product;?x P P P P P ? ? ?’ Material and Container Characteristics? ((? ?0 2. convert corrugated board into knock-down cases and convert paperboard into folding cartons; 3. print labels and decorative designs on them; 4. coat, laminate, and print webs of wrapping material; 5.print rolls of labels; 6.perform many operations involved in producing packaging materials and containers used on the packaging line. ?
P ZP ? ? ?’ Material and Container Characteristics? ((? ??2. Container Characteristics Selecting a new container or changing the design of an existing one can have several effects on the operation of the machinery in a packaging line. When the container design is changed, the following should be considered: Cost Speed Quality [For example] Changing a syrup container from a round can with a center neck to a rectangular can with the opening at one end may produce a package that is more attractive / easier to use / increase sales?
P P; P P5 P % 1 ? ? ?’ Material and Container Characteristics? ((? ??However, it can also result in a more expensive container that is difficult to orient on the line / reduces machine speeds increases spillage / requires purchasing a new labeler That is, it may be a very advantageous change, or it may cost more than it is worth. Failing to consider all the variables that are operating in a packaging line can result in undesirable decisions. Container Characteristics That Affect Machine Operations: variability in size smoothness of the lips rigidity of a folded carton shape of containers positions of pouring spouts positions of handles weight of the container?ˆ? P P : ? ? ?’

Material and Container Characteristics? ((? ??3. Material Characteristics Film and other web materials may have a tendency to pucker, tear, or stretch; The thickness of the material and its coatings can drastically change its machinability; Changing from a lightweight material to a heavier one may cause problems if the machine is not adjusted for the new material; Improper storage can make some packaging materials difficult to handle;?2 m m ? ? ? ?’ Material and Container Characteristics? ((? ?G [For example] a. Folding carton blanks and other paper and paperboard products warp and become difficult to run when they are exposed to excessive humidity; b. Some laminated web materials are so sensitive to moisture and temperature changes that they are stored in climate-controlled rooms during extreme weather conditions. ? H 9 ? ? ?’ Material and Container Characteristics? ((? ??c. Tall, slender bottle caps are difficult to handle and frequently require cap feeders with pockets that hold the caps upright as they are moved into position over the containers. Some cap feeders use rising pins to guide these caps into the delivery chute. Special capper chucks with protective jaws may be required for painted or decorated caps that may be easily scratched or marred by rough handling. ? ? ? ? ? ? Personnel ? ? ??A surprisingly large number of people in different types of jobs make decisions and initiate actions that affect the operation of the packaging line: -The operators of the production line determine the amount of product that the packaging line will receive, the rate and evenness of the product flow, and the consistency of the product’s handling characteristics; -The packaging machine adjuster sets up the machine and makes the adjustments that control its operation; -The packaging machine operator controls the minute-to- minute operation; -The inspector determines when the packages are not acceptable and machine adjustments are needed;? P? P Q 0 T ? ! ? ? Personnel ? ? ? -The packaging machinery mechanic troubleshoots and repairs the machine when it is not functioning properly. -Salespeople produce orders that enable the line to run; -The scheduler determines the sequence of jobs and the need for changeovers; -The packaging line supervisors oversee the operations and decide who will work and when. -Packaging engineers or packaging specialists select the package designs and materials and influence the selection of the machines that will be included in the packaging line;? P N 1 E = -┌─┬┬●─┬●?¶"┐▲┌?┘? Personnel ? ? ?-The purchasing department buys the packaging materials And containers; -The materials handler keeps the line supplied with the materials as they are needed. ?j 2 B ? ? ?? ? M€ ?┼┤┌┐▼K0 ? 饦┌ ◘?└└◘☼└?┌☼┘?┌ ?┐ ?◘|☼┘饃↨ ?┐◘ ┐c ? €斕??┌ ┌┌┌└●L ?? p y ?? ? ?? 饃↨ ?└◘ ┐c ? €h碗┌?┌ ┌┌┌└◘L ?x ??? ?? ? ?? 餒↨ ?┌◘ ??◘?|◘? 師?藿h? ┌◘┘└ ?└┌┌┼? €€€秒33櫃櫶☼?☼??┼___PPT10?i? d?狌B+ D?’? ? ↨☼=?@┌B? +r c G ? ? ?盜┌┌"┌€ ? ″#$%&’()*+,-./012345? ?

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