Sejong Tablet Compression Machine Pdf 33 EXCLUSIVE

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manufacturers also have a choice of end-to-end punches which are of two types: flat and conical. flat end punches create a flat and even face to the tablet with a general increase in tablet weight due to thickening of the non-compressible core material. they are often preferred for the production of light and less dense tablets. a conical end punch is also known as star-end punch and creates a concave surface to the tablet. this is often used to create tablets with non-uniform weight and density distribution, usually produced in the manufacture of tablets for sustained release, or for rapid dissolving tablets. it is therefore important that compression parameters are carefully controlled to produce the desired product. the compression force is the force applied to a formulation to give the desired compression of the tablet. press compression force is the only tooling variable that has a direct relationship with tablet strength and hardness. the relationship between compression force and compression dwell time is less apparent. the compression force should be a compromise between reducing the compression dwell time for the desired tablet strength and ensuring that the tablet does not fracture during compression. it is recognised that tablet compression using a traditional flat end punch tooling is difficult to control and is limited by the available compression force. to overcome this drawback, tablet press manufacturers have developed a tooling with the ability to vary the application of force across the length of the punch head and the ability to vary the angle of application of the force.

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to ensure efficient processing, the machine should be free of any obstructions to the punching action. hence, it is advisable to regularly inspect the punch mechanism and, if required, check it with a replacement punch. a tablet press has two ways of achieving high pressures. the first way is to use hydraulic pressure from a pressurized oil supply, this method is typically used for machines that are designed to operate at high pressures for extended periods of time, such as the production of soft gelatin capsules. two types of tablet press are commonly used. the first one, known as a one-piece press, is a single unit that contains all the tools and mechanisms necessary to perform tabletting, the other, a modular press, consists of individual press modules, each of which contains its own set of tools and mechanisms. fluid pressures are applied to the tablet press to generate the desired forces necessary for the tabletting process. a pressurized fluid, such as a hydraulic fluid, is used to transfer the force to the tool and die components. when the pressurized fluid is released, it returns to the reservoir. a tablet press that has a large single-piece die usually has a punching mechanism known as a station. most commercially available tablet presses have 12 or more stations. the dies are mounted on one or more platens, which are moved into position under the die and remain stationary during the manufacturing operation. hydraulic tablet presses use hydraulic fluid to operate the station. the hydraulic fluid is pumped under pressure from a reservoir to a ram-operated cylinder. the ram is connected to the die and punches, which are designed to move the die, and the punches through the stroke. when the ram is extended, the die is depressed and the punches begin to move to compact the powder into the tablet. 5ec8ef588b

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