Light Inspection Machine ABJ - 60 / 66 / 90 / 132

The full automatic ampoule injection impurity detecting machine is mainly used for automatic detection of visible impurities and seal faults of small volume injections, oral liquid bottles in pharmaceutical enterprises. With advanced and compact design, the machine adopts high resolution industrial cameras for multiple camera shooting detection of the liquids, so that the visible impurities that may exist in transparent or semi-transparent liquids can be recognized and detected fast and accurately (such as glass shards, scrap metal, fiber, white spots, white blocks, and etc.,). The machine can also accurately judge if the filling volume is within the permissible range. In addition, the ampoule injection lamp inspection machine can carry out inspection of oral liquid bottle caps. The nonconforming products can be directly separated from the dialing wheel without entering the detection wheel disc, so that the inspection speed and precision can be greatly enhanced to meet the stipulations in the Chinese Pharmacopoeia.

Features:

◆The machine visual principle is adopted. The sequential images of ampoules are captured by three groups of high speed industrial cameras and sent to the industrial computer for automatic detection of visible impurities and separation of nonconforming products.
◆Light reflection imaging and light transmission imaging are adopted for detection of visible impurities.
◆Appearance detection optical imaging is adopted for detection of wire drawing defects and carbonization.
◆The full-servo transmission system is adopted to ensure high speed, stable and precise running.
◆The advanced industrial computer system is adopted to monitor the running status of the equipment in a real-time manner and realize remote diagnosis.
◆Parts of world famous brands are adopted, including cameras, lens, light sources, servo motors, and etc.
◆Customized LED light sources and strobe control technology are adopted to prolong the service life of light sources.
◆Provided with the function of bottle rotation speed online monitoring.

Technical Parameters:

Product Model	ABJ60	ABJ66	ABJ90	ABJ132
Applicable specifications for detecting	Ampoule	Ampoule	Ampoule	Ampoule
Number of bottles holders	60	66	90	132
Number of cameras	5	7	11	14
Applicalbe specifications (ml)	1-20	1-20	1-20	1-20
Detection speed (pcs/min)	300-400	350-450	600	800
Rotation speed(r/min)	500-4,000	500-4,000	500-4,000	500-4,000
Time duration to detect a single bottle	< 0.2	< 0.2	< 0.2	< 0.2
Test items	Glass fragments, fibres, white particles, hairs, metal particles, liquid fill level, particles on cake bottom, cracks on neck, body crcks and etc.	Glass fragments, fibres, white particles, hairs, metal particles, liquid fill level, particles on cake bottom, cracks on neck, body crcks and etc.	Glass fragments, fibres, white particles, hairs, metal particles, liquid fill level, particles on cake bottom, cracks on neck, body crcks and etc.	Glass fragments, fibres, white particles, hairs, metal particles, liquid fill level, particles on cake bottom, cracks on neck, body crcks and etc.
Detecting precision(μ)	>=40	>=40	>=40	>=40
Power(kw)	06.май	9	11	14
Power Supply	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz
Noise(DB)	< 75	< 75	< 75	< 75
Air pressure supply(mpa)	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7
Overall dimensions (LxWxH) (mm)	2740x1520x1500	2740x1520x1500	3400x2540x2730	3400x2540x2730
Weight(kg)	2500	2500	2800	2800