

Shanghai Yiwei Electromechanical Machinery Co., Ltd.

## Industrial Ex-proof Basket Mills

### 1 TDS of Industrial Basket Mills

#### 1.1 Model SMA-18.5 hydraulic lifting basket mill

- (1) Driving motor: Three-phase Asynchronous motor;
- (2) Motor power: 18.5KW;
- (3) Power source: 380V/50Hz;
- (4) Rotating speed: 0-1440RPM (Inverter speed adjusting);
- (5) Milling cavity: Effective volume, 21L; Material: SS304, hardened, with cooling jacket. Dispersing tray is loaded below, playing a role of dispersing, mixing and pumping. The basket is finely ground. In the basket is grinding media, high purity ZrO<sub>2</sub> balls, to increase attrition resistance and avoid polluting to the feed. Lid is installed to prevent the feed from evaporating.
- (6) Capacity: 100-300L (water as media);
- (7) Lifting system: Hydraulic automatic lift (convenient for fixing); the support (Q235-A) is flexible, convenient and stable in lifting and dropping, to prevent the basket mill from swaying during operation; foundation bolt, Ex-proof hydraulic station, position switch, engineering oil cylinder (buyer prepare the hydraulic oil) are equipped.
- (8) Main shaft: Material, SS304, finely lathed and polished, with high stability and high accuracy.
- (8) Net plate: Material, SS440C (attrition resistant alloy), specially designed structure, with aperture selectable 1.0mm;
- (9) Milling media: Yttrium stabilized 95% ZrO<sub>2</sub> ceramic balls; Loading quantity:24kg; Ball size: 1.8-2.0mm (Selectable, price not included in the quotation);
- (10) Accessories: Main machine is equipped with oval head lid, the lid lift and drop along with the shaft; material SS304. Temperature sensor is equipped. When the feed is overheated, the machine will automatically stop. The sensor is Ex-proof, shock resistance.
- (11) Control cabinet: A Ex-proof in-situ operating box, Schneider electrics. A non-ex-proof control cabinet, with Inverter included. The control cabinet should be installed in safe area.
- (12) Jacketed feed cylinder: 400L (cooling water passing through); Material, SS304

#### 1.2 Model SMA-37 hydraulic lifting basket mill

- (1) Driving motor: Three-phase Asynchronous motor;
- (2) Motor power: 37KW;
- (3) Power source: 380V/50Hz;
- (4) Rotating speed: 0-960RPM (Inverter speed adjusting);
- (5) Milling cavity: Effective volume, 33.9L; Material: SS304, hardened, with cooling jacket. Dispersing tray is loaded below, playing a role of dispersing, mixing and pumping. The basket is finely ground. In the basket is grinding media, high purity ZrO<sub>2</sub> balls, to increase attrition resistance and avoid polluting to the feed. Lid is installed to prevent the feed from evaporating.
- (6) Capacity: 300-800L (water as media);
- (7) Lifting system: Hydraulic automatic lift (convenient for fixing); the support (Q235-A) is flexible, convenient and stable in lifting and dropping, to prevent the basket mill from swaying during operation; foundation bolt, Ex-proof hydraulic station, position switch, engineering oil cylinder (buyer

prepare the hydraulic oil) are equipped.

(8) Main shaft: Material, SS304, finely lathed and polished, with high stability and high accuracy.

(8) Net plate: Material, SS440C (attrition resistant alloy), specially designed structure, with aperture selectable 1.0mm;

(9) Milling media: Yttrium stabilized 95% ZrO<sub>2</sub> ceramic balls; Loading quantity:24kg; Ball size: 1.8-2.0mm (Selectable, price not included in the quotation);

(10) Accessories: Main machine is equipped with oval head lid, the lid lift and drop along with the shaft; material SS304. Temperature sensor is equipped. When the feed is overheated, the machine will automatically stop. The sensor is Ex-proof, shock resistance.

(11) Control cabinet: A Ex-proof in-situ operating box, Schneider electrics. A non-ex-proof control cabinet, with Inverter included. The control cabinet should be installed in safe area.

(12) Jacketed feed cylinder: 1000L (cooling water passing through); Material, SS304

### 1.3 Model SMA-45 hydraulic lifting basket mill

(1) Driving motor: Three-phase Asynchronous motor;

(2) Motor power: 45KW;

(3) Power source: 380V/50Hz;

(4) Rotating speed: 0-960RPM (Inverter speed adjusting);

(5) Milling cavity: Effective volume, 45.1L; Material: SS304, hardened, with cooling jacket. Dispersing tray is loaded below, playing a role of dispersing, mixing and pumping. The basket is finely ground. In the basket is grinding media, high purity ZrO<sub>2</sub> balls, to increase attrition resistance and avoid polluting to the feed. Lid is installed to prevent the feed from evaporating.

(6) Capacity: 500-1200L (water as media);

(7) Lifting system: Hydraulic automatic lift (convenient for fixing); the support (Q235-A) is flexible, convenient and stable in lifting and dropping, to prevent the basket mill from swaying during operation; foundation bolt, Ex-proof hydraulic station, position switch, engineering oil cylinder (buyer prepare the hydraulic oil) are equipped.

(8) Main shaft: Material, SS304, finely lathed and polished, with high stability and high accuracy.

(8) Net plate: Material, SS440C (attrition resistant alloy), specially designed structure, with aperture selectable 1.0mm;

(9) Milling media: Yttrium stabilized 95% ZrO<sub>2</sub> ceramic balls; Loading quantity:24kg; Ball size: 1.8-2.0mm (Selectable, price not included in the quotation);

(10) Accessories: Main machine is equipped with oval head lid, the lid lift and drop along with the shaft; material SS304. Temperature sensor is equipped. When the feed is overheated, the machine will automatically stop. The sensor is Ex-proof, shock resistance.

(11) Control cabinet: A Ex-proof in-situ operating box, Schneider electrics. A non-ex-proof control cabinet, with Inverter included. The control cabinet should be installed in safe area.

(12) Jacketed feed cylinder: 1000L (cooling water passing through); Material, SS304

### 2 TDS of ZrO<sub>2</sub> Ceramic Balls

(1) ZrO<sub>2</sub> content: 95%;

(2) Ball size: 1.4-2.8mm;

(3) Yttrium stabilized