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| <p>Machining units (BAE)</p> <p>in comparison</p> <p>Rating scale:</p> <p>bad, not appropriate medium, appropriate very good</p> | | | | | |
| | BAE10k approx. 800W Kress Universal Motor | BAE31 approx. 800W 3-Phase current sp. | BAE20 approx. 170W High Frequency sp. | BAE50 approx. 200W C-Axis, StepperMotor | BAE55 approx. 400W HighPowerC, ServoM. |
| Characteristics: Extraction device is provided with all types, but not always depicted. | Simple, LowCost, not for industrial continuous prod. | Powerful, solid, partly controllable and silent. | High precision, hoch speed and partly controllable. | Compl.controllable, very silent, for low power only. | Compl.controllable, dynamic and powerful - Top |
| Range of applications | | | | | |
| Continuous production | | | | | |
| Speed range | | | | | |
| Torque low speed | | | | | |
| Torque high speed | | | | | |
| Scope of applications | | | | | |
| Milling application > 3mm | | | | | |
| Milling application <0.8mm | | | | | |
| Engraving, Insolation mill. | | | | | |
| Screw tap use | | | | | |
| Precision, concentricity | | | | | |
| Software control | | | | | |
| Revs | | | | | |
| Sense of rotation | | | | | |
| Angle of rotation | | | | | |
| Rotation monitoring | | | | | |
| Simult. Axis movement | | | | | |
| Operational data | | | | | |
| Power, Machining power | | | | | |
| Fast emergency stop | | | | | |
| Low noise (without machining) | | | | | |
| Stability, load | | | | | |
| Low weight | | | | | |
| Low operating costs Price, efficiency, maintenance, rep., air.. | | | | | |
| Particularities | | | | | |
| Modifications for extra charge, speed range, SW... | | | | | |
| Automatic Toolchanger | Not possible | Possible to a certain degree | With same shaft diameters | Possible to a certain degree | With universal tool holders |
| Remarks concerning automatic tool changer | Leads to an unrealistic construction and needs too much space. | There are 3-phase current spindles with tool changing device, they are too large for KOSYStandard. | BAE25/26 170W/450W | Possible as with BAE56v, but only for small torques and low speeds. | BAE56v |