

| Certified registration no. & registered product name | MF-P020 Mechanical Servo Press | Product scope | ZENFormer Series MPS4100 |
|--|---|-------------------------------|--|
| Registered name of corporation | HODEN SEIMITSU KAKO KENKYUSYO CO, LTD | Certified model | MPS4100 |
| Production time of reference model | May, 2011 | Reference model | STS-3219-100FG (Sanki Seiko co.LTD) |
| Requirements and environment factors | Evaluation items | Evaluation criteria | Evaluation results and/or remarks |
| (1) Essential requirement | | | |
| Energy saving | Energy consumption | Reduction ratio | Reduce more than 15% |
| | | | 57% |
| | | | Based on JFMA standard |
| (2) Selective requirement | | | |
| Energy saving | Energy consumption | Reduction ratio | Reduce more than 15% |
| | | | 58% |
| Resource saving | Operating oil | Amount of use | Reduce more than |
| | | | X |
| Environment conservation | Vibration/noise | Vibration on loaded operation | 3% or more reduction |
| | | | X |
| Minimum selective requirement | | More than 3 items | 3 items |
| (3) Recommended requirement | | Name of function/device | Summary of environmental load reduction |
| Environmental factor | Energy saving, durability, long life, displaying / controlling environment info., vibration/noise and emission (air/soil) | Charged Capacitor | Power capacity reduction, full recovery/reuse of regenerative power |
| | | Die protect | Monitoring system of feed error/material out |
| | | Overrun monitor | Monitoring system of position |
| | | Overload monitor | Monitoring system of all motor torques |
| | | Maintenance counter | Preventive maintenance of each consumable parts |
| | | Error log | History management system for identifying abnormal locations/parts |
| | | Remote monitor | Monitoring system of press status/data trace using phone line/internet |