

MF Eco machine Certification System Registry
(Sheet Metal Forming Machines)

Registered: Dec 3, 2019
Revised: Dec 15, 2022
Criteria revised: Jun. 21, 2024
Revised: Dec 10, 2025

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|---|---------------------------------------|---|--|--|-----------------------|-----------------------|-----------------------|
| Certification number | | MF-B004(1/1) Hydraulic Servo Press Brake | | Product scope | HG series | | |
| Registered company | | AMADA CO.LTD. | | Certified Product | HG1703/1704/2203/2204 | | |
| Criteria-based product(production) | | FBDⅢ 1503NT/1504NT/2003NT/2004NT(2003年10月) | | | | | |
| Requirements & environment factors | | Evaluation item | Criteria | Evaluation result and/or remarks | | | |
| (1) Essential requirement | | | | HG1703 vs FBDⅢ 1503NT | HG1704 vs FBDⅢ 1504NT | HG2203 vs FBDⅢ 2003NT | HG2204 vs FBDⅢ 2004NT |
| Energy saving | Energy consumption | Reduction ratio | 25% or more reduced | 66% | 69% | 71% | 72% |
| | | | | based on JFMA criteria | | | |
| (2) Selective requirement | | | | HG5020 | HG8025 | HG1003 | HG1303 |
| Energy saving | Energy consumption | Reduction ratio | 25% or more reduced | 64% | 67% | 70% | 70% |
| | | | | The reduction of power consumption per unit is applied at the time of loaded operations per JFMA criteria. | | | |
| Resource saving | Operating oil | Total consumption | 10% or more reduced. | 24% | 24% | 12% | 12% |
| Environment conservation | Hazardous materials | Safety Standard | Applied standard | ○ | | | |
| Minimum selective requirement | | | 3items or more | 3 items | | | |
| (3) Recommendation requirement | | Names of equipped | Summary of effects on environmental burden reduction | | | | |
| Energy saving, durability, long life, display/management of environment info., vibration/noise, emission (atmosphere, soil) | Servo hydraulic type hybrid mechanism | Equipped with a servo hydraulic hybrid mechanism on the main axes to save energy (reduce power consumption) | | | | | |
| | Electric servo drive mechanism | Electric servo drive reduces rising temperature of oil, saving resources (reducing oil volume) | | | | | |
| | Laser type safety device | Secure operator safety by laser type safety device | | | | | |
| | Operation information management | Prevent troubles by collecting operation information | | | | | |
| Minimum recommendation requirement | | 3 items or more | | 4 items | | | |