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(54) **ELECTRIC WORK MACHINE AND
PRODUCTION METHOD FOR ELECTRIC
WORK MACHINE**

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ABSTRACT

An electric work machine includes a first brushless motor including a first stator and a first rotor combined with the first stator, and a controller. The first stator includes a first stator core and multiple first coils wound around multiple teeth on the stator core. The controller magnetizes the teeth to cause the first rotor to rotate about a rotation axis. In a plane orthogonal to the rotation axis, the first stator core has the same shape as a second stator core in a second stator used in a second brushless motor in another electric work machine. The first rotor can be combined with the second stator. The first rotor has a different number of poles from a second rotor used in the second brushless motor.

1000: ELECTRIC WORK MACHINE SET

