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**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JG/T 524-2017

Replacing JG/T 5018-1992

**High-pressure airless spraying machine
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces JG/T 5018-1992 "High Pressure Airless Spraying Machine". The main technical changes compared to JG/T 5018-1992 are as follows.

- Revised the scope of application of high pressure airless sprayer (see Chapter 1);
- Updated some normative references (see Chapter 2);
- Increased and revised terms related to high pressure airless spray technology (see Chapter 3);
- Removed the main parameters and series of high pressure airless sprayer design (see Chapter 4);
- Requirements for the degree of protection of electrical systems (5.1.11);
- Re-requires the life of the suction valve (5.2.11).

This standard was proposed by the Institute of Standardization of the Ministry of Housing and Urban-Rural Development.

This standard is under the jurisdiction of the Building Construction Safety Standardization Technical Committee of the Ministry of Housing and Urban-Rural Development.

This standard was drafted. China Academy of Building Research, China Academy of Building Research Construction Mechanization Research Branch, Beijing Construction Machinery Institute of Chemical Research, China Construction Education Association, Construction Machinery Vocational Education Professional Committee, China Construction Machinery Industry Association User Work Committee, China Construction Machinery Industry Association Concrete Products Machinery Branch, Langfang Kaibo Construction Machinery Technology Co., Ltd., National Construction Engineering Quality Supervision Inspection Center, Zhongtai Construction Group Co., Ltd., Shandong Dejian Group Co., Ltd., Beijing Yanjing Engineering Management Co., Ltd., Beijing Huayou Xinye Engineering Technology Co., Ltd., Wuhan Dongfang Construction Group Co., Ltd., Hebei Construction

Group Qianqiu Pipe Industry Co., Ltd., Zhejiang Second Construction Set Group Co., Ltd.,
Langfang City Construction Engineering Group Corporation, Zhongcheng Investment
Group No. 8 Engineering Bureau Co., Ltd.

1 Scope

This standard stipulates that high-pressure airless spraying machines for spraying or conveying fluids, such as paints, resins, solvents, adhesives, etc.

The terms and definitions, models, requirements, test methods, inspection rules, marking, packaging, transportation and storage are referred to as spraying machines.

This standard is applicable to normal temperature high pressure airless spraying machine with working pressure of 8MPa~50MPa and maximum flow not more than 100L/min.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 packaging storage and transportation icon GB/T 3797 electrical control
equipment GB/T 9439 gray iron castings General technical conditions for GB/T 12361 steel
die forgings General technical conditions for GB/T 13384 mechanical and electrical product
packaging General technical conditions for JB/T 5943 construction machinery welding parts

3 Terms and definitions

Airless spray highpressureairlesssspraying the high-pressure fluid medium is
instantaneously ejected through the conveying system, the spray gun, and the nozzle, and
rapidly expands and atomizes to shoot the coating surface to form a coating.

Construction equipment that uses the principle of high pressure airless spraying.

Rated working pressure ratedcapacity the allowable pressure at the pump outlet when the
sprayer is in operation.

Note: The unit is MPa.

Rated flow the volume of fluid medium that can be pumped per unit of time at rated
pressure.

Note: The unit is L/min.

Maximum flow Stable flow rate of the spray gun nozzle when the spray gun is not equipped
with a nozzle.

Note: The unit is L/min.