The Japan Welding News for the World

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WELDING ROBOTS FEATURE

In the dissemination and the application of arc welding robots & spot welding robots, the trend will go to further grow in the direction in the future too on a global scale, though there are the increase and the decrease of the introduction due to the economic trends!

In the world welding industry, the introduction and the application of arc welding robots as well as spot resistance welding robots (hereinafter referred to as spot welding robots) are expanding year after year.

This is due to the major factors such as a lack of welding technicians, among others, a lack of skilled welding workers, aging, etc. along with aiming at high quality of welding by means of the streamlining of welding process, labor savings, automation and robotization in the whole world.

And at present, considering the fact that the welding operation has been performed by manual welding using "covered electrodes" has occupied the share by approx. 30.7% in the entire world in 2019 (Refer to "Covered electrodes" in the volume of Welding Consumables "2020 Welding MART" published by our newspaper), and further, considering that welding technicians themselves are executing welding using welding wires is still many existing, there would be no doubt that the introduction of welding robots will advance year after year in the future too.

Fig.1 shows the demand unit number progression table of arc welding robots and spot welding robots (Our newspaper survey) in the world for coming 9 years until 2019 (prospects) from the year 2011 onward.

According to it, the demand unit number of **Arc Welding Robot** recorded 21,711 units in 2011, but its demand unit number continued to increase year by year, in 2015 after 4 years, striking at 28,440 units up by 31% compared to that of 2011, and the demand unit number has been increasing year by year up until 2018 since 2015, but in 2019, a slowdown of the Chinese economic growth and the U.S.-China Trade War give a great impact against the entire world economy, and so the demand unit number of arc welding robots too are expected to have become 26,850 units or so down by 18.2% from the previous year.

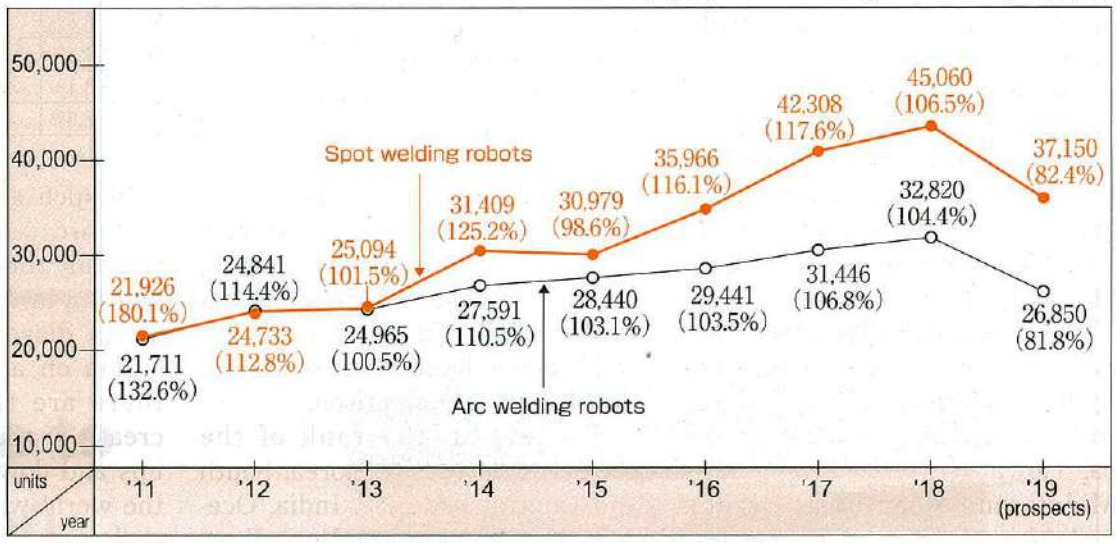
On the other hand, as to the demand unit number of **Spot Welding Robot**, it is estimated that it marked 21,926 units in 2011, but its demand unit number recorded 30,979 units in 2015 after 4 years, increased by 41.3% compared to that of 2011, and demand has been increasing year by year up until 2018 in the same way as arc welding robots since 2015, but it is expected to have become 37,150 units or so down by 17.6% from the previous year due to stagnation of the world economy including China in 2019.

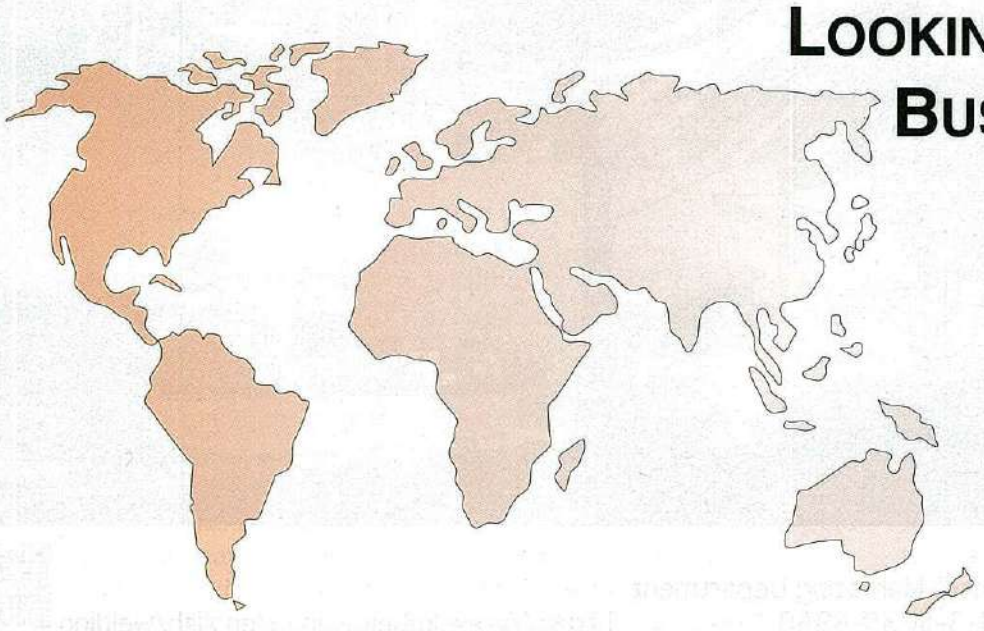
As to arc welding robots as well as spot welding robots, it might be better to say the situation, unpredictable in the 2020 demand prospects, considering that its convergence cannot foresee in the future too, giving a great impact also on the entire world economy, the industry and the manufacturing industry by the infectious expansion of the new coronavirus. The only thing we can say is no doubt that the worldwide users will extremely cautiously respond to the new capital investment throughout the world due to the influence of the coronavirus infection expansion, and in the demand forecast of arc welding robots as well as spot welding robots, it can be said that it has highly possibility of the level-off or down compared to that of 2019 which downed by approx. 20% from the previous year.

Fig.2 shows the transition of the demand unit number of arc

Fig1. Transition Table of Demand Unit Numbers of Arc Welding Robots and Spot Welding Robots in the World (since 2011)

[9-year period 2011-2019 Figures Estimated by our paper]





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