

CHINA AS A LEADING COUNTRY IN THE WORLD IN AUTOMATION OF AUTOMOTIVE INDUSTRY MANUFACTURING PROCESSES

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ABSTRACT: Year after year, installations of industrial robots in manufacturing processes in the world have been increasing, and especially in recent years in continents Asia/Australia. Sales of industrial robots and their application in all industry branches in 2014 have increased compared to 2013 for 29 % so that in 2014 sales and installation of industrial robots reached 229.261 units. Two industrial branches: automotive and electro/electronics are significant for industrial robot applications. Since 2010 demand for industrial robots and their installations in automation of manufacturing processes have significantly accelerated. One of the reasons is innovative technical improvement of the robots. From 2010 to 2014 average increase of industrial robot installation in automation and modernization of manufacturing processes at the annual level was 17 % (CAGR-Compound Annual Growth Rate). China is a world leading country in the last two years in industrial robot installations. Almost 25 % of annual supply of industrial robots in the world belongs to China. Taking into consideration that China in the last several years is leading country in production of motor vehicles, it is easy to conclude that these industrial robot applications are aimed to automation and modernization of manufacturing processes in automotive industry.

KEY WORDS: automation, manufacturing process, automotive industry, industrial robots, installation, production

KINA KAO VODEĆA ZEMLJA U SVETU U AUTOMATIZACIJI PROIZVODNIH PROCESA U AUTOMOBILSKOJ INDUSTRIJI

REZIME: Iz godine u godinu dolazi do povećanja primene industrijskih robota u proizvodne procese u svetu, a naročito u zadnjim godinama u Aziji/Australiji. Prodaja industrijskih robota i njihova primena u svim industrijskim granama se povećala u odnosu na 2013.godinu za 29% tako da je u 2014.godini dostigla cifru od 229.261 jedinica. Dve industrije su značajne u primeni industrijskih robota, automobilska i elektro/elektronska industrija. Od 2010.godine potražnja i instaliranje industrijskih robota pri automatizaciji proizvodnih procesa znatno je ubrzana, a jedan od razloga je inovativno tehničko poboljšanje industrijskih robota. Između 2010-2014.godine prosečno povećanje primene industrijskih robota pri automatizaciji i modernizaciji proizvodnih procesa na godišnjem nivo je iznosilo 17% (CAGR-Compound Annual Growth Rate). Kina je u zadnje dve godine vodeća zemlja u svetu po primeni industrijskih robota, tako što je u 2014.godini proširila svoju primenu sa učešćem od oko 25% od ukupne primene u svetu. Vodeći računa da je Kina u zadnjim godinama vodeća zemlja u svetu po proizvodnji vozila, lako je doneti zaključak da je primena industrijskih robota usmerena na automatizaciju i modernizaciju proizvodnih procesa automobilske industrije.

KLJUČNE REČI: automatizacija, proizvodni proces, automobilska industrija, industrijski robot, primena, proizvodnja

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