

✚ No.1 golf player Ms. Yani Tseng & ProArc in golf arena



The 2011 major championship winners definitely showed that the women's game has a great future. Yani Tseng continues to pile up the "youngest to..." records. She became the youngest player, man or woman, to reach five career major titles with the RICOH Women's British Open title. Tseng will have nearly four years to become the youngest woman to win six major championships. "I've play golf since I was 5 and just love it," Tseng said. "I would always go to driving range after school, and I just have always loved golf. My parents are good golfers and love it too. So, it was a family sport."

Taiwan's Yani Tseng, the winner of the Wegmans LPGA Championship and RICOH Women's British Open

Golf clubs seem to be nothing special for those who do not play, but is everything for the ones loving the game. Lasers help manufacturing the latest design of golf clubs and by this offer the players better features and performance. Lasers are used for cutting as well as welding in one installation and with this again show there versatility in industrial manufacturing.



ProArc was working on golf clubs application intensively. Today three major laser applications are applied: Laser cutting the casted body precisely as a preparation (see # 1&2) for a following welding, welding a titanium sheet metal to close the driver body, and welding the hitting surface into the casted material (see # 3), making it a perfect piece of sports equipment. (see # 4)



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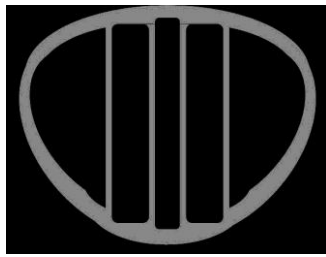
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1 casting contour, top view



2 casted head after laser cut

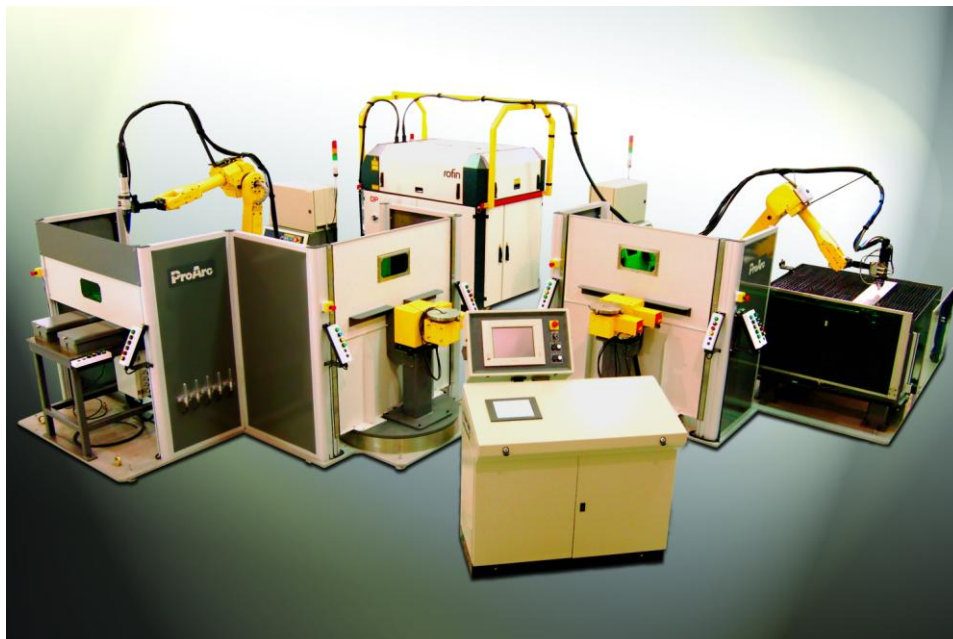


3 club head after first welding



4 final product of the driver head

Welding and cutting described are performed in a 4 station system installed by ProArc. It uses one DPSSL from ROFIN offering 2 kW maximum power which is time-shared (switched) into 2 fibres. Each fibre is connected to one robot which serves two stations each. The system is shown in # 5.



5 ProArc built golf clubs laser welding & cutting system



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