

Makita picks up gauntlet

Hilti has long dominated the market when it comes to hammer drills and demolition hammers but new offerings from Japanese manufacturer Makita are proving to be worthy competitors



TOOLS
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Our customers have been really impressed with Makita's latest range of breakers and combi-hammers – and so have we.

At the top end of the market, Hilti has dominated for some time now with its range of TE breakers and combi-hammers, which are robust while also being high on productivity and low on vibration.

However, Makita's latest ranges with antivibration technology is creating some much-needed competition in this market.

Four of our most popular offerings from Hilti are its TE 40-AVR and TE 80-ATC AVR combi-hammers, as well as its TE 700-AVR and TE 1000-AVR breakers. These are continuously on hire to customers who are working on some of the most



Makita's HR4511C (left) is rivalled by Hilti's TE 80-ATC AVR (right)

high-profile projects in London, including the Shard and Crossrail.

With consistent utilisation figures of more than 90 per cent, together with the reliability required of such tools, it's about time the industry had some credible alternatives.

We were pretty excited about testing the Makita HM1111C and HM1214C breakers against the

Hilti equivalents (see table) and were

interested in the progress Makita has made in productivity and build quality.

When comparing the Hilti TE 700-AVR and the Makita HM1111C, we were pleased with the parity in weight (7.9 kg versus 7.7 kg respectively), impact energy (11.5 joules versus 11.2 joules) and hammering speed (2,760 impacts/minute versus 2,660 impacts/

90%
Utilisation rate of popular Hilti combi-hammers and breakers

MAKITA VERSUS HILTI

A comparison of the key features of Makita's new breakers and combi-hammers and Hilti's market leaders

	Hammer drill/ combi-hammer		Hammer drill/ combi-hammer		Breaker/demolition hammer		Breaker/demolition hammer	
	Hilti TE 40-AVR	Makita HR4011C	Hilti TE 80-ATC AVR	Makita HR4511C	Hilti TE 700-AVR	Makita HM1111C	Hilti TE 1000-AVR	Makita HM1214C
Net weight (kg)	5.6	5.9	10.2	8.4	7.9	7.7	11.8	11.7
Single impact energy (joules)	4.9	6.2	11.5	9.4	11.5	11.2	22	19.9
Hammering speed (under load 100%), impacts/min	3,180	2,750	2,760	2,750	2,760	2,660	1,950	1,900
No-load speed (rpm)	550	480	380	280	–	–	–	–
Tri-axial vibration for hammer drilling (concrete), m/sq s	10.7	7.5	8.8	7.5	–	–	–	–
Drilling hours use per 8-hr working period (hr:mins)	1:44	3:33	2:34	3:33	–	–	–	–
Tri-axial vibration for chiselling (concrete), m/sq s	9.9	6.5	8.5	7.0	6.5	9.2	6.5	8
Chiselling hours use per 8-hr working period (hr:mins)	2:02	4:44	2:45	4:04	4:43	2:21	4:43	3:07

SOURCE: HILTI.CO.UK AND MAKITA.COM