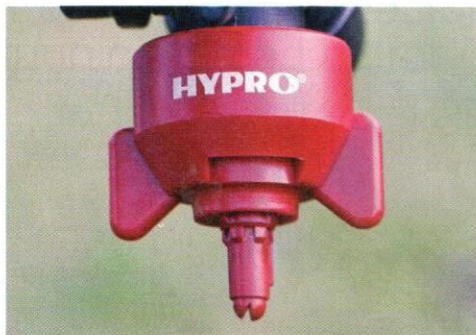


# Lurmark's 59 years of nozzle know-how at work in Hypro



The GuardianAIR fan is air induction and also known as the 'Amistar' nozzle.



The GuardianAIR Twin is targeted at jobs that require high penetration.

## By Andy Doyle

**S**prayer operators seeing Hypro nozzles in the market may well wonder where these come from and wonder if they are worth considering? The answer may well be helped by the knowledge that these are Lurmark nozzles following a take-over in recent years.

Hypro EU – established as Lurmark – has been manufacturing spray nozzles in Cambridgeshire since 1954. It is the European business of Hypro LLC, North America's leading spray pumps producer. Hypro is also part of Pentair Water, a \$3.3 billion water technology business.

Fintan Kealy, who trades under the name of SprayTEK Agri Ltd, told me about the change and his company is now marketing these nozzles in Ireland. Fintan will sell direct to farmers but he also sells through dealers. He only commenced operation with Hypro in 2012 and admits that it is a very niche and seasonal business. Fintan is a small grain producer with around 25ha of cereals and a small area of potatoes and grass. So he can assess first-hand the products that he sells.

For those who may not remember, Lurmark was the company that worked with Syngenta to produce the Amistar lo-drift nozzle. This is now called the Guardian AIR fan and Fintan reports that it is a big seller. People like the convenience and proven performance of the nozzle, coupled with the option to dramatically pull down water rates. This is an air induction nozzle and sends out its spray pattern at a 13° backwards angle.

Some growers are now looking for the GuardianAIR Twin for jobs that require high canopy penetration. It was designed for this use with two nozzles fitted into a very tidy bayonet cap sending out spray at 30° front and back to the direc-

tion of travel. This is also an air induction nozzle and it comes with a range of output capacities.

But traditional fan nozzles remain in strong demand with the Blue 03 VP (variable pressure) 110-03 being the most common. This nozzle is said to maintain its atomising integrity at a range of pressures from 1 to 5 bar. This range of VP nozzles are very important for use on rate controlled sprayers where computerised application controls maintain a target output through changing pressure if forward speed is varied or if a rate alteration is required.

Hypro also supply many other types of nozzle including fertilizer piddle-type, cones, flood etc. But Fintan said that there is virtually no interest in cone nozzles nowadays. The nozzle is key to making efficient use of expensive sprays. Applying spray solution uniformly and at the required rate is important for efficient production. For this reason, sprayer operators should frequently check nozzle performance, both in terms of throughput and application pattern. Once there is any sign of wear, the full set of nozzles should be replaced.

Depending on where you buy them, Fintan told me that a set of Blue 03s work out at around €1 each plus VAT. This means that a full set of nozzles for a 24m sprayer at 50cm nozzle spacing works out at around €60 - €100 for the full sprayer, including VAT. So it need not be an expensive process to keep your sprayer in top working condition. And a further €36 will buy a set of colour-coded caps for each set of standard nozzles.

Moving to more sophisticated nozzles could cost more, however. The GuardianAIR Twin, which includes two fan nozzles and the cap, costs €7.60 plus VAT per nozzle or around €450 to fit out the 24m sprayer. But this is still good value where you have a need for this type of nozzle.



Fintan Kealy

## ➔ List of IASIS Ad

Name	Company
Tim Ashmore	Teagasc
Alan Barry	O'Donnell Agri Ltd.
Gary Beirne	Terrachem Ltd.
William Boland	Liffey Mills
Martin Bolger	Connollys Red Mills
Gearoid Booth	Charles R. Wynne Ltd.
Mark Bourke	Centenary Thurles Stone
Martin Bourke	Teagasc
John Boylan	T.P. Whelehan Crop Prod
James Brady	Liffey Mills
David Breen	Breen Agricultural Serv
Tom Breen	Breen Agricultural Serv
Aidan Brennan	BASF Ireland Ltd.
John Brophy	Glanbia Agribusiness
Gregory Brophy	Brophy Agri-Services Ltd
Tom Bryan	Boortmalt
Edward Burgess	Teagasc
Padraig Burke	Novokem Ltd.
Alan Burns	Brophy Agri-Services Ltd
Tom Butler	Butler Agriculture Ltd.
James Byrne	Bayer CropScience Ltd.
Brendan Byrne	Brendan Byrne
Peter Callaghan	National Agrochemical
Pat Carey	Mathews Agri Services
Oliver Carter	Seed Technology
Michael Casey	Monsanto Ireland Ltd.
Adrian Caulfield	Unichem Ltd.
Patrick Clancy	Pat Denn Agriculture
Clive Cole	Quinns of Baltinglass Ltd
Simon Colfer	Boortmalt
Andy Collier	Goldcrop Ltd.
Finbarr Collins	Sole Trader
Ciaran Collins	Teagasc
Joe Conroy	Joe Conroy Consultancy
Trevor Cooke	Glanbia Agribusiness
David Cooney	Whites Agri Services Ltd
Edwin Cooper	Farmhill Agri Services
Daniel Cooper	Monsanto Ireland Ltd.
James Corry	Bandon Medical Hall
Billy Cotter	Syngenta Ireland Ltd.
Ger Coughlan	Ger Coughlan Agri Ltd.
Christy Coyne	C. Coyne & Sons Ltd.
Pat Crean	Barclay Chemicals
John Crean	Boortmalt
Kieran Creed	Dairygold Co-Operative
John Cullen	John Cullen Grain Ltd
Sean Cullen	Wallace Agri Trading Ltd
James Curtin	Barryroe Co-op
Hilton Dagge	Nufarm
John Dalton	John Dalton & Sons Ltd
Kenneth Daniels	Goldcrop Ltd.
Cyril Darcy	Cyril Darcy Agriculture
Barry Davis	Interagrow Ltd
Henry Deacon	Boortmalt
Brian Delaney	J Grennan & Sons Ltd.
Thomas Delaney	National Agrochemical
John Dempsey	Kevin Cooney Ltd.
Michael Demspey	Mathews Agri Services
Donal Dilworth	Crop Plot Trials
Conor Dobson	Teagasc
Jonathan Donaldson	Burkes Ltd.
Jer Doran	Whites Agri Services Ltd
Patrick Doughan	Deeside Agri Services
John Duffy	Terrachem Ltd.
Bernard Dunne	Arrabawn Co-op
John Dunne	Goldcrop Ltd.
Michael English	Dairygold Co-Operative
Yvonne Farrell	Monsanto Ireland Ltd.
Michael Fawle	Charles R. Wynne Ltd.
Fergal Fennelly	Morrissey Farms
Damian Fewer	Teagasc
Donal Fitzgerald	Goldcrop Ltd.
Michael Foley	Brett Bros. Ltd.
David Fraser	Liffey Mills
Kevin Gallagher	Bandon Medical Hall