



- **QUALITY POWDER**
- **IMPROVED HYGIENE**
- **LONGER LIFE**
- **PLANT PROFIT**



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01

WE SPEND ALMOST AS MUCH TIME IN DRYERS AS YOU.

Spray Nozzle Engineering are leading designers and manufacturers of industrial spray technology, holding many worldwide patents. With offices in New Zealand, Australia and distributors worldwide, the company assists OEMs and factories around the world with cutting-edge spray technology that increases productivity and powder quality.

With over two decades of experience working with plants in dairy, food additives, pharmaceutical and others, Spray Nozzle Engineering has developed a customer-focused service, providing full training, support and a complete range of low impact tools that give customers the product confidence they need.

We develop engineered product solutions focusing on powder quality, extended nozzle life, and reducing powder wastage/downgrades for greater plant profitability. All achieved with the latest CLICK&DRY™ - Spray Dry Nozzle Technology.

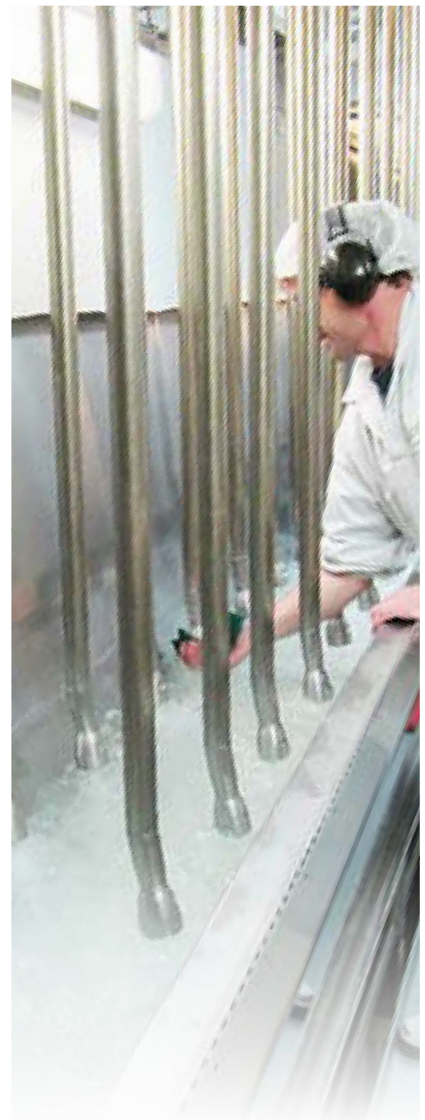


SprayNozzleENGINEERING
Total Spraying Solutions

The name behind CLICK&DRY™
spraynozzle.com



**IT'S ALL ABOUT
QUALITY POWDER,
IMPROVED HYGIENE,
LONGER NOZZLE LIFE
& INCREASING PLANT
PROFIT.**



02

ABOUT CLICK&DRY™

The proof is in the powder™

CLICK&DRY™ incorporates the world's leading, patented nozzle innovation, revolutionary spray technology in the powder production field.

The Spray Nozzle Engineering team has developed, over two decades, cutting-edge nozzle designs that address the most common problems in drying plants worldwide.

CLICK&DRY™ technology is proven to:

- **Improve powder quality by reducing scorched particles**
- **Reduce nozzle build-up & achieve longer run times**
- **Increase hygiene with easy to clean cap internals**
- **Reduce nozzle leakage & fire risk**
- **Offers longer wear part life & eliminates breakages**
- **Save money, reduce operating costs & wear parts by up to 60%**
- **Reduce expensive maintenance & improve reliability**
- **Improve plant profit all day - everyday!**
- **Reduce costly downtime due to nozzle assembly error**

The CLICK&DRY™ design makes safety and pressure integrity part of its number one design priority. CLICK&DRY™ was developed to function within a range of operational safety factors that far exceed that of current competitive equipment in the field, with unique high-pressure axial seals, as well as a design that resists the normal types of observed wear characteristics of older style nozzles.

CLICK&DRY™ components are designed around best practice hygiene and important pressure-related standards, such as ASME B31.3. These standards are dedicated to the safe operation of pressure systems and provide safety margins that exceed those in current use based on the yield stress and other important factors.



03

WHY CLICK&DRY™

Powder problems - nozzle solutions

QUALITY

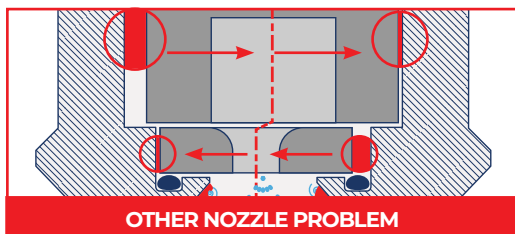
DEALING WITH POWDER DOWNGRADES & WASTAGE

How does CLICK&DRY™ cutting-edge nozzle design address the most common problems when spray drying powders?

1. Powder quality issues - powder inconsistency

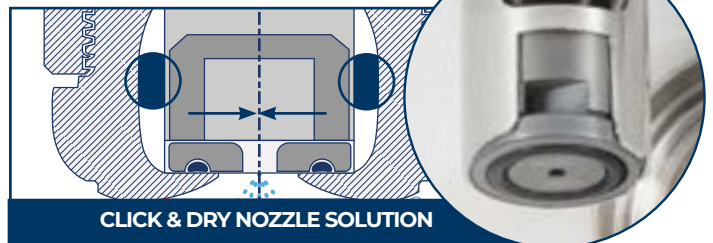
Problem: Wear part misalignments

Traditional nozzle designs have misalignments between the swirl chamber and orifice. Decentralised parts can rock from side to side during assembly and create inconsistent spray performance affecting the powder consistency, quality, which can lead to potential powder downgrades.

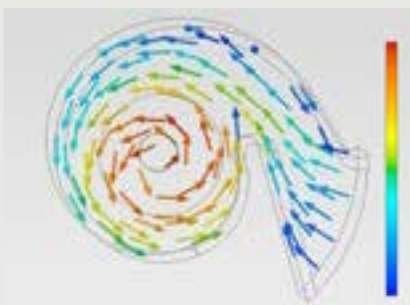


Solution: Innovative Concentric Clasp Technology (CCT) increases powder consistency & quality

CLICK&DRY™ nozzles align wear parts to produce a uniform spray pattern across all lance sets. Achieving a better performance and powder consistency. Pressure and flow are consistent, delivering predictable powder quality with reduced downgrades.



Why is consistent Swirl & Orifice concentricity essential?



Liquid enters the swirl chamber and spirals inwards to the orifice. As it does so it increases speed significantly. Without exact alignment of the orifice to the swirl the performance and the consistency of the spray pattern is greatly affected. CLICK&DRY™ is the only nozzle that can provide consistent alignment of these core parts.

Increased spray consistency = Increased dryer production & powder quality



NO CHARGE TECHNICAL SERVICE

Speak to us about product trials & advice.
sales@spraydrynozzle.com

Scan or Click QR code



SEE IT ALL
IN ACTION



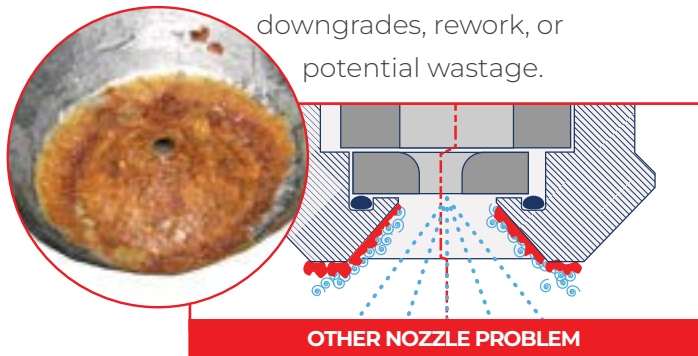
QUALITY

DEALING WITH POWDER DOWNGRADES & WASTAGE

2. Powder quality issues - build-up & scorched particles

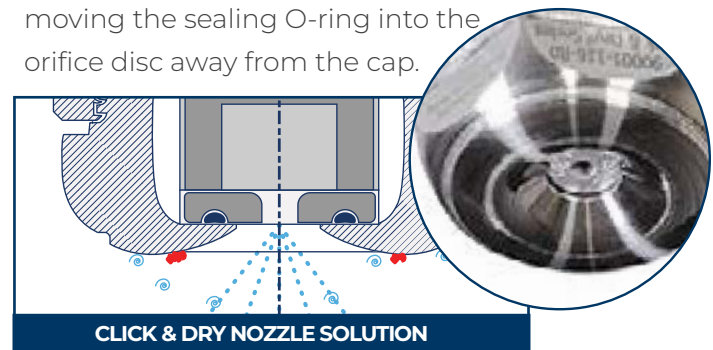
Problem: Product build-up

Build-up may be due to dryer configuration, use of wider spray angles and powder formulation, but in many cases, it's deficient nozzle design. Product build-up contaminates the chamber and becomes scorched particle deposits that compromise powder quality, leading to powder downgrades, rework, or potential wastage.



Solution: Flat cap profile

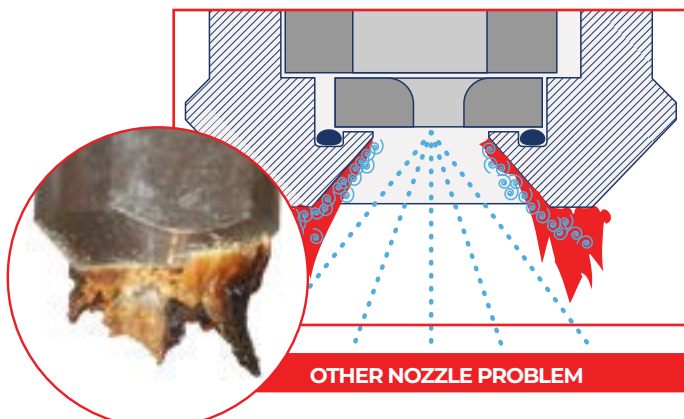
CLICK&DRY™ flat cap design provides a lower outer face profile that greatly reduces build-up. Studies performed in New Zealand show plants using CLICK&DRY™ technology achieved significantly less nozzle build-up when compared to other standard spray dry nozzles in use. This is achieved by moving the sealing O-ring into the orifice disc away from the cap.



3. Quality problems reduce productivity

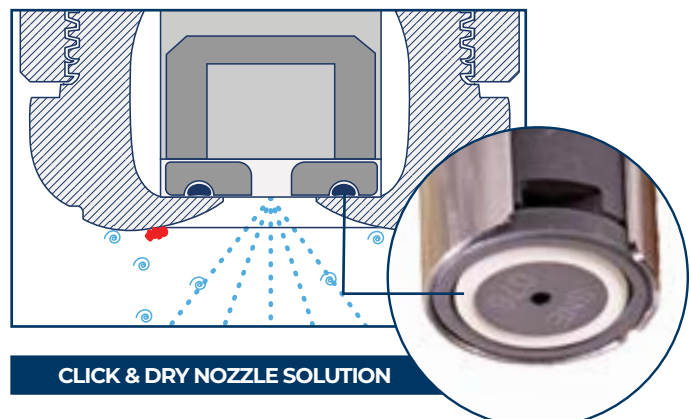
Problem: Nozzle bearding

Bearding may be due to the use of wider spray angles and powder formulation, but it is mostly due to deficient nozzle design. Bearding is a fire and quality risk, increasing the need for cleaning frequency, which delays production. Stopping production for cleaning and short run times plays a big part in dryers' low productivity, and powder wastage.



Solution: SEAL-IN-DISC™ cap

CLICK&DRY™ flat cap design with SEAL-IN-DISC™ reduces powder waste by providing a lower outer face profile, which greatly reduces bearding. This also means less shut down time for clean-up, delivering higher productivity. If we reduce build-up, we slow the bearding process and then nozzles can run longer for greater productivity.



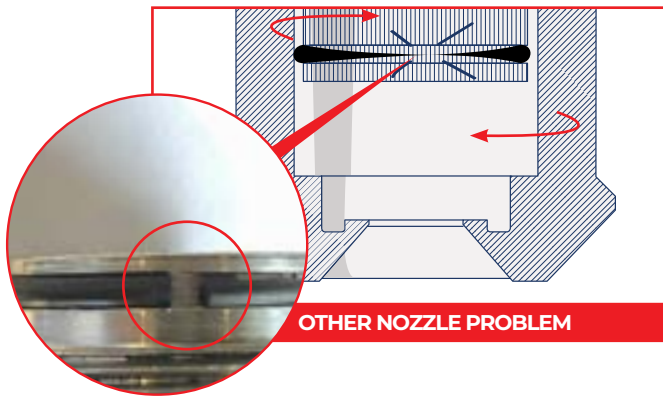
SAFETY

DEALING WITH PRODUCT LEAKAGE & FIRE RISK

4. Sealing issues

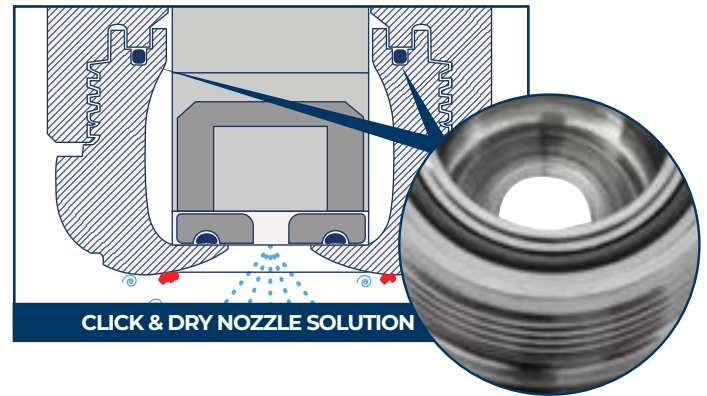
Problem: Radial O-ring seal tearing due to assembly

Conventional radial seal systems can suffer from O-ring drag and tearing during assembly, which compromises critical sealing. This is a severe fire and quality risk due to nozzle leakage.



Solution: Fully Axial O-ring seal design

CLICK&DRY™'s non-radial sealing means the Axial O-ring can only reach the sealing face when the cap is fully engaged to the body. No dragging and tearing of seals during assembly.



FIRE RISK

OLDER SPRAY NOZZLE DESIGNS COMMONLY IN USE TODAY ARE NOT ONLY SUBJECT TO SIGNIFICANT PRODUCT BUILD-UP (BEARDING) OF THE NOZZLE CAP, BUT THEY ALSO ARE VULNERABLE TO SEAL FAILURE DURING ASSEMBLY. THE RESULTING LEAKAGE IN THE HEATED CHAMBER CAN BURN AT THE NOZZLE, IGNITING THE COMBUSTIBLE POWDER LEADING TO CATASTROPHIC EXPLOSION & FIRE.



HYGIENE

MAINTAINING & IMPROVING HYGIENE STANDARDS

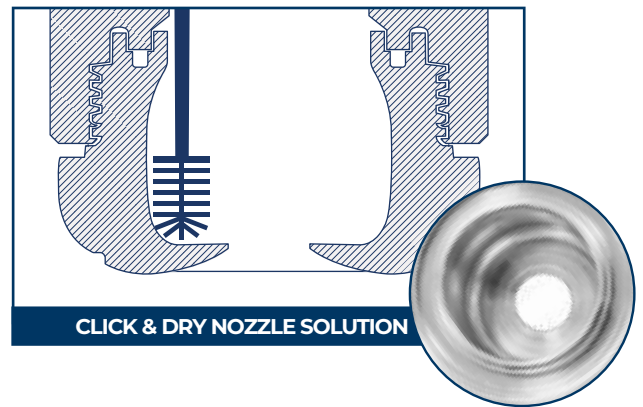
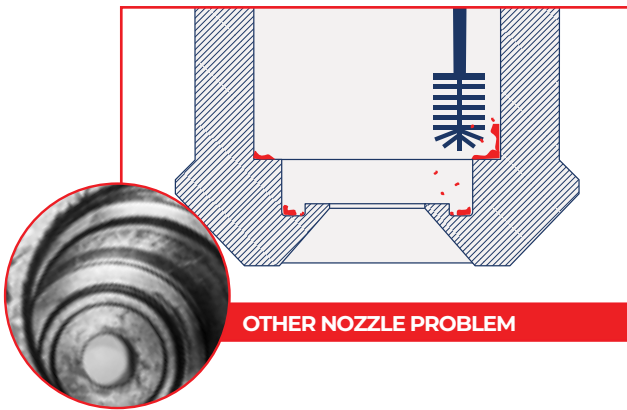
5. Increased nozzle cleanability

Problem: Nozzle O-ring groove design

Cleaning traditional spray nozzles is difficult due to the O-ring groove inside the cap. Conventional cap chamber design has tight and out-of-reach corners that harbour unreachable contaminants.

Solution: Hygienic design & clean easy nozzle

CLICK&DRY™ caps are designed to be easy to clean and produce better hygiene results. With their smooth internal profile, the spray dry industry can now reach a new level of hygiene with increased ease.



TAKING HYGIENE TO THE NEXT LEVEL

Ask about our cleaning & handling accessories.



C.I.P. ACCESSORIES

C.I.P. caps for both hose & rocket launcher type lance
C.I.P. wash systems.



CLEANING BASKET & SOFT BOARDS

Protects your nozzles from impact damage during cleaning, increasing part life, reducing failure risk.



LONGLIFE

REDUCING PRODUCTION COSTS & DOWN TIME

6. Extending nozzle life

Problem: Dated disassembly procedures

Disassembling nozzles with baked on product can be challenging. Using impact tools, such as hammers and pin punches lead to high breakage, wear part costs and serious spray performance issues.



Problem: Thread damage / binding & unprotected sealing faces

Ordinary thread systems are too fine to resist normal impact damage, leading to binding and seized parts and need for anti-seize chemicals. Additionally, unprotected sealing faces can be easily damaged during handling, resulting in cutting / re-welding of nozzle bodies and expensive down time.



Solution: Easy disassembly tools

The CLICK&DRY™ disassembly procedure doesn't require impact tools to hit wear parts. This minimises breakages, reduces operating costs and helps ensure spray performance.



Solution: Heavy duty threads & robust cap protection skirts

CLICK&DRY™ nozzles were designed with heavy duty threads with a special thread form highly resistant to normal impact damage during lance handling. CLICK&DRY™ nozzles also come with a seal face protection skirt. This robust cap protection skirt is designed for protection against O-ring seal groove damage, helping ensure parts remain fit for purpose.



04

FEATURES & TECHNOLOGY

It's How Spray Dry Innovation is Done

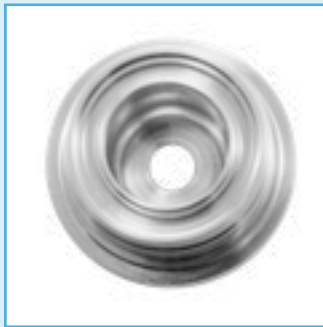
Our latest CLICK&DRY™ patented technology represents some of the most significant nozzle design developments in the history of spray drying.



Seal-In-Disc™

Orifice disc allows smoother cap internals for improved hygiene, along with reduced cap build-up (bearding).

The SEAL-IN-DISC™ system also allows O-rings to be fully visible during assembly as it faces the operator at all times. -Safer assembly reduces accidents.



Smooth cap chamber

Removing the seal groove from inside the cap improves hygiene by making cleaning and maintenance easier. This helps prevent product residue normally found in the O-ring groove area of other nozzle caps, thus reducing contamination risks, and improving flush-ability during water finishing and reduces cleaning time.



Low profile cap design

The combination of the two above designs, uniquely allow the lowest profile cap available. Significantly reducing build-up (bearding) on the exterior of the nozzle, whilst maintaining fit-for-purpose ratings.



Hi-flo swirl

An innovative compact design for long life, superior strength and with the performance you expect. The compact CLICK&DRY™ swirl performs equally against traditional larger thick swirls in common use. To achieve this, the tangential inlet length of the CLICK&DRY™ compact swirl remains importantly uncompromised.

Full axial compressive seal system

Improves pressure sealing to reduce leakage, preventing O-ring extrusion for all pressure applications. The system ensures sealing contact only when fully home, eliminating seal drag and tear during assembly, a major cause of leakage in radial seal nozzle caps. Full axial sealing also means expensive back-up rings are no longer required.



Assembly logic

CCT (Concentric Clasp Technology) Optional

ERROR FREE SWIRL INSTALLATION - IMPROVED SPRAY - CARBIDE EXTRACTION WITHOUT BREAKAGE

Error free Swirl installation comes standard with CCT assembly logic. CCT ensures you can only assemble wear parts in one way, mitigating problems at start up. CCT also achieves perfect wear part alignment for better spray performance and increased wear parts life. Moreover, the system allows easy wear parts extraction (Easy-out) at the end of a run, reducing wear part breakages and allowing large cost-savings. See p.29 for Plant profitability benefits.



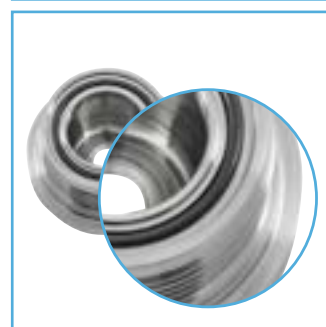
Seal retention

Prevents O-ring movement for leakage protection. It keeps the O-ring in place for faster change-outs. Without the need to introduce chemicals / lubricants to the food - contact process.



Seal face protection skirt

The World's first unique heavy-duty dual seal face protection designed for protection against O-ring seal groove damage and safer longer life sealing.



Anti-galling threads

Reduce thread damage during lance handling. These larger thread forms are also easier to clean and resist normal impact damage. A thread system so good that they are covered by our new for old replacement guarantee*(p.18). Reduce costly repairs and down time, without the need for anti-seize chemical use.



**Misalignment exaggerated for pictorial purposes.

05

CLICK&DRY™

COMPACT SERIES

OUR SERIES LEADER

All of the benefits & solutions without compromise

A smart spray nozzle design for improved powder quality, hygiene, reduced build-up (bearding) and greater plant profit. CLICK&DRY™ spray dry nozzles are a patented design for all dryer and lance types reducing wear and operating costs.

First choose your preferred carbide carrier system - CR or CC.

TIPS

"CLICK&DRY™ nozzle bodies accept either CR or CC systems.
This means you can simply upgrade to CC Clasp any time."

COMPACT RETAINER CR

Start with the basics



Push fit retainer assembly: This entry level provides all the basic pressure integrity benefits of full axial sealing to deliver basic CLICK&DRY™ benefits at **lower initial cost**. Basic concentricity level provided by the retainer along with reduced cap profile improves spray performance and reduces product build-up.

COMPACT CLASP CC

If you're ready for the best



Optional Easy-Out Concentric Clasp Technology delivers full wear part concentricity for the ultimate spray performance and reduced wear. Easy-out feature also reduces removal breakage of wear parts. The clasp system provides **significant long term cost benefit** and performance gains along with reduced product build-up.



COMPACT SERIES
YOUR ULTIMATE SPRAY DRY
NOZZLE SOLUTION!



WHAT'S INSIDE CLICK&DRY™ COMPACT? SOLUTIONS...

Smooth cap chamber improves hygiene by making cleaning and maintenance easier.

Anti-galling threads reduce thread damage during lance handling. Covered by our new for old replacement guarantee.

Full CCT (Concentric Clasp Technology) Clasp

Perfect wear part alignment, better spray performance, increased wear life. Assembly logic and easy wear part extraction.

*CC SHOWN

SEAL-IN-DISC™ orifice disc allows smoother cap internals and reduce cap bearding or build-up. **Hi-flo swirl** with all of the performance expected and more.

Full axial compressive seal system improves pressure sealing to reduce leakage, helping prevent O-ring extrusion and damage.

Seal face protection skirt

World's first unique heavy-duty dual seal face protection designed for protection against O-ring seal groove damage.

Seal retention prevents O-ring movement for leakage protection. It keeps the O-ring in place for faster change outs.



OPTIONAL FEATURES

Contact the factory for more details & assistance.



KNIFE-EDGE Cone Cap

A custom cap selection, spray angle dependent, suitable for some build-up issues. For a wider range of solutions requiring greater impact / handling resistance and longer run times, refer to our **F**, **D** or the new **RB** series caps suitable for all spray angles.



ULTRA SHORT Body

Ideal for compact spray dryers. The overall assembled length not exceeding 53 mm for the most compact installations. Available for in-line & 45° weld lances.



ULTRA-HIGH PRESSURE D Series Cap

350bar - 689bar

5076psi -10,000psi

*can be used with standard CLICK&DRY™ body and components.

Consult us for more info.



DRIP-PRO™ Check Valve

Reduces drips and scorched particles with longer run time. A Retro-fit option with replaceable seals, easily installed into standard bodies, more details p.15.



THREADED Compact Clasp (with CCT)

Easier installation and removal for heavy product adhesion problems. Designed to minimise wear part breakages in the most difficult baked on product situations while maintaining all the powder quality & safety improvement of CLICK&DRY™.

THE ESSENTIAL OPTIONS

DRIP-PRO™ CHECK VALVE

A smarter approach to reduce scorched particles & increase powder quality.

The problem of post-shut dripping deposits and scorched particles at the fluid bed are all major powder quality issues.

The DRIP-PRO™ Check Valve is a field proven solution for dripping deposits and scorched particles. Complimenting most air purge anti-drip systems, DRIP-PRO™ functions with high reliability within the concentrate fluid path.

The DRIP-PRO Check Valves patented design also incorporates the following features:

- **Ability for seal face replacement** avoids complete valve change-outs. The simplicity of a replaceable seal face prevents wear upon lance body hardware, reducing the need for expensive lance or nozzle replacement and costly downtime.
- **The replaceable Teflon™ sealing face forms a superior seal** vs metal upon metal. A key benefit over our competition in leak prevention.
- **Delivers longer run-times** maximising your powder production.
 - **Spring pressure can be changed** for different shut-off requirements.
- **Drip-Pro™ fits together as one assembly** for easy operation and management, unlike other check valves.
- **No special body or adapter required** - fits standard Click&Dry™ nozzles – Upgrade at any time.
- **High flow rate** for maximum product delivery with easy clean design.
- **No special tools required** for installation or removal.



DRIPPING SPRAY DRY NOZZLES ARE A MAJOR CAUSE OF DIRTY CHAMBERS & SCORCHED PARTICLES, LEADING TO PRODUCT CONTAMINATION.



NEW INTRODUCING "RB" REDUCED BUILD-UP NOZZLE SYSTEM

"RB" REDUCED BUILD-UP TECHNOLOGY

Our latest technology release from our proven low profile cap range is our continued development of **reduced product build-up & bearding formation** on the cap face during spray dry operation, particularly when drying difficult products such as nutritional powder.



Pat. Pend





RETRO-FIT

NOT THE FULL CLICK&DRY™
SOLUTION, BUT A GREAT WAY TO
START. SIMPLY SCREW IT ON!

06

CLICK&DRY™

RETRO-FIT SERIES

SOME CLICK&DRY™ BENEFITS COME EASY

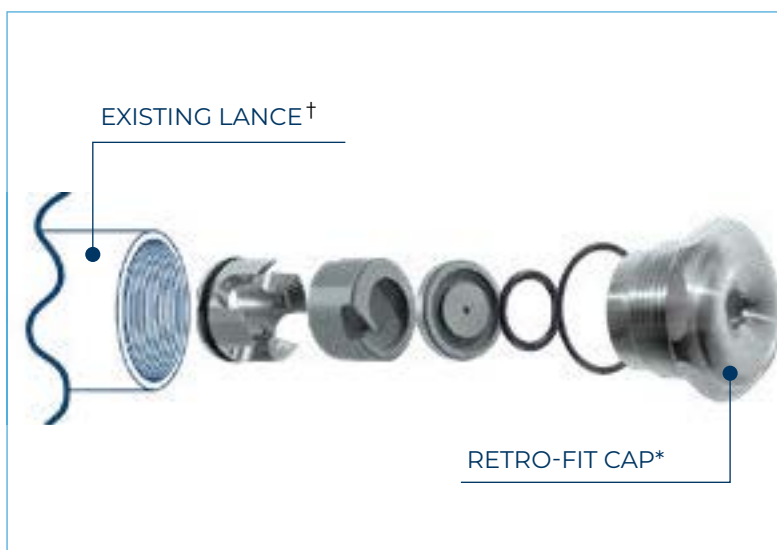
Start with CLICK&DRY™ screw-on caps without welding

Begin with the CLICK&DRY™ advantage today without lance welding.

The Lance Retro-fit Series is idea for taking advantage of some key CLICK&DRY™ patented benefits without re-welding your lances. The CLICK&DRY™ single replacement screw-on cap will Retro-fit onto your existing nozzle body for instant performance gains and build-up production.

RETRO-FIT RETAINER RR

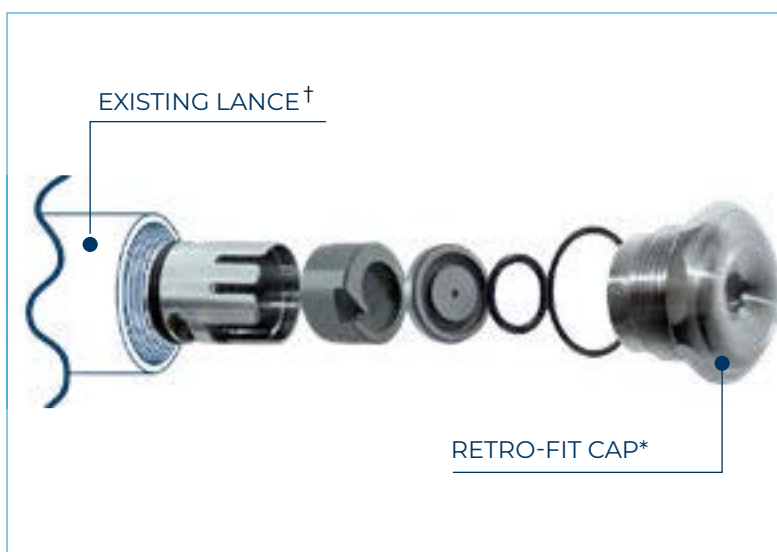
Screw on the basics



Push fit retainer assembly: This entry level provides all the basic pressure integrity benefits of full axial sealing to deliver basic CLICK&DRY™ benefits at **lower initial cost**. Basic concentricity level provided by the retainer along with reduced cap profile improves spray performance and reduces product build-up.

RETRO-FIT CLASP RC

Screw on the best features

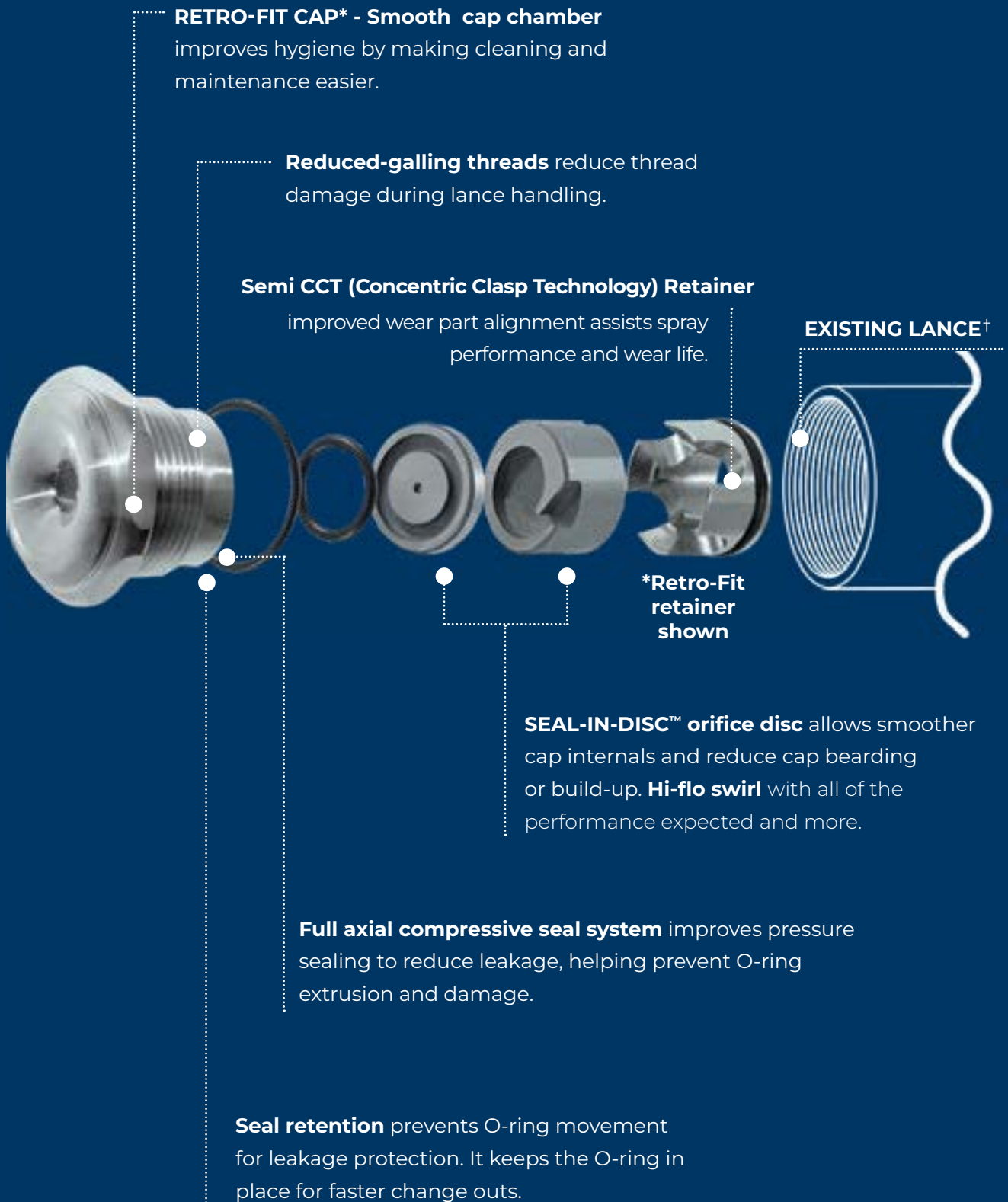


Optional Easy-Out Concentric Clasp Technology delivers full wear part concentricity for the ultimate spray performance and reduced wear. Easy-out feature also reduces removal breakage of wear parts. The clasp system provides **significant long term cost benefit** and performance gains along with reduced product build-up.

Disclaimer. * † NOTE: The Retro-fit lance cap* and the Existing lance† shown, are representative only. Lance Retro-fit Caps* are custom made to suit your particular Existing lance† attachment system. Advise factory your exact body connection requirement, pressure and material. ALWAYS provide a sample of the Existing lance† bodies / caps to verify Retro-fit cap* fit. ALWAYS test Retro-fit cap* fit for sealing function prior to use.



WHAT'S INSIDE CLICK&DRY™ RETRO-FIT? BENEFITS...



OUR GUARANTEE

We are so confident in the longevity of our proven CLICK&DRY™ system, that in the highly unlikely event you experience a problem, we offer you this exclusive replacement guarantee. Available to end users from the first date of commissioning or upgrading any dryer to select CLICK&DRY™ systems. Proof of purchase is required at redemption. Excluding any cost of removal, installation or freight of components.



COMPACT SERIES

2 YEAR NO THREAD GALLING GUARANTEE

2 Year Replacement** Guarantee from date of commission on CLICK&DRY™ Compact weld-on Bodies and CLICK&DRY™ Compact caps with thread protection skirt if you experience inoperable thread galling using select CLICK&DRY™ Compact systems, we will replace the thread damaged components from your first commissioning set of CLICK&DRY™ bodies and caps of the Compact systems.

2 YEAR NO WEAR PART BREAKAGES GUARANTEE

2 Year Replacement** Guarantee from date of commission on all CLICK&DRY™ swirls and CLICK&DRY™ SEAL-IN-DISC™ orifice disc, we will replace the breakage^ affected items from your first commissioning set of CLICK&DRY™ swirls and / or orifice discs, if you experience total breakage^ of parts while running CLICK&DRY™ compact assembly with Concentric clasp and assembly tools.

1 YEAR WEAR COVER – DISC & SWIRL GUARANTEE

1 Year Replacement** Guarantee from first date of supply for any dryer fully commissioned or upgraded to select CLICK&DRY™ systems*. We will replace the wear-affected items from your first commissioning set^ of CLICK&DRY™ swirls and/or CLICK&DRY™ SEAL-IN-DISC™ orifice discs if you experience any wear beyond normal operational wear tolerances using our Concentric clasp & removal tools.

Refer P.35 [conditions& definition](#)



“

Our factory has used SNE CLICK&DRY™ nozzles for over 10 years. During this time there has been considerable development in this area of our operation, and this has been made possible by an innovative, can-do approach by both parties.

SNE has been an effective supplier to our business over the years. Service and supply have never been an issue, and they are able to train our operators to use and look after their products. There is a continuous improvement approach with products made more reliable, and easier to use. I have no hesitation to recommend CLICK&DRY™.

**-P. Wilson Process Technologist
Infant Formula Specialist**

TRAINING & SUPPORT

What's different about us? We actually care.

You can count on our dedicated support team to be available for you when you need us. Nozzle parts are precision high-pressure components. Their proper use, care and maintenance is critical for safe, reliable and quality operation. With over two decades of supplying and supporting spray drying globally, in dairy, protein, flavours, ingredients, pharma and more, we have the experience you can count on.

To assist operators, Spray Nozzle Engineering provides customised tools, training, assembly and disassembly videos, printed guides such as 'Standard Operating Procedure – SOPs' that can be displayed in working areas. Taking care of CLICK&DRY™ equipment significantly increases safety and assists in trouble-free operation.

Got a question? Don't hesitate to reach out.

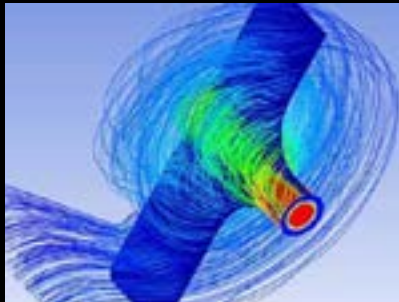
sales@spraydrynozzle.com



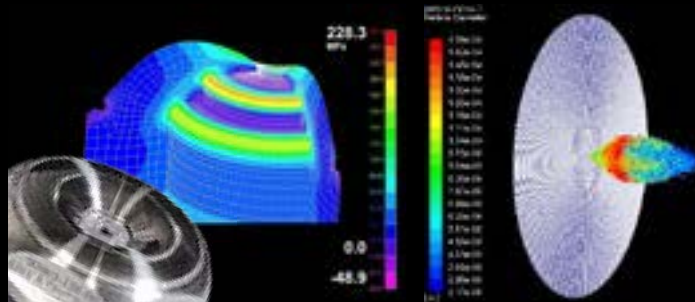
WORLD-CLASS ENGINEERING & TESTING IN-HOUSE

Continuous Innovation - In-House Testing - Technical Support

The CLICK&DRY™ system has been designed, tested and analysed by our in-house engineering team to meet international conventions. Over the past two decades, our continuous research and development can give you confidence that CLICK&DRY™ will exceed expectations. Our team is always here for you to optimise your spray drying operation and production outcome.



CFD technology developed for spray drying helps make us a world leader in design.

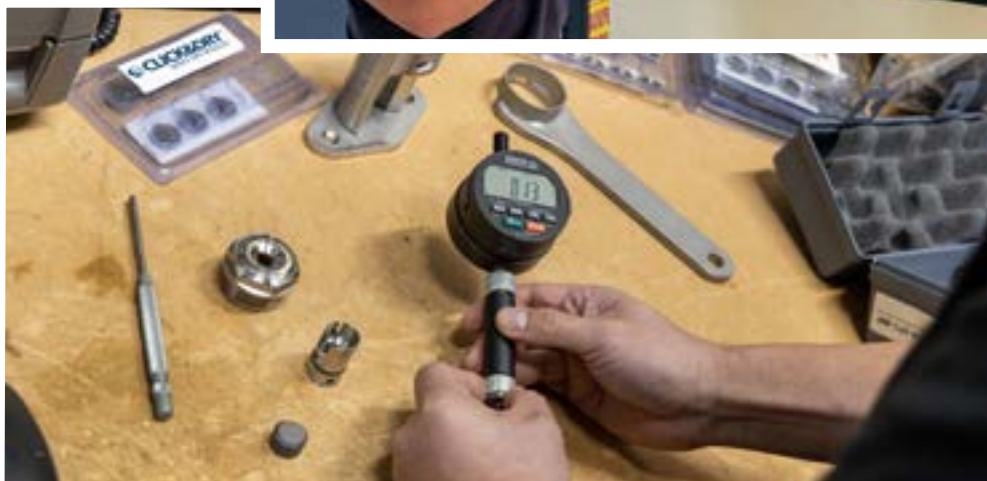


Depicts stress concentrations well within the allowable stress of the material.

Continual droplet testing insures better spray performance and the development of new products for improved powder production.

The Spray Nozzle Engineering advanced spray lab

Our on-site CFD laboratory & Malvern Spray Droplet Analysis










Our in-house quality insurance & testing on both new & field-used products help make CLICK&DRY™ the best spray dry nozzle available today.












09

TOOLS & ACCESSORIES

Stop 'tool to carbide' force / impact contact and costly premature wear part breakage. Our commitment to making your carbide parts last longer, start with reducing unnecessary wear part damage. Our range of tools help operators work efficiently, safely and maintain a clean process.

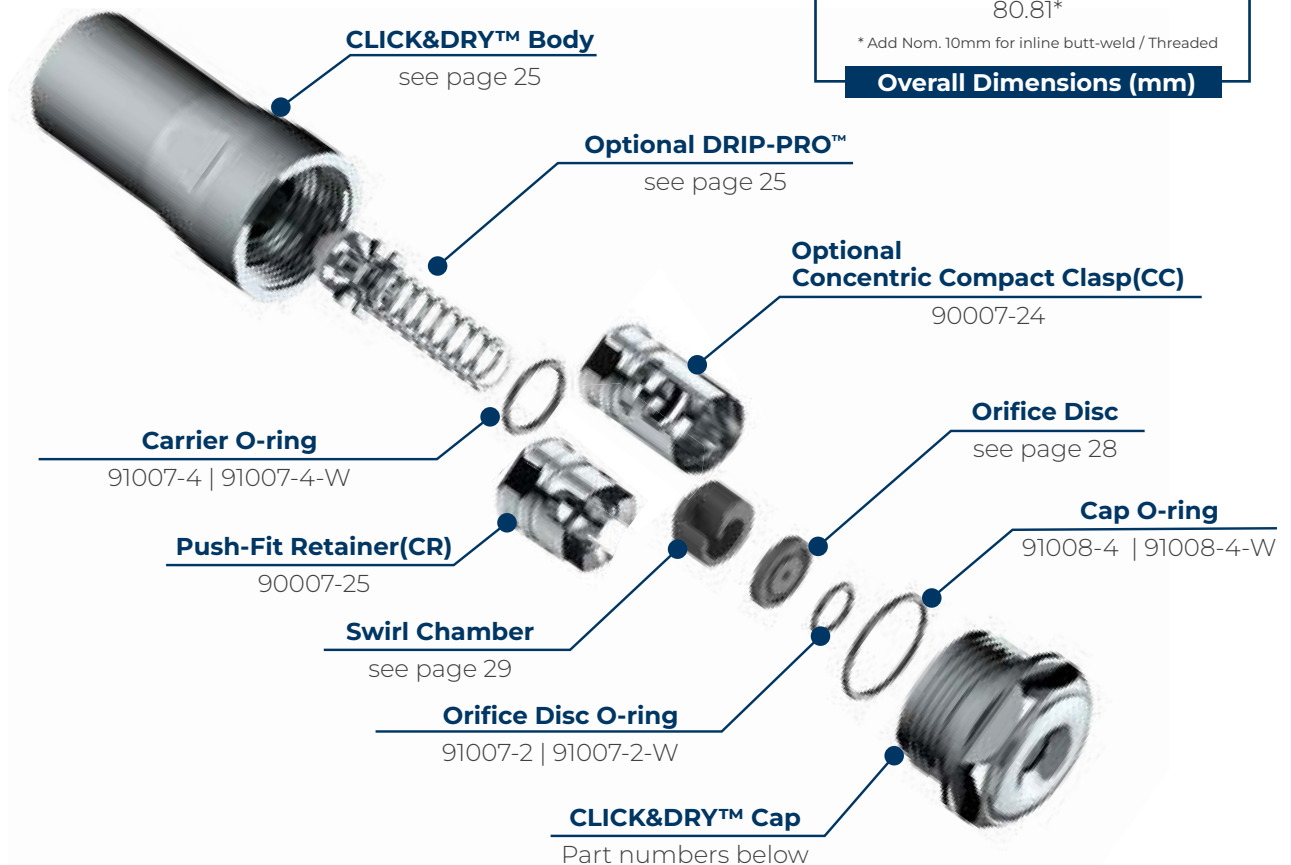
Tools & Accessories	Image	Description	Retainer	Concentric Clasp
Extraction Tool		Adhered wear parts can be removed with a simple twist with no damage to carbide parts, allowing parts to run natural cycles rather than prematurely break.		<input checked="" type="checkbox"/> Non-threaded only
Extraction Pin		Used along with the extraction tool for smart removal without applying force directly to the carbide.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Swirl & Disc Removal Tool		To avoid costly damage and possible fractures when removing the carbide from the Concentric clasp. (Concentric Clasp use only)		<input checked="" type="checkbox"/>
Multi-tool Spanner (Wrench)		An entry level separation tool that can also be used for disassembly of clasp, cap and check valve.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Flat Blade O-ring Removal Pick		Designed to allow removal of all O-rings safely and easily without costly damage to parts.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Reinforced Spanner (Wrench)		Our wrenches allow cap removal after high-pressure lance changes.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
SNE-MOD-130-IMP		Measure and manage the wear of the orifice discs.	Model130 Analog CLICK&DRY™ Orifice Wear Gauge Imperial Reading (.30"-.130") *Other sizes available on request	



Tools & Accessories	Image	Description	Retainer	Concentric Clasp
SNE-SS-QC-CAP-C&D Mini-XXX		CLICK&DRY™ C.I.P. protector with quick connection available in various connection types and sizes	✓	✓
Arbor Press		Custom Arbor Press for extreme adhesion carbide removal applications - consult factory	✓	✓
Assembly SOP Placard		A3 size laminated SOP Placard	✓	✓
Push Cup Tool		This carbide removal tool with soft aluminium pin loosens parts on low adhesion applications only. Designed for push-Fit retainer cap	✓	✓
Stainless Steel Cabinet		Custom stainless steel cabinet with dividers for all your CLICK&DRY™ parts	✓	✓
CLICK&DRY Swirl Gauge		Correctly identify the gauge of your swirls, size identification	✓	✓
Soft Handling Basket		Use the PTFE lined soft handling basket to avoid impact damage and ensure components are properly carried, cleaned and inspected for defects. Custom basket sizes available.	✓	✓
Nozzle Caddy Storage		Store and organise your spray dry parts and accessories.	✓	✓
Ultrasonic Cleaner		Ultrasonic cleaner with timer and temperature control - consult factory for voltage availability	✓	✓
Team O-ring Packs		Team O-ring packs make it easy for your operators to use the correct O-rings and to not miss any. Available in sets for 8 or 10 nozzles. Custom amounts available.	✓	✓

NOZZLE PART GUIDE

COMPACT SERIES



OPTIONAL SOLUTIONS (For heavily adhered component - cooked parts)

Ordering Part No.	Part Description
Contact factory	Threaded Concentric Clasp version of retaining device list below
Contact factory	Threaded Clasp cap version of listed caps below

RETAINING DEVICE

Ordering Part No.	Part Description
90007-25	Push-Fit Retainer (CR)
90007-24	Push-Fit Concentric Clasp (CC)
90007-53	RB Push-Fit Concentric Clasp (RBC)

CAP

Ordering Part No.	Part Description
90001-115	Push Fit Retainer, D profile
90001-117	Push Fit Retainer, F profile
90001-46	Push Fit Clasp, D profile
90001-116	Push Fit Clasp, F profile



BODIES

Inline
Butt-weld



Optional
ultra short
P14.



Angled
butt-weld



Standard
CV

Threaded
inline



Butt-Weld Body / Threaded body*	Body Angle	Ordering Part No.: Long Check Valve (CV)
1/4" Sch 80	0°	90009-79
3/8" Sch 80	0°	90009-81
1/2" Sch 80	0°	90009-93
1/4" Sch 80	45°	90009-62
1/4" Sch 80	45°	90009-38 (Short, non-check valve body)
3/8" BSPF*	0°	90009-101
1/2" BSPF*	0°	90009-98

NOTE: CLICK&DRY™ have made bodies for every dryer and lance configuration, globally. From threaded, welded, quick connect or any others, please contact us for your custom solution. Custom pipe sizes and inlet connections available on request, price on application. Pressure rating may vary depending on pipe schedules used. Spray Nozzle Engineering recommends all welds to bodies be carried out to ASME or equivalent weld and NDT procedures that match your chosen operating and safety margin pressures. Please contact factory for your custom body needs.

O-ring SEALING



Ordering Part No.	Part Description
91007-4	Carrier O-ring Black
91007-4-W	Carrier O-ring White
91007-2	Orifice Disc O-ring Black
91007-2-W	Orifice Disc O-ring White
91008-4	Cap O-ring Black
91008-4-W	Cap O-ring White

CLICK&DRY™ Engineers have pioneered a new level of sealing safety in spray drying. Thanks to our compressive full axial sealing we are able to use standard Viton O-rings for high pressure applications without the need for expensive PTFE backup rings, enabling significant savings in money and delivery times. Other materials such as silicone and full FDA-approved compliance are available upon request.

DRIP-PRO™ CHECK VALVE

Ordering Part No.		Part Description	
Generation 8 Two piece removable stem design		Generation 9 New Uni-body stem & body design	
91003-3	Gen8 - Stem only (two-piece design)	91101-24	Gen9 - Complete Uni-body Check Valve Assembly
91009-24	Gen8 - Body only (two-piece design)	91102-1	Gen9 - Uni-Body Body / Stem with Teflon™ Seal Face
91006-11	Check Valve Spring	91005-2	Check Valve Teflon™ Seal Face

Disclaimer. Always read and follow CLICK&DRY™ standard operating procedure(S.O.P) before using the product. If in doubt contact us at sales@spraydrynozzle.com.

The CLICK&DRY™ nozzle system and components are protected by some or more of the following worldwide Patent Apps./Granted Patents including: AU2010201737, NZ532132, US8596560, EU4251969.4, EU2771123, AU20102622755, EU2442912, NZ597407, US9162235, AU2011244841, AU2022204677, CHZL201280064556, NZ609926, AU2011335883, CHZL201180066275.X, EU2646168, NZ612553, US9579668, AU2021257885, NZ738637, US1573529, EU3653269, HK18112921.9, CH2016800418151, AU2017250007, NZ747204, CH201780029550.8, EU17781634.5, HK19126499.3, US10875046, AU2019413103, BR112021012851-4, CH201980092831.7, EU19901929.0, HK6202104166, IN202117033720, NZ777778, US1741914



NOZZLE PART GUIDE

RETRO-FIT 5 SERIES NON-WELD SCREW-ON

Retro-Fit 5 Cap



Overall Dimensions (mm)

Existing Lance†
(Non-Check Valve)

Carrier O-ring

91007-4 | 91007-4-W

Concentric Clasp (RC)

90007-13-8

Retainer (RR)

90007-22

Swirl Chamber

see page 29

Orifice Disc

see page 28

Orifice Disc O-ring

91007-2 | 91007-2-W

Cap O-ring

91008-5 | 91008-5-W

CLICK&DRY™ Retro-fit Cap*

Part numbers below

RETRO-FIT CAP

Ordering Part No.	Part Description
90001-101	Retro-Fit 5 Push Fit Retainer F profile
90001-102	Retro-Fit 5 Push Fit Clasp F profile

RETAINING DEVICE

Ordering Part No.	Part Description
90007-13-8	Retro-Fit 5 Push Fit Clasp (RC)
90007-22	Retro-Fit 5 Push Fit Retainer (RR)

RETRO-FIT O-ring SEALING

Ordering Part No.	Part Description	Ordering Part No.	Part Description
91007-2	Orifice Disc O-ring Black	91007-2-W	Orifice Disc O-ring White
91007-4	Retaining Device O-ring Black	91007-4-W	Retaining Device O-ring White
91008-5	Retro-fit-5 Body O-ring Black	91008-5-W	Retro-fit-5 Body O-ring White

Disclaimer. *† NOTE: The Retro-fit lance cap* and the Existing lance† shown reflect a common OEM arrangement. Note that a variety of arrangements exist and that Lance Retro-fit Caps* are custom made to suit your particular Existing lance† attachment system. Advise factory your exact body connection requirement, pressure and material. ALWAYS provide a sample of the Existing lance† bodies / caps to verify Retro-fit cap* fit. ALWAYS test Retro-fit cap* fit for sealing function prior to use. Always read and follow CLICK&DRY™ standard operating procedure(S.O.P) before using the product. If in doubt contact us at sales@spraydrynozzle.com.



READY TO ORDER? NEED HELP?

**Request a call or video chat
sales@spraydrynozzle.com**



WEAR PARTS

SEAL-IN-DISC™ (Orifice Disc) pat.

ORIFICE SIZES



Ordering Part No.	Orifice (In.)	Orifice (mm)	Ordering Part No.	Orifice (In.)	Orifice (mm)
TCORL-018	0.018	0.46	TCORL-082	0.082	2.08
TCORL-022	0.022	0.56	TCORL-083	0.083	2.11
TCORL-024	0.024	0.61	TCORL-085	0.085	2.16
TCORL-027	0.027	0.69	TCORL-086	0.086	2.18
TCORL-030	0.030	0.76	TCORL-087	0.087	2.21
TCORL-032	0.032	0.81	TCORL-088	0.088	2.24
TCORL-034	0.034	0.86	TCORL-090	0.090	2.29
TCORL-035	0.035	0.89	TCORL-091	0.091	2.31
TCORL-037	0.037	0.94	TCORL-092	0.092	2.34
TCORL-039	0.039	0.99	TCORL-094	0.094	2.39
TCORL-040	0.040	1.02	TCORL-095	0.095	2.41
TCORL-041	0.041	1.04	TCORL-096	0.096	2.44
TCORL-045	0.045	1.14	TCORL-097	0.097	2.46
TCORL-046	0.046	1.17	TCORL-098	0.098	2.49
TCORL-049	0.049	1.25	TCORL-100	0.100	2.54
TCORL-052	0.052	1.32	TCORL-102	0.102	2.59
TCORL-055	0.055	1.40	TCORL-103	0.103	2.62
TCORL-056	0.056	1.42	TCORL-106	0.106	2.69
TCORL-058	0.058	1.47	TCORL-109	0.109	2.77
TCORL-060	0.060	1.52	TCORL-110	0.110	2.79
TCORL-061	0.061	1.55	TCORL-112	0.112	2.84
TCORL-062	0.062	1.58	TCORL-114	0.114	2.90
TCORL-063	0.063	1.60	TCORL-115	0.115	2.92
TCORL-064	0.064	1.63	TCORL-118	0.118	3.00
TCORL-065	0.065	1.65	TCORL-120	0.120	3.05
TCORL-066	0.066	1.68	TCORL-123	0.123	3.12
TCORL-067	0.067	1.70	TCORL-126	0.126	3.20
TCORL-068	0.068	1.73	TCORL-128	0.128	3.25
TCORL-070	0.070	1.78	TCORL-130	0.130	3.30
TCORL-072	0.072	1.83	TCORL-134	0.134	3.40
TCORL-073	0.073	1.85	TCORL-138	0.138	3.51
TCORL-074	0.074	1.88	TCORL-140	0.140	3.56
TCORL-075	0.075	1.91	TCORL-144	0.144	3.66
TCORL-076	0.076	1.93	TCORL-148	0.148	3.76
TCORL-078	0.078	1.98	TCORL-152	0.152	3.86
TCORL-079	0.079	2.01	TCORL-155	0.155	3.94
TCORL-080	0.080	2.03			

NOTE: Common orifice sizes shown, please contact us for custom sizes.



Wear parts (cont.)

Concentric Hi-Flo Swirl pat.

Full wear part Cert. & traceability available



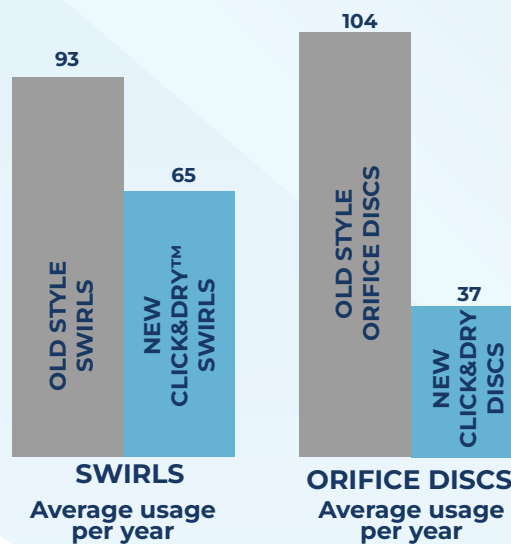
Ordering Part No.	Part Description
90033-1	TC S1 SWIRL 3L CLICK&DRY™
90033-2	TC S2 SWIRL 3L CLICK&DRY™
90033-3	TC S3 SWIRL 3L CLICK&DRY™
90033-4	TC S4 SWIRL 3L CLICK&DRY™
90033-5	TC S5 SWIRL 3L CLICK&DRY™
*90033-5.5	TC S5.5 SWIRL 3L CLICK&DRY™
90033-6	TC S6 SWIRL 3L CLICK&DRY™
*90033-6.5	TC S6.5 SWIRL 3L CLICK&DRY™
90033-7	TC S7 SWIRL 3L CLICK&DRY™
*90033-7.5	TC S7.5 SWIRL 3L CLICK&DRY™
90033-8	TC S8 SWIRL 3L CLICK&DRY™
90033-9	TC S9 SWIRL 3L CLICK&DRY™
90033-10	TC S10 SWIRL 3L CLICK&DRY™

* New mid swirl sizes for BD (Bulk Density) tuning. Contact factory for other options.



Longer Life Wear parts

Wear Part SAVINGS using CLICK&DRY™ CC Clasp & Tools



30% Reduction in Swirl Consumption

67% Reduction in Orifice Disc Consumption

Based on usage in a wide-body dryer - WMP over a six-year period on a 48 Nozzle system.

The CLICK&DRY™ nozzle system and components are protected by some or more of the following worldwide Patent Apps./Granted Patents including: AU2010201737, NZ532132, US8596560, EU4251969.4, EU2771123, AU20102622755, EU2442912, NZ597407, US9162235, AU2011244841, AU2022204677, CHZL201280064556, NZ609926, AU2011335883, CHZL201180066275.X, EU2646168, NZ612553, US9579668, AU2021257885, NZ738637, US1573529, EU3653269, HK18112921.9, CH2016800418151, AU2017250007, NZ747204, CH201780029550.8, EU17781634.5, HK19126499.3, US10875046, AU2019413103, BR112021012851-4, CH201980092831.7, EU19901929.0, HK6202104166, IN202117033720, NZ777778, US1741914



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PERFORMANCE

CLICK&DRY™ FLOW PERFORMANCE DATA - Hollow Cone, 50° to 80° Spray Angles

Ordering Part Number	Spray Angle	Swirl	Orifice (in.)	LITRES PER HOUR @ BAR									
				K factor	15 bar	35 bar	50 bar	70 bar	100 bar	150 bar	200 bar	350 bar	400 bar
CD2-40 CD1-49	75 85	SW2 SW1	.040 .049	11	44	67	81	95	114	140	161	213	228
CD4-34 CD3-40	60 70	SW4 SW3	.034 .040	14	53	81	97	114	137	167	193	256	277
CD5-34 CD4-40	50 65	SW5 SW4	.034 .040	16	62	94	113	133	160	195	226	298	324
CD4-43 CD3-49	65 75	SW4 SW3	.043 .049	18	71	108	129	153	182	223	258	341	359
CD6-37 CD5-40 CD4-46 CD3-55	50 60 70 75	SW6 SW5 SW4 SW3	.037 .040 .046 .055	21	79	121	145	172	205	251	290	384	399
CD6-40 CD5-43 CD4-52	50 60 70	SW6 SW5 SW4	.040 .043 .052	23	88	135	161	191	228	279	322	426	446
CD5-49 CD4-58 CD3-67	60 70 80	SW5 SW4 SW3	.049 .058 .067	25	97	148	177	210	251	307	355	469	517
CD6-46 CD5-52 CD4-61 CD3-70	55 65 75 80	SW6 SW5 SW4 SW3	.046 .052 .061 .070	27	106	162	193	229	273	335	387	512	552
CD6-52 CD5-58 CD4-70	55 65 75	SW6 SW5 SW4	.052 .058 .070	32	124	189	226	267	319	391	451	597	655
CD7-49 CD6-55 CD5-64 CD4-76	50 60 70 80	SW7 SW6 SW5 SW4	.049 .055 .064 .076	37	141	216	258	305	365	447	516	682	724
CD7-52 CD6-61 CD5-70	50 60 70	SW7 SW6 SW5	.052 .061 .070	41	159	243	290	343	410	502	580	767	815
CD7-58 CD6-64 CD5-76 CD4-91	55 65 75 80	SW7 SW6 SW5 SW4	.058 .064 .076 .091	46	177	270	322	381	456	558	645	853	912
CD7-61 CD6-70 CD5-82	55 65 75	SW7 SW6 SW5	.061 .070 .082	50	194	297	355	419	501	614	709	938	1003
CD7-64 CD6-76 CD5-88	55 65 75	SW7 SW6 SW5	.064 .076 .088	55	212	324	387	458	547	670	773	1020	1094
CD8-67 CD7-76 CD6-88 CD5-109	50 60 70 80	SW8 SW7 SW6 SW5	.067 .076 .088 .109	68	265	404	483	572	684	837	967	1280	1374
CD8-76 CD7-85 CD6-103	50 65 75	SW8 SW7 SW6	.076 .085 .103	82	318	485	580	686	820	1010	1160	1540	1647
CD8-82 CD7-97 CD6-115	55 65 75	SW8 SW7 SW6	.082 .097 .115	96	371	566	677	801	957	1170	1350	1790	1900



PERFORMANCE TABLE (cont.)

CLICK&DRY™ FLOW PERFORMANCE DATA - Hollow Cone, 50° to 80° Spray Angles

Ordering Part Number	Spray Angle	Swirl	Orifice (in.)	LITRES PER HOUR @ BAR									
				K factor	15 bar	35 bar	50 bar	70 bar	100 bar	150 bar	200 bar	350 bar	400 bar
CD9-82	50	SW9	.082	109	424	647	773	915	1090	1340	1550	2050	2177
CD8-91	60	SW8	.091										
CD7-106	70	SW7	.106										
CD6-127	80	SW6	.127										
CD9-88	50	SW9	.088	123	477	728	870	1030	1230	1510	1740	2300	2475
CD8-100	60	SW8	.100										
CD7-118	70	SW7	.118										
CD6-142	80	SW6	.142										
CD9-94	55	SW9	.094	137	530	809	967	1140	1370	1680	1930	2560	2706
CD8-106	65	SW8	.106										
CD7-127	75	SW7	.127										
CD9-106	55	SW9	.106										
CD8-121	65	SW8	.121	160	618	944	1130	1340	1600	1950	2260	2980	3216
CD7-145	75	SW7	.145										
CD10-103	50	SW10	.103										
CD9-115	60	SW9	.115										
CD8-133	70	SW8	.133	182	706	1080	1290	1530	1820	2230	2580	3410	3607
CD10-118	55	SW10	.118										
CD9-127	60	SW9	.127										
CD8-145	70	SW8	.145										
CD9-136	65	SW9	.136	228	883	1350	1610	1910	2280	2790	3220	4260	4551
CD8-157	75	SW8	.157										
CD9-148	65	SW9	.148										
CD10-136	60	SW10	.136										
CD9-154	70	SW9	.154	274	1060	1620	1930	2290	2740	3350	3870	5120	5327
CD10-151	60	SW10	.151										
CD10-157	65	SW10	.157										
CD10-157	65	SW10	.157										

$$\text{FLOW RATE (LPH)} = K \sqrt{\text{BAR}}$$

Standard Materials: 'Low Thread Gall' Stainless Steel, Tungsten Carbide. Other Materials & Sizes Available on Request.

NOTE: All data shown as a guide only. Data based on water flow. Always consult factory.

STATIC RADIAL O-RING SEALING STANDARDS AND PRESSURE LIMITS

- Parker Hannifin Corp. USA - The O-ring Hand Book #5700, section (4)-2
- The Australian O-ring Standard #AS2842, appendix A, page 22
- Deutsche Norm DIN #37771 part 5, page 1, section 2: sealing configurations
- ISO 6162, ISO 6164
- Japanese JIS B2406 section 2.1.2, Clearances (GAPS)

TIPS

Know your safer sealing pressure requirement. Scan or click for a copy of the 10 facts spray nozzles design for safety.



The CLICK&DRY™ nozzle system and components are protected by some or more of the following worldwide Patent Apps./Granted Patents including: AU2010201737, NZ532132, US8596560, EU4251969.4, EU2771123, AU20102622755, EU2442912, NZ597407, US9162235, AU2011244841, AU2022204677, CHZL201280064556, NZ609926, AU2011335883, CHZL201180066275X, EU2646168, NZ612553, US9579668, AU2021257885, NZ738637, US1573529, EU3653269, HK18112921.9, CH2016800418151, AU2017250007, NZ747204, CH201780029550.8, EU17781634.5, HK19126499.3, US10875046, AU2019413103, BR112021012851-4, CH201980092831.7, EU19901929.0, HK6202104166, IN202117033720, NZ777778, US17/41914



SPECIAL & CUSTOM NEEDS

OUR TEAM INCLUDES YOU

Seeing a clear need for a safer spray dry nozzle is what set us on this journey over two decades ago. Along the way to developing a safer nozzle, we discovered many other improvements that should be made. While working alongside some of the best spray dryer operators and listening and witnessing their issues, we designed and engineered the Click&Dry™ system. Our team started humble but has now grown to a world-class group of on-site experts. Our offices have bloomed into full-fledged engineering and R&D labs complete with computational analysis tools and testing facilities. We are always available to help you improve and be your partner in powder production.

To the Spray Drying Community,

Right away our customers comment on our team's professional support and hands-on knowledge. We'll guide you or your clients to trouble-free powder production. From a spray dryers commissioning or nozzle upgrading, we make ourselves available to end-user and OEM's for any guidance.

We also want to ask, why are all other spray dry nozzles the same? Spray Dryer technology has evolved to be safer and more efficient, but nozzles have not. Most other spray dry nozzles are just copies of each other, based on 40-year-old designs that are made to be disposable. Through a lot of listening and R&D, Click&Dry™ has improved the technology while using international conventions. On the subject of sustainability, we say it begins with a design that's built to last and doesn't break in the first place.

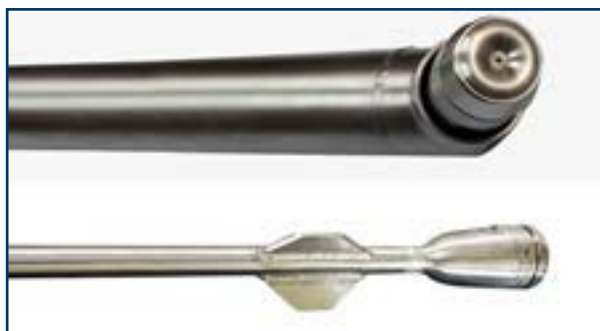
CUSTOM NOZZLE BODIES



Custom Multi-Head Nozzle Clusters



(Left) Shut off with safety lanyard (Right) QC-Quick Connect



(Top) Spray Lance Adaptors (Bottom) Weld bodies



Code compliant and fit-for-purpose long life design

For 15+ years Spray Nozzle Engineering has fabricated custom pipe work & spray lances/bars to international codes like ASME, to meet customer requirements. From materials including 316 to Duplex, we have a solutions for you.

CUSTOM LANCES

For precision coating of Lecithin, Vitamins, oils & More

- Customised spray lances to suit your coating application and equipment
- Concentric (fully-enclosed) hygienic design
- Inline, right-angle, retractable or fixed
- Designed to order or retro fitted
- Flow rates and spray patterns to meet your coverage requirements
- Air assisted & pressure atomizing options
- Full stainless steel construction



Interchangeable nozzles give you precise application.

Let us make it easy for you:

sales@spraydrynozzle.com

SAFER DRYER CHAMBER C.I.P.

by Spray Nozzle Engineering

Reduce trip hazards & hose replacement costs | Control rewind speeds

C.I.P. Reels Bulk Delivery Custom Applications

Reduce large diameter hose handling injuries
associated with manual C.I.P. hose

Full stainless steel hub & swivels
Gearbox
fitted with safety torque arm
Optional remote control upgrade

Our largest automated tank cleaning machines are designed to effectively clean tanks up to 61 metres in diameter & suit many industrial applications. *Contact us for Other available sizes.



SAFETY & EFFICIENCY

- Increased employee safety through less manual handling ***please refer to REEL TECH™'S 10 facts of hose reel safety**
- Motorised operator controlled rewind speed prevent against damage to the spray dryer & other plant assets
- Rolled stainless steel solid disc to reduce risk of injury

FEATURES

- Full Stainless Steel hub & swivels
- Hose sizes (I.D) to suit or standard 2", 2-1/2" & 3"
- Welds to food grade standards
- Roller assembly constructed of stainless steel & Teflon bearings
- Sanitary hoses & fittings
- Current resources / technology using dairy best practice standards

REEL TECH is a Spray Nozzle Engineering Div.

Custom roller positions
To suit all dryer types

SS safety lanyard
Reel cleaning head standard

Gearbox drive
For safer rewind speeds

Small dryers
Reels available



CONDITIONS

* Included CLICK&DRY™ systems for breakage cover

CLICK&DRY™ Systems that shall qualify for '2-Year No Wear Part Breakages' must include Easy-Out CCT Clasp option (Retro-fit CCT Clasp and Retainer Systems are not included in this offer). User must provide evidence of continued use of CLICK&DRY™ Easy-Out CCT Clasp Tool range (Extraction Tool, Multi-Tool, and Bench Mount and Swirl Removal Tools). Offer excludes the use of Soft Removal Push Tool or any similar push tool or unauthorised tools. Offer is only valid for end users of CLICK&DRY™ compact nozzle caps with seal face protection skirt and large anti-galling thread system. User must provide evidence of continued use of CLICK&DRY™ cap wrench and multi-tool clasp spanner.

* Included CLICK&DRY™ systems for wear part cover

CLICK&DRY™ Systems that shall qualify for '1-Year Wear Cover' must include all CCT Clasp and Easy-Out CCT Clasp option (Retainer Systems are not included in this offer). User must provide evidence of continued use of CLICK&DRY™ relevant tools (Extraction Tool, Multi-Tool, and Bench Mount and Swirl Removal Tools). The use of Soft Removal Push Tool voids guarantee unless used only with Retro-fit CCT Clasp. Offer excludes the use of any similar push tool or unauthorised tools.

Offer Limitation

This offer may not be available in conjunction with any other special supply offers. Offers subject to change. Consult factory for offer details before purchase. The customer is fully responsible for the ongoing operation and operational cost of their plant during any guarantee claim process. This includes ensuring adequate inventory at the customer's cost of any CLICK&DRY™ component for continued plant operation.

DEFINITIONS

^ Breakage:

Breakages shall be defined as any cracks, fractures, fragmentation or separated portions visible to the naked eye that would render wear part totally unusable. This does not include normal wear.

Normal operational wear tolerances

For the purpose of qualifying wear replacement in this guarantee, normal operational wear shall be wear attributed to pressure erosion only (not chemical action) and shall be wear as measured on each individual component that would increase flow at a given pressure by more than 5%.

Disclaimer: This is not a statement of allowable wear for your application. Every user must determine their own level of maximum allowable wear.

Commissioning set

The minimum quantity of components subject to the above mentioned guarantee, required for the total number of lances in the dryer operable at one time, at commissioning of the dryer, excluding spares.

** Replacement:

New replacement components will only be supplied where deemed qualified and approved for such replacement under this guarantee. Replacement assessment process will commence on receipt of goods in question. Replacement is only applicable for CLICK&DRY™ parts. Replacement guarantee does not include installation, fabrication, certification and shipping costs. Supplied parts shall be exchanged only.

Proof of purchase is required at redemption. Excluding any cost of removal, installation or freight of components.

Terms and conditions are subject to change without notice.

Consult factory for details.

Teflon™ & Viton™ are registered trademarks of DuPont™

ADDITIONAL RESOURCES:

- Application Intake sheet spraydrynozzle.com/spray-dry-application-sheet
- Technical inquiries? Use sales@spraydrynozzle.com





SprayNozzleENGINEERING

Total Spraying Solutions

The name behind CLICK&DRY™

spraynozzle.com

■ INTERNATIONAL

Spraydrynozzle.com

sales@spraynozzle.com

■ NEW ZEALAND – PACIFIC RIM

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sales@spraydrynozzle.com

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