

# Aircraft Lubrication Tools

Ridair/Brema is a Dutch manufacturer and supplier of lubrication tools for the aircraft industry since 1954. Our extensive program of lubrication tools ranges from standard Lincoln Industrial lubrication equipment to special fabricated lubrication needles for specific types of aircraft. This brochure is a brief overview of our selected and specialized manual lubrication tools for the aircraft industry.

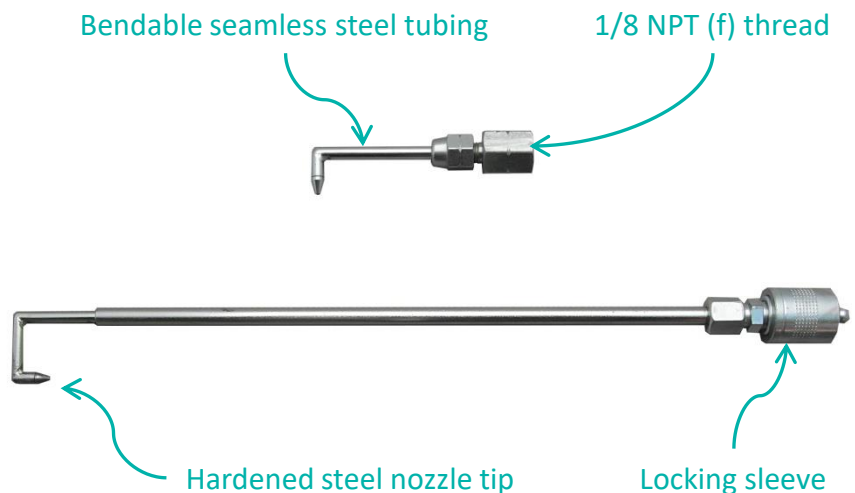
## Lubrication needle nozzles

In aircrafts many grease points are of flush type, countersunk in the construction. These flush type grease points can't be lubricated with a standard hydraulic coupler, and a special lubrication needle nozzle is needed. Ridair/Brema produces specialized needles to access these easily, and parallel to our standard program we can even produce any special type of needle nozzles at your request.

Our first lubrication needles were originally developed for Fokker aircraft but now widely used by our customers for lubrication of their fleets, from large Boeing 777 to small Embraer 190.

Our lubrication needles are constructed of bendable seamless steel tubing and fitted with a hardened steel nozzle tip.

Depending on the type the needle nozzles are fitted with a 1/8 NPT (female) thread or a locking sleeve.



## Needle nozzles short

*fitting type FLUSH*



- **5803X**, straight, length 72,5 mm, needle  $\varnothing$  4 mm, connection 1/8 NPT(f)



- **5803XA**, 90° angle, length 67 mm, needle  $\varnothing$  4 mm, connection 1/8 NPT(f)



- **5803XB**, 30° angle, length 81 mm, needle  $\varnothing$  4 mm, connection 1/8 NPT(f)



- **5803L**, 90° angle, length 67 mm, needle  $\varnothing$  4 mm, connection locking sleeve

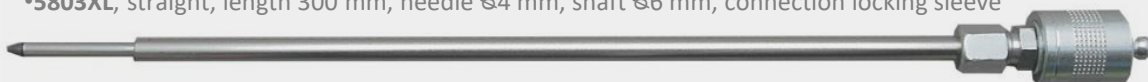


## Needle nozzles long

*fitting type FLUSH*



- **5803XL**, straight, length 300 mm, needle  $\varnothing$  4 mm, shaft  $\varnothing$  6 mm, connection locking sleeve



- **5803XLA**, 90° angle, length 295 mm, needle  $\varnothing$  4 mm, shaft  $\varnothing$  6 mm, connection locking sleeve



- **5803XLB**, 30° angle, length 295 mm, needle  $\varnothing$  4 mm, shaft  $\varnothing$  6 mm, connection locking sleeve



- **5803XLJ**, 180° angle, length 295 mm, needle  $\varnothing$  4 mm, shaft  $\varnothing$  6 mm, connection locking sleeve



## Extension tubes

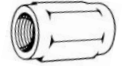
Extension tubes used to connect a needle nozzles or hydraulic couplers to a grease gun. The extensions are produced from heavy-wall steel tubing. Length and angles below are standards, any alternative version can be manufactured at request.

- **67020X**, straight, length 6",  $\varnothing$  10 mm, connection 2 x 1/8 NPT(m)



- **67063**

2 x 1/8 NPT (f)  
coupling



- **62028X**, 30° angle, length 6",  $\varnothing$  10 mm, connection 1/8 NPT(m)



- **10130**

2 x 1/8 NPT(m)  
nipple



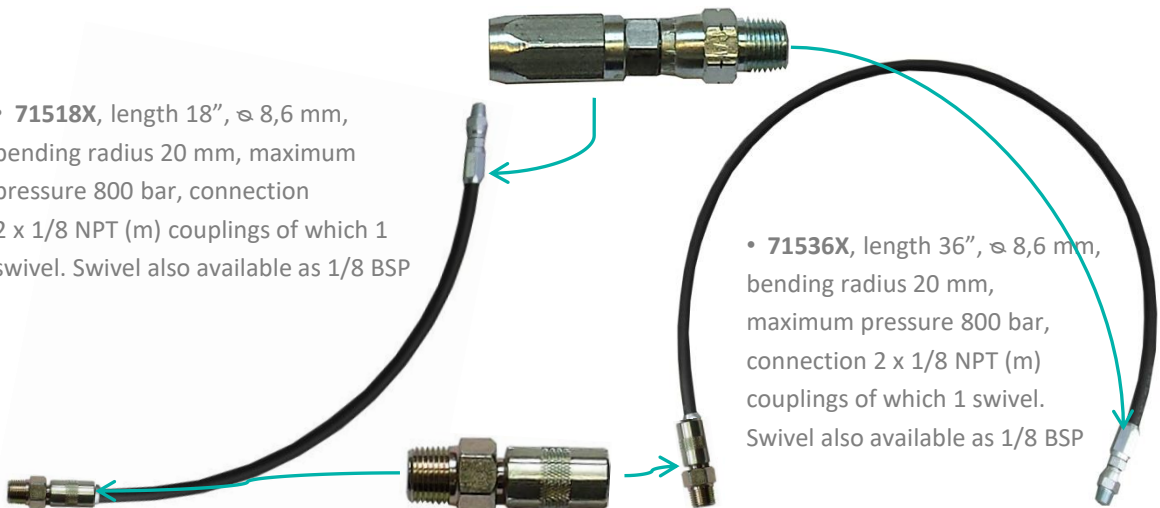
- **62061X**, 30° angle, length 12",  $\varnothing$  10 mm, connection 1/8 NPT(m)



## Extension hoses

Extension hoses used to create a flexible connection between a needle nozzles or hydraulic couplers to a grease gun. The extension hoses are produced from highly flexible high pressure hose with a minimum bending radius of 20 mm, and maximum burst pressure of 800 bar. Both ends are fitted with a 1/8 NPT swivel coupling. Standard hoses are 18" and 36", any required length can be delivered at request. These flexible hoses allow you to have easy access to these difficult to reach lubrication points, the swivel coupling avoids twisting forces on the hose.

- **71518X**, length 18",  $\varnothing$  8,6 mm, bending radius 20 mm, maximum pressure 800 bar, connection 2 x 1/8 NPT (m) couplings of which 1 swivel. Swivel also available as 1/8 BSP



- **71536X**, length 36",  $\varnothing$  8,6 mm, bending radius 20 mm, maximum pressure 800 bar, connection 2 x 1/8 NPT (m) couplings of which 1 swivel. Swivel also available as 1/8 BSP

## Special adapters

- **22450602X**, special adapter for Lincoln Powerluber battery grease guns, connections 7/16-28(m) to 1/8 NPT(m). For connecting a standard hydraulic coupler directly to a grease gun head.
- **82570602X**, special adapter for Lincoln Powerluber battery grease guns, connections M12x1(m) to 1/8 NPT(f). For connecting a standard 1/8 NPT bajonet filler nipple directly to a grease gun head (Brass)
- **82570603X**, special adapter for Alemite 596 battery grease guns, connections UNF 7/16-20(m) to 1/8 NPT(f). For connecting a standard hose directly to a grease gun head.
- **67063**, 2 x 1/8 NPT (f) coupler.
- **10130**, 2 x 1/8 NPT(m) nipple.
- **22450202X**, 1/8-28 BSP(m) x 1/8-27 NPT(m)
- **82570202X**, 1/8-27 NPT(m) x 1/8-28 BSP(f) (Brass)

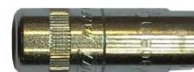


## Special hydraulic couplers

*fitting type ZERK*



- **519NRX**, straight, length 40 mm,  $\varnothing$  15 mm, connection 1/8 NPT(f)  
high quality hydraulic coupler with built-in ball check
- **51590NRX**, 90° angle, connection 1/8 NPT(f), heavy duty special access  
hydraulic coupler for tight locations, access height 35 mm
- **G320X**, 90° angle, connection 1/8 NPT(f), coupler for tight locations,  
access height 29 mm





## Hydraulic couplers

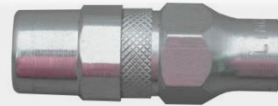
*fitting type ZERK*



- **5852**, straight, length 38 mm,  $\varnothing$  14,6 mm, connection 1/8 NPT(f) standard Lincoln hydraulic coupler with built-in ball check, up to 6000 psi



- **5845**, straight, heavy duty, length 53 mm,  $\varnothing$  17,7 mm, connection 1/8 NPT(f), Lincoln heavy duty hydraulic coupler with built-in ball check, up to 7500 psi



- **51590X**, 90° angle, connection 1/8 NPT(f), heavy duty special access hydraulic coupler for tight locations, access height 35 mm



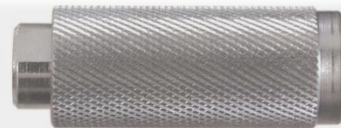
- **G320**, 90° angle, locking sleeve connection, budget Lincoln coupler for tight locations, access height 29 mm



- **5883**, 90° angle, connection 1/8 NPT(f), special access coupler for extremely tight locations, access height 8 mm, up to 1000 psi



- **81980**, heavy duty locking sleeve for connecting any 1/8 NPT (m) extension to an hydraulic coupler



## Grease guns, manual

- **1142**, heavy duty lever type grease gun with ridged extension and 5852 coupler, the first choice of manual grease gun globally. Can be used with and without cartridges



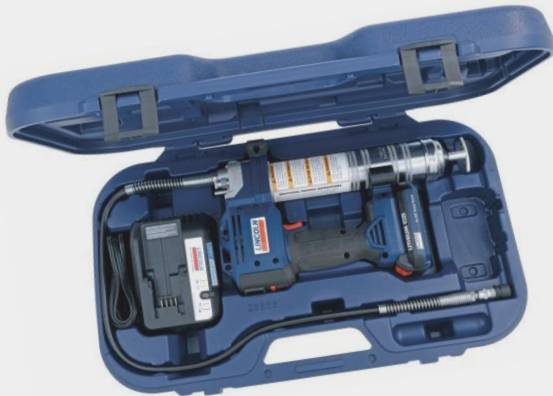
- **1133**, heavy duty pistol type grease gun, with extension hose and 5852 coupler. Can be used with and without cartridges





## Grease gun, battery powered

- 1868E, Li-Ion 20V battery powered grease gun, with LCD display that measures grease output, cartridge level, charge level and more. LED flash light, 2 speeds with high pressure low volume or low pressure high volume. Delivered in case with 36" hose, Li-Ion battery and EU-charger (EU version for 230VAC).



## Lubrication sets

Ridair/Brema delivers customer specific lubrication sets, supplied in cases with foam interiors, which can be numbered for tool control purposes.



Toolkits M & XL.



Ridair/Brema is a Dutch trading and engineering company with a strong background in aviation since 1954, we supply and develop lubrication solutions to aircraft manufacturers and airlines. With over half a century of experience in aviation we can help you solving your lubrication issues, by means of advice or development and production of specific lubrication needles or couplers for that hard to reach lubrication nipple.

Ridair/Brema is since 1956 an importer and distributor of Lincoln Industrial for The Netherlands. Lincoln Industrial is the well known USA manufacturer of lubrication tools and systems, being at the forefront of lubrication engineering. The 1142 lever grease gun of Lincoln is an example of this, being recognized as the industry standard for performance and value..... The first choice of mechanics everywhere.



If you have a specific lubrication issue,  
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Your lubrication needle distributor: