



IndustrialTools



A.D.U
(Advanced Drilling Units)



More Than Productivity



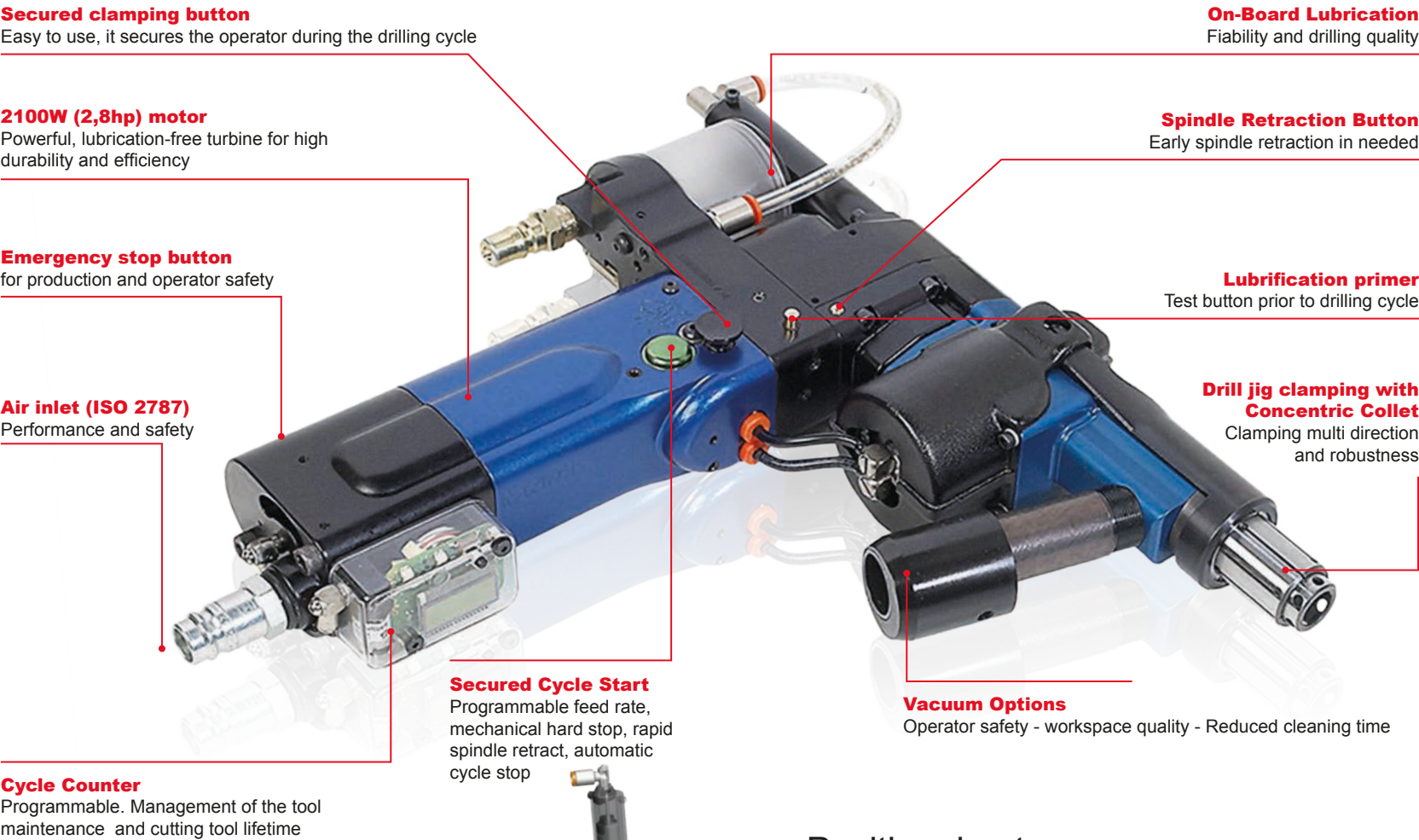
ADU - Seti-Tec Line Advanced Drilling Units

This product range is dedicated to **drilling, reaming, spot facing and countersinking** operations with high requirements of quality, accuracy and repetability. Designed for the aerospace industry, performance is as well appreciated in the general industry for high-end applications. Its cutting edge technology and advanced technical capabilities makes one-shot drilling , reaming and countersinking operations possible and achieving perfect holes with the same motor and cutting tools, cutting down time and cycle time.

With **2100 Watt (2,8hp)** of power, and with an **unmatched power to weight ratio in a very compact tool**, they can be used on a wide variety of locking mechanism (drill jigs, locking on prehole...) with a wide variety of equipemnts (Concentric collets, 1/4" Turn / Bayonet, Template Feet, C-clamp...). This modular system offers you a great flexibility for holes **up to 25mm (2") diameter, with tolerances as tight as 0,02mm (0.0001")** in diameter

User Benefits

- ➔ **Modular, accurate and innovative tool**
Based on a Modular architecture, they've been designed to offer advanced performances (automatic cycle, on-board lubrication...) as well as tight tolerances (0,02mm (0.0001") tolerances).
- ➔ **Easy retrofit**
They can easily be retrofitted should you modify your production station or decide to reaffect your tool to a different workstation.
- ➔ **Great ergonomy**
Light and compact, they are easily positionned on the drill jigs. They are the right answer to your applications with limited accessibility.
- ➔ **Low consumption and noise level**
Powered by a highly performance pneumatic turbine, with highly reduced noise and consumption level.
- ➔ **Best power to weight ration on the market**
2100 Watts (2,8hp) for a weight of 1.5kg to 3.5kg (3.3lb to 7.7lb) (without equipment).
- ➔ **Customized solution**
Clamping options , angle or straight version, programmable cycle counter, on-board or external lubrication driven through the cutter, integrated micropeck.



Predefinition tool

Drilling, reaming, countersinking diameter. Material Stack

Existing cutting tool? Type of attachment, existing drawing?

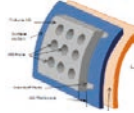
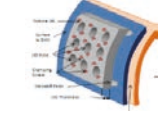
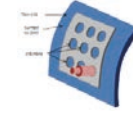

Definition of clamping mechanism, accessibility, formalize various technical requirements

Dedicated project management, with specific definition tooling (Contact your Desoutter representative for assistance)

Clamping types

Positioning system on jig						
Concentric collet	1/4 turn Bayonet	Croco Clamp	Jack Clamp	Crowfoot	Template foot	Clocker
						

Positionning types

Drill jigs				
	Thick drill jigs	Thick jig with rail or screws	Thin jigs	Template jigs or No jig (pre-hole)
Concentric collet	✓			
1/4 turn Bayonet		✓		
Croco Clamp			✓	✓
Jack Clamp			✓	✓
Crowfoot		✓		
Template Foot			✓	✓

Concept

Following the clamping on the drill jig or tool positioning, simply press the start button to launch your drilling cycle (rotational speed, feed rate, vibration mode, stroke, lubrication). Once the cycle is over, the cutting tool retracts at fast speed back to its original position, and the tool stops automatically. You can mechanically set-up the extreme positions of the cutting tool. The tools are equipped with a button to stop the cycle, a secured button to lock on the drill jig and a button to retract the spindle before the end of the defined stroke.

OPTIONS: programmable cycle counter, micropeck system, onboard or external lubrication

Range

Rotation speed and feed rate

ST 1200					ST 2200				
Spindle rotation speed (rpm)	Droite	Angle	Feed rate	Mm/tr	Spindle rotation speed (rpm)	Droite	Angle	Feed rate	Mm/tr
	14054	11835		0,01		2919	2195		0,047
	9713	8179		0,021		2560	1925		0,059
	7770	6543		0,038		2017	1517		0,095
	5550	4674		0,058		1770	1331		0,12
	3514	2959		0,077		1614	1214		0,146
	2811	2367		0,095		1416	1065		0,182
	2428	2045		0,115		1216	915		0,2
	2008	1691		0,154		1187	892		Precision of drilling and countersinking 0,02 mm
	1943	1636	Precision of drilling and countersinking 0,02 mm	949		714			
	1554	1309		841		632			
	1388	1168		730		549			
	1110	935		672		506			
	878	740		640		481			
	793	668		584		439			
	703	592		512		385			
	562	473		429		323			
	502	423		343		258			
	402	338		304		229			
	287	242	243	183					
	1388	1168	174	131		Weight (without equipment) 1,85 Kg			
	1110	935	Weight (without equipment) 1,85 Kg	Power 2100 Watts			Weight (without equipment) 3,2 Kg		
	878	740							
	793	668							
	703	592							
	562	473							
	502	423							
	402	338							
287	242								
Precision of drilling and countersinking 0,02 mm					Precision of drilling and countersinking 0,02 mm				
Power 2100 Watts					Power 2100 Watts with high torque				
Weight (without equipment) 1,85 Kg					Weight (without equipment) 3,2 Kg				
Stroke: Unlimited					Stroke: Unlimited				

Recommandations depending on diameters and materia

Recommandations depending on diameters and material

Drilling/reaming diameters	Aluminium or Composit	Titanium	Aluminium or Composit	Titanium
mm/inches	Drilling		Drilling - Countersinking	
Up to 4,8 mm - 3/16"	ST 1200	ST 1200	ST 1200	ST 1200
Up to 12,7 mm - 1/2"		ST 2200	ST 2200	ST 2200
Up to 14,3 mm - 9/16"				
Up to 15,9 mm - 5/8"				
Up to 19,05 mm - 3/4"				
Up to 25,4 mm - 1"				

Watch the video



More on SetiTec



Contact your **Desoutter** representative for assistance in specifying your ADU or visit www.desouttertools.com



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