

DropsA

Lubrication Systems Specialists



VIP Air 4.0

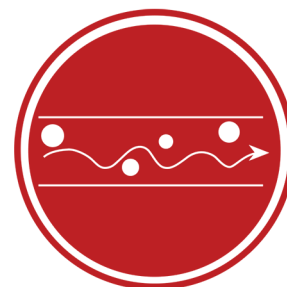
Air/oil micro lubrication

www.DropsA.com

VIP Air 4.0

IoT Lubrication for industry 4.0

DropsA



Description

The VIP AIR 4.0 is an advanced fully inclusive compact multi-point Air-Oil micro lubrication that can be used for spindle bearing or spray applications. The granular point control offered by the VIP AIR 4.0 and the advanced diagnostic sensor in line with Industry 4.0 manufacturing means it can address the most diverse application requirements straight out the box using an off-the-shelf solution.

Minimal Air/Oil lubrication

Minimal Air/Oil lubrication was designed to replace traditional cooling systems and pure oil flood systems in machining environments with a controlled compressed air stream that carries minimal quantities of oil for **micro-lubrication of high-speed spindles**.

Traditional systems use excessive amount of oil to ensure the effective operation of the entire system.

Get maximum level of control of lubrication cycle

VIP AIR 4.0 solves these challenges thanks to a superior control of lubricant supply.

The main module can manage **independently** up to 4 mixing bases (**8 dosing mini-pumps**), that inject micro quantity of lubricant into the air stream at regular intervals and with maximum level of precision.

In this way, it is possible to have a high control for each lubrication point. The system can operate in **2 ways**:

- A **completely autonomous**, which allows a stand-alone installation with remote diagnostics via **IO-Link** and **IoT**.
- One in **IO-Link mode**, for the management of the entire product remotely via PLC.



Vip Air 4.0 - 2LT

Vip Air 4.0- 3LT



Vip Air 4.0 - RM



Vip Air 4.0 S Module



Control and increase the spindle life-cycle with the innovative system for Air/Oil micro-lubrication



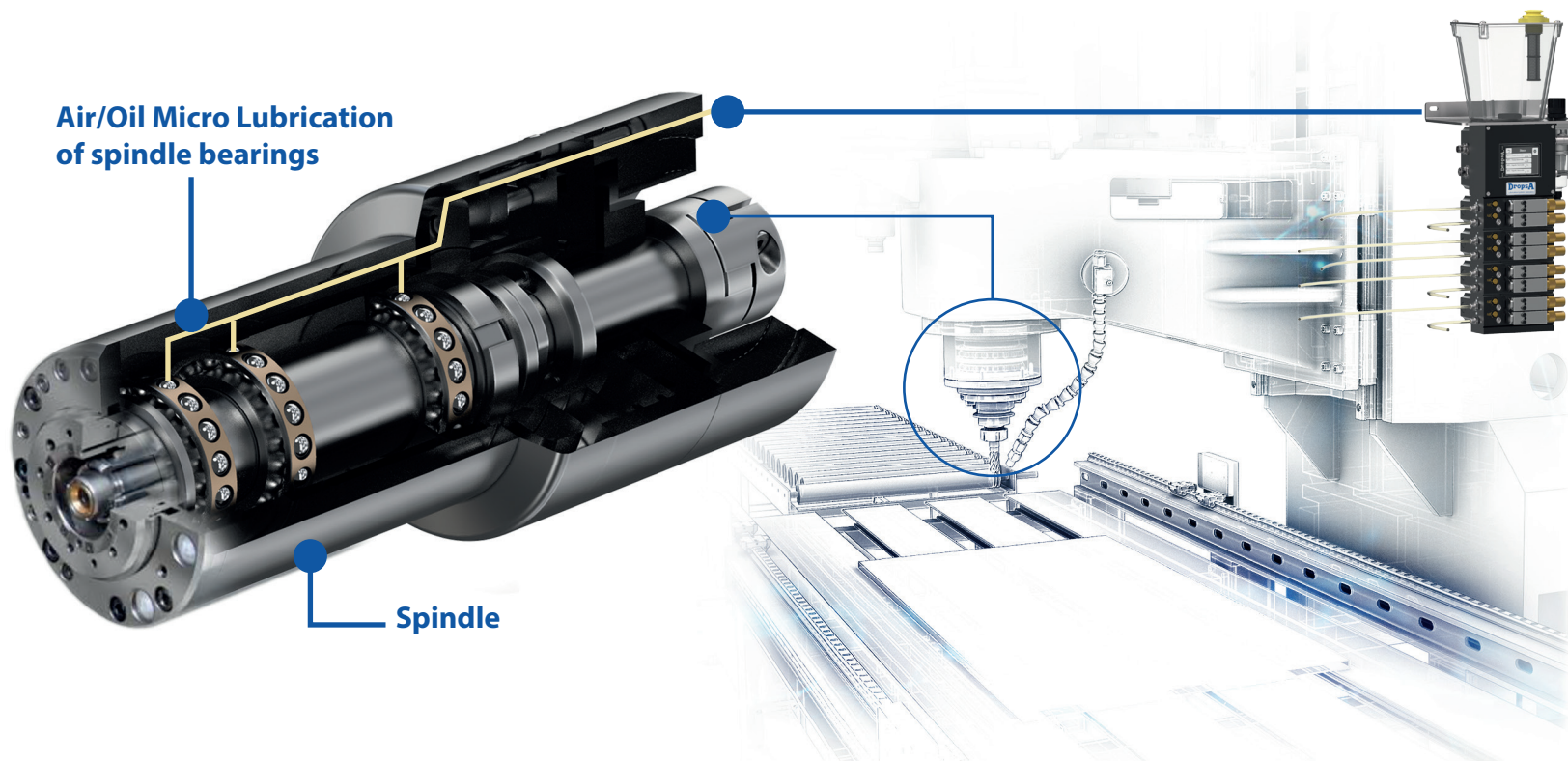
IoT touch 4.0

IoT and 4.0 combined brings you advanced diagnostic and connectivity.

VipAir4.0 is a smart device that can connect via Wi-Fi to our data Logging and system condition monitoring service (DRUCS.net). This allows users to be alerted automatically when conditions start to deviate from normal operations via email or phone APP including push-notification.

Easy setup and diagnostic can be done using the App and Bluetooth connection. User can easily save and load template configuration. Complicated numerous parameter setup takes a matter of seconds locally or remotely.

ADVANTAGES



Air/Oil Micro-lubrication up to 8 points

Possibility to choose up to **8 micro-pumps**, for a modular and scalable system that adapts to machinery requirements.

Each module can be managed **independently**, and is equipped with sensors and controls for **IO-Link** communication.



VIP AIR 4.0



VIP4 AIR

Micro-lubrication of high-speed spindle

Easy to install directly on the machine, **VIP AIR 4.0** injects calibrated **micro-quantity of Air/Oil** directly on the sliding surface of the spindles bearings that operate at high speed.

These components operate at high speeds, and the precise application of **mini-mum quantities of lubricant** is a key requirement to ensure the correct operation and extend the operating cycle.

	VIP AIR 4.0	VIP4 AIR
N°mini-pumps	Up to 8	Up to 8
Independent Oil flow adjustment	✓	✓
Confirm volumetric Oil flow for each outlet	✓	✓
Independent Air pressure monitoring	✓	✗
Independent Oil frequency control	✓	✗
Independent air control	✓	✗
IO-Link communication	✓	✗
IoT connectivity	✓	✗
Integrated multifunction touch-screen display	✓	✗
Continuous level	✓	✗