

POWER ON DEMAND *An Energy-Saving Solution*

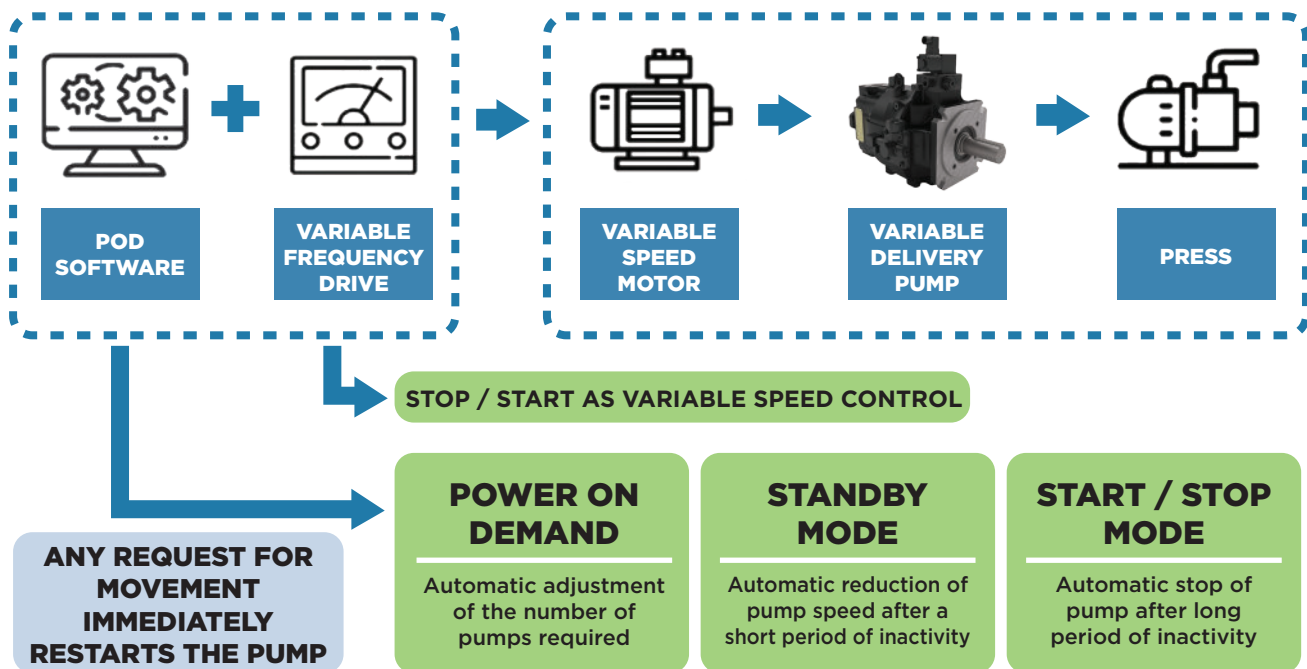
PRODUCE MORE with Less Energy Consumption

KEY BENEFIT

- Addition of a variable frequency drive to a production line & a new algorithm for operations management
- Smart use of e-motors & pumps/distribution of power for production
- Adjustment of operating speed optimizing processes energy saving, increased production output, and/or improved performances!

HOW SAVINGS ARE PRODUCED

ACTION	SAVINGS	HOW
1. Switch off pumps, if not in use	10kW / per 540cc Pump	Pump stopped vs. unloaded
2. Efficient extrusion press cycle main pump	5-20%	Lower RPM = Higher stroke = Efficient pump under pressure
3. Increased efficiency for auxiliary pump	3-10 %	Reduce RPM during extrusion = higher stroke = efficient pump under pressure
4. Efficient boost pump	10-25 %	Increase/decrease RPM to match real flow needed by active main pumps
5. Sorter dead cycle and pressure build up	Production Increase	Higher RPM = 10-20% higher flow = higher speed/DCT reduction -> and better pressure build up management



REAL WORLD IMPLEMENTATION POWER ON DEMAND **24 MN (2400 T) EXTRUSION PRESS**



PRODUCTS & SERVICES

- 3 x PVV250 VM servos + 45kW Boost pump
- Replacement high eff. IE3 E-motors 200kW
- Inst. of 200kW/45kW variable speed drives
- Full POD (POWER ON DEMAND)
- Power and Control cabinets
- PLC and HMI programs Modifications

CHALLENGE

- Power On Demand upgrade on P5 extrusion press with VFD and Emotors replacement (IE3)
- With DCT (Dead Cycle Time) reduction and improvement of pumps management in extrusion
- Main pumps overspeed
- File for Energy Saving Certificates (CEEs Gov. subsidy)



REDUCED:

Energy Consumption: -23%
Dead Cycle Time: -2.7 sec

ROI: > 8 months

IMPROVED:

Production Output
Pump Management

The Oilgear Company
Global Headquarters
☎ 231-929-1660
✉ ussales@oilgear.com
📍 1424 International Drive
Traverse City, MI 49686
🌐 www.oilgear.com

Oilgear Fremont, Nebraska
905 South Downing St. Fremont, NE 68025 USA
Oilgear Mexicana S.A.
Calle Argentina 3913, Monterrey, 64930, Mexico
Oilgear do Brasil
Av. Ricardo Bassoli Cezare 1009, 13050-080 Campinas, Brazil
Oilgear Towler UK
37 Burley Road, Leeds, LS3 1JT, United Kingdom
Oilgear Towler S.A.S.
5, Allée des Frères Montgolfier, 77183 Croissy-Beaubourg, France
Oilgear Towler GmbH
Im Gotthelf 8, 65795 Hattersheim, Germany
Oilgear Towler S.A.U.
Entidad Zikuñaga, 62, 20120, Hernani, Spain
Oilgear South Korea
167-3 Techno 2-ro, Yuseong-gu, Daejeon City, 34025, South Korea
Oilgear China Co., Ltd.
3rd Floor, Bldg. A, No.3500 Xiupu Road, Shanghai, China

Scan the QR code
for more information:

