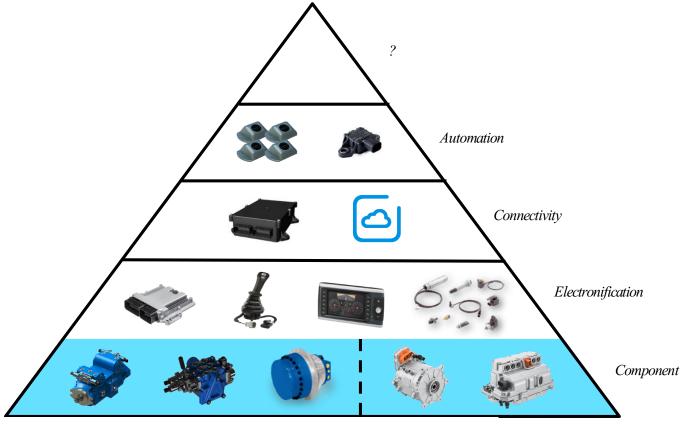
FPMC 2017: Industry Panel

Dr. Uwe Neumann Sarasota, FL, Oct 16-19



Market Trends



Driven By: Cost | Fuel Efficiency | Productivity | Noise | Safety



# Electronification

- Cost
- Dynamics
- Efficiency
- Complexity
- Ready for automation

#### RM-10

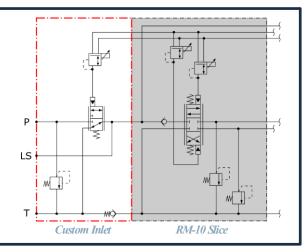


#### Rexroth Bosch Group

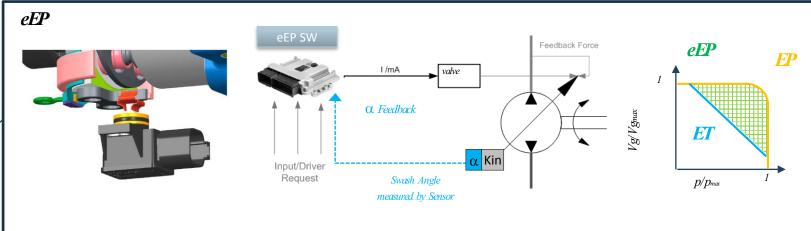
RM-10 with Electronic

How Management

- Electronic LS-pump control
- Software-managed flow distribution (no sensors required)
- All functions are pressure compensated in single operation mode
- Oil flow independent from engine speed
- Small pressure drop for high-flow attachment

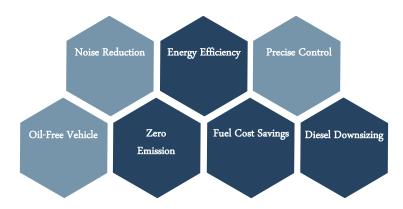




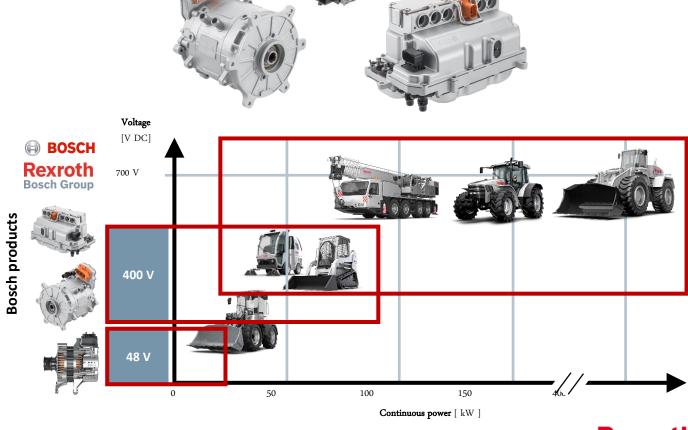




# Electrification – One Solution for Every Power Range



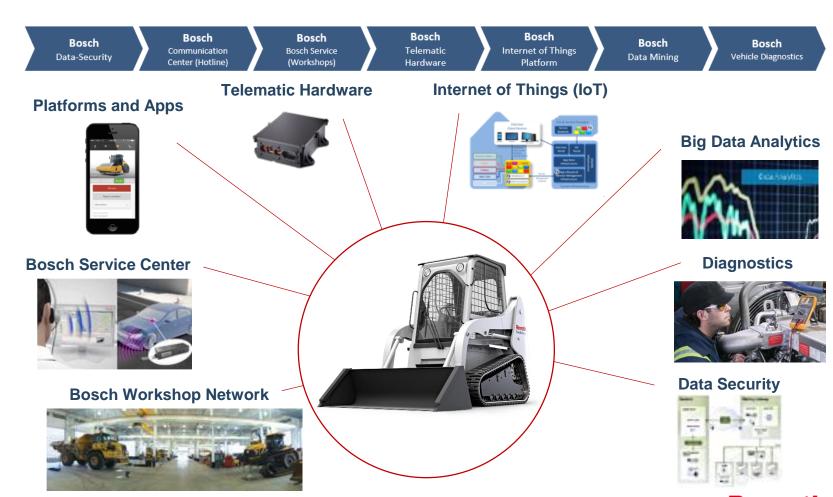






## Connectivity

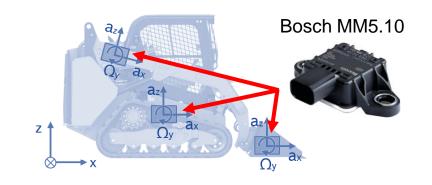




#### Automation

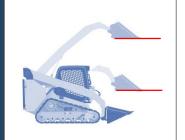
### Electro-Hydraulic Functions Portfolio

- Proprietary algorithm to estimate implement positions with Bosch inertia sensors
- Three inertia sensors (Carrier, Boom, Bucket) to realize several electrohydraulic functions.



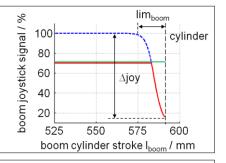
#### **Active Tool Leveling**

Keeps attachment leveled to the ground if implement moves



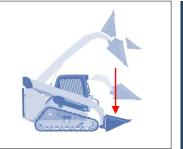
### Cylinder End-Stroke Damping

Prevents cylinder from impacting the end stroke



#### **Return to Position**

Brings implement back to a saved position with the push of a button



#### **Straight Travel**

Measures vehicle yaw rate and compensates to bring machine back to straight travel

