

APPLICATION BULLETIN

WPT POWER CORPORATION 214H PTO, HYDRAULIC, #2 BELLHOUSING
 W/ BRAKETECHNIQUE® , INC. CUSTOM BUILT HYDRAULIC POWER UNIT



Custom built hydraulic power unit, 24VDC

WPT Power Corporation 214H PTO, hydraulic



INDUSTRY: MINING

APPLICATION: Cedarapid 3648 Jaw Crusher. This machine operates a set of mechanical jaws which crush limestone rocks into various grades of crushed stone for the construction industry.

BACKGROUND: This customer was in the process of re-powering their rock crusher. They purchased a CAT C7.1 engine from their local Caterpillar dealer. The engine was set up with an SAE # 1 housing and an 11.5" flywheel. Originally, the customer had inquired about a mechanical PTO, but upon reviewing the application, it was determined that the standard 211 mechanical PTO would not be able to handle the side load and would thereby cause a premature bearing failure. A WPT Power Corp. 214H hydraulic PTO, with a modified drive ring which would mount to the 11.5" flywheel, was recommended. This PTO has 50% more torque and nearly 3-times the side load capacity as the standard 211 mechanical PTO that the customer had originally inquired about. In order to operate this hydraulic clutch, the customer would also need a power unit. BrakeTechnique®, Inc. designed and built a custom 24VDC operated hydraulic power unit which is contained within a NEMA 4 enclosure. The customer was able to use the existing batteries on the engine to operate the hydraulic power supply thereby eliminating the need to run an electrical line to the crusher, which sat in the middle of the quarry.

ADVANTAGES: There is no adjustment required on this PTO. The higher torque and side load capacity will increase the life of the clutch. The drive can be engaged remotely thereby eliminating the need for a person having to physically climb the machine and engage the mechanical handle. The engagements are smoother and can be adjusted via the power supply flow control valve.

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