

All Hydra-Slide skidding systems, turntables, alignment shoes, and jacks, as well as most other double-acting jack applications, can be operated using both Hydra-Pac synchronous power units and conventional power units- each have their own advantages.

Hydra-Pac Synchronous

Our Hydra-Pac™ Synchronous power units are designed with multiple independent oil circuits. The circuits are not interconnected, and provide equal flow to each line regardless of the weight of the load or the pressure in the circuit. This is accomplished using specially designed piston pumps, valves and control devices.

Under normal operating conditions, oil flow and hence cylinder extension and retraction rates should be within 5% of each other on all circuits, even if the weight is unbalanced.

Advantages

Synchronous power units allow the operator to safely lift, lower, or slide virtually any load equally on all points.

Conventional

Our conventional hydraulic power units are suitable for applications that do not require synchronized flow rates.

Conventional power units have a single oil supply circuit. The circuit may be split into multiple outlets, but since they are connected, they will act as one. When jacking a load that is heavier at one end, cylinders with less load will advance more quickly, so it is often necessary to jack "end to end" to ensure load balance. When skidding, it is necessary to ensure that both cylinders advance at nearly the same rate.

Advantages

These units are low-cost, compact, and highly portable, making them ideal as back-up units.

Features	Hydra-Pac Synchronous	Conventional
Engine/motor types available	Diesel, propane, electric	gasoline, electric
Manual control valves for each circuit	Yes	No
Flow rate controlled independently in each circuit	Yes	No
Maintain constant jacking/ lowering speed	Yes	No
Maintain uniform pushing/ pulling forces	Yes	No
Circuits can be paired to increase flow	Yes	No