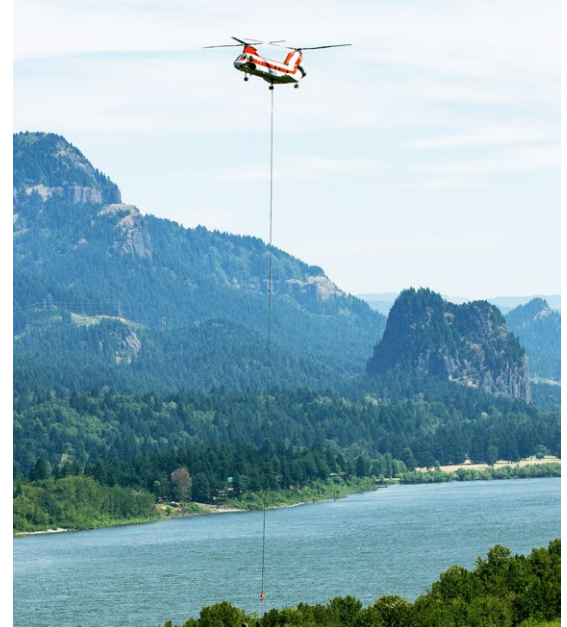


FORESTRY AND STREAM RESTORATION



FORESTRY AND STREAM RESTORATION SERVICES

- Heli-logging
- Land management support
- Aerial reconnaissance
- Aerial mapping
- Placement of large trees and debris
- Habitat improvement and restoration
- Stream improvement and restoration

EXTERNAL LIFT LIMITS

107-II	11,500 lbs (5,216 kgs)
234	28,000 lbs (12,700 kgs)
CH-47D	26,000 lbs (11,793 kgs)

Columbia Helicopters has supported forestry operations for more than 50 years. Across the Pacific Northwest, fish and stream biologists are using our helicopters to place boulders, logs and root wads into streams and creeks, thereby helping to restore habitat and spawning grounds for native fish runs.

Columbia's heavy-lift fleet consists of Columbia Model 107-II Vertol, Columbia Model 234 Chinook, and Columbia Model CH-47D Chinook helicopters. The tandem rotor and twin-engine design of the Columbia Model 234 Chinook, Columbia Model CH-47D, and Columbia Model 107-II Vertol is more efficient than single main rotor design, as it allows all available power to support higher internal and external payloads. This also provides increased stability in cross-wind, allowing us to place loads more precisely at sites. Each aircraft is suited for a variety of missions in support of forestry, including logging and stream restoration.

The Columbia Model 234 Chinook provides the largest gross weight allowance for any helicopter in its class at 51,000 pounds (23,133 kilograms).

Columbia assists stakeholders in land management practices through logging and habitat enhancements and stream restorations. Columbia's helicopters provide flexibility to log, place or deliver logs of any size. Columbia's project managers have more than 30 years as professional logging engineers and are knowledgeable on all forestry applications to assist you in your project.