Fandrich Powerrake for Douglas fir, spruce, larch



Fandrich selfdumping/manual shear for Lodgepole pine, spruce, true fir







Fandrich Branch Collector true fir, cedar, redwoods









for more information contact your local helicopter company or



604 850 0666 <fchinfo@coneharvesters.com>

Fandrich Aerial Cone Rake Specifications **Fandrich Shear** Fandrich **Fandrich** Branch **Powerrake** Manual Collector Condition **Self-Dumping Unloading** Weight 350 lbs 425 lbs 310 lbs 365lbs 7.1'x 8.1' x 7.1' x 11.8' 8.2'dia. x 7.0' x 7.0' Size for **Transport** 4' high x 4' high 4' high x 6' high Unloading 20-90 sec 20-60 sec 20-40 sec. none People No, load Yes, to latch Yes, unlatch & Yes, to Under dumps itself unload tops up & clear clear Helicopter Source of Helicopter Honda engine Honda engine Honda engine Power lift. Switch to rake to cut None to cut Required to dump to lift up

Fandrich Branch Collector Cone Collection Data for 1985

Species	Collecting rate	
	Average	Highest*
	bu./hr	
Grand fir	50	94
Pacific silver fir	50	63
White fir	45	67
Redwood	26	37
Douglas-fir	20	44
White spruce	16	22
Lodgepole pine	13	17
Mountain hemlock	12	15
Western hemlock	9	10
Western redcedar	9	22

^{*}Conditions for high collecting rates: heavy cone crop near top of crown, good crop on most trees in stand, heliport close by, and good external-load pilot.

Synopsis of a successful cone collection

Location: Fort Bragg, California Average collecting rate: 30 bu/hr (11 hl/h)

Project co-ordinator: Rich Mabie, Georgia-Pacifi One day picked 218 bu in 6 hours: 36 bu/hr (13 hl/h)

Date: September 1997

Species: Douglas fir

Cone rake equipment: one Fandrich powerrake

Helicopter: Hughes 500

Age of trees: 40-60 years old.

Unloading crew: four

Travelling distance: "Very short".

Total volume collected: 1480 bushels in 8 days

Last day picked 181 bu in 4 hrs: 45 bu/hr (16 hl/h) Seed count: "Outstanding". Germination rate: 98%

NOTE: This has been the most successful Douglas fir cone collection to date and shows an efficient aerial collection in a heavy crop. The project was Crop: "Biggest crop people around here have see efficiently organized, the crop was extremely heavy, the dumping sites were moved often to keep travelling distance short and the pilot was fast. Trees were at their optimum age, the helicopter was suited to the job and a ground crew of four was quick, taking only seconds to clean out the cone basket.

Fandrich Aerial Shear 1988 Cone Collection Data

Species	Volume hL	Rate* hL/hr
Grand fir	90	12.2
Englemann spruce	29	7.0
Spruce	52	5.2
Spruce	114	3.0
Spruce	150	3.0
Douglas fir	291	2.9
White pine	32	4.4

^{*}Factors affecting rate: crop density, flight distance, quantity of rejected tops or cones

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randrich Cone Harvesters

Fandrich aerial cone rakes rapidly and efficiently collect cones from the tops of trees, where the best cones grow, Fandrich aerial desailers reduce crown size to help trees remain upright, even during exposure to severe winds. Fandrich aerial grapples clean creeks and move material at 80-120 loads per hour.



- The Machines
- NInformation Bulletins
- Service Bulletins
- Rental Charges and Order Forms Canada (2004) U.S. (2004)
- & Additional Information
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Fandrich Cone Harvesters Helicopter Companies Forestry Contractors Other Forestry Sites

Fandrich Aerial Cone Rakes Cone Collection Data for 2003

_Fandrich Rak	e species	volume collected/rate
Branch Collector	Balsam	163 hl (462bu)
Manual Shear	White spruce	61 hl (175bu)
Selfdump Shear	White spruce	109 hl (308bu)
•	•	34 hl at 7.4 hl/h (21 bu/h)
		26 hl at 4.7 hl/h (13 bu/h)
		48 hl at 9.4 hl/h (27 bu/h)
Powerrake	White spruce	972 hl(2761bu)
	1	23 hl at 4.0 hl/h (11 bu/h)
		82 hl at 4.5 hl/h (13 bu/h)
		11 hl at 5.2 hl/h (15 bu/h)
		19 hl at 7.6 hl/h (21 bu/h)
		11 hl at 7.6 hl/h (22 bu/h)
		19 hl at 9.6 hl/h (27 bu/h)
		45 hl at 13.3 hl/h (38 bu/h)



Fandrich Cone Harvesters Ltd.

2461 Sunnyside Place, Abbotsford, BC. Canada V2T 4C4

Fandrich Topper (reduces wind resistance of trees)

9,959 tops cut in 2003 -- one tree every 20 seconds