



ROTOBEC™
TOUGH HANDLING EQUIPMENT

HEAVY-DUTY LOG GRAPPLES

by ROTOBEC



ROTOBEC INC.
HEAD OFFICE

Tel: 418.383.3002

Fax: 418.383.5334

rotobec@rotobec.com

HEAVY-DUTY LOG GRAPPLES

by ROTOBEC

IDEAL FOR

Pull-thru delimiting, Swamp logging, Hoe chucking, Shovel logging.

These grapples are used throughout North America in the most demanding applications.

ADVANTAGES

- Designed for heavy-duty and super heavy-duty applications.
- Extreme environment ready.
- Equipped with the RT Series water tight rotations.
- Small grapple closing provides possibility to grab a small single log.
- Grapple and rotator operate at full 5000 psi and has a maximum oil level flow rated at 114 L/min.



FEATURES AND BENEFITS



1

ROTOMAX ROTATORS

- The rotation drive pinion is supported by bearings on both the bottom and top of the shaft.
 - ◆ This proven design keeps the motor shaft perfectly straight.
 - ◆ Avoids leakage from shaft seal.
 - ◆ Reduces wear of pinion and crown wheel as they are perfectly aligned.
- Designed to accept both axial and side loads. Its modular construction allows quick and inexpensive repairs.
- Fully sealed and equipped with a factory adjusted relief circuit integrated into the motor assembly.



2

HYDRAULIC CYLINDERS

- High pressure capability (5000 psi) to work with today's high pressure carriers. A wide pressure range to cover a wider range of equipment operating pressures.
- Integrated safety lock valves to ensure a firm grip.
- Bolt-on heads.
- Oversized wall barrels.
- Sealed spiral cut bronze / aluminum bushings with seals help keep grease in and dirt out.



3

STRUCTURE

- Interlocked head assembly to maximize rigidity and accessibility while minimizing weight of the grapple.
- Reinforced rib on wide jaw guarantees maximum sturdiness.
- Heavy-duty and super heavy-duty models that are **SAW READY**.



4

GRAPPLE SAW READY

- Proportional chain lubrication increases life of chain and saw bar while keeping oil consumption low.
- Hydraulic saw bar return.
- Automatic chain tensionner.
- 3/4" saw chain with saw bar available from 34" to 45".
- Proven Hultdins motorization.



5

PINS

- Oversized pins are hardened and chromed and in conjunction with spiral cut grease sealed bushings, offer a long service life.
- Pins have a guarded pin keeper and locking device.

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HEAVY-DUTY LOG GRAPPLE TECHNICAL SPECIFICATIONS

SERIES	Pull-through delimiting — Heavy-Duty			Shovel - logging — Super Heavy-Duty			
	MODEL	4552HD	6058HD	6065HD	4552SHD	4560SHD	6065SHD
Clamp capacity (when tip to tip)	m ²	0.34	0.47	0.57	0.39	0.48	0.57
A (log grip diameter)	mm	114	156	162	114	121	162
B (maximum opening)	mm	1340	1483	1667	1346	1527	1667
C (overall opening)	mm	1610	1778	1953	1715	1880	1953
D with rotator: (maximum height)	RT-252 mm	1607					
	RT-322 mm	1629	1756				
	RT-502/RT-504 mm	1657	1784	1915	1768	1810	1915
	RT-1002/1004 mm			1988	1842	1883	1988
E	mm	248	267	308	241	289	308
F (wide jaw width)	mm	445	445	508	495	495	508
G (overall width)	mm	521	521	578	572	572	584
Weight with rotator:	RT-252 kg	689					
	RT-322 kg	687	734				
	RT-502/RT-504 kg	769	816	1070	1073	1123	1211
	RT-1002/1004 kg			1179	1182	1232	1320

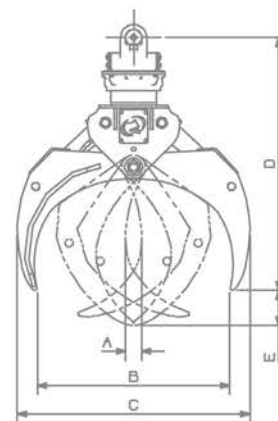
ROTATORS – TECHNICAL SPECIFICATIONS

MODEL	SWING TORQUE (Nm)	AXIAL LIFT CAPACITY (kg)	WEIGHT (kg)
RT-252*	1825	11340	122
RT-322	1389	14515	141
RT-502-1*	2105	22680	206
RT-504-3*	1685	22680	202
RT-1002/1004*	2527	45360	311

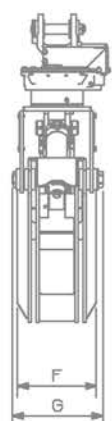
Heavy-duty, indirect drive, sealed internal gearing, high side-loading capability, single motor, 2 extra ports on RT-504 and RT-1004 for saw or other accessories. * US PATENT No. 7,066,076

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FRONT VIEW



SIDE VIEW



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