

COMBINATION GRAPPLES

by ROTOBEC



ROTOBECTM
TOUGH HANDLING EQUIPMENT

COMBINATION GRAPPLES TECHNICAL SPECIFICATIONS

Light to Medium-duty application

MODEL	5609	6007	6006	6606	7606*
Capacity in 8' cord wood	0.12	0.27	0.33	0.39	0.49
Area in square feet (when tip to tip)	3.4	4.4	5.3	6.4	7.9
A	in. 9 3/4	6 5/8	5 3/4	6 1/8	6
B	in. 56	60	59 7/8	65 5/8	75 7/8
C	in. 60 1/4	65	68 1/4	74 3/4	86 3/4
D with rotator:					
9150 in.	43 3/8	48	53	55 1/2	59 3/4
RT-222 in.					
RT-252 in.	41 1/8	45 5/8	50 3/4	53 1/4	57 1/2
RT-322 in.					
RT-502 in.				54 1/4	58 1/2
E	in. 16 5/8	16 1/8	14 1/8	15 1/2	16 3/4
F	in. 16	14	16	14	16
G	in. 24	23 3/4	24	23 3/4	24 3/4
Weight with rotator:					
9150 lb	870	920	995	1100	1620
RT-222 lb					
RT-252 lb	920	970	1045	1150	1670
RT-322 lb					
RT-502 lb				1280	1800

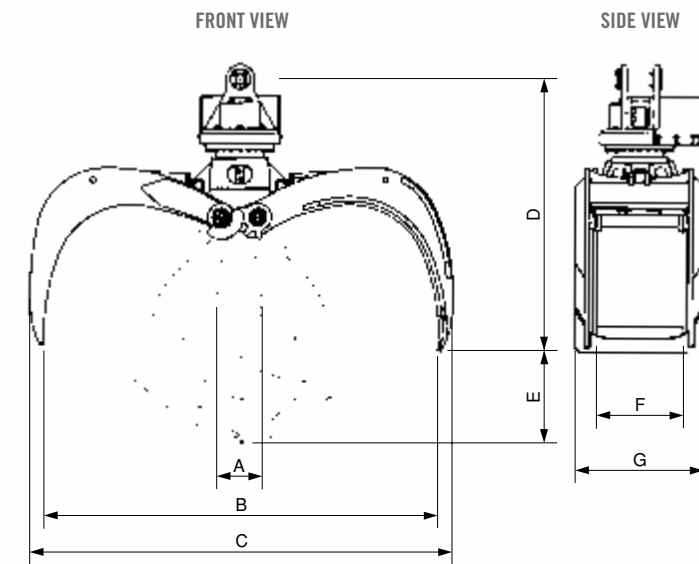
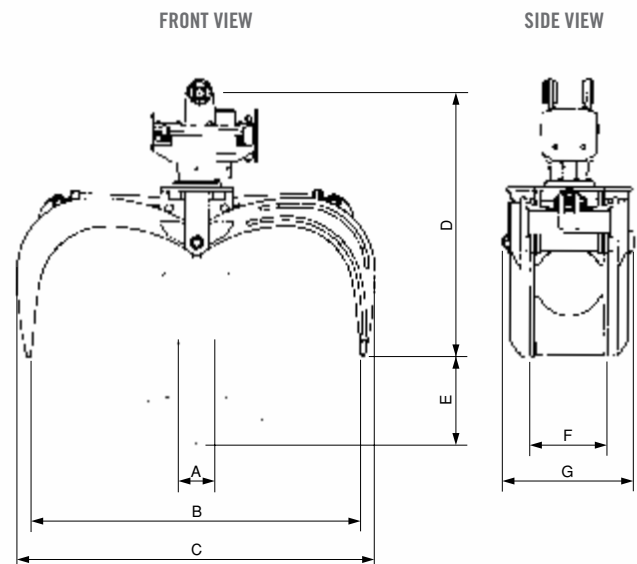
* Model with dual pins and standard lock valve on cylinders.

COMBINATION GRAPPLES TECHNICAL SPECIFICATIONS

Medium to Heavy-duty application

MODEL	6006HD	6606HD	8610**	8810**	9008**	9910**
Capacity in 8' cord wood	0.33	0.39	0.52	0.65	0.70	0.91
Area in square feet (when tip to tip)	5.4	6.4	8.5	10.5	11.2	14.7
A	in. 7 1/8	5 3/4	10	9 3/4	8	10 1/2
B	in. 64 3/8	68	86 1/2	94 3/4	91 1/2	110 3/4
C	in. 70 1/4	75 5/8	92 3/4	103 1/2	102 7/8	120 1/4
D with rotator:						
RT-222 in.						
RT-252 in.						
RT-322 in.						
RT-502/504 in.	53 1/2	56	60 7/8	66 3/4	72 3/4	74
RT-1002 in.				68 5/8	76 5/8	77
RGP-1302 in.					76 1/8	
E	in. 16	16 7/8	20 3/8	21 5/8	23 1/2	26 3/8
F	in. 16 3/8	16 3/8	20 5/8	29 1/2	20 3/8	30
G	in. 24 1/2	24 1/2	28 1/2	39 1/2	28 1/2	40
Weight with rotator:						
RT-222 in.						
RT-252 in.						
RT-322 in.						
RT-502/504 lb	1585	1710	2000	2815	3040	3565
40000 lb				3295		4045
RT-1002 lb				3100	3325	3850
RGP-1302 lb					4165	

** Models standard with dual pins, synchro-gears and closed wide jaw. All these models come standard with standard lock valve on cylinders.



ROTOBEC INC. • Printed in Canada V.20090324-00



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APPLICATION

The combination grapples are designed for handling short wood, logs or tree-length. They are used when a combination of wood types must be handled with one grapple. The tines bypass one another to grip a single log or a partial bundle. They can be installed on knuckle boom loaders and rubber-tire or track excavators converted for logging. This type of grapple is ideal in slashing application and the heavy-duty models can be matched to a live heel for tree-length handling.



FEATURES AND BENEFITS



CYLINDERS

- Bolt-on heads for cost effective maintenance.
- High-pressure piston seals (10 000 psi).
- Rod leakproof twin inner cylinder head seals.
- Cylinders designed to match machine operating pressure.
- Self aligning bushings on larger models.
- Lock valve standard on heavy-duty models.

CHARACTERISTICS

- Built of 165 000 lb tensile strength steel (65% stronger than T1 steel)
- Three times the strength of typical cold rolled steel
- Higher wear resistance and best resistance/weight ratio
- Precision machining assures long rotator life.
- Fit and part interchangeability enhanced by line boring after welding

* Special steel with 44% better abrasion resistance than typical AR-500 when tested as per ASTM-G65B and an average of 50% better in comparative field test.

ROTATORS

- On New Generation RT models (type 3), rotator is fully sealed with high side-loading capabilities, some models available with extra ports for saw or other accessories.
- Full 360° continuous rotators.
- Many models to match machine capacity and operation requirements for maximum life and productive time.

STRUCTURE

- Closed wide jaw and synchro-gears on heavy-duty models.
- Synchro link system for synchronizing jaws opening and closing motion.

PINS

- Pins contribute to structural integrity without adding weight.
- Pins are chromed and heat treated.
- Oversized pins mounted on bronze bushings to reduce maintenance costs.

ROTATORS – TECHNICAL SPECIFICATIONS

MODEL	SWING TORQUE (in lb.)	AXIAL LIFT CAPACITY (lb)	WEIGHT (lb)	TYPE (see legend)
9150	8450	18,000	225	2
RT-222				
RT-252*	16150	25,000	270	3
RT-322	12290	32000	310	3
RT-502-1*	18630	50,000	455	3
RT-504-3*	14910	50,000	445	3
RT-1002*	22360	100,000	685	3
RGP-1302				

TYPE 1: Light-duty, direct drive, sealed, low side-loading capability.

TYPE 2: Medium-duty, indirect drive, sealed, medium side-loading capability.

TYPE 3: 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.

TYPE 4: Heavy-duty, indirect drive, open gears, limited water and dust application, high side-loading capability, single or double drive motor.

* US PATENT No. 7,066,076