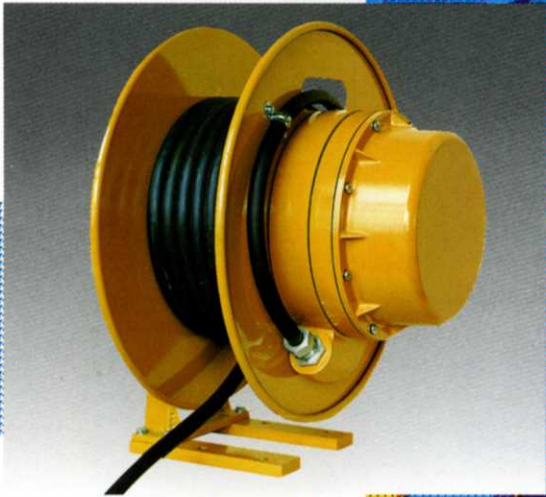


ENDO

CABLE REEL·HOSE REEL



For reasonable transmission of
signal and electricity to all of the
electric moving tools.





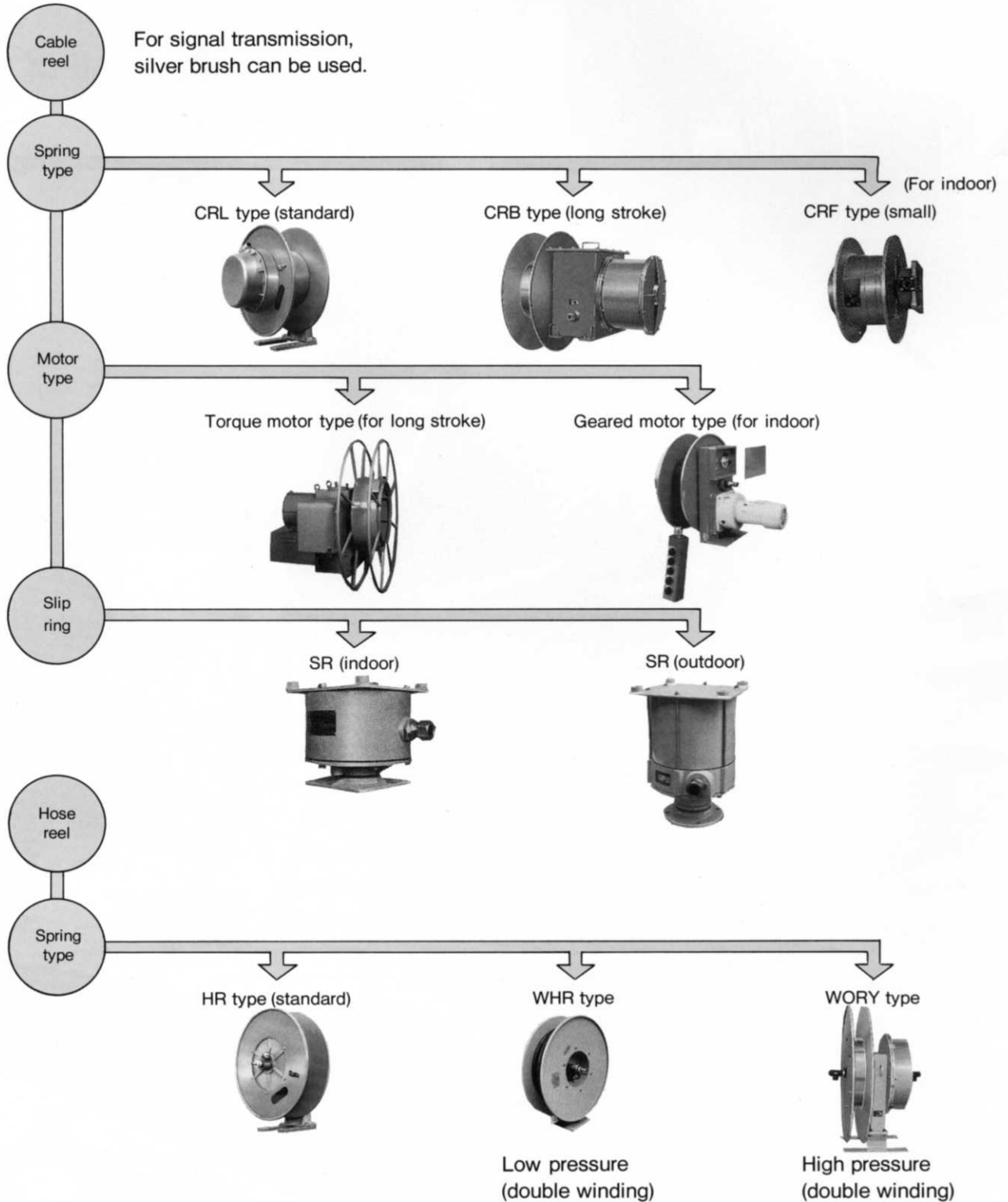
ENDO's cable reels and hose reels which play their active parts in all fields.

Easy wiring and piping for simple construction.

It is possible to make the instrument compact and make it cheap due to small size and good working efficiency.

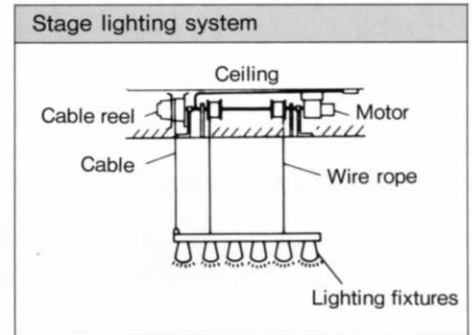
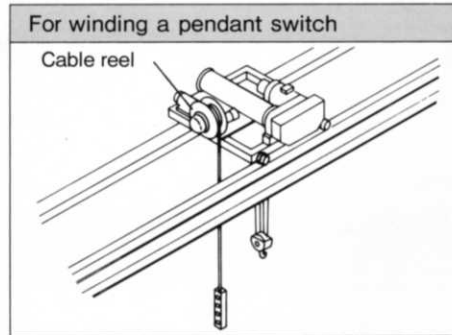
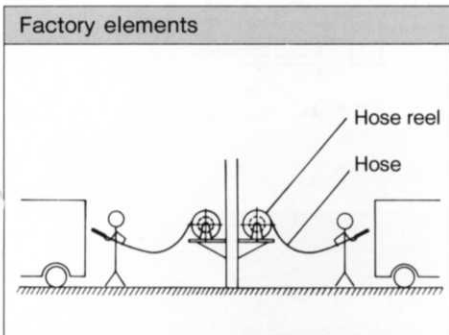
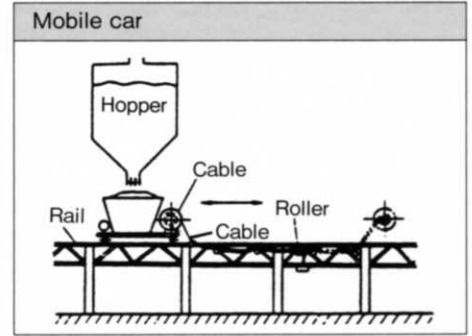
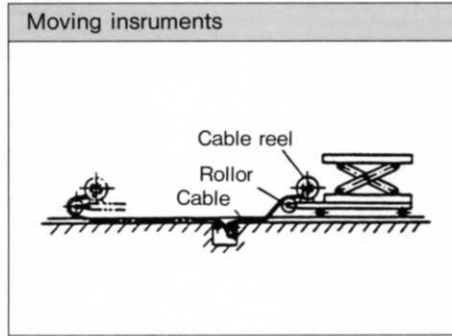
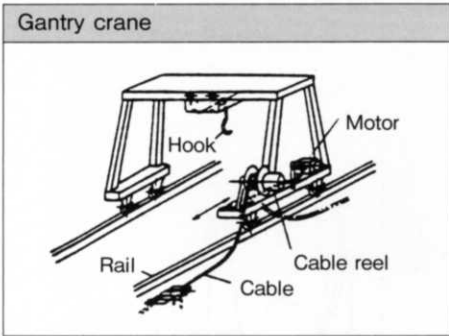
Most of models have the slip ring for protecting the rain.

So, these are able to be used indoor and outdoor.





Example of available use



* ; This reel can be used in symmetry from the center of travelling.

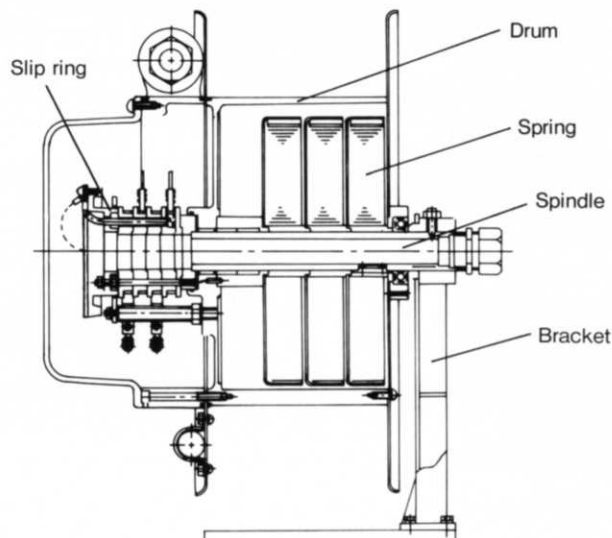
Explanation of Model

CRL-3A416W

- The number of built-in spiral springs (No mark=1, W=2, T=3, F=4, V=5)
- The kind of spring
- The size of drum cover
- The size of drum (A; wide M; narrow S; single winding)
- L-stand type B-box type F-frange type
- CR-cable reel HR-hose reel
- WHR-double winding hose reel (low pressure)
- WORY-double winding hose reel (high pressure)

Construction

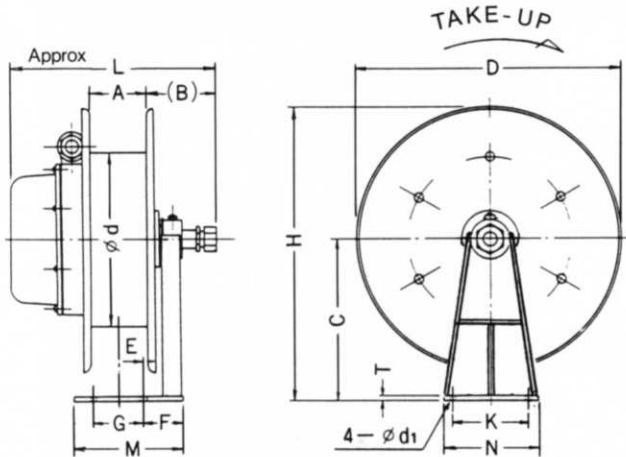
CRL TYPE CABLE REEL



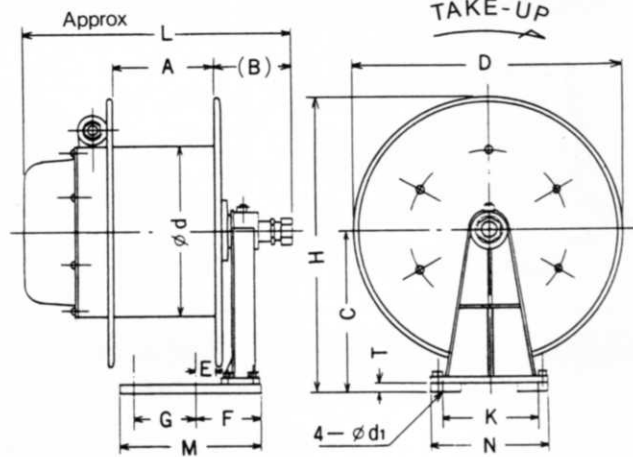


CRL TYPE CABLE REEL (standard)

CRL-2205~CRL-3A409W



CRL-4M424~7875F



Specifications and Dimensions

MODEL	MAX. TORQUE N·m(kgf·m)	MAX. WINDING FORCE N(kgf)	THE NUMBER OF TOTAL WINDING n					
				D	d	A	B	C
CRL-2205	4.9(0.5)	49(5.0)	20	292	200	75	90	185
CRL-2A210	9.8(1.0)	98(10.0)	20	292	200	110	90	185
CRL-2A205W	4.9(0.5)	49(5.0)	39	292	200	110	90	185
CRL-3316	15.6(1.6)	132(13.5)	13	350	230	75	95	215
CRL-3A316W	15.6(1.6)	132(13.5)	26	350	230	110	95	215
CRL-3A309W	8.8(0.9)	73(7.5)	39	350	230	110	90	215
CRL-3416	15.6(1.6)	132(13.5)	13	440	230	75	95	260
CRL-3A416W	15.6(1.6)	132(13.5)	26	440	230	110	95	260
CRL-3A409W	8.8(0.9)	73(7.5)	39	440	230	110	90	260
CRL-4M424	23.5(2.4)	166(17.0)	13	440	280	127	124	265
CRL-4424W	23.5(2.4)	166(17.0)	26	440	280	165	124	265
CRL-4424T	23.5(2.4)	166(17.0)	39	440	280	165	124	265
CRL-4424F	23.5(2.4)	166(17.0)	52	440	280	165	124	265
CRL-4524W	23.5(2.4)	166(17.0)	26	510	280	165	124	305
CRL-4524T	23.5(2.4)	166(17.0)	39	510	280	165	124	305
CRL-4524F	23.5(2.4)	166(17.0)	52	510	280	165	124	305
CRL-5M636	35.3(3.6)	196(20.0)	13	630	360	127	120	370
CRL-5655W	53.9(5.5)	294(30.0)	24	630	360	165	120	370
CRL-5636W	35.3(3.6)	196(20.0)	26	630	360	165	120	370
CRL-5655T	53.9(5.5)	294(30.0)	36	630	360	165	120	370
CRL-5636T	35.3(3.6)	196(20.0)	39	630	360	165	120	370
CRL-5636F	35.3(3.6)	196(20.0)	52	630	360	165	120	370
CRL-6M7112W	109.0(11.2)	490(50.0)	24	750	440	172	134	435
CRL-6775W	73.5(7.5)	333(34.0)	24	750	440	220	134	435
CRL-6775T	73.5(7.5)	333(34.0)	36	750	440	220	134	435
CRL-6775F	73.5(7.5)	333(34.0)	48	750	440	220	134	435
CRL-6756V	54.9(5.6)	245(25.0)	60	750	440	220	134	435
CRL-7875T	73.5(7.5)	264(27.0)	36	870	550	220	134	500
CRL-7875F	73.5(7.5)	264(27.0)	48	870	550	220	134	500

note) 1. It is possible for CRL-4M424~7875F to set the base plant reverse. But, for some spec, it is impossible to reset the base plate so that the base plate is welded.
 2. In case of reverse winding or other spec, please advise us. We will produce it by prearrangement.



■ The capacity of Slip Ring (Rated voltage AC 600V)

Rated current	The number of poles												Available Model
	3	4	6	8	10	12	14	16	—	—	—	—	
30A	3	4	6	8	10	12	14	16	—	—	—	—	CRL-2205~3A409W
20A	3	4	6	8	10	12	14	16	20	24	28	32	
50A	3	4	6	8	10	12	—	—	—	—	—	—	
100A	3	4	—	—	—	—	—	—	—	—	—	—	
150A	3	4	—	—	—	—	—	—	—	—	—	—	CRL-6M71 2W~7875F

note) Beside the above, we can produce others.

■ The increasing lengths of L for the number of poles.

units; mm

Rated current	Poles											
	3	4	6	8	10	12	14	16	20	24	28	32
30A	0		21	41	61	81	101	122	—	—	—	—
20A		0		30	50	80		100	140	200	240	280
50A		0	30	50	80	100	—	—	—	—	—	—
100A	30	50	—	—	—	—	—	—	—	—	—	—
150A	97	127	—	—	—	—	—	—	—	—	—	—

DIMENSIONS (mm)										MASS (kg)
H	L	E	G±1	K±1	M	N	F	T	d _i	
331	275	5.0	65	100	145	125	50.5	8	9	10
331	310	22.5	65	100	145	125	68.0	8	9	13
331	310	22.5	65	100	145	125	68.0	8	9	13
390	280	4.0	65	100	145	125	50.5	8	9	13
390	315	21.5	65	100	145	125	68.0	8	9	16
390	310	22.5	65	100	145	125	68.0	8	9	16
480	280	4.0	65	100	145	125	50.5	8	9	14
480	315	21.5	65	100	145	125	68.0	8	9	18
480	310	22.5	65	100	145	125	68.0	8	9	18
485	399	13.5	100	160	200	195	83.5	16	13	28
485	437	32.5	100	160	230	195	102.5	16	13	34
485	437	32.5	100	160	230	195	102.5	16	13	40
485	437	32.5	100	160	230	195	102.5	16	13	46
560	437	32.5	100	160	230	195	102.5	16	13	36
560	437	32.5	100	160	230	195	102.5	16	13	42
560	437	32.5	100	160	230	195	102.5	16	13	48
685	395	13.5	100	160	210	220	94.5	19	13	42
685	433	32.5	100	160	240	220	113.5	19	13	57
685	433	32.5	100	160	240	220	113.5	19	13	52
685	433	32.5	100	160	240	220	113.5	19	13	70
685	433	32.5	100	160	240	220	113.5	19	13	62
685	433	32.5	100	160	240	220	113.5	19	13	72
810	454	36.0	100	200	260	260	131.0	19	13	90
810	502	50.0	120	200	300	260	146.0	19	13	85
810	502	50.0	120	200	300	260	146.0	19	13	100
810	502	50.0	120	200	300	260	146.0	19	13	115
810	502	50.0	120	200	300	260	146.0	19	13	110
935	502	50.0	120	200	300	290	146.0	22	13	115
935	502	50.0	120	200	300	290	146.0	22	13	130

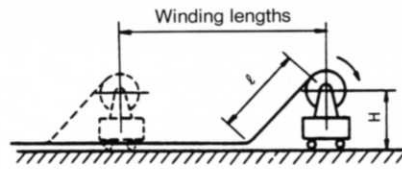
(Without cable)



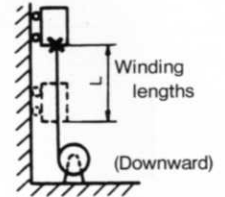
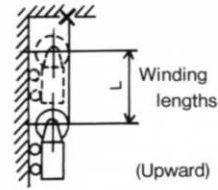
CRL TYPE CABLE REEL

Horizontal Recovery

Vertical Recovery



(Upright setting)



Max. winding lengths (Horizontal Recovery) 2R2CT

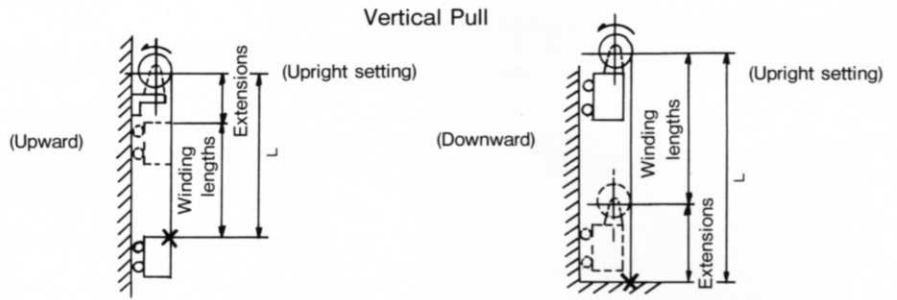
Cable spec. (mm ²)		2 × 3 ^C	2 × 4 ^C	3.5 × 3 ^C	3.5 × 4 ^C	5.5 × 3 ^C	5.5 × 4 ^C	8 × 3 ^C	8 × 4 ^C	14 × 3 ^C	14 × 4 ^C	22 × 3 ^C	22 × 4 ^C	30 × 3 ^C	30 × 4 ^C	38 × 3 ^C
Unit Mass of cable(kg/m)		0.23	0.285	0.33	0.41	0.43	0.54	0.54	0.69	0.905	1.15	1.43	1.82	1.96	2.5	2.34
Dia. of cable(φ mm)		12.5	13.5	14.0	15.5	15.5	17.5	17.0	19.0	22.0	25.0	28.0	31.0	33.0	36.0	35.0
M O D E L	CRL-2205	8	7	7	6	6	(4)	(4)								
	CRL-2A210	11	10	10	9	9	(7)	(7)								
	CRL-2A205W	11	10	10	9	9	(7)	(7)								
	CRL-3316		8	8	8	8	7	(7)	(5)							
	CRL-3A316W		16	16	14	14	11	(11)	(8)							
	CRL-3A309W	20	20	17	14	14	(11)	(11)								
	CRL-3416		8	8	8	8	8	(8)	(8)							
	CRL-3A416W		16	16	17	17	17	(17)	(17)							
	CRL-3A409W	28	28	28	28	28	(25)	(25)								
	CRL-4M424			9	9	9	9	9	9	9	7					
	CRL-4424W			19	19	19	19	19	19	15	12					
	CRL-4424T	30	30	30	30	30	29	29	24	15	12					
	CRL-4424F	40	40	40	38	38	29	29	24							
	CRL-4524W						20	20	20	20	19					
	CRL-4524T						33	33	33	30	19					
	CRL-4524F	43	43	42	42	42	42	42	40	30	19					
	CRL-5M636								11	11	10	10	(9)			
	CRL-5636W						25	25	25	25	25	21	(19)			
	CRL-5636T			38	38	38	38	38	38	38	32	21				
	CRL-5636F			53	54	54	55	55	55	45	32					
CRL-5655W								22	22	22	22	(19)				
CRL-5655T				35	35	35	35	35	35	32	22					
CRL-6775W						26	26	27	27	27	27	27	27	27	24	
CRL-6775T						42	42	42	43	43	43	40	28	24		
CRL-6775F						57	57	57	58	58	45	40	28			
CRL-6756V				68	68	70	70	70	70	69						
CRL-7875T						50	50	51	51	51	51	48	36	32	32	
CRL-7875F						70	70	69	69	69	51	48	36	32	32	

units; m

- note) 1. The winding lengths are calculated in the condition that the setting height of the reel is less the dia. of drum cover (D dimension).
 2. The winding speed shall be less than 30m/min. When the winding is fast or frequent, we recommend that the wire braid cable, aseismic cable and so on will be used.
 3. In the above table, we do not consider the influence of guide roller, bent winding, low temperature, and so on. So, please select the MODEL with room in hard condition.
 4. Please select the MODEL in the frame judging from the cable tension and multiplicative between cable and drum.
 5. In case of () lengths, Some kind of cables are available.
 6. When operating, we recommend the reels are operated within 80% of max. winding lengths.
 7. We can produce another MODEL by prearrangement.



CRL TYPE CABLE REEL



Max. winding lengths (Vertical Pull) 2RNCT

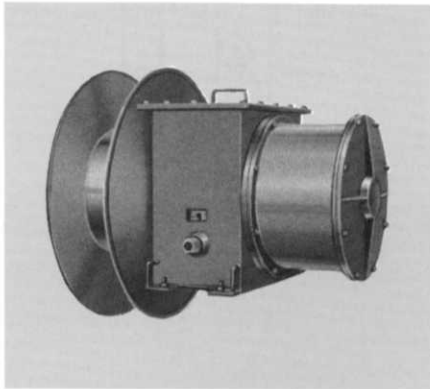
units; m

Cable spec. (mm ²)	2 × 3 ^C	2 × 4 ^C	3.5 × 3 ^C	3.5 × 4 ^C	5.5 × 3 ^C	5.5 × 4 ^C	8 × 3 ^C	8 × 4 ^C	14 × 3 ^C	14 × 4 ^C	22 × 3 ^C	22 × 4 ^C	30 × 3 ^C	30 × 4 ^C	38 × 3 ^C	
Unit Mass of cable (kg/m)	0.23	0.285	0.33	0.41	0.43	0.54	0.54	0.69	0.905	1.15	1.43	1.82	1.96	2.5	2.34	
Dia. of cable (φ mm)	12.5	13.5	14.0	15.5	15.5	17.5	17.0	19.0	22.0	25.0	28.0	31.0	33.0	36.0	35.0	
M	CRL-2205	7	6	6	5	5	(4)	(4)								
	CRL-2A210	10	10	9	8	8	(7)	(7)								
	CRL-2A205W	10	9	8	7	7	(5)	(5)								
	CRL-3316				8	8	7	(7)	(5)							
	CRL-3A316W		15	15	14	14	10	(10)	(8)							
	CRL-3A309W	18	15	14	11	11	(8)	(8)								
	CRL-3416				8	8	8	(8)	(8)							
	CRL-3A416W				16	16	15	(15)	(12)							
O	CRL-4M424	9	9	9	9	9	9	9	7	7						
	CRL-4424W	18	18	18	18	18	18	15	11	9						
	CRL-4424T	30	30	30	24	24	20	20	15	9						
D	CRL-4424F	40	35	32	24	24	20	20								
E	CRL-5M636								11	11	9	8	(6)			
	CRL-5636W						20	20	16	12	10	8	(6)			
L	CRL-5636T			33	25	25	21	21	16							
	CRL-5636F			33	25	25	21	21								
	CRL-5655W								22	19	14	12	(9)			
	CRL-5655T					35	31	31	25	19	14	12	(9)			
	CRL-6M7112W								23	23	20	16	14	12		
	CRL-6775W								25	21	17	13	10	9	8	
	CRL-6775T								36	36	28	21	17			
	CRL-6775F								36	36	28					

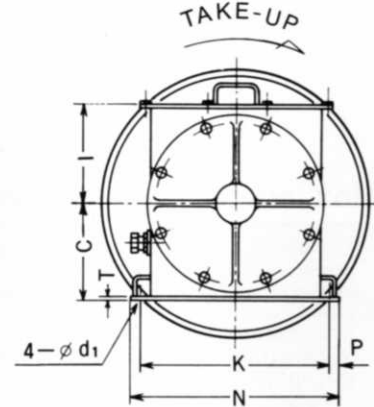
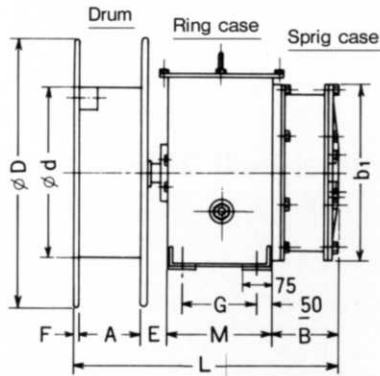
- note) 1. The winding lengths on this table shall include the extensions.
 And if you have addition, please add its unit Mass to the unit Mass of cable.
2. The winding speed shall be less than 30m/min.
 When the winding is fast or frequent, we recommend that the wire braid cable, aseismic cable and so on will be used.
3. In the above table, we do not consider the influence of guide roller, bent winding, low temperature, and so on.
 So, please select the MODEL with room in hard condition.
4. Please select the MODEL in the frame judging from the cable tension and multiplicative between cable and drum.
5. In case of () lengths, Some kind of cables are available.
6. When operating, we recommend the reels are operated within 80% of max. winding lengths.
7. We can produce another MODEL by prearrangement.



CRB TYPE CABLE REEL (Long stroke)



(Upright setting)



Max. winding lengths and dimensions (Horizontal Recovery)

MODEL	MAX. TORQUE N·m(kgf·m)	MAX. WINDING FORCE N(kgf)	THE NUMBER OF TOTAL WINDING n	MAX. WINDING LENGTHS (m)/DIA. OF CABLES φ(mm)														
				φ 17	φ 19	φ 22	φ 25	φ 28	φ 31	φ 33	φ 36	φ 39	φ 43	φ 48	φ 53			
CRB-4635F	34.5(3.5)	245(25)	64	55	60	50	35											
CRB-4635V	34.5(3.5)	245(25)	80	65	68	50	35											
CRB-5756V	54.9(5.6)	304(31)	60		62	60	46	36	30									
CRB-5756-6	54.9(5.6)	304(31)	72		75	65	46	36										
CRB-6875F	73.5(7.5)	333(34)	48			60	58	55	50	40								
CRB-6875V	73.5(7.5)	333(34)	60			70	69	60	50	40								
CRB-6875-6	73.5(7.5)	333(34)	72			80	70	60	50									
CRB-7A9130W	127.0(13.0)	460(47)	30						45	42	40	38	32					
CRB-7A9130T	127.0(13.0)	460(47)	45					70	65	65	55	45	35					
CRB-7A9130F	127.0(13.0)	460(47)	60					95	85	65	55	45						
CRB-810260W	254.0(26.0)	725(74)	30						55	55	55	50	50	40				
CRB-810130T	127.0(13.0)	362(37)	45						75	75	65	50	40					
CRB-810130F	127.0(13.0)	362(37)	60						105	95	82	62						
CRB-910L260W	254.0(26.0)	558(57)	30								68	60	50	35	25			
CRB-911260T	254.0(26.0)	558(57)	45								95	85	65	55	40			

note) 1. These winding lengths are based on the undermentioned subject.

① The kind of cable 2RNCT ② Horizontal Recovery vertical Recovery ③ Winding speed Less than 30m/min

④ The setting height of the reel is less than the dia. of drum cover (D-dimensions)

2. In the above, we do not consider the influence of guide roller, bent winding, low temperature, and so on.

So, please select the MODEL with room in hard condition.

3. Please select the MODEL in the frame judging from the cable tension and multiplicative between cable and drum.

4. When the winding is fast or frequent, we recommend that the wire braid cable, aseismic cable and so on will be used.

5. When operating, we recommend the reels are operated within 80% of max. winding length.

6. We can produce another MODEL by prearrangement.



**■ The capacity of Slip Ring (Rated voltage AC 600V)
CRB-4635F~6875-6**

Rated current	The number of poles													
	6	8	10	12	14	16	18	20	22	24	26	28	30	
20 A	6	8	10	12	14	16	18	20	22	24	26	28	30	
50 A	3	4	6	8	10	12	—	—	—	—	—	—	—	
100 A	3	4	6	—	—	—	—	—	—	—	—	—	—	
150 A	3	4	—	—	—	—	—	—	—	—	—	—	—	

CRB-7A9130W~911260T

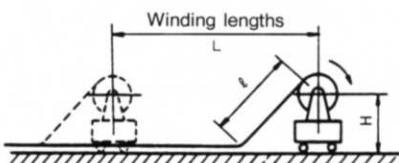
Rated current	The number of poles										
	12	14	16	18	20	22	24	26	28	30	
20 A	12	14	16	18	20	22	24	26	28	30	
50 A	6	8	10	12	14	16	18	20	—	—	
100 A	3	4	6	8	—	—	—	—	—	—	
200 A	3	4	—	—	—	—	—	—	—	—	
300 A	3	4	—	—	—	—	—	—	—	—	

note) 1. For the number of poles out of frame, The ring cases change the dimensions G.M.L.
2. We can produce another poles except the table.

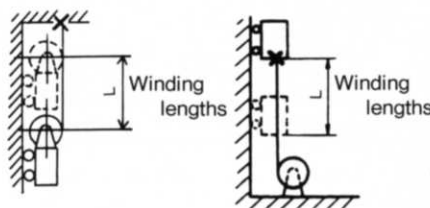
DIMENSIONS (mm)																	MASS (kg)
D	d	A	b ₁	F	E	K±1	N	P	C	I	B	L	G±1	M	T	d ₁	
630	280	170	460	12	65	500	550	25	250	257	219	736	170	270	9	13.5	170
630	280	170	460	12	65	500	550	25	250	257	257	774	170	270	9	13.5	180
750	360	170	460	12	65	500	550	25	250	257	257	774	170	270	9	13.5	200
750	360	170	460	12	65	500	550	25	250	257	296	813	170	270	9	13.5	210
870	440	220	460	12	65	500	550	25	250	257	265	832	170	270	9	13.5	210
870	440	220	460	12	65	500	550	25	250	257	315	882	170	270	9	13.5	225
870	440	220	460	12	65	500	550	25	250	257	366	933	170	270	9	13.5	240
1000	550	275	630	27	80	680	740	30	335	337	192	924	250	350	12	18.0	240
1000	550	275	630	27	80	680	740	30	335	337	252	984	250	350	12	18.0	270
1000	550	275	630	27	80	680	740	30	335	337	312	1044	250	350	12	18.0	300
1200	700	275	630	27	80	680	740	30	335	337	312	1044	250	350	12	18.0	310
1200	700	275	630	27	80	680	740	30	335	337	252	984	250	350	12	18.0	280
1200	700	275	630	27	80	680	740	30	335	337	312	1044	250	350	12	18.0	310
1300	900	305	630	27	80	680	740	30	335	337	312	1074	250	350	12	18.0	330
1400	900	305	630	27	80	680	740	30	335	337	432	1194	250	350	12	18.0	390

(Without cable)

Horizontal Recovery



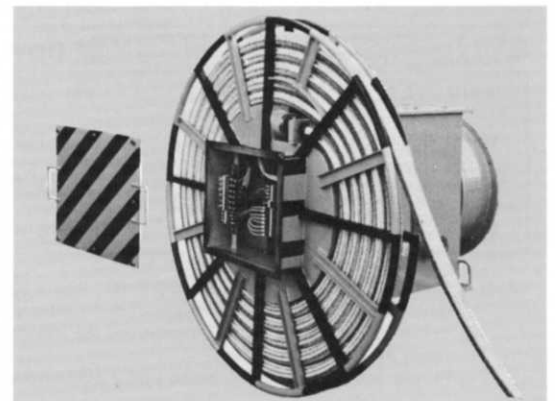
Vertical Recovery



(Upward)

(Downward)

※ This type is restricted to the upright setting.



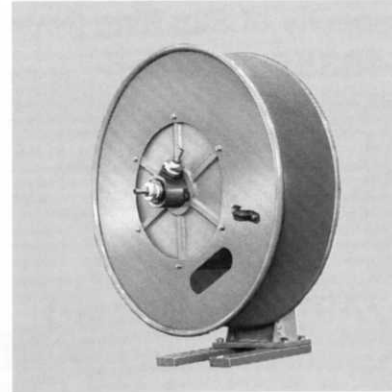
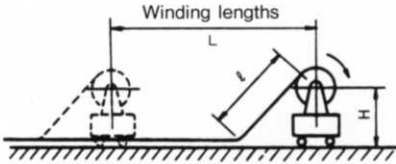
We can produce the reel with the terminal box.



HR TYPE HOSE REEL (standard)

Max. pressure 3.0 MPa {30kgf/cm²}
Working pressure 1.5 MPa {15kgf/cm²}

Horizontal Recovery



Max. winding lengths and dimensions (Horizontal Recovery)

MODEL	MAX. TORQUE N·m{kgf·m}	MAX. WINDING FORCE N{kgf}	THE NUMBER OF TOTAL WINDING n	MAX. WINDING LENGTHS (m) / DIA. OF HOSES ∅(mm)												
				∅14	∅17	∅20	∅23	∅27	∅31	∅34	∅38	∅43	∅48			
HR-2205	4.9(0.5)	49(5.0)	20	8	5	3										
HR-2305	4.9(0.5)	49(5.0)	20	13	9	6	5									
HR-2A310	9.8(1.0)	98(10.0)	20	13	13	9	7									
HR-2A305W	4.9(0.5)	49(5.0)	39	22	14	9										
HR-3416	15.6(1.6)	132(13.5)	13		9	9	8	6								
HR-3A416W	15.6(1.6)	132(13.5)	26	18	18	18	12	10								
HR-3A409W	8.8(0.9)	73(7.5)	39	30	25	18	12									
HR-3A516W	15.6(1.6)	132(13.5)	26			20	20	15								
HR-4524	23.5(2.4)	166(17.0)	13			11	11	11	8	6						
HR-4524W	23.5(2.4)	166(17.0)	26		22	22	20	12	8	6						
HR-4524T	23.5(2.4)	166(17.0)	39	35	35	30	20	12								
HR-4624W	23.5(2.4)	166(17.0)	26			24	24	22	16	12						
HR-4624T	23.5(2.4)	166(17.0)	39			40	32	22	16							
HR-5736	35.3(3.6)	196(20.0)	13						15	15	15	10				
HR-5736W	35.3(3.6)	196(20.0)	26				32	32	30	20	15	10				
HR-5736T	35.3(3.6)	196(20.0)	39				50	35	30	20						
HR-6855	53.9(5.5)	245(25.0)	12							16	13	10				
HR-6855W	53.9(5.5)	245(25.0)	24						35	35	25	20				
HR-6855T	53.9(5.5)	245(25.0)	36					55	45	35						
HR-6975W	73.5(7.5)	333(34.0)	24							38	38	30	22			
HR-6975T	73.5(7.5)	333(34.0)	36							60	50	40	30			

WHR TYPE HOSE REEL (low pressure double winding)

WHR-2A305	4.9(0.5)	49(5.0)	20	9	6	4										
WHR-3A409	8.8(0.9)	73(7.5)	19	15	11	7										
WHR-3A516	15.6(1.6)	132(13.5)	13		11	11	9									
WHR-3A516W	15.6(1.6)	132(13.5)	26	20	16	11										

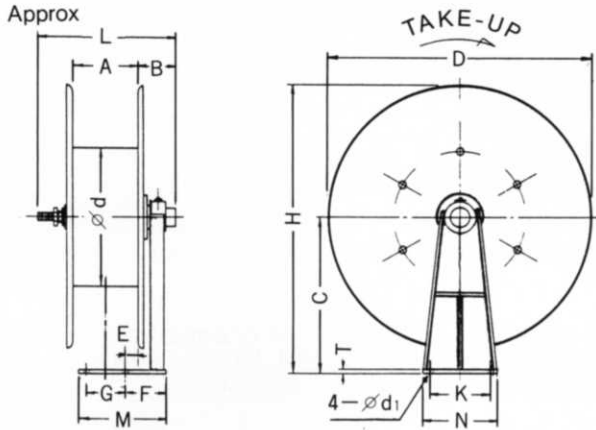
note) 1. ①Fluid air ②Working air pressure less than 1MPa {10 kgf/cm²} ③Horizontal Recovery, Vertical Recovery
④Winding speed less than 30m/min. ⑤The setting height is less than the dia of drum cover (D dimension).

2. In the above table we do not consider the influence of guide roller, bent winding, low temperature, and so on. So, please select the MODEL with room in hard condition.

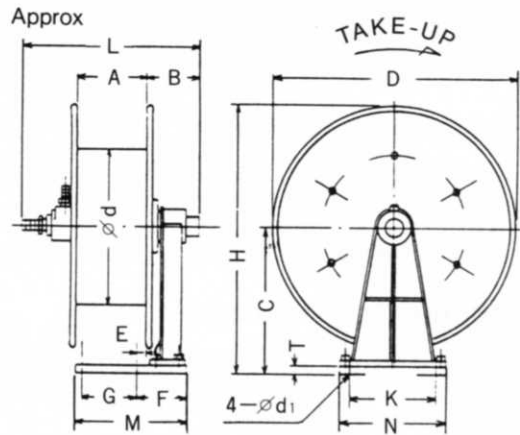
3. Please select the MODEL in the frame judging from the hose tension and multiplicative between hose and drum.



HR-2205~3A516W



HR-4524~6975T



CONNECTION SIZE (RC)	DIMENSIONS (mm)															MASS (kg)
	D	d	A	B	C	H	L	E	G±1	K±1	M	N	F	T	d ₁	
3/8	292	200	75	64	185	331	185	5.0	65	100	145	125	50.5	8	9	8
3/8	350	200	75	64	215	390	185	5.0	65	100	145	125	50.5	8	9	9
3/8	350	200	110	64	215	390	220	22.5	65	100	145	125	68.0	8	9	11
3/8	350	200	110	64	215	390	220	22.5	65	100	145	125	68.0	8	9	11
1/2	440	230	75	65	260	480	195	4.0	65	100	145	125	50.5	8	9	12
1/2	440	230	110	65	260	480	230	21.5	65	100	145	125	68.0	8	9	16
1/2	440	230	110	65	260	480	230	21.5	65	100	145	125	68.0	8	9	16
1/2	510	230	110	65	300	555	230	22.5	65	100	160	150	73.5	8	9	20
3/4	510	280	127	90	305	560	320	13.5	100	160	200	195	83.5	16	13	27
3/4	510	280	127	90	305	560	320	13.5	100	160	200	195	83.5	16	13	32
3/4	510	280	127	90	305	560	320	13.5	100	160	200	195	83.5	16	13	38
3/4	630	280	127	90	370	685	320	13.5	100	160	200	195	83.5	16	13	36
3/4	630	280	127	90	370	685	320	13.5	100	160	200	195	83.5	16	13	41
1	750	360	127	82	435	810	330	13.5	100	160	210	240	94.5	19	13	46
1	750	360	127	82	435	810	330	13.5	100	160	210	240	94.5	19	13	53
1	750	360	127	82	435	810	330	13.5	100	160	210	240	94.5	19	13	60
1 1/4	870	440	166	82	500	935	390	23.0	120	200	245	290	104.0	22	13	66
1 1/4	870	440	166	82	500	935	390	23.0	120	200	245	290	104.0	22	13	77
1 1/4	870	440	166	82	500	935	390	23.0	120	200	245	290	104.0	22	13	88
1 1/4	1000	440	166	97	565	1065	390	23.0	120	200	280	330	119.0	22	13	102
1 1/4	1000	440	166	97	565	1065	390	23.0	120	200	280	330	119.0	22	13	117

3/8	350	200	110	102	215	390	249	22.5	65	100	145	125	68.0	8	9	10
3/8	440	230	110	102	260	480	249	22.5	65	100	145	125	68.0	8	9	12
1/2	510	230	110	106	300	555	267	22.5	65	100	160	150	73.5	8	9	17
1/2	510	230	110	106	300	555	303	22.5	65	100	160	150	73.5	8	9	20

(Without hose)

4. When operating, we recommend the reels are operated within 80% of max. Winding length.
5. It is possible for HR-4524~6975T to set the base plate reverse.
But, for some spec, it is impossible to reset the base plate so that the base plate is welded.
6. For some kinds of fluids, we can not produce the reels. Please advise us in advance.
7. In case of reverse winding or other spec, please advise us. We will produce it by prearrangement.
8. We recommend the upright setting.



Information

1. Specification for machine

- The winding speed shall be less than 30m/min. But if you require higher speed, please consult us. (Max. 60m/min)
- The working frequency shall be 50 times a day. (This means there and back.)

2. Specification for slip ring

- These are based on an alternating current (AC). If you require a direct current (DC), please consult us. (In the direct current, it is impossible to use the same slip ring as an alternating current, in view of spark and heat.)
- If the signal conducts are used with the power conducts in the same cable, the malfunctioning will occur.

3. Specification for painting

- Standard painting
Thermosetting acrylic resin baking coating - CRL, CRF, HR, WHR
Phthalic resin coating - CRB, Torque motor type, Geared motor type, SR, WORY
- Painting color
Munsell 2,5Y 7/10 (Yellow)

4. Circumstances

- Heat resistance..... Surrounding temperature
Within $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$
(For electric type within $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$)
- Waterproof..... Rain-proof, so, these can be used outdoor. (CRF is for indoor only)
- Corrosion resistance..... Please consult us on occasion.
(Against sea and chemicals)

Accessories (For CRL TYPE, HR TYPE)

• Guide roller (arm type, pipe type)

This is the guide for the cable (hose) when the winding direction is not stable.

• Turning table

This is used with the guide roller when the angle of the winding direction must be changed.
(The angle shall be within 120° .)

• Ratchet device

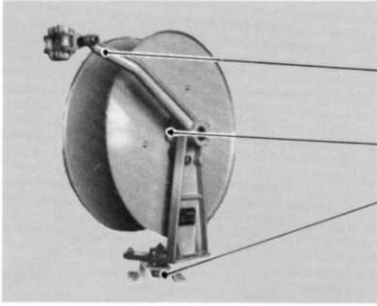
This is used when winding force is not required at pulling out the cable (hose), such as for electric tools and air tools.

• Swivel base (SRB TYPE)

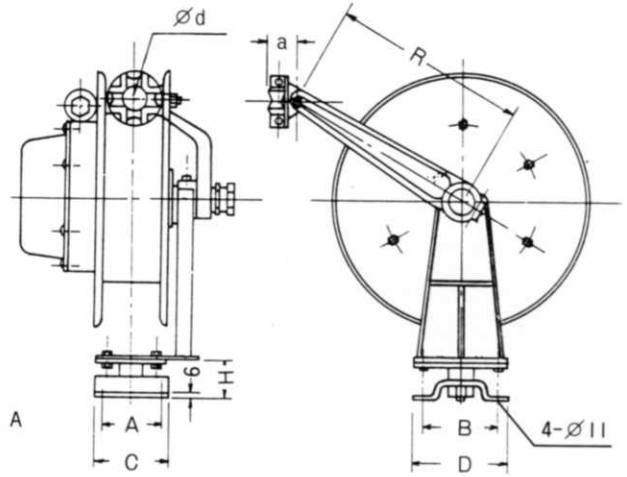
This is used for turning table to protect the twist of supplying side cable when the winding direction varies at 360° .

• Joint base (SJ TYPE)

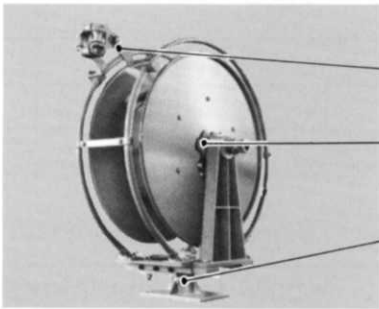
This is used for turning table to protect the twist of supplying side hose when the winding direction varies at 360° .



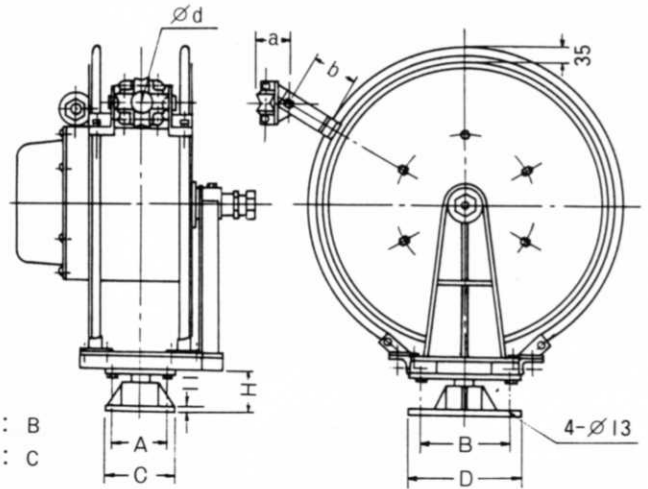
Arm type guide roller
($\phi 30, \phi 40$)
Ratchet device
Turning table



Type : A



Pipe type guide roller
($\phi 40, \phi 50, \phi 65$)
Ratchet device
Turning table



Type : B
Type : C

Turning table

Type	Available Model	Dimensions (mm)				
		A	B	C	D	H
small	CRL-22~3A4 HR-22~3A5	75	100	100	125	50
medium	CRL-4M4~56 HR-45~57	100	160	125	200	75
large	CRL-6M7~78 HR-68~69	120	200	150	240	100

Pipe type guide roller

Type	Available Model	Dimensions (mm)			Available dia.
		ϕd	a	b	
$\phi 40$	CRL-44~78 HR-45~69	40	54	87	$\phi 25$
$\phi 50$	CRL-44~78 HR-45~69	50	60	102	$\phi 35$
$\phi 65$	CRL-44~78 HR-68~69	65	69	118	$\phi 50$

note) It is impossible to set the $\phi 65$ guide roller to CRL-4M4~5M6 Model whose width of drum is 127 mm.

Arm type guide roller

Available Model	Dia. of roller ϕd (mm)	Dimensions (mm)	
		a	R
CRL-2200 HR-2200	30	38	230
CRL-3300 HR-2300	30	38	260
CRL-3400 HR-3400	30	38	310
HR-3500	30	38	360
CRL-4400	40	54	325
CRL-4500 HR-4500	40	54	365

Ratchet device

Type	Available Model
05 ~ 16	CRL-22~3A4 HR-22~3A5
24 ~ 55	CRL-4M4~56 HR-45~68



■ To select the suitable Model (for cable reel).

no	Items	example	working condition
1	The kind of cable	2 RNCT	
2	Square of cable	8 mm ²	
3	The number of conducts	4	
4	Outer dia. of cable	∅ 19	
5	Unit Mass of cable	0.7 kg/m	
6	Working voltage	AC220V/60Hz	
7	Working current	30A	
8	Traveling	40m	
9	Winding speed Working frequency	25m/min, 50times/day	
10	Working method	Horizontal recovery	
11	Purpose	Gantry crane	
12	Place, surrounding temperature	Outdoor, +40°C	
13	Setting height	0.5 m	
14	Horizontal Suspension Application	—	
15	Accessaries	no	
16	Other request	reverse winding	
17	The number of products	2	
18	Delivery time		

note) Please advise us the illustrations.

■ To select the suitable Model (for hose reel).

no	Items	example	working condition
1	The kind of hose, maker	F15-9 Togawa	
2	Inner dia. of hose	∅9.5 mm	
3	Outer dia. of hose	∅15.9 mm	
4	Unit Mass of hose, Bending radius of hose	95mm, 0.175 kg/m	
5	Fluid	Air	
6	Working pressure	0.5MPa {5kgf/cm ² }	
7	Pressing winding	exist	
8	Traveling	20m + extension (3m)	
9	Winding speed Working frequency	30m/min, 30times/day	
10	Winding method	Horizontal recovery	
11	Purpose	mable car	
12	Place, surrounding temperature	Indoor, +40°C	
13	Setting height	0.5m	
14	Horizontal suspension Application	—	
15	Accessaries	no	
16	Other requests	Rubber chloride type painting	
17	The number of products	2	
18	Delivery time		

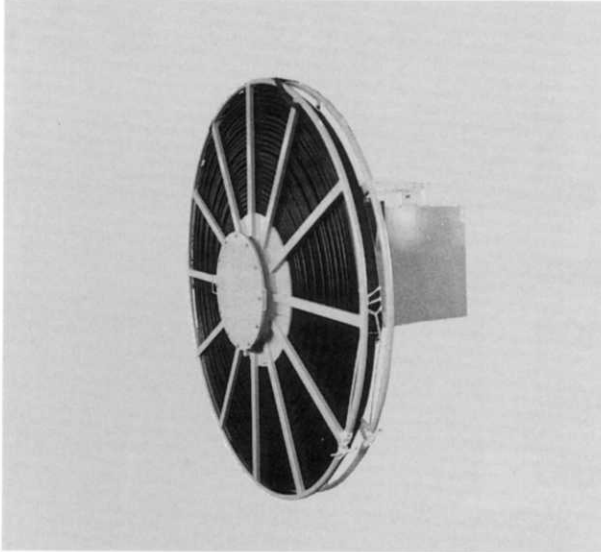
note) Please advise us the illustrations.

The above specification is based on Japanese one.

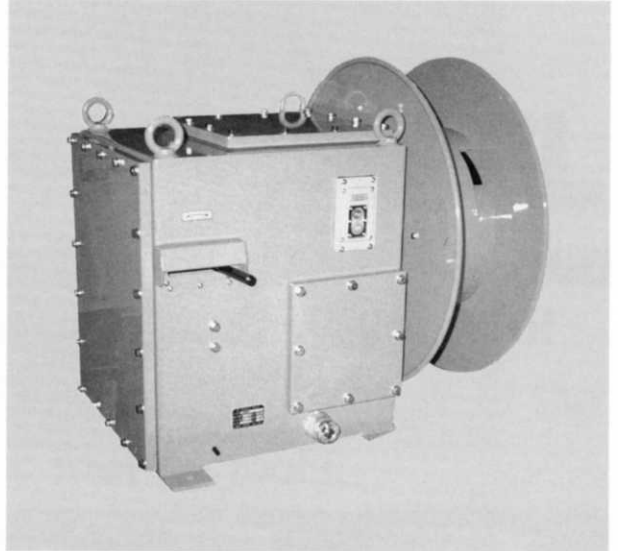


■ For special purpose

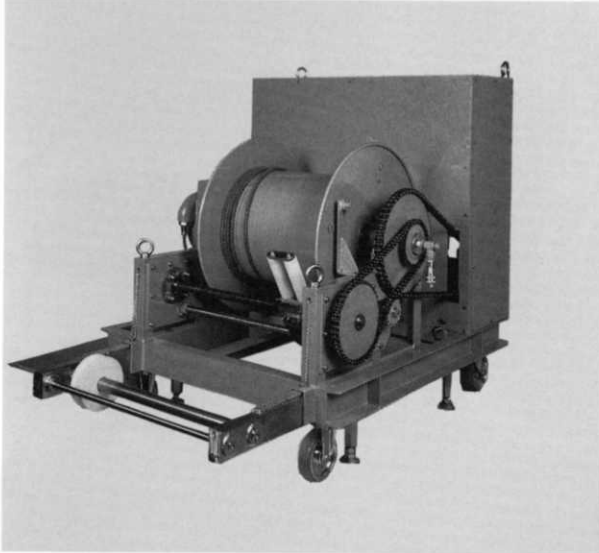
Torque moter type cable reel



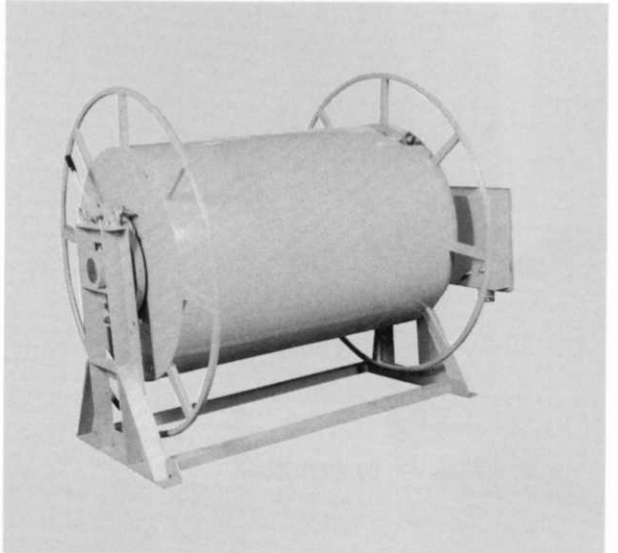
Electric cable reel with the clutch



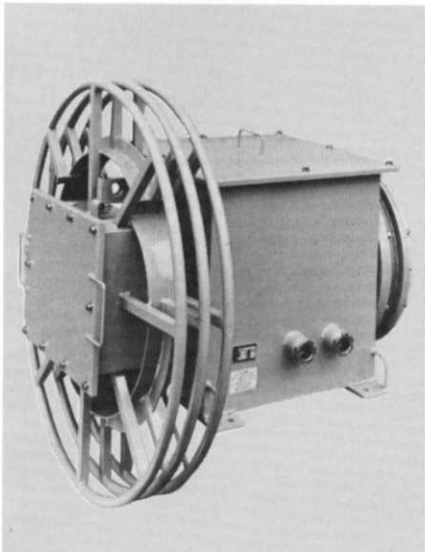
Geared motor type cable reel



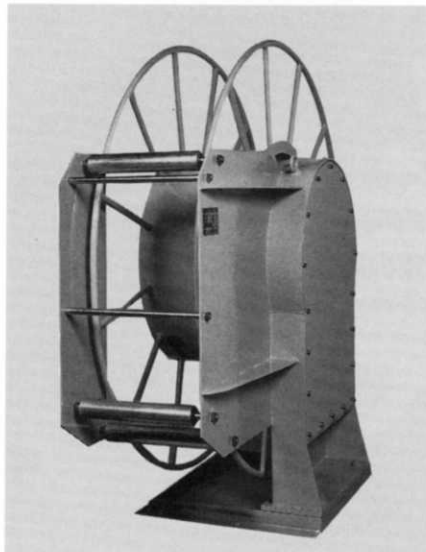
Cable reel for high voltage



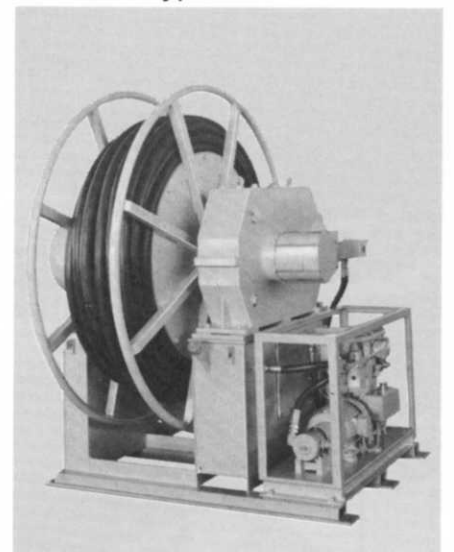
Double winding cable reel



Oil motor type cable reel

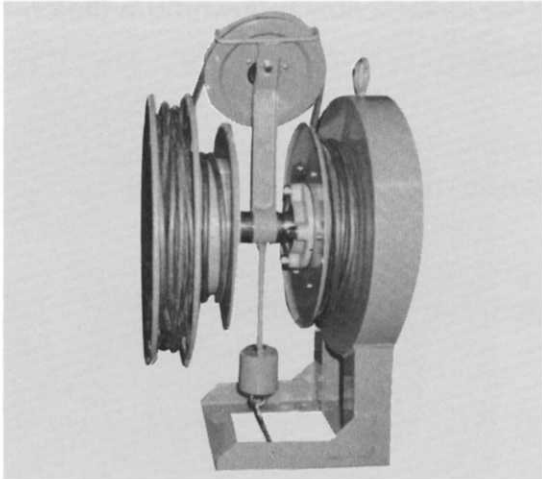


Oil motor type cable reel

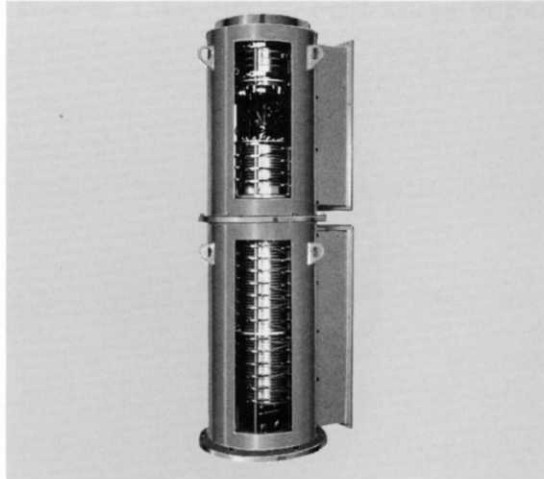




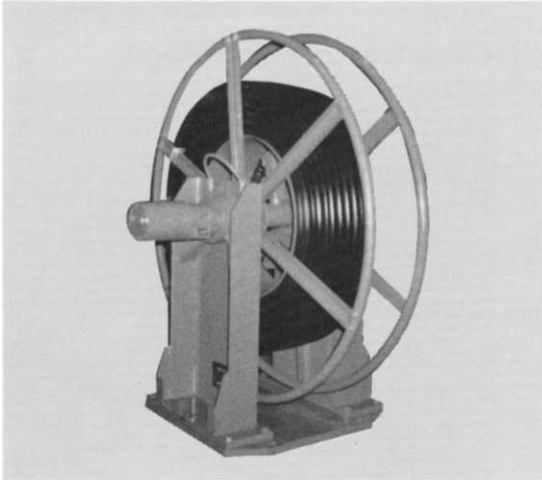
Slip ringless reel



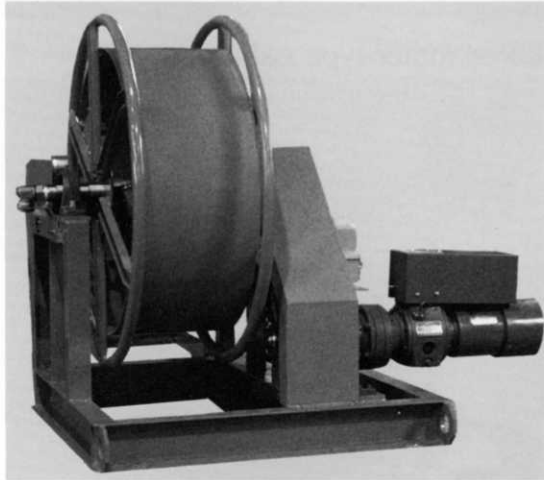
Slip ring



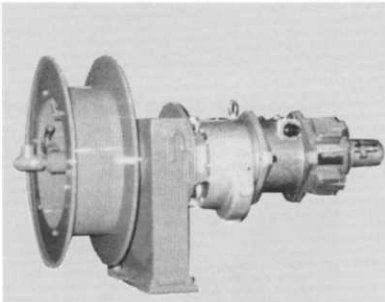
Oilmotor type hose reel



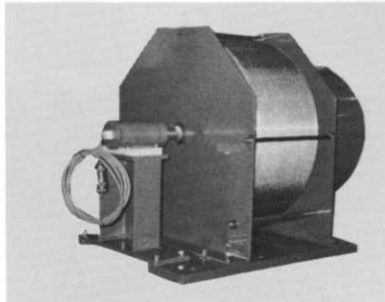
High pressure hose reel driven by electric motor



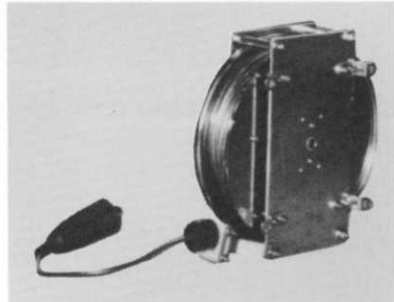
Hose reel driven by air motor



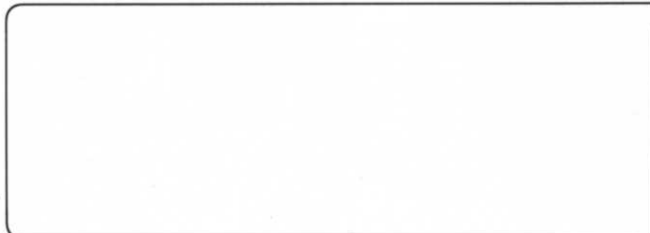
Wire reel (To detect the cable lengths)



Grounding reel



- Various circular sawing machine ● Various circular saw grinding machine ● Flange facer ● Spring balancer
- Air hoist ● Cable reel ● Hose reel ● Wire reel ● Self lock



MANUFACTURER
 **ENDO KOGYO CO., LTD.**
 Head Office & Plant : 3-14-7, Akibacho, Tsubame, Niigata, Japan
 Tel. 0256-62-5131 FAX. 0256-62-5772
 Tokyo Office : Tanaka Bldg., 2F, 12, Kanda Higashimatushita-cho,
 Chiyoda-ku, Tokyo, Japan
 Tel. 03-5295-3711 FAX. 03-5295-3717
 Osaka Office : Daito Bldg., 3F, 3-14, Saiwaicho 2-Chome,
 Naniwa-ku, Osaka, Japan
 Tel. 06-568-1571 FAX. 06-568-1573

* We can renew the product on this catalogue without a notice in order to improve its ability.