WADN							Model	l	Part Number	Motor	Туре
INDUSTRIAI		RN Indus	strial \	Ninch		Hyo M	Series 2(draulic V anual Cl	Vinch utch	77570	Hydra 7.9 ci (1	30cc)
						high effic with a persuperior are also tension p mounting Warn Se	tiency hydrau rmanently lu intermittent- available wit plate is stand g options to f	lic motor, an ibricated and duty performa h manual or a lard along wit it a variety of hes are not s	combines durable cash d a robust 2X rated lo hardened 2-stage pla ance for loads up to 30 air clutches and 2 drur h bi-directional operat applications. uitable for hoisting ap	ad braking sy netary gear t 0,000 lbs.Wir m widths. A r tion and a va	ystem rain fo nches oller
	2							Acc	essories		
						Wire Rop	SRS-XL-LO	9/16"x245' E	Part Number 77869 IPS 77452 80858		
Engineering Data						Drum Rotation			Standards Compliance		
Rated Pulling Force:		20000	lbf	9072	kgf				-	liance	
Drum Barrel Diameter:		5.75	in	146	mm				1SAE J706 2CE Machinery Directiv	ve 98/37/EC and	d
Orum Flange Diameter:		12.25	in	311	mm	_			2006/42/EC		
Distance Between Flanges:		14	in	356	mm						
Recommended Maximum Wire Rope Diameter:				14.3 mm							
Recommended Maximum Wire	Rope Diameter:	9/16	in	14.3	mm						
			in Ibf	14.3	mm kgf			A			
Recommended Minimum Wire R Approximate Shipping Weight:	Rope Breaking Strength:	33600 322	lbf lb	15241 146		4	C				
Recommended Minimum Wire R Approximate Shipping Weight:	Rope Breaking Strength:	33600 322 2760	lbf lb ft	15241 146 841.2	kgf	4	C				
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Mounting Bolt Torque:	Rope Breaking Strength:	33600 322 2760	lbf ft	15241 146 841.2	kgf kg	4	C				
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Mounting Bolt Torque:	Rope Breaking Strength:	33600 322 2760	lbf lb ft	15241 146 841.2	kgf kg m	4	C				
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Mounting Bolt Torque: Maximum Layers of Wire Rope: Gear Reduction:	Rope Breaking Strength:	33600 322 2760 159 f	lbf lb ft t*lbf 28.5:1	15241 146 841.2 216	kgf kg m	4	C				
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Mounting Bolt Torque: Maximum Layers of Wire Rope: Gear Reduction: Brake Type:	Cope Breaking Strength:	33600 322 2760 159 f	lbf lb ft t*lbf 28.5:1 Spring Applie	15241 146 841.2 216	kgf kg m		ewed from Mor	tor End			
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Mounting Bolt Torque: Maximum Layers of Wire Rope: Sear Reduction: Brake Type:	Rope Breaking Strength:	33600 322 2760 159 f	lbf lb lb ft lt t*lbf 5 28.5:1 Spring Applie N/A	15241 146 841.2 216 ed Disk	kgf kg M N*m	-	ewed from Mot	tor End			
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Mounting Bolt Torque: Maximum Layers of Wire Rope: Sear Reduction: Brake Type:	Performance	33600 322 2760 159 f By Layer-	lbf lb ft ft 28.5:1 Spring Applie N/A 9/16" (1	15241 146 841.2 216 ed Disk 4.3 mm)	kgf m N*m	ре					
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Mounting Bolt Torque: Maximum Layers of Wire Rope: Gear Reduction: Brake Type:	Performance	33600 322 2760 159 f By Layer-	lbf lb lb ft ft 28.5:1 Spring Applie N/A 9/16" (1 Line Spe	15241 146 841.2 216 ed Disk 4.3 mm) peed 15 GPM	kgf kg m N*m dia. ro Line Spee	ре ed 20 GPM	Drum (Capacity	60.0		
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Aounting Bolt Torque: Aaximum Layers of Wire Rope: Gear Reduction: Brake Type: Contactor / Remote Type: Drum Layer	Performance Line Loac	33600 322 2760 159 f By Layer- * kgf kN	lbf Ib ft Ib ft Ib t*lbf Ib 28.5:1 Spring Applie N/A 9/16" (1 Line Spe ft/min	15241 146 841.2 216 ed Disk 4.3 mm) eed 15 GPM m/min	kgf kg m N*m dia. ro Line Spee ft/min	pe ed 20 GPM m/min	Drum C ft	Capacity m		PM	
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Aounting Bolt Torque: Aaximum Layers of Wire Rope: Bear Reduction: Brake Type: Contactor / Remote Type: Drum Layer 1	Performance lbf 20000	33600 322 2760 159 f By Layer- * kgf kN 9072 89.0	lbf lb lb ft ft 28.5:1 Spring Applie N/A 9/16" (1 Line Spe ft/min 22.8	15241 146 841.2 216 ed Disk 4.3 mm) seed 15 GPM m/min 6.9	kgf kg m N*m dia. ro Line Spee ft/min 28.5	pe ed 20 GPM m/min 8.7	Drum C ft 36	Capacity m 11.0		iPM	
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Aounting Bolt Torque: Aaximum Layers of Wire Rope: Bear Reduction: Brake Type: Contactor / Remote Type: Drum Layer 1 2	Performance Ibf 20000 16975	33600 322 2760 159 f By Layer- * kgf kN	Ibf Ibf Ib ft ft 28.5:1 Spring Applie N/A 9/16" (1 Line Spectrum ft/min 0 22.8 5 26.9	15241 146 841.2 216 ed Disk 4.3 mm) eed 15 GPM m/min	kgf kg m N*m dia. ro Line Spee ft/min	pe ad 20 GPM m/min 8.7 10.2	Drum C ft	Capacity m		IS GPM	
Accommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Aounting Bolt Torque: Maximum Layers of Wire Rope: Brake Type: Contactor / Remote Type: Drum Layer 1	Performance lbf 20000	33600 322 2760 159 f By Layer- k gf kN 9072 89.0 7700 75.5	Ibf Ibf Ib ft ft 5 28.5:1 28.5:1 Spring Applie N/A 9/16" (1 Line Spring ft/min 0 22.8 5 26.9 31.0	15241 146 841.2 216 ed Disk 4.3 mm) m/min 6.9 8.2	kgf kg m N*m dia.ro Line Spee ft/min 28.5 33.5	pe ed 20 GPM m/min 8.7	Drum (ft 36 79	Capacity m 11.0 24.1	20 G (t/wiii) 40.0 20 G		
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Mounting Bolt Torque: Maximum Layers of Wire Rope: Gear Reduction: Brake Type: Contactor / Remote Type: Drum Layer 1 2 3	Performance Ibf 20000 16975 14745	33600 322 2760 159 f By Layer- 1* kgf kN 9072 89.0 7700 75.5 66688 65.6	lbf lbf lb ft ft 28.5:1 Spring Applie N/A 9/16" (1 Line Spring ft/min 0 22.8 3 5 26.9 3 31.0 0 35.0	15241 146 841.2 216 ed Disk 4.3 mm) bed 15 GPM m/min 6.9 8.2 9.4	kgf kg m N*m dia.ro Line Spee ft/min 28.5 33.5 38.6	pe ad 20 GPM m/min 8.7 10.2 11.8	Drum (ft 36 79 129	Capacity m 11.0 24.1 39.3	20 G 40.0 20.0 20.0 C		
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Aounting Bolt Torque: Aaximum Layers of Wire Rope: Gear Reduction: Brake Type: Contactor / Remote Type: Drum Layer 1 2 3 4	Performance Line Load lbf 20000 16975 14745 13032 11676	33600 322 2760 159 f By Layer- 4* kgf kN 9072 89.0 7700 75.5 6688 65.6 5911 58.0 5296 51.9	Ibf Ibf Ib ft ft 28.5:1 Spring Applie N/A 9/16" (1 Line Spring ft/min 0 22.8 5 26.9 31.0 0 35.0 39.1	15241 146 841.2 216 ed Disk ed Disk ed 15 GPM m/min 6.9 8.2 9.4 10.7 11.9	kgf kg m N*m dia. ro Line Spee ft/min 28.5 33.5 38.6 43.7	pe ad 20 GPM m/min 8.7 10.2 11.8 13.3	Drum (ft 36 79 129 185	m 11.0 24.1 39.3 56.4	20 G (t/wiii) 40.0 20 G		
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Mounting Bolt Torque: Maximum Layers of Wire Rope: Gear Reduction: Brake Type: Contactor / Remote Type: Drum Layer 1 2 3 4 5	Performance Line Load lbf 20000 16975 14745 13032 11676 ig Force. Installation of a	33600 322 2760 159 f By Layer- 4* kgf kN 9072 89.0 7700 75.5 6688 65.6 5911 58.0 5296 51.9	Ibf Ibf Ib ft ft 28.5:1 Spring Applie N/A 9/16" (1 Line Spring ft/min 0 22.8 5 26.9 31.0 0 35.0 39.1 mitter is record mitter is record	15241 146 841.2 216 ed Disk ed Disk ed 15 GPM m/min 6.9 8.2 9.4 10.7 11.9 mmended.	kgf kg m N*m dia. ro Line Spee ft/min 28.5 33.5 38.6 43.7	pe ad 20 GPM m/min 8.7 10.2 11.8 13.3	Drum (ft 36 79 129 185	m 11.0 24.1 39.3 56.4	20 G 20.0 0.0	15 GPM	5
A commended Minimum Wire R pproximate Shipping Weight: buty Cycle (intermittent per SAE Adounting Bolt Torque: Aaximum Layers of Wire Rope: Gear Reduction: Irrake Type: Contactor / Remote Type: Drum Layer	Performance Line Load lbf 20000 16975 14745 13032 11676 ng Force. Installation of a	33600 322 2760 159 f By Layer- s b b b b c b b c b c c c c c c c c	Ibf Ibf Ib ft ft 28.5:1 Spring Applie N/A 9/16" (1 Line Spring ft/min 0 22.8 5 26.9 31.0 0 35.0 39.1 mitter is record mitter is record	15241 146 841.2 216 ed Disk 4.3 mm) eed 15 GPM m/min 6.9 8.2 9.4 10.7 11.9 mmended. ance	kgf kg m N*m dia. ro Line Spee ft/min 28.5 33.5 38.6 43.7 48.8	pe ad 20 GPM m/min 8.7 10.2 11.8 13.3	Drum 0 ft 36 79 129 185 248	m 11.0 24.1 39.3 56.4	20 G 20.0 0.0	15 GPM	
Accommended Minimum Wire F Approximate Shipping Weight: Auty Cycle (intermittent per SAE Adounting Bolt Torque: Aaximum Layers of Wire Rope: Accommended Wire Rope: Accommended Provide Type: Contactor / Remote Type: Drum Layer	Performance Line Load lbf 20000 16975 14745 13032 11676 ng Force. Installation of a	33600 322 2760 159 f By Layer- s b b b b c b b c b c c c c c c c c	Ibf Ibf Ib Ib ft Ib Spring Applie N/A 9/16" (1 Line Spe ft/min Ib in 22.8 in 26.9 in 31.0 Ib 35.0 Ib 39.1 mitter is reco Perform	15241 146 841.2 216 ed Disk 4.3 mm) eed 15 GPM m/min 6.9 8.2 9.4 10.7 11.9 mmended. ance	kgf kg m N*m dia. ro Line Spee ft/min 28.5 33.5 38.6 43.7 48.8	Pe d 20 GPM m/min 8.7 10.2 11.8 13.3 14.9	Drum 0 ft 36 79 129 185 248	m 11.0 24.1 39.3 56.4 75.6	20 G 20 G 20.0 20.0 1 2 3000	15 GPM	
Line Loos	Performance Line Load 16975 14745 13032 11676 ing Force. Installation of a	33600 322 2760 159 f By Layer- s b b b b c b c c c c c c c c	Ibf Ibf Ib Ib ft Ib Spring Applie N/A 9/16" (1 Line Spe ft/min Ib in 22.8 in 26.9 in 31.0 Ib 35.0 Ib 39.1 mitter is reco Perform	15241 146 841.2 216 ed Disk 4.3 mm) eed 15 GPM m/min 6.9 8.2 9.4 10.7 11.9 mmended. ance GPM	kgf kg m N*m dia. ro Line Spee ft/min 28.5 33.5 38.6 43.7 48.8 43.7 48.8	Pe d 20 GPM m/min 8.7 10.2 11.8 13.3 14.9 sure Drop a	Drum (ft 36 79 129 185 248 at 20 GPM	m 11.0 24.1 39.3 56.4 75.6	20 G 20 G 20.0 20.0 1 2 3000 1 2	15 GPM	
tecommended Minimum Wire R pproximate Shipping Weight: tuty Cycle (intermittent per SAE founting Bolt Torque: Maximum Layers of Wire Rope: Sear Reduction: trake Type: Contactor / Remote Type: Cont	Performance Line Load 16975 14745 13032 11676 Ing Force. Installation of a kgf	33600 322 2760 159 f By Layer- s* kgf kN 9072 89.0 7700 75.5 6688 65.6 5911 58.0 5296 51.9 Rated Capacity Li First Layer Pressure psi	Ibf Ibf Ib Ib ft Ib Spring Applie N/A 9/16" (1 Line Spe ft/min Ib in 22.8 in 26.9 in 31.0 Ib 35.0 Ib 39.1 mitter is reco Perform	15241 146 841.2 216 ed Disk 4.3 mm) ed 15 GPM m/min 6.9 8.2 9.4 10.7 11.9 mmended. aance GPM BAR	kgf kg m N*m	Pe ed 20 GPM m/min 8.7 10.2 11.8 13.3 13.3 14.9 sure Drop a si	Drum (ft 36 79 129 185 248 at 20 GPM BAR	m 11.0 24.1 39.3 56.4 75.6	20 G 20 G 20.0 20.0 1 2 3000 1 2	15 GPM	
Recommended Minimum Wire R Approximate Shipping Weight: Jouty Cycle (intermittent per SAE Aounting Bolt Torque: Aaximum Layers of Wire Rope: Gear Reduction: Brake Type: Contactor / Remote Type:	Performance Definition of a Reference in the section of a Referenc	33600 322 2760 159 f By Layer- b b b b b b b b	Ibf Ibf Ib Ib ft Ib Spring Applie N/A 9/16" (1 Line Spe ft/min Ib in 22.8 in 26.9 in 31.0 Ib 35.0 Ib 39.1 mitter is reco Perform	15241 146 841.2 216 ed Disk 4.3 mm) eed 15 GPM m/min 6.9 8.2 9.4 10.7 11.9 mmended. anCe GPM BAR 60.0	kgf kg m N*m	Pe ad 20 GPM m/min 8.7 10.2 11.8 13.3 14.9 sure Drop a si 55	Drum (ft 36 79 129 185 248 at 20 GPM BAR 72.7	Capacity m 11.0 24.1 39.3 56.4 75.6 Duty Cycle min/10min N/A	20 G 20 G 20.0 20.0 1 2 3000 1 2	15 GPM	
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Aounting Bolt Torque: Aaximum Layers of Wire Rope: Sear Reduction: Brake Type: Contactor / Remote Type: Drum Layer 1 2 3 4 5 Never exceed the Rated Pullin Line Loa Ibf 0 5000	Performance Ibf 20000 16975 14745 13032 11676 ing Force. Installation of a kgf 0 2268	33600 322 2760 159 f By Layer- By Layer- k gf kN 9072 89.0 7700 75.5 6688 65.6 5911 58.0 5296 51.5 Rated Capacity Li FirSt Layer Pressure psi 870 1256	Ibf Ibf Ib Ib ft Ib Spring Applie N/A 9/16" (1 Line Spe ft/min Ib in 22.8 in 26.9 in 31.0 Ib 35.0 Ib 39.1 mitter is reco Perform	15241 146 841.2 216 ed Disk 4.3 mm) seed 15 GPM m/min 6.9 8.2 9.4 10.7 11.9 mmended. BAR 60.0 86.6	kgf kg m N*m	PC ed 20 GPM m/min 8.7 10.2 11.8 13.3 14.9 sure Drop a si 55 500	Drum (ft 36 79 129 185 248 at 20 GPM BAR 72.7 103.4	Capacity m 11.0 24.1 39.3 56.4 75.6 Duty Cycle min/10min N/A	20 G 20 G 20.0 20.0 1 2 3000 1 2	15 GPM 3 4 Layer	
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Aounting Bolt Torque: Aaximum Layers of Wire Rope: Sear Reduction: Brake Type: Contactor / Remote Type: Drum Layer 1 2 3 4 5 Never exceed the Rated Pullin Line Loc Ibf 0 5000 10000	Performance Ibf 20000 16975 14745 13032 11676 rg Force. Installation of a kgf 0 2268 4536	33600 322 2760 159 f By Layer- 4* kgf kN 9072 89.0 7700 75.5 6688 65.6 5911 58.0 5296 51.9 Rated Capacity Li First Layer Pressure psi 870 1256 1855	Ibf Ibf Ib Ib ft Ib Spring Applie N/A 9/16" (1 Line Spe ft/min Ib in 22.8 in 26.9 in 31.0 Ib 35.0 Ib 39.1 mitter is reco Perform	15241 146 841.2 216 ed Disk 4.3 mm) m/min 6.9 8.2 9.4 10.7 11.9 mmended. BAR 60.0 86.6 127.9	kgf kg m N*m dia. ro Line Spee ft/min 28.5 33.5 38.6 43.7 48.8 Pres: PP 100 15 200 200 200	pe ad 20 GPM m/min 8.7 10.2 11.8 13.3 14.9 sure Drop a sis 1055 000 770	Drum 0 ft 36 79 129 185 248 at 20 GPM BAR 72.7 103.4 142.7	Duty Cycle min/10min N/A	Image: constraint of the state of	15 GPM 3 4 Layer	
Recommended Minimum Wire R Approximate Shipping Weight: Duty Cycle (intermittent per SAE Aounting Bolt Torque: Aaximum Layers of Wire Rope: Gear Reduction: Brake Type: Contactor / Remote Type: Con	Performance Ibf 20000 16975 14745 13032 11676 rg Force. Installation of a ad kgf 0 2268 4536 6804	33600 322 2760 159 f By Layer- k gf kN 9072 89.0 7700 75.5 6688 65.6 5911 58.0 5296 51.9 Rated Capacity Li First Layer Pressure psi 870 1256 1855 2470	Ibf Ibf Ib Ib ft Ib Spring Applie N/A 9/16" (1 Line Spe ft/min Ib in 22.8 in 26.9 in 31.0 Ib 35.0 Ib 39.1 mitter is reco Perform	15241 146 841.2 216 ed Disk 4.3 mm) ed Disk 4.3 mm) 6.9 8.2 9.4 10.7 11.9 mmended. ance GPM BAR 60.0 86.6 127.9 170.3	kgf kg m N*m dia. ro Line Spee ft/min 28.5 33.5 38.6 43.7 48.8 Pres: PP 100 15 200 26	PE 20 GPM m/min 8.7 10.2 11.8 13.3 14.9 sure Drop a si 55 500 77 330	Drum 0 ft 36 79 129 185 248 at 20 GPM BAR 72.7 103.4 142.7 181.3	Duty Cycle min/10min N/A N/A	iuiuiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	15 GPM 3 4 Layer	

