

Customer	:	Behran Asanbar
Reference	:	Selection HW134, 480Kg - 1 m/s (AC2 - 9HP)
Offer	N° :	TEST
	Date	05/06/2015

TECHNICAL SECTION

PLANT		GEARBOX		GEARBOX SELECTION CHECK			
Position	↑	Gearbox type	HW134	Item	Required	Selected	Test
Roping	1:1	Traction sheave position	↑T (L)	Car rated speed	1,00 m/s	1,03 m/s	+2,8%
Balance	50 %	Ratio	42/1	Output torque	960 Nm	1.080 Nm	+12,5%
Duty load	480 Kg	Traction sheave diam.	550 mm	Static load	1.822 Kg	2.300 Kg	+26,3%
Car weight	550 Kg	Ropes number	4	Grooves edges	min 2,0 mm	5,3 mm	OK !!
Counterweight	790 Kg	Ropes diameter	10	Tr.Sh. Sides	min 3,4 mm	4,1 mm	OK !!
Shaft efficiency	0,80	Groove type	Y	Motor power	5,1 kW	6,1 kW	+20,1%
Car travel	30,0 m	V-Angle	35 °	Ropes safety according to EN81/1:1985			
Ropes compensation	0 %	Undercut angle	105 °	Safety factor	12,0	20,7	OK !!
Rope comp. weight	0,0 Kg	Wrap angle	155 °	Ropes safety according to EN81/1:1998			
Ropes distance	700 mm	Pitch of grooves	17,0 mm	Safety factor	14,4	20,7	OK !!
Car rated speed	1,00 m/s	Undercut	7,93 mm	Traction and spec.press. according to EN81/1:1985			
Mass of tension device	0 Kg	Tract. ropes weight	44,8 Kg	T ₁ /T ₂ * c ₁ * c ₂ (a) =	max 2,247	2,178	OK !!
Weight/m of traveling cable	0 Kg/m	MOTOR		T ₁ /T ₂ * c ₁ * c ₂ (b) =	max 2,247	2,186	OK !!
Ropes strength class	1770 N/mm ²	Drive system	AC2	Specific pressure	max 8,190	7,164	OK !!
Plant data for		Poles	4/16	Traction calculations according to EN81/1:1998			
Traction calculations according to EN81/1:1998		Power	6,1 kW	Car loading condition			
Ø average defl.pulley carside	0 mm	Drive system frequency	50 Hz	Car empty low	1,919	1,328	OK !!
Ø average defl.pulley count.side	0 mm	Motor nom.frequency	50 Hz	Car empty up	1,919	1,518	OK !!
Ø pulley for tension device	0 mm	Voltage	380/220	Car full low	1,919	1,512	OK !!
Main defl.pulley (1=yes;0=no)	1	St/h	180	Car full up	1,919	1,378	OK !!
Pos.defl.pulley (1=car;0=count.)	0	RPM	1500/375	Emergency braking condition (a=0.5 m/s²)			
Ø main defl. pulley	400 mm	Power	9,0 Hp	Car empty low in up direction	1,814	1,474	OK !!
N° defl.pulleys with simple defl.	0	FLYWHEEL TYPE		Car empty up in up direction	1,814	1,684	OK !!
N° defl.pulleys with reverse defl.	0	Flywheel type	134A	Car full low in down direction	1,814	1,508	OK !!
Friction in the shaft carside	0,0 N	Stg.accel.fl.up	0,66 m/s ²	Car full up in down direction	1,814	1,368	OK !!
Friction in the shaft count.side	0,0 N	Stg.accel.fl.down	0,96 m/s ²	Stalled condition			
Wrap angle calculation		Retardation fl.up	0,78 m/s ²	Car stalled low in low direction	6,045	17,217	OK !!
Vert.dist.pulley axis	800 mm	Retardat.fl.down	0,54 m/s ²	Car stalled up in low direction	6,045	350,182	OK !!
Wrap angle	169,5 °	Torque of mech. brake	82,47 Nm	Count. stalled up in low dir.	6,045	249,645	OK !!
		Theor.lev.accuracy	±8,7 mm	Count. stalled low in low dir.	6,045	11,995	OK !!
		Total mom.of iner.	0,69 Kgmm ²				

COMMERCIAL SECTION

OPTIONALS	OFFER
Packing	MESSRS. Behran Asanbar
Bed plate	HEREBELOW PLEASE FIND SUMMARY OF TECHNICAL DATA AND OFFER :
Brake electrom.voltage	- GEARBOX HW134 ; Traction sheave position (L) ; Ratio 42/1
Rope guard	complete in delivery with syntethic oil and use&maintenance manual
Tropicalization	- TRACTION SHEAVE Ø 550 mm ; 4 x ø10 ; Groove type Y ; V-Angle 35 ° ;
Kit encoder	Undercut angle 105 ° ; Undercut 7,93 mm ; Pitch of grooves 17 mm
Rope clamp	- MOTOR ; Drive system AC2 ; 4/16 Poles ; 6,1 kWasy (9 Hp) ; 380/220 V ;
Personal/customer Plate	50 Hz ; 180 St/h ;
Special painting	- FLYWHEEL TYPE 134A
	- BRAKE ELECTROMAGNET 200V
	- PACKING Wooden box : HW134
	- ROPE GUARD
	 Note / assumed data: The following data have been assumed for EN-81 calculation: Considered traction sheave diameter 550mm, ropes 4x10mm, pitch of grooves 17mm Cabin total weight 550kg, travel till 30 mts (10/11 stops), 50% lift balancing (if more than 11 stops, compensation for ropes weight is required) Motor power : 6.1Kw (9Hp)
	NET UNIT PRICE
	DELIVERY TERMS
	PAYMENT CONDITIONS
	NOTES :
	We remain at your disposal for any information you may need, and awaiting your kind order confirmation. Thanks & Best Regards,
	GEM S.r.l. Sales Dept.