

Request Checklist for

Electric swing clamps as per data sheet B 1.8310/B 1.8320 (parallel drive)

ATA		
Company / Customer	Town	Customer no.
Contact person	Department	
Email Email	Phone	
шо		
Request recorded by (name / company)		Date
Project Designation		
End		
customer	Site	
Task		
For what type of application the electric swing clamp shall be	used?	
Installation conditions and installation space (send also sketch or drawing)		

Electric Swing Clamp Va	ariant					
Check box	Size 1833 XXX (top flange) Size 1835 XXX (top flange)					
Check box	_	XX (parallel drive)				
Installation situation						
Swing angle	□ 0°	☐ 90°	180°		other	(min. 45°)
Direction of rotation	without	clockwise rotation	counterclo	ckwise rotation		
	_	benefits	_			
Mounting position	vertical <	hanging upright	horizontal			
Position of the clamping Please mark in the sketch			1 2 3 4 5	11 12 1 10 9 • Clamp 3	2 3- 4 8	11 12 1 0 2 3 4 7 6 5 Clamp 4
Clamping arm	_	as per data sheet B 1.831 0		o as per data she		
Special clamping arm	Special clar		odel available se send step file)		erial	
	Note:					
	Size		1833	1835		
	Clamping arm		max. 95	max. 150		
	Radial torque [Moment of ine		0.1 0.00045	0.4 0.008		
		ι ιια [ΝΥΙΙΙ]	0.00040	0.000		
		Is the evaluation of the clamping arm by ROEMHELD desired? yes (clamping arm length, radial torque, moment of inertia)				
	If a 3D model is r	are an offer for the eval not available, ROEMHELD pr I on a manufacturing drawing arm.	epares a 3D mode] yes	no no

Is the workpiece to be posi	tioned or to be pulled agains		yes no	Sv
	Displacement force F _V =	[N]		
Condition:	Displacement stroke s _V =	[mm]		Fv
The subsequent clamping fo	rce is to be adjusted at least to ce F _V is depending on the clan		en 0.7 and 1.1 kN.	
Note: Evaluate the maximum displacement of the Calculation according to the	acement force as per diagram formula F _V = Fsp * 15 %	on data shee B 1.8310/E	31.8320.	
Is there the risk of side load	d introduction during clampii	ng / unclamping?	yes no	
Description of the side loa	d:			
	de loads ($F_{f Q}$), apart from the ${f g}$ arms, are generally to be a			
Examples of side load introd	uction:			
could lead to wear of the guid This type of load can e.g. be of ping of the clamping screw or	rotatory loads must not be intro- le elements or to damage of the generated by clamping on an ind the inclined surface, a side loa internal mechanics of the elect	components. clined surface. Due to the id to the clamping arm wi	e slip-	FQ
Environmental conditions	dry dry			
	minimum quantity lubric	cation		
	dust			
	wet			
	Type:			
removed and a vent hose has The other end of the hose ha	ids penetrate into the electric s to be connected. s to be placed to an absolutely ct a dry positive air pressure p	dry area where no liqui		
	Ambient temperature [C° Admissible: -10 +40 °C	']		
Must vibrations/oscillations	s be expected?	yes no		
Note: Vibrations/oscillations	s can lead to the loss of self-loo	cking when disconnectin	ng the power supply.	

Römheld GmbH

s a metallic wiper required?	yes no		
What type of swarf/contamination is xpected?	to be		
Apolica:			
Vhat is the number of load changes?			
oad changes/day	Load changes/week	Lo	ad changes/month
lote: It is recommended to send the	electric swing clamp after 500,00	00 clamping cycles to R	OEMHELD for overhaul.
On this occasion, the spring ele	ements are replaced, and the spir	ndle is cleaned and grea	ased.
What control is provided for the electi	ric swing clamps?		
low are they controlled?	PLC conventional pus	sh-button contacts	IO link
•	Note:		
	Provide error display/error eval	uation	
	Provide error reset possibilityProvide error handling routine,	if necessar	
	Observe power supply unit dim		
	- at least 8 A for size 1833 - at least 15 A for size 1835		
	Couplings for standard plugs as	vailable as accessories	
s the electric swing clamp automatic	ally coupled electrically?	yes	no
	Note:		
	Coupling and uncoupling must	only be effected in de-er	nergised state
able length/cable cross section	Size 1833	Size 1835	
able length/eable of occ section			
	_	$\sim 7 \text{ m} = 1.5 \text{ mm}^2$	
	\sim 20 m = 1.5 mm ²	\sim < 20 m = 2.5 mm ²	
	s must be shielded. The shielding n and fixed so that damages are excl n on control, see operating manual	uded. Cable lengths long	
Fixed or variable clamping force?	fixed variab	le	
Note:			
Analog	ue input must be connected and th	e trimmer F on the board	d must be set to "0".
Other comments			

Actual issue see ws.roemheld.com

Römheld GmbH

4