

Patents:

USA - 11,255,192
Russia - 2788362
India - 202047044367
Australia - 2019237295
South Africa - 2020/05894

Operator on the job training Document

ES7000 Sleeve system

Operator name/surname:	
Operator I.D. number:	-
Operator signature:	
Operator contact nr:	
Supervisor name/surname: _	
Supervisor signature:	
Training done by:	
Trainer signature:	
Training dates:	 -

TAKE NOTE!

	Sleeve system for ins	erting
	Sign	
	L - 1	
Do not offerent to use	- 4ha E87000 Slagva e	votem
	e the ES7000 Sleeve sy n instructed on the use	•
	Sign	
		_
Always ensure that the are made safe bo	e working area and eque efore work commence	
	Sign	
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· · · · · · · · · · · · · · · · · · ·	install mechanical sto before work commend	
	Sign	
Always use PPE wh	en installing and remo	vina
	protection and safety	_
	Sign	
	87000 sleeve system defective equipment a	and ar
	ications to the system	
-	Sign	
	ety cage before applyi e to the system	ng any
pi essui e	s to the system	
	Sign	

ES7000 Components

		Sign	ature
	Hydraulic cylinder		
ENSY SLEEVE	Used for controlled press fitting and removing of continues miner cutter drum sleeves	Operator	Instructor
SOLUTION SOL	Connects the hydraulic cylinder with the outer ring of the sleeve, as the cylinder retracts the outer ring act as a seat for the extractor All the stored energy and sleeve components are also contained within the cup during extraction		
	Extraction horse shoe clip This clip locks the cylinder shaft to the rear of the sleeve to be removed Make sure the self centring reses of the clip faces the sleeve		
	Installation cup Locks the hydraulic cylinder in place to the back of the pick box, thus allowing the sleeve to be pulled in Use this cup for a spacer between the sleeve and cylinder if the cylinder stroke is too short		
	Installation horse shoe clip Locks the hydraulic cylinder shaft to the installation cup Make sure the self centring reses of the clip faces the sleeve		
ENERPAC 3	Hydraulic hand pump The pump is used to supply the hydraulic pressure for inserting and removing sleeves. Never make any unauthorized changes to the pump system! Safety cage		
	The cage covers all moving parts and parts under hydraulic pressure. Should any of these parts fail, the cage will contain the failure Never use Easy Sleeve without Safety cage!		

I, (name & surname)	, (I.D. nr.)	herewith
acknowledge that I have been instructions	ted on the ES7000 sleeve installa	ation and extraction system com-
	Signature	, date

ES7000 Pre-use inspection

		Signa	ature
		Operator	Instructor
1	Inspect the hydraulic cylinder for visible damage and oil leaks		
2	Inspect the hydraulic high pressure pipe and gauge assembly for damage and leaks		
3	Inspect the hydraulic hand pump for damage and oil leaks, also check hydraulic oil level		
4	Inspect the extraction/installation cups and clips for damage		
5	Do not use any component with visible damage and/or oil leaks, replace or repair first		
6	Inspect the safety cage for damage, replace faulty safety cages before using the Easy Sleeve system		

I, (name & surname)	, (I.D. nr.)	herewith
acknowledge that I have been in sleeve installation and extraction	nstructed on the correct pre use inspections to a system.	be done on the ES7000
	0	1.1.

Installing a sleeve

		Signature	
		Operator	Instructor
Step 1	Clean the inside and back part of the pick box and inspect for any damage, obstructions and wear		
2	Insert the new sleeve as far as possible by hand. Do not wipe the nickel slip of the sleeve, it will prevent rust from forming and binding the sleeve and pick box		
3	Insert the hydraulic cylinder spacer and lock rings behind the sleeve and pick box, pump hydraulics until all components are lined up		
4	Install the safety cage		
5	Start pumping		
6	Continue pumping until the sleeve seats against the pick box		
7	Remove the locking rings and cylinder from the sleeve		
8	Insert the safety c-clip on the back of the sleeve		

Removing a sleeve

		Signature	
		Operator	Instructor
Step 1	Clean the inside and back part of the pick box and sleeve, inspect for any damage, obstructions		
2	Insert the hydraulic cylinder and extraction cup in the front of the sleeve and a locking clip behind the sleeve, start pumping the hydraulics until all components are lined up		
3	Install safety cage		
3	Start pumping		
4	Continue pumping until the sleeve releases from the pick box		
5	Remove the old sleeve and ring from the hydraulic cylinder and discard		

, (name & surname)	, (l.D. nr.) _		herewith
acknowledge that I have been instructed o sleeve installation and extraction system.	on the correct use and st	eps to follow when using the E	ES7000
	Signature	. date	