

## New Hydraulic Cylinder Designs

### Description

A new hydraulic cylinder supplier is now being used on the Steelbro sidelifters. The fundamental geometry of the cylinders is unchanged however they use a different seal kit and have different internal componentry. There are also some visual difference between previous cylinders and the new supply. For example the barrels of certain cylinders are shorter because the pistons and glands have been shortened and standardized. The new cylinders can be identified by their serial numbers (which are stamped on the barrel boss), they have an "SX" prefix.

### Models and Markets

Models SB121, SB122, SB330, SB361 and SB401 in all markets.

The first unit to be fitted with these cylinders was SB8383. The cylinders have since been used in production on units SB8543 onwards. Not all units after this serial number will have been fitted with the new cylinders and not all cylinders on a particular sidelifter will necessarily be of the new type. Please contact Steelbro Spare Parts to confirm which type of cylinder was used for a specific model before ordering spares.

### BOM

The below table lists the affected cylinders:

Description	Note	New P/N	Old P/N	Used on model					New Seal Kit
				SB121	SB122	SB330	SB361	SB401	
Top Arm	Low	HC-39159	HC-32444	✓					HC-39176
	High	HC-39175	HC-33420	✓	✓				
	LH	HC-37545	HC-25807			✓			HC-37822
	RH	HC-37544	HC-25808			✓			
		HC-38007	HC-32279				✓		
		HC-38022	HC-32281					✓	
Bottom Arm		HC-39125	HC-32446	✓	✓				HC-39157
		HC-37529	HC-31629			✓			HC-37821
		HC-38033	HC-32283				✓	✓	HC-38047
Stab Extn	Low	HC-39178	HC-32452	✓					HC-39178
	High	HC-39191	HC-32454	✓	✓				
		HC-37631	HC-25805			✓			HC-37823
		HC-37957	HC-32287				✓	✓	
Stab Tilt	Low	HC-39084	HC-32448	✓					HC-39157
	High	HC-39146	HC-32450	✓	✓				
		HC-37561	HC-25809			✓			HC-37824
		HC-37979	HC-32285				✓	✓	
Traverse		HC-37653	HC-22565			✓	✓	✓	HC-37820

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### Backward Compatibility

The new cylinders are completely backward compatible with existing cylinders (except seal kits which are not interchangeable)

### Use Instructions

There will be no changes to how the cylinders are to be used

### Benefits and Advantages to Change

The cylinder components have been commonised so seal kits can be used on more than one model (refer to table above).

### References