

Subject ▶ Changes on change plate, spindle and some relevant parts

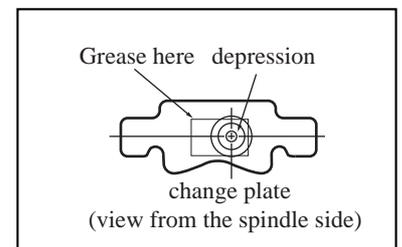
For Models ▶ HP1500, HP1510, HP1501

Description ▶ As described below, the parts in the subject have been changed for improvement in endurance.

▶ Current	▶ New
<p>① cam holder ② cam ③ spindle ④ steel ball 4.8 ⑤ change plate</p> <p>* Cam holder complete consists of 1 and 2</p>	<p>①' cam holder (reformed) ②' cam (reformed) ③' spindle (reformed) ④' steel ball 3.5 (changed to smaller one) ⑤' change plate (reformed and hardened) ⑥' plane bearing (added) ⑦' pin 4 (added)</p> <p>* Cam holder complete consists of 1', 2' and 6.</p> <p>1. Against seizure of spindle and cam; A plane bearing is added to the cam complete. Diameter of the cam holder's hole which receives the cam is enlarged. Inner and outer diameters of the cam is enlarged.</p> <p>2. Against abrasion of change plate in drilling mode; Pin 4 is added to disperse the load on the change plate (surface contact of pin 4 while point contact of steel ball 4.8). The change plate is improved in hardness. The grease stocked around the steel ball makes lubrication life longer.</p>

Important)

When replacing these parts be sure to fill up the hole of the spindle with grease for longer lubrication life before setting the steel ball 3.5 and the pin 4 in place. Also provide enough grease on the surface of the change plate where it contacts with the pin 4 (the shaded area of the change plate as illustrated on the right).



Interchangeability(I/C)

Item No.	Current part		Q'ty	I/C	New part		Q'ty	Note
23	Change Plate 344112-2		1	No	Change Plate 344419-6		1	No interchangeable as a set
17	Spindle 322674-0		1	No	Spindle 322900-7		1	
22	Steel Ball 4.8 216002-8		1	No	Steel Ball 3.5 216001-0		1	
37					Pin 4 256251-5		1	
25	Cam Holder Complete 152473-4		1	<=	Cam Holder Complete 152529-3		1	

Note

Interchangeability mark; <= means that the new part can be substituted for the current.

Implementation

From Dec., 1995