

VERTICAL SUPPORT STRUCTURE AND LIFTING DEVICE  
HAVING THE SAME

**ABSTRACT**

A vertical support structure (10) includes a half  
5 tube (11) and a mounting member (13). The half tube (11)  
has an inner surface defining a receiving space (15)  
and formed with a series of axially spaced-apart helical  
groove halves (12). The mounting member (13) is  
connected to an outer surface of the half tube (11).  
10 A lifting device (500, 500') is also disclosed, and  
includes a plurality of the vertical support structures  
(10), a plurality of rotation units (21), a plurality  
of slide housings (25), a lift carrier (30), a drive  
motor (40) and a plurality of transmission units (50).

15

[Fig.1]