

英语翻译技巧(34)

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1. 4. 3 RADIAL PLY TYRE CONSTRUCTION

As the terminology implies, the essential difference between the radial ply tyre and the two alternative constructions just described lies in the disposition of the casing ply cords (Fig. 3). In the radial ply tyre the cords lie at approximately 90° to the circumference. This results in an extremely flexible sidewall which acts independently of the tread bracing belt. thus further reducing the distortion which takes place in the belt and the tread block as the tyre passes through the road contact zone. Advantages include increased tread life, improved comfort at high speed, and im-

proved security on cornering.

The belt construction, in general use, comprises four low-angle plies of textile cord; some manufacturers have adopted steel or glass fibre cords for the belt. The choice depends upon performance requirements, practical manufacturing facilities, and economic considerations.

Table 3 gives casing ply and belt angles typical of those used in the three constructions. To a large extent it is the reorientation of angles and the required differential between the casing ply and belt angles which dictate tyre building procedure.

Table 3 TYRE CARCASS ANGLES (INCLUDED ANGLE FROM THE CIRCUMFERENTIAL CENTRELINE OF THE TYRE)

Tyre	Cross ply		Belted bias		Radial	
condition	Casing	Belt	Casing	Belt	Casing	Belt
Raw	54°-63°		58°61°	52°	80°-90°	16°-21°
Vulcanised	29°-36°		32°	26°	75°-90°	12°-18°

1.5 TYRE COMPONENTS

Before dealing with the detailed operation of raw tyre assembly and ancillary operations, prior to tyre vulcanisation, it is necessary to outline the basic components forming a tyre structure and to indicate their function and method of preparation. Fig. 4 details these for a radial ply tyre.

生 词

radial ply tyre terminology 子午线轮胎 名词术语 imply 暗示 排列方式 disposition circumference 周向 flexible 柔软的,灵活的 tread bracing belt 带束层 胎面花纹块 tread block 胎体帘布层 casing ply 重新取向 reorientation ancillary 辅助的

译 文

1.4.3 子午线轮胎结构

顾名思义,子午线轮胎和上面刚说过的

其它两种结构轮胎的主要区别在于胎体帘线的排列方式不同(图 3,略)^①。子午线轮胎约与周向成 90°角排列。这样使得胎侧极为柔软,而且胎侧屈挠变形不波及带束层^②,因而进一步降低了轮胎通过接地部位时带束层和花纹块的变形。子午线轮胎的优点包括提高了轮胎行驶里程、高速行驶的舒适性以及转向安全性。

常用的带束层结构有 4 层小角度织物帘布;某些生产厂已采用钢丝或玻璃纤维帘布作带束层。选择哪种材料取决于使用性能的要求、实际生产装备条件以及经济性[®]。

表 3 列出了 3 种结构中胎体和带束层所用的典型角度。基本上正是角度的重新取向以及胎体帘布层和带束层角度之间所要求的差异决定了轮胎的成型方法[®]。

表 3	轮胎胎	体帘布角度	(与轮胎)	割向中心	线的夹角)
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轮胎状态 —	斜交轮	斜交轮胎		带束斜交轮胎		子午线轮胎	
	胎 体	带束层	胎 体	带束层	胎 体	带束层	
生胎	54—63		5861	52	80—90	16-21	
硫化胎	29-36		32	26	75—90	1218	

1.5 轮胎部件

在论述轮胎硫化前详细的成型操作步骤 和辅助工序操作步骤之前,有必要概述一下 组成轮胎的主要部件并说明其功能和制备方 法。图 4 为制备子午线轮胎的流程图(略)。

注:①"As the terminology implies"直译为"正如名词术语所暗示的那样",用成语"顾名思义"表示颇为简单而贴切;"described"是过去分词作后置定语修饰"the essential difference······ constructions",而"lies"是谓语动词。

- ②"which acts independently of the tread bracing belt"直译为"胎侧运动与带束层无关",可意译为"胎侧屈挠变形不波及带束层"。
- ③"The choice"直译为"选择",根据上文提出的"织物、钢丝和玻璃纤维帘线",在"选择"后面加上"哪一种材料"比较完整,这种添字译法是常用手段。
- ④此句为强调句型, which 引出的不是 定语从句。

英译汉常见错误实例

Marked differences have been shown by experiment in the composition and properties

of the boundary plies, for instance, of the tread-breaker system, as may be seen from fig. 8, where we give the absolute values of the modulus for the various zones of a vulcanisate in a multi-ply structure.

误:试验组分和边界层性能(如胎面缓冲 层体系)表明有显著的不同,从图 8 可以看 出,我们给出多层结构区域硫化胶模量的绝 对值。

正:试验表明边界层(如胎面缓冲层)的 组分和性能都有如图 8 所示的明显区别,图 8 中示出了多层结构不同区域硫化胶定伸应 力的绝对值。

注:①"differences in……"不等于"difference between……", "in the composition and properties of the boundary plies"是"differences"的定语。

- ②"as may be seen from fig. 8"为定语从句,修饰"differences"。
- ③"where"引出的是定语从句,修饰"fig. 8","where"相当于"in which";句中"我们"可以省略;凡用图表作主语(英语中作状语)时,动词"give"不要译作"给出",最好译作"示出"、"列出"、"绘出"等。