



Testing centre for artificial limbs

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Amputees in the craft trade sector, in industry and agriculture

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The competitiveness of a healthy and professional worker is based on the skills and power of his hands, his expertise and his mental abilities. The invalid person, who has lost his hand or who is detained by stiffening, what can be much worse than an amputation, will be from the outset at a big disadvantage towards the healthy worker. The invalid needs the best artificial arm, which can be adapted to the relevant work. By the use of his expertise and mental abilities and the ownership of this multifunctional artificial arm there is a possibility for the disabled, after a training period and according to the degree of injury, to be able to work satisfyingly.

(...)

At industrial and agricultural work, the artificial arm has to be multi-adjustable to make full use. Every necessary position of the room has to be reachable. Besides the multifunctionality of the artificial arm, there has to be certain flexibility, to have more free moving space during work. If the artificial arm is laid in a special position by the healthy arm, the invalid is just able to do certain actions for example to operate the lever of a drilling machine. To perform operational work, at least the shoulder joint and stump of the disabled has to be available, because it has an extremely good mobility in all directions. But is this mobility not sufficient, the invalid can just do simple activities.

(...)

The presence of the elbow joint with a stump is more beneficial, when at least 1/3 of the forearm exists, so that the bending and stretching movements are intact and that means that an effective lever arm is present.

(...)

But unfortunately was the vast majority of the war invalids amputated above the elbow joint.

(...)

Accordingly, our arm construction must be designed mainly for upper arm amputees und it must be configured that the handling of machines in the mass production for the industry is possible.

