4.3.5 Fixing electrospindles with rectangular framework

The electrospindle should be fixed to the slide or the spindle holder support (if present), using M8 screws and T-slot nuts with a tightening torque of 20Nm. The maximum protrusion allowed for the fixing screw is 15mm, as shown in Figure 4.3; greater protrusions can deform the framework of the electrospindle and produce incorrect blocking, with negative consequences for the precision of the machining operation and the safety.

For the correct alignment, use the tang slot between the two T-slots (see section 2).

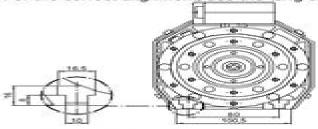


Figure 4.2 T-slots for anchoring the electrospindle

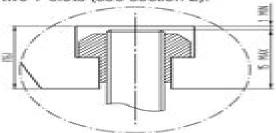


Figure 4.3 Maximum protrusion of the screw in the T-slot

- **A**
- Maximum protrusion of the screw: 15mm.
- Ensure a gap of at least 1mm.
- Greater protrusions deform the framework of the electrospindle, compromising the precision of the machining operation and also the safety.

4.3.6 Fixing electrospindles with round framework

To fix the electrospindles with a round framework, use the eight Ø 8.5 bores on the fixing flange

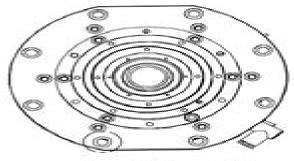


Figure 4.4 8 bores Ø 8.5

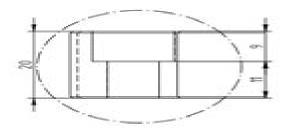


Figure4 .5 Detail of fixing bore

4.3.7 Threaded bores for accessories

To fix any accessories, some threaded bores are available (see the positions in section 2). The useful thread is 12mm.

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Advanced Cutting Tool Technology and Machine Processes Riyadh A. Al-Samarai, Yarub Al-Douri, 2025-09-22 Today s industry heavily relies on advanced cutting tool technology and manufacturing techniques to enhance quality and efficiency in production This undergraduate level textbook is dedicated to exploring the latest developments that enhance tool performance lower costs and boost productivity The mission of this textbook is to provide readers with a thorough understanding of cutting edge technologies and methods used in cutting tools and industrial processes Advanced Cutting Tool Technology and Machine Processes steps into the world of modern cutting tools used in the metallurgical industry Each tool is meticulously dissected showcasing its distinctive features and methods of operation The text explores advanced metal cutting and processing techniques including laser water and plasma cutting By covering these cutting edge methods students and professionals can remain at the forefront of industry advancements In addition to detailed tool descriptions this textbook offers practical guidance on utilizing tools effectively and safely as well as tips on tool maintenance to ensure longevity and peak performance To enhance comprehension this textbook incorporates exercise problems case studies and practical examples that illustrate how theoretical knowledge is applied in real world scenarios. This hands on approach aids in the development of problem solving skills and the practical application of concepts Lastly this textbook provides comprehensive information on the properties of various metals and how to handle them effectively This knowledge is crucial in selecting the appropriate tools for each type of metal guaranteeing precision and efficiency in cutting processes This textbook is ideal for undergraduate students in production materials industrial mechatronics marine mechanical and manufacturing engineering programs and is also useful for graduate programs related to higher level machining topics as well as professional engineers and technicians Figure slides and a solutions manual for available for qualified textbook adoptions Between Theory and Clinic: The Contribution of Neuroimaging in the Field of Consciousness Disorders Olivia Gosseries, Steven Laureys, Caroline Schnakers, 2019-05-16 The amount of patients surviving severe brain injury has gradually increased over these last decades thanks to the development of intensive care These patients either recover quickly from coma or go through prolonged disorders of consciousness such as vegetative state unresponsive wakefulness syndrome VS UWS or minimally conscious state MCS While patients in a minimally conscious state are to some extent aware of themselves and the environment and show fluctuating but reproducible signs of consciousness patients in a vegetative state unresponsive wakefulness syndrome are awake but only show reflexive behaviors These patients are unable to communicate and present vigilance fluctuation sensory deficits as well as severe motor and language impairments Even though behavioral assessment currently remains the gold standard for diagnosis a number of studies highlights the difficulty in making the distinction between conscious and unconscious patients based on clinical examinations and show a misdiagnosis rate as high as 40% Misdiagnosis can nevertheless have serious consequences on patient s management medically but also ethically i e regarding end of life

decision The emergence of functional neuroimaging techniques such as positron emission tomography PET and functional magnetic resonance imaging fMRI opened new opportunities to study brain activity in patients with disorders of consciousness DOC Recent neuroimaging tools have brought new understandings on how the brain functions after coma and how these tools can complement bedside assessment by improving diagnosis and prognosis of DOC patients Indeed we know now that most patients in VS UWS present partial activation of sensory networks and impaired functional connectivity contrary to patients in MCS The reemergence of thalamo cortical connections has also been associated with recovery of consciousness whereas thalamic atrophy has been associated to chronic DOC Recent findings have also stressed the interest of neuroimaging in the management and the treatment of these patients fMRI has been used as brain computer interfaces to detect consciousness in unresponsive patients and to allow basic communication in minimally conscious patients Neuroimaging techniques are also currently being used to examine the effects of potential therapy such as pharmacological medications e q Amantadine or Zolpidem and brain stimulations e q transcranial direct current stimulation or repetitive transcranial magnetic stimulation Crystal and Glass Industries Machinery United States. Defense Logistics Thomas Register ,2004 Agency, 1978 **Tooling** ,1972 **Building World** ,1905 PRODUCTS & SERVICES .2005 Western Machinery and Steel World ... ,1967 **African Journal of Health** Board of Trade Journal, 1953 American Machinist, Metalworking Manufacturing ,1967-04 The Electrical Review ,1954 Sciences, 1997 Engineerina **Board of Trade Journal of Tariff and Trade Notices** ,1953 **Industrial Equipment News** ,1975 Telegraphic Journal and Monthly Illustrated Review of Electrical Science, 1954 .1959 Machinery Lloyd ,1980 KWIC Index to the Science Abstracts of China Massachusetts Institute of Technology. Metals Abstracts ,1980 Libraries.1960 Farmers and Consumers Market Bulletin ,2010

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