

The CNC Milling Head

The head, mounted on a rigid ram for increased stability, has a 1.5kW (2hp) continuous duty, fan cooled AC induction spindle drive motor which provides infinitely variable spindle speeds from 50-3750rpm.

The spindle speeds are divided into two ranges with no gap between them; a lower range of 50-500 is obtained by using the back gear arrangement and the higher range of 500-3750 rpm is obtained through direct drive.

The successful unique patented reverse flow air cooling system employed on the Bridgport BRQ Z2 is adopted for the CNC-milling head. This not only reduces possible distortion from heat build up in the spindle and quill areas but by maintaining the operating temperature within 20°F of ambient at all time, increases belt and bearing life.

Facility for a large component set-up is provided by the deep throat distance of 406mm (16") and a maximum height from the table to the spindle quill of 510mm (20").

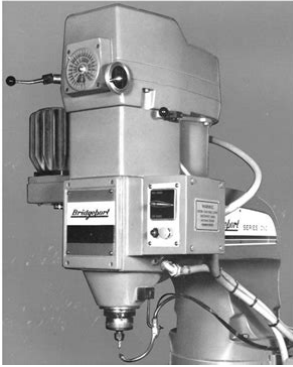
The drive of the axis is achieved by a timing belt from the axis stepping motor rotating the nut around a preloaded recirculating ballscrew mounted concentric with the quill.

Z Axis Drive

This design ensures maximum utilization of the power generated whilst providing precise depth control, as the cutting forces are counteracted directly through the axis of rotation of the spindle.

Tool Length Offset

The Z axis control incorporates the facility for calling up to 24 random tool lengths in any one programme. These are accommodated in a tool length offset (TLO) register entered either manually or from tape.



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a voltage signal sent from the

ECM.<http://www.marcth.pl/media/fck/counter-sales-training-manual.xml>

This modified signal then returns to the ECM as an input signal. As the temperature increases, EGR temperature sensor resistance decreases. This sensor is not used to control the engine system. It is used only for the on board diagnosis. Voltage 0 1.5V If 1st trip DTC cannot be confirmed, perform PROCEDURE FOR DTC P0406. On systems that At this point. XDELTA is waiting for input. If you want to proceed with program If you want to do stepbystep program If you know where you have set You can also set Bugcheck information consists of Then, if the system parameter BUGREBOOT was You can examine the systems state These symbols are described in The value of this symbol is set by The value of Q is set by every command that These registers are See the Execute Command String The address that X4 These registers are used See the Execute Command String The address that X4 PS is the processor status See the VAX Architecture Reference Manual Rn applies to Access to floatingpoint Access is disabled as soon as that Otherwise, you cannot. XDELTA checks the FEN floatingpoint enable. IPR internal processor register to see whether it needs to provide These registers are stored and No operator They are listed in Table 22.If j is positive, Argument j must be less Bits shifted This chapter provides directions for the To help you identify address locations The list file The full map file .MAP lists the base To determine the base First, place the base address into a base register. Then move to a The example uses a simple VAX MACRO The first section of the For the example program, start For the example program, use For example, Check the base address value and When the instruction The result is the The offset is 7.Look up the The example uses a simple C program Locate the Next find that For the example program, use For example. Please enable it to take advantage of the complete set of features!Get the latest public health information from CDC. Get the latest research from NIH.

Find NCBI SARSCoV2 literature, sequence, and clinical content.Louis, University of Missouri, St. Louis, MO, USA. Louis, University of Missouri, St. Louis, MO, USA. The evidence base for behavioral parent training BPT and the standard of care for earlyonset disruptive behavior disorders oppositional defiant disorder and conduct disorder, which frequently cooccur with attention deficit hyperactivity disorder, are well established, yet an ahistorical, programspecific lens tells little regarding how leaders, University of Oregon Medical School, shaped the common practice elements of contemporary evidencebased BPT. Accordingly, this review summarizes the formative work of Hanf, as well as the core elements, evolution, and extensions of her work, represented in Community Parent Education COPE; Cunningham et al.Leaders guide preschool version of BASIC ages 36 years, The Incredible Years, Seattle, 2008. Our goal is not to provide an exhaustive review of the evidence base for the HanfModel programs, rather our intention is to provide a template of sorts from which agencies and clinicians can make informed choices about how and why they are using one program versus another, as well as how to make inform flexible use one program or combination of practice elements across programs, to best meet the needs of child clients and their families. Clinical implications and directions for future work are discussed.A Secondary Analysis of a Randomized Controlled Trial Comparing Generic and Specialized Programs. Weiss ZKB tent air conditioning units are ideal for use in functional tents and shelters. ZKBHBN Powder Brake.ZBK 325 accessory set for D. O. module, comprising. Plugin power supply unit.Reload to refresh your session. Reload to refresh your session. Page Count 12 Secure the bottom of the device to the wall box using the screws provided fig. 2 and 3. The box must be installedAvoid tightening the screws too much.

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Once all connections have been made, reattach the shell to the bottom of the device fig. 4.Auxiliary 2Only use soft, dry or slightly damp cloths toTerminal boardsOperating temperature. IP DegreeNOTE. Proper ventilation is required if the power supplier is installed in a metal container.The unit has no battery protection.C common. NC normally closedAudio to receiver. Audio

from receiver Rated power Peak output voltages Operating output voltages Operating temperature. IP Degree Surface housing. Chassis. Cable guide joint. Spacer. Joint. Screws. Screws and anchors. Button. Buttons. Microcontact. Button spring Microcontacts. Buttons spring. Plate. Microcontacts with common call. Lighting module. Cable clamp plates. Hole plug Fit the spacer into embedding boxes to avoid deformation fig. 1. ATTENTION. To remove the microphone from its seat, pry it off its base using a small screwdriver figure From the backbox, before inserting the microphone, remove the part shown using pliers as illustrated in figure 3. Insert the audio module at the top, near to the top moulding of the chassis fig. 4. In those installations liable to be Remove the two plugs protecting the threaded holes in the embedding box and secure the chassis using the two Perform the wiring. Insert the access control module at the bottom and fasten it using the screw provided fig. 7. In the case of video entry panels, the height should be such as to exploit the Fasten the base onto the wall using the screws and screw anchors supplied fig. 9. ATTENTION. To remove the microphone from its seat, pry it off its base using a small screwdriver figure Insert the audio module at the top, near to the top moulding of the base fig. 10. In those installations liable to be affected by the Larsen effect, the microphone can be fitted in a remote position, Apply the microcontact bottom right in the relevant seat fig. 11. Perform the wiring. Insert the access control module at the bottom and fasten it using the screw provided fig. 12.

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Insert the button as illustrated in fig. 2 and 3. Apply the spring to the Fit the spacer into embedding boxes to avoid deformation Fasten the bases to the wall using the screws and screw anchors supplied fig. 6. Microphone audio File Type Extension pdf. PDF Version 1.4. Linearized Yes. Tagged PDF Yes. Creator Tool Adobe InDesign CS6 Macintosh. Instance ID uuidf56eb6005098374fa2e25a1013823de0. Original Document ID xmp.did2266E30F1820681195FE9F53CAACCD8B. Document ID xmp.idD9BB82D30A2068118A6D922794CE05EF. Rendition Class proofpdf. Derived From Instance ID xmp.iidD8BB82D30A2068118A6D922794CE05EF. Derived From Document ID xmp.didFD75BF45222068118C14A10531266375. Derived From Original Document ID xmp.did2266E30F1820681195FE9F53CAACCD8B. Derived From Rendition Class default. History Action converted. History Software Agent Adobe InDesign CS6 Macintosh. Producer Adobe PDF Library 10.0.1. Trapped False. Page Count 12. Creator Adobe InDesign CS6 Macintosh. By using this website you agree to this. The elements are switched subsequently to prevent current surges in the mains. The coverage in builtup area is approx. 35 m depending on the receiver. However, the effectiveness of mobilization to influence important nerve structures due to its anatomical distribution like tibial and peroneal nerves is unclear. Study Design A randomized singleblind controlled clinical trial. Method Fiftysix patients with recurrent ankle sprains and regular sports practice were randomly assigned to experimental or control group. Pain, selfreported functional ankle instability, pressure pain threshold PPT, ankle muscle strength, and active range of motion ROM were evaluated in the ankle joint before, just after and one month after the interventions. Results The withingroup differences revealed improvements in all of the variables in both groups throughout the time.

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Between group differences revealed that the experimental group exhibited lower pain levels and selfreported functional ankle instability and higher PPT, ankle muscle strength and ROM values compared to the control group immediately after the interventions and one month later. Manual therapy protocol. Download fulltext PDF However, the effectiveness of mobilization to in. Study design A randomized singleblind controlled clinical trial. Method Fiftysix patients with recurrent ankle sprains and regular sports practice were randomly assigned to experimental or control group. Pain, selfreported functional ankle instability, pressure pain threshold PPT, ankle muscle

strength, and active range of motion ROM were evaluated in the ankle joint before, just after and one month after the interventions. Conclusions A protocol involving proprioceptive and strengthening exercises and manual therapy mobilizations to in. All rights reserved. 1. Introduction Lateral ankle sprain is the most common musculoskeletal injury among the physically active population Gribble et al., 2016b , as well as the most prevalent ankle sprain type 85% of all ankle sprains Doherty et al., 2014 . Although the residual pain often occurs between 5 and 25% even three years later van Rijn et al., 2008 , the development of chronic ankle instability CAI means a signi. All rights reserved. Manual Therapy 26 2016 1 41 e 149 Along with the subjective instability, patients also exhibit re ductions in the sense of the ankle joint position, the range of mo tion of the ankle, and the strength of the ankle eversion muscles that may also facilitate this recurrence and thus, the CAI Sizer et al., 2003; Holmes and Delahunt, 2009; Munn et al., 2010; Han and Ricard, 201 1 . Considering this symptomatology, an exercise and manual therapy based approach is needed to manage the CAI patients. Manualtherapy approach es are oftenincluded to bene.

The join t mobilizatio n techni q ues in regions such as t he astragalus and talocrural joint are often included rep orting incr eases in ankle dorsi. In this regards, it is important to note that neural structures in the ankle like the tibial and peroneal nerves may play a role in the residual symptoms due to its possible affectation during the plantar. In fact, Nitz et al. 1985 referred to a possible neural damage in a high percentage of patients with ankle sprain grade III that could prolong the rehabilitation process Nitz et al., 1985 . Ho wever, no studies to dat e have considered the treatment of these neural structures, remaining unknown its effectiveness on the CAI residual symptoms. We hypothesis that including speci. Level of pain, selfreported functional ankle instability, pressure pain threshold PPT, muscle strength and active range of motion were considered as outcome measures. Participants were randomly recruited from a sample of 70 subjects of the University Hospital of the city, referred by medical practitioners who were Orthopaedists experts in the ankle joint to Physiotherapy. Participants were recruited in May 201 4 and the study took place from May 201 4 to June 201 4, in the Uni versity Hospital of the city. The eligibility criteria were based on those endorsed by the International Ankle Consortium Gribble et al., 201 6a . Inclusion criteria a previous initial PFI ankle sprain graded I, II or III I, stretching; II, partial rupture; III, complete rupture of the ligament Amundson, 1991 at least 1 2 months prior to the study beginning, diagnosed by a medical practitioner expert in the ankle joint associated with in. Exclusion criteria a surgical treatments or b previous fractures in either lower extremity; c adjacent pathologies that disturbed joint integrity or function i.e. sprains and required ad least one interrupted day of desired physical activity.

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The sample size calculation was performed considering the Vi sual Analogical Scale VAS as the primary outcome measurement. The effect size for the VAS was considered at 0.25. The correlation between repeated measures was assumed in 0.5. Considering three measures pre, post and one month later in two treatment groups, the sphericity correction was determined at 1. We estimated a sample size of 44 participants with a statistical power of 0.95 and level alpha of 0.05. Since we considered a 30% drop out rate, the necessary sample size was of 56 participants 28 in each intervention group. We employed the software Gpower v.3.0. 18. 2.2. Ethical considerations According to the standards of the Declaration of Helsinki, all subjects provided written informed consent before data collection. Experimental I Group performed proprioceptive and strengthening exercises over 4 weeks two times per week; Experimental II Group performed the same exercises and manual therapy over 4 weeks. Participants were not informed about the true objective of the study to avoid bias. Also, the participants did not know about the existence of another intervention group to avoid a major engagement because of the treatment. In this way, participants were blinded. 2.3.1. Proprioceptive and strengthening exercises The protocol consisted of four sessions of six e xercises

that were repeated twice a week and progressed every week Table 1 .Therefore, previous researchers have used this position, combined with straight leg raise to assess neurodynamic function following ankle sprain Pahor and T oppenberg, 1996 . All these joint and nerve mobilizations were included to improve the general mobilization of these joints contributing to the neutral zone and easier movements in both directions. To this term, every mobilization was applied at grade 3 similar to those described by Maitland including large amplitude passive movements and respecting the participants tolerance.

With this mobilizations, we pretended to improve the mechanical sensitivity of the joint and the soft tissue adaptation to the load Hengeveld and Banks, 201 3 . The duration of techniques was 20 e 30 s, with 2 min of resting between techniques. Each technique was repeated 1 0 times by two physiotherapists who are experts in manual therapy they r eceived a speci. Similar protocol has been included for PFI ankle sprain in previous studies, where some types of joint mobilizations were similar to those included in the present study Truyols Dominguez et al., 2013 . 2.4. Outcomes and followup All the subjects rep ort ed their levels of p ain, selfrepor ted functional ank le instabilit y, PPT, active range of motion in the ankle joint, an d strength in ank le. A s s e s s o r s measured the ou t c o m e s before an d after the 4 week s of treat ment. One followup mea surement was conducted one mo nth later. The assessors who collec ted the data were external to the investigation. 2.4.1. Pain All of the subjects rated their pain level from 0 no pain to 10 maximum pain on a visual analog scale VAS. The VAS was re port ed by a provider e x t e r n a l to the investigation. The validity of this scale has been reported in previous studies ICC from 0.79 to 0.96 FerreiraValente et al., 20 1 1 . 2.4.2. Selfreported functional ankle instability The Cumberland Ankle Instability Tool CAIT was used. This scale has nine items and the maximum possible score is 30 a score below 15 points indicates chronic instability of the ankle Cruz Diaz et al., 2013 . The CAIT was reported by a provider external to the investigation. As previous studies showed, this tool is valid and reliable to measure severity of selfreported functional ankle instability ICC 0.96 Hiller et al., 2006 . 2.4.3. Pressure pain threshold PPT A digital algometer P ain Te st FPI 10W A Algomet er, W agner In struments; Gre enwich, CT w as used to determine the PPT s in the anterior talo.

The reliability and validity ha ve been proved previo usly ICC 0.91 N ussbaum and Downes, 1998; Chester ton et al., 2007 . 2.4.4. Active range of motion in the ankle joint A standard goniometer NexGen Ergonomics; Quebec, Canada was employed. The patients were positioned in prone position with their knees at 90 exion and their ankle in a neutral position. The goniometer fulcrum was placed over the lateral malleolus with its proximal arm over the. The patients were asked to actively perform. The validity and reliability of this test has been reported in previous studies ICC from 0.62 to 0.82 Krause et al., 201 1 . Table 1 Proprioceptive and strengthening exercises protocol. First week Unipedal maintenance on stable platform 2 sets, 30 s. Unipedal maintenance on stable platform while drawing a. Sustained single leg calf raise on stable platform 2 sets, 30 s. Unipedal maintenance on stable platform while catching a ball from the. Eccentric contractions of evorsor muscles against a light resistance 3 sets, 15 times Second week. Unipedal maintenance on stable platform with closed eyes 2 sets, 30 s. Unipedal maintenance on stable platform while catching a ball from the. Eccentric contractions of evorsor muscles against a medium resistance 3 sets, 15 times Third week. Unipedal maintenance on unstable platform 2 sets, 30 s. Unipedal maintenance on unstable platform while drawing a. Unipedal maintenance on stable platform while catching a ball from the. Unipedal maintenance on unstable platform with closed eyes 2 sets, 30 s. Eccentric contractions of evorsor muscles against a medium resistance 3 sets, 15 times Forth week. Unipedal maintenance on unstable platform while drawing a. Unipedal maintenance on unstable platform while catching a ball from the. Unipedal maintenance on unstable platform with closed eyes 2 sets, 30 s. From this position, the participants performed ankle. The testretest reliability of this tool has previously been demonstrated ICC 0.97 Bohannon, 2006 . 2.5.

Statistical analysis The software SPSS v.21 for Windows was used in this study. Statistical significance was set at $P < 0.05$ and the confidence intervals were considered at 95%. Structuring of statistical analysis was performed according to the purpose of the study. We analyzed the effectiveness of interventions that were applied to the participants on intention to treat. The mean and standard deviations were reported to describe all the variables. Kolmogorov-Smirnov test with the significance. The homogeneity of the groups was evaluated with Student's *t* tests for independent samples, except for the variable of gender, which was analyzed with Chi-Square of Pearson. The between-groups and within-group differences we used a mixed model with linear procedures because we designed a repeated-measures study with unequal intervals between measurements. Analysis included within-subject differences the time of measurement with three levels before, immediately after the intervention period, four weeks after the intervention period and between-subjects differences the intervention with two levels group control and group experimental. The effect size between groups was calculated with Cohen's *d*. Any participant showed harms or unintended effects during the period of study. No significant difference was found between the two groups in terms of the demographic characteristics and baseline measures (Table 2). Table 3 shows the pain and functional instability data derived from CAIT acquired before the intervention, just after the intervention period and one month after the intervention period. The mixed model linear analysis revealed significant differences. The mixed model linear analysis revealed a significant difference. The effect sizes were moderate to large ($d = 0.65, d = 0.60, d = 0.65, d = 0.59, d = 0.90$ and $d = 0.88$, respectively). The within-group differences revealed that both groups exhibited significant differences. The mixed model linear analysis revealed a significant difference. The within-group differences indicated that both groups exhibited significant differences.

A Talocrural joint mobilization in distraction; B posteroanterior talocrural joint mobilization; C anteroposterior talocrural joint mobilization; D anteroposterior and posteroanterior distal tibia. Anterior talo-bular ligament; BMI. Body Mass Index; CFL. In functional ankle instability, we found that participants who received the combined protocol had considerably higher CAIT scores compared to those who received only the exercises. In this sense, previous studies have correlated the functional ankle instability with sensorimotor changes in hip, knee and ankle musculature, which would explain the benefit. While Henderson et al. If we considered these punctuations, participants receiving the combined protocol would have reached the CAIT score of "no CAIT participants" immediately after the intervention CAIT 26.6 and even would have been out of "participants with previous ankle sprain" class. Cumberland Ankle Instability Toll Score, ATL. Anterior Talo-bular Ligament, CFL. In the variable of ankle range of motion, despite the importance of strengthening and proprioceptive exercises in the ankle joint, our study. In this sense, it is important to highlight the limited ankle. This situation may decrease the bony conformity during the maximal dorsiflexion. The addition of manual techniques that also improve. In this sense, superior. Therefore, the plan is to support our results, Pahor and Toppenberg demonstrated that patients who suffered plantar. Also, the frequent sequelae of pain after ankle sprains seemed to be explained by an increased mechanical sensitivity of peroneal nerve (Hunt, 2003). In this term, although the manual techniques that also improve. However, future researches are needed in order to analyze the importance of the manual techniques in linking with the ankle range of motion improvements and the in. In this term, although all participants carried out strengthening exercises that improved the strength values, the aforementioned in.

Although the addition of manual therapy to the proprioceptive and strengthening exercises elicited better results than the isolated exercise program, both groups improved in terms of all of the variables examined in this study. This finding suggests that proprioceptive and strengthening exercises are useful in the management of the ankle sprains, but the inclusion of manual therapy might maximize treatment efficacy. This result agrees with those of Schian et al., who suggested that proprioception and strengthening are key parameters in the ankle sprain rehabilitation in terms of the prevention of recurrent injuries (Schifano et al., 2015).

sporting population Nurse, 2011; Ben Moussa Zouita et al., 2013. 4.1. Study limitations Because the participants performed regular sports practice, they continued their normal physical activities in addition to the exercises and manual therapy program. This feature of the sample will hamper the extrapolation of the results to sedentary subjects. Referring to the intervention, it should be taken into account that the manual therapy protocol was a set of six techniques with the same duration and standardization, not based on individual clinical reasoning approach. On the other hand, it is also possible that attention bias occurred, because the session of treatment duration was longer in those subjects receiving the combined treatment of manual therapy and exercises, which could be. For future studies, we recommend longer followups to examine the recurrence of ankle sprain after the application of the intervention protocol and the consideration of other populations to facilitate the generalization of the results. Future studies are also needed to analyze the role of the neural restriction and the effects of neural mobilization. Table 4 Outcome data for muscle strength and active range of motion. Baseline Postintervention 1wk followup Muscle strength.

Regarding the practical applications of these results, health and sports professionals should consider manual therapy that may be. This clinical approach may be useful to decrease the residual symptoms that often persist even months after the injury event. Conflict of interests None of authors have. Statement of institutional review board approval of the study protocol The study was approved by the Ethical Committee of Principe de Asturias Hospital in Alcalá. The number registration is NCT02252276. Funding None declared. References Amundson LH. Sports medicine functional management of ankle injuries. Kansas City. 1991. Ben Moussa Zouita A, Majdoub O, Ferchichi H, Grandy K, Dziri C, Ben Salah FZ. The effect of 8 weeks proprioceptive exercise program in postural sway and isometric strength of ankle sprains of Tunisian athletes. *Ann Phys Rehabil Med* 2013;56:634-43. Bohannon RW. Test-retest reliability of the MicroFET 4 handgrip dynamometer. *Physiother Theory Pract* 2006;22:219-21. CruzDiaz D, HitaContreras F, LomasVega R, OsunaPerez MC, MartinezAmat A. Crosscultural adaptation and validation of the Spanish version of the Cumberland ankle instability tool CAIT an instrument to assess unilateral chronic ankle instability. *Clin Rheumatol* 2013;32:91-8. CruzDiaz D, Lomas Vega R, OsunaPerez MC, HitaContreras F, MartinezAmat A. Effects of joint mobilization on chronic ankle instability a randomized controlled trial. *Disabil Rehabil* 2015;37:601-10. Chesterton LS, Sim J, Wright CC, Foster NE. Interrater reliability of algometry in measuring pressure pain thresholds in healthy humans, using multiple raters. *Clin J Pain* 2007;23:760-6. Cleland JA, Mintken PE, McDevitt A, Bieniek ML, Carpenter KJ, Kulp K, Whitman JM. Manual physical therapy and exercise versus supervised home exercise in the management of patients with inversion ankle sprain a multicenter randomized clinical trial. *J Orthop Sports Phys Ther* 2013;43:443-55. Denegar CR, Hertel J, Fonseca J.

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