

## Elaboration and Processing of Advanced Materials

### 1. CNC machine for materials machining FADAL VMC 2216FX



#### Characteristics:

- PC system for positioning and control
- High quality and high speed processing
- Ferrous and non-ferrous metals, polymers, wood
- Processing speed: 8.000 rpm, 20.32m/min
- Positioning precision: 0.005mm

- Execution precision: 0,01mm
- Types of products: Prismatic pieces, 3D complex models, Dies, injection dies, Electro-erosion electrodes, Prototypes

### 2. Planetary mill Pulverisette 4,6 (1 or 2 recipients)

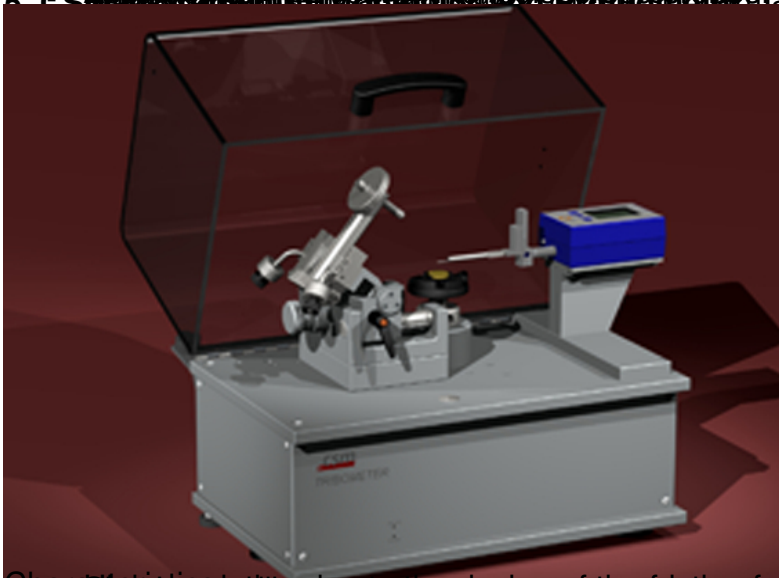




Characteristics of the application of the recipient  
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Characteristics: 5 mW solid-state diode laser and probes  
2.5 mm diameter, 100 mm long, 0.5 mm diameter, 0.5 mm long



Characteristics: 10 mW solid-state diode laser and probes  
6. Injection molding machine controlled environment



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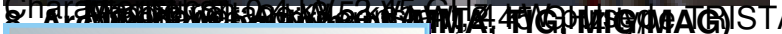


Figure 1. A schematic diagram of the experimental setup. The subject is seated in a chair, viewing a screen displaying a target. The target is a small object, and the subject is required to move a cursor to the target. The cursor is represented by a small circle on the screen. The subject's hand is positioned at the starting point, and the cursor is moved to the target. The distance between the starting point and the target is the reach distance. The subject is required to move the cursor to the target within a specified time limit. The time limit is determined by the subject's reaction time and the distance to the target. The subject is required to move the cursor to the target as quickly as possible. The time taken for the cursor to reach the target is the movement time. The total time taken for the subject to move the cursor to the target is the reaction time plus the movement time. The subject is required to move the cursor to the target within a specified time limit. The time limit is determined by the subject's reaction time and the distance to the target. The subject is required to move the cursor to the target as quickly as possible. The time taken for the cursor to reach the target is the movement time. The total time taken for the subject to move the cursor to the target is the reaction time plus the movement time.





Characteristics of the five test specimens (K20SA1, Ch021, 0mm),  
 1. SHIMADZU, FIRESTONE 6040, K20SA1, Ch021, 0mm, 50 TECNA 4640, TECNA 7903





Characteristics: power 500-10 kVA  
in 11.5 kV 50 Hz 50 A



Characteristics: 300 W, 5 kJ, 30 mm  
11.5 kV welding machine 15 A 1500



Characteristics of TSW 1500: 2.5-8.0 mm



Characteristics of TSW 1500: 2.5-8.0 mm



Characteristics of TSW 1500: 2.5-8.0 mm

14: Breda Soldering Kit PH08 KIT





Characteristics: heads, handle  
15: Includes: PROXXON MF70, MICROMOT 50-E



Characteristics: up to 2000 W/min; 5000-20000 rot/min  
16: Furnaces for heat treatments and sintering processes



Characteristics: 120/157/257/357/457/557/657/757/857/957/1057/1157/1257/1357/1457/1557/1657/1757/1857/1957/2057/2157/2257/2357/2457/2557/2657/2757/2857/2957/3057/3157/3257/3357/3457/3557/3657/3757/3857/3957/4057/4157/4257/4357/4457/4557/4657/4757/4857/4957/5057/5157/5257/5357/5457/5557/5657/5757/5857/5957/6057/6157/6257/6357/6457/6557/6657/6757/6857/6957/7057/7157/7257/7357/7457/7557/7657/7757/7857/7957/8057/8157/8257/8357/8457/8557/8657/8757/8857/8957/9057/9157/9257/9357/9457/9557/9657/9757/9857/9957/10057/10157/10257/10357/10457/10557/10657/10757/10857/10957/11057/11157/11257/11357/11457/11557/11657/11757/11857/11957/12057/12157/12257/12357/12457/12557/12657/12757/12857/12957/13057/13157/13257/13357/13457/13557/13657/13757/13857/13957/14057/14157/14257/14357/14457/14557/14657/14757/14857/14957/15057/15157/15257/15357/15457/15557/15657/15757/15857/15957/16057/16157/16257/16357/16457/16557/16657/16757/16857/16957/17057/17157/17257/17357/17457/17557/17657/17757/17857/17957/18057/18157/18257/18357/18457/18557/18657/18757/18857/18957/19057/19157/19257/19357/19457/19557/19657/19757/19857/19957/20057/20157/20257/20357/20457/20557/20657/20757/20857/20957/21057/21157/21257/21357/21457/21557/21657/21757/21857/21957/22057/22157/22257/22357/22457/22557/22657/22757/22857/22957/23057/23157/23257/23357/23457/23557/23657/23757/23857/23957/24057/24157/24257/24357/24457/24557/24657/24757/24857/24957/25057/25157/25257/25357/25457/25557/25657/25757/25857/25957/26057/26157/26257/26357/26457/26557/26657/26757/26857/26957/27057/27157/27257/27357/27457/27557/27657/27757/27857/27957/28057/28157/28257/28357/28457/28557/28657/28757/28857/28957/29057/29157/29257/29357/29457/29557/29657/29757/29857/29957/30057/30157/30257/30357/30457/30557/30657/30757/30857/30957/31057/31157/31257/31357/31457/31557/31657/31757/31857/31957/32057/32157/32257/32357/32457/32557/32657/32757/32857/32957/33057/33157/33257/33357/33457/33557/33657/33757/33857/33957/34057/34157/34257/34357/34457/34557/34657/34757/34857/34957/35057/35157/35257/35357/35457/35557/35657/35757/35857/35957/36057/36157/36257/36357/36457/36557/36657/36757/36857/36957/37057/37157/37257/37357/37457/37557/37657/37757/37857/37957/38057/38157/38257/38357/38457/38557/38657/38757/38857/38957/39057/39157/39257/39357/39457/39557/39657/39757/39857/39957/40057/40157/40257/40357/40457/40557/40657/40757/40857/40957/41057/41157/41257/41357/41457/41557/41657/41757/41857/41957/42057/42157/42257/42357/42457/42557/42657/42757/42857/42957/43057/43157/43257/43357/43457/43557/43657/43757/43857/43957/44057/44157/44257/44357/44457/44557/44657/44757/44857/44957/45057/45157/45257/45357/45457/45557/45657/45757/45857/45957/46057/46157/46257/46357/46457/46557/46657/46757/46857/46957/47057/47157/47257/47357/47457/47557/47657/47757/47857/47957/48057/48157/48257/48357/48457/48557/48657/48757/48857/48957/49057/49157/49257/49357/49457/49557/49657/49757/49857/49957/50057/50157/50257/50357/50457/50557/50657/50757/50857/50957/51057/51157/51257/51357/51457/51557/51657/51757/51857/51957/52057/52157/52257/52357/52457/52557/52657/52757/52857/52957/53057/53157/53257/53357/53457/53557/53657/53757/53857/53957/54057/54157/54257/54357/54457/54557/54657/54757/54857/54957/55057/55157/55257/55357/55457/55557/55657/55757/55857/55957/56057/56157/56257/56357/56457/56557/56657/56757/56857/56957/57057/57157/57257/57357/57457/57557/57657/57757/57857/57957/58057/58157/58257/58357/58457/58557/58657/58757/58857/58957/59057/59157/59257/59357/59457/59557/59657/59757/59857/59957/60057/60157/60257/60357/60457/60557/60657/60757/60857/60957/61057/61157/61257/61357/61457/61557/61657/61757/61857/61957/62057/62157/62257/62357/62457/62557/62657/62757/62857/62957/63057/63157/63257/63357/63457/63557/63657/63757/63857/63957/64057/64157/64257/64357/64457/64557/64657/64757/64857/64957/65057/65157/65257/65357/65457/65557/65657/65757/65857/65957/66057/66157/66257/66357/66457/66557/66657/66757/66857/66957/67057/67157/67257/67357/67457/67557/67657/67757/67857/67957/68057/68157/68257/68357/68457/68557/68657/68757/68857/68957/69057/69157/69257/69357/69457/69557/69657/69757/69857/69957/70057/70157/70257/70357/70457/70557/70657/70757/70857/70957/71057/71157/71257/71357/71457/71557/71657/71757/71857/71957/72057/72157/72257/72357/72457/72557/72657/72757/72857/72957/73057/73157/73257/73357/73457/73557/73657/73757/73857/73957/74057/74157/74257/74357/74457/74557/74657/74757/74857/74957/75057/75157/75257/75357/75457/75557/75657/75757/75857/75957/76057/76157/76257/76357/76457/76557/76657/76757/76857/76957/77057/77157/77257/77357/77457/77557/77657/77757/77857/77957/78057/78157/78257/78357/78457/78557/78657/78757/78857/78957/79057/79157/79257/79357/79457/79557/79657/79757/79857/79957/80057/80157/80257/80357/80457/80557/80657/80757/80857/80957/81057/81157/81257/81357/81457/81557/81657/81757/81857/81957/82057/82157/82257/82357/82457/82557/82657/82757/82857/82957/83057/83157/83257/83357/83457/83557/83657/83757/83857/83957/84057/84157/84257/84357/84457/84557/84657/84757/84857/84957/85057/8515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Characteristics: 85 - 400 °C  
Tachometer BG



Characteristics: 100 kN  
2. Electro-hydraulic press OMC 104



Characteristics: 1000kN load test  
- min. 20mm/min. max. 100mm/min. test speed



□ □ □



□ □ □



Characteristics: software is not included, analysis software



Characteristics: automatic indenter, reading



Characteristics: magnetic analysis; microscopy

## 6. Ultra-precision analytical balance



Characteristics: Measurement Range: 2 – 16, 2000-16000 mV, -9.9 – 120 °C

## 7. Multi-Channel Multi-Gas Analyzer NG Gas detector and analyser



Characteristics: CO, CO<sub>2</sub>, NO, SO<sub>2</sub>, H<sub>2</sub>, CH<sub>4</sub>, C<sub>2</sub>H<sub>6</sub>, C<sub>3</sub>H<sub>8</sub>, C<sub>4</sub>H<sub>10</sub>, C<sub>5</sub>H<sub>12</sub>, C<sub>6</sub>H<sub>14</sub>, C<sub>7</sub>H<sub>16</sub>, C<sub>8</sub>H<sub>18</sub>, C<sub>9</sub>H<sub>20</sub>, C<sub>10</sub>H<sub>22</sub>, C<sub>11</sub>H<sub>24</sub>, C<sub>12</sub>H<sub>26</sub>, C<sub>13</sub>H<sub>28</sub>, C<sub>14</sub>H<sub>30</sub>, C<sub>15</sub>H<sub>32</sub>, C<sub>16</sub>H<sub>34</sub>, C<sub>17</sub>H<sub>36</sub>, C<sub>18</sub>H<sub>38</sub>, C<sub>19</sub>H<sub>40</sub>, C<sub>20</sub>H<sub>42</sub>, C<sub>21</sub>H<sub>44</sub>, C<sub>22</sub>H<sub>46</sub>, C<sub>23</sub>H<sub>48</sub>, C<sub>24</sub>H<sub>50</sub>, C<sub>25</sub>H<sub>52</sub>, C<sub>26</sub>H<sub>54</sub>, C<sub>27</sub>H<sub>56</sub>, C<sub>28</sub>H<sub>58</sub>, C<sub>29</sub>H<sub>60</sub>, C<sub>30</sub>H<sub>62</sub>, C<sub>31</sub>H<sub>64</sub>, C<sub>32</sub>H<sub>66</sub>, C<sub>33</sub>H<sub>68</sub>, C<sub>34</sub>H<sub>70</sub>, C<sub>35</sub>H<sub>72</sub>, C<sub>36</sub>H<sub>74</sub>, C<sub>37</sub>H<sub>76</sub>, C<sub>38</sub>H<sub>78</sub>, C<sub>39</sub>H<sub>80</sub>, C<sub>40</sub>H<sub>82</sub>, C<sub>41</sub>H<sub>84</sub>, C<sub>42</sub>H<sub>86</sub>, C<sub>43</sub>H<sub>88</sub>, C<sub>44</sub>H<sub>90</sub>, C<sub>45</sub>H<sub>92</sub>, C<sub>46</sub>H<sub>94</sub>, C<sub>47</sub>H<sub>96</sub>, C<sub>48</sub>H<sub>98</sub>, C<sub>49</sub>H<sub>100</sub>, C<sub>50</sub>H<sub>102</sub>, C<sub>51</sub>H<sub>104</sub>, C<sub>52</sub>H<sub>106</sub>, C<sub>53</sub>H<sub>108</sub>, C<sub>54</sub>H<sub>110</sub>, C<sub>55</sub>H<sub>112</sub>, C<sub>56</sub>H<sub>114</sub>, C<sub>57</sub>H<sub>116</sub>, C<sub>58</sub>H<sub>118</sub>, C<sub>59</sub>H<sub>120</sub>, C<sub>60</sub>H<sub>122</sub>, C<sub>61</sub>H<sub>124</sub>, C<sub>62</sub>H<sub>126</sub>, C<sub>63</sub>H<sub>128</sub>, C<sub>64</sub>H<sub>130</sub>, C<sub>65</sub>H<sub>132</sub>, C<sub>66</sub>H<sub>134</sub>, C<sub>67</sub>H<sub>136</sub>, C<sub>68</sub>H<sub>138</sub>, C<sub>69</sub>H<sub>140</sub>, C<sub>70</sub>H<sub>142</sub>, C<sub>71</sub>H<sub>144</sub>, C<sub>72</sub>H<sub>146</sub>, C<sub>73</sub>H<sub>148</sub>, C<sub>74</sub>H<sub>150</sub>, C<sub>75</sub>H<sub>152</sub>, C<sub>76</sub>H<sub>154</sub>, C<sub>77</sub>H<sub>156</sub>, C<sub>78</sub>H<sub>158</sub>, C<sub>79</sub>H<sub>160</sub>, C<sub>80</sub>H<sub>162</sub>, C<sub>81</sub>H<sub>164</sub>, C<sub>82</sub>H<sub>166</sub>, C<sub>83</sub>H<sub>168</sub>, C<sub>84</sub>H<sub>170</sub>, C<sub>85</sub>H<sub>172</sub>, C<sub>86</sub>H<sub>174</sub>, C<sub>87</sub>H<sub>176</sub>, C<sub>88</sub>H<sub>178</sub>, C<sub>89</sub>H<sub>180</sub>, C<sub>90</sub>H<sub>182</sub>, C<sub>91</sub>H<sub>184</sub>, C<sub>92</sub>H<sub>186</sub>, C<sub>93</sub>H<sub>188</sub>, C<sub>94</sub>H<sub>190</sub>, C<sub>95</sub>H<sub>192</sub>, 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C<sub>529</sub>H<sub>1060</sub>, C<sub>530</sub>H<sub>1062</sub>, C<sub>531</sub>H<sub>1064</sub>, C<sub>532</sub>H<sub>1066</sub>, C<sub>533</sub>H<sub>1068</sub>, C<sub>534</sub>H<sub>1070</sub>, C<sub>535</sub>H<sub>1072</sub>, C<sub>536</sub>H<sub>1074</sub>, C<sub>537</sub>H<sub>1076</sub>, C<sub>538</sub>H<sub>1078</sub>, C<sub>539</sub>H<sub>1080</sub>, C<sub>540</sub>H<sub>1082</sub>, C<sub>541</sub>H<sub>1084</sub>, C<sub>542</sub>H<sub>1086</sub>, C<sub>543</sub>H<sub>1088</sub>, C<sub>544</sub>H<sub>1090</sub>, C<sub>545</sub>H<sub>1092</sub>, C<sub>546</sub>H<sub>1094</sub>, C<sub>547</sub>H<sub>1096</sub>, C<sub>548</sub>H<sub>1098</sub>, C<sub>549</sub>H<sub>1100</sub>, C<sub>550</sub>H<sub>1102</sub>, C<sub>551</sub>H<sub>1104</sub>, C<sub>552</sub>H<sub>1106</sub>, C<sub>553</sub>H<sub>1108</sub>, C<sub>554</sub>H<sub>1110</sub>, C<sub>555</sub>H<sub>1112</sub>, C<sub>556</sub>H<sub>1114</sub>, C<sub>557</sub>H<sub>1116</sub>, C<sub>558</sub>H<sub>1118</sub>, C<sub>559</sub>H<sub>1120</sub>, C<sub>560</sub>H<sub>1122</sub>, C<sub>561</sub>H<sub>1124</sub>, C<sub>562</sub>H<sub>1126</sub>, C<sub>563</sub>H<sub>1128</sub>, C<sub>564</sub>H<sub>1130</sub>, C<sub>565</sub>H<sub>1132</sub>, C<sub>566</sub>H<sub>1134</sub>, C<sub>567</sub>H<sub>1136</sub>, C<sub>568</sub>H<sub>1138</sub>, C<sub>569</sub>H<sub>1140</sub>, C<sub>570</sub>H<sub>1142</sub>, C<sub>571</sub>H<sub>1144</sub>, C<sub>572</sub>H<sub>1146</sub>, C<sub>573</sub>H<sub>1148</sub>, C<sub>574</sub>H<sub>1150</sub>, C<sub>575</sub>H<sub>1152</sub>, C<sub>576</sub>H<sub>1154</sub>, C<sub>577</sub>H<sub>1156</sub>, C<sub>578</sub>H<sub>1158</sub>, C<sub>579</sub>H<sub>1160</sub>, C<sub>580</sub>H<sub>1162</sub>, C<sub>581</sub>H<sub>1164</sub>, C<sub>582</sub>H<sub>1166</sub>, C<sub>583</sub>H<sub>1168</sub>, C<sub>584</sub>H<sub>1170</sub>, C<sub>585</sub>H<sub>1172</sub>, C<sub>586</sub>H<sub>1174</sub>, C<sub>587</sub>H<sub>1176</sub>, C<sub>588</sub>H<sub>1178</sub>, C<sub>589</sub>H<sub>1180</sub>, C<sub>590</sub>H<sub>1182</sub>, C<sub>591</sub>H<sub>1184</sub>, C<sub>592</sub>H<sub>1186</sub>, C<sub>593</sub>H<sub>1188</sub>, C<sub>594</sub>H<sub>1190</sub>, C<sub>595</sub>H<sub>1192</sub>, C<sub>596</sub>H<sub>1194</sub>, C<sub>597</sub>H<sub>1196</sub>, C<sub>598</sub>H<sub>1198</sub>, C<sub>599</sub>H<sub>1200</sub>, C<sub>600</sub>H<sub>1202</sub>, C<sub>601</sub>H<sub>1204</sub>, C<sub>602</sub>H<sub>1206</sub>, C<sub>603</sub>H<sub>1208</sub>, C<sub>604</sub>H<sub>1210</sub>, C<sub>605</sub>H<sub>1212</sub>, C<sub>606</sub>H<sub>1214</sub>, C<sub>607</sub>H<sub>1216</sub>, C<sub>608</sub>H<sub>1218</sub>, C<sub>609</sub>H<sub>1220</sub>, C<sub>610</sub>H<sub>1222</sub>, C<sub>611</sub>H<sub>1224</sub>, C<sub>612</sub>H<sub>1226</sub>, C<sub>613</sub>H<sub>1228</sub>, C<sub>614</sub>H<sub>1230</sub>, C<sub>615</sub>H<sub>1232</sub>, C<sub>616</sub>H<sub>1234</sub>, C<sub>617</sub>H<sub>1236</sub>, C<sub>618</sub>H<sub>1238</sub>, C<sub>619</sub>H<sub>1240</sub>, C<sub>620</sub>H<sub>1242</sub>, C<sub>621</sub>H<sub>1244</sub>, C<sub>622</sub>H<sub>1246</sub>, C<sub>623</sub>H<sub>1248</sub>, C<sub>624</sub>H<sub>1250</sub>, C<sub>625</sub>H



Characteristics: temperature: 10-1200°C  
Resolution: 0.1°C  
Accuracy: ±0.5°C  
Recording measurements







Characterisation of power supplies for electric / non-electric parameters







Characteristics of instruments acquisition and instruments for microscopic analysis





Characteristics for cutting and preparation of specimens