

MACHINE NAME	Bertch #30
BENDING LENGTH	122"
	10' 2"
PREBENDING CAPACITY Ødx1.5	1.800"
ROLLING CAPACITY Ødx3	2.360"
TOP ROLL DIAMETER Ød	26.00"

RMT Plate Roll Calculator



PLATE WIDTH		122" 10' 2" 100% Width	110" 9' 2" 90% Width	98" 8' 2" 80% Width	85" 7' 1" 70% Width	73" 6' 1" 60% Width	61" 5' 1" 50% Width	49" 4' 1" 40% Width	37" 3' 1" 30% Width	24" 2' 0" 20% Width
MATERIAL TYPES		Inside Diameter	Pre-Bending Thickness Rolling Thickness	Pre-Bending Thickness Rolling Thickness	Pre-Bending Thickness Rolling Thickness	Pre-Bending Thickness Rolling Thickness	Pre-Bending Thickness Rolling Thickness	Pre-Bending Thickness Rolling Thickness	Pre-Bending Thickness Rolling Thickness	Pre-Bending Thickness Rolling Thickness
CLASS-1 MATERIAL Max Yield Strength		28.60"	1.454" 2.034"	1.533" 2.144"	1.626" 2.274"	1.738" 2.431"	1.877" 2.625"	2.057" 2.876"	2.299" 3.216"	2.655" 3.713"
		33.80"	1.590" 2.186"	1.676" 2.304"	1.778" 2.444"	1.900" 2.613"	2.053" 2.822"	2.248" 3.092"	2.514" 3.457"	
		39.00"	1.939" 2.288"	2.044" 2.412"	2.168" 2.558"	2.317" 2.735"	2.503" 2.954"	2.742" 3.236"	3.066" 3.618"	3.540" 4.177"
		52.00"	1.987" 2.415"	2.095" 2.546"	2.222" 2.700"	2.375" 2.887"	2.566" 3.118"	2.811" 3.415"		
		78.00"	2.016" 2.542"	2.126" 2.680"	2.254" 2.842"	2.410" 3.038"	2.603" 3.282"	2.852" 3.595"	3.188" 4.019"	3.682" 4.641"
207	30,000	104.00"	2.041" 2.669"	2.151" 2.814"	2.282" 2.984"	2.439" 3.190"	2.635" 3.446"	3.775"		
N/mm²	PSI	130.00"	2.065" 2.745"	2.177" 2.894"	2.309" 3.070"	2.468" 3.281"	2.666" 3.544"	2.920" 3.883"	3.265" 4.341"	3.770" 5.013"
		260.00"	2.104" 2.796"	2.218" 2.948"	2.352" 3.126"	2.514" 3.342"	2.716" 3.610"			
CLASS-2 MATERIAL Max Yield Strength		28.60"	1.350" 1.888"	1.423" 1.990"	1.509" 2.111"	1.614" 2.257"	1.743" 2.437"	1.909" 2.670"	2.135" 2.985"	2.465" 3.447"
		31.20"	1.476" 2.030"	1.556" 2.139"	1.650" 2.269"	1.764" 2.426"	1.906" 2.620"	2.087" 2.870"	2.334" 3.209"	2.695" 3.706"
		39.00"	1.800" 2.124"	1.897" 2.239"	2.012" 2.375"	2.151" 2.539"	2.324" 2.742"	2.546" 3.004"	2.846" 3.358"	3.286" 3.878"
		52.00"	1.845" 2.242"	1.945" 2.363"	2.063" 2.507"	2.205" 2.680"	2.382" 2.894"	2.609" 3.171"	3.545"	
		78.00"	1.872" 2.360"	1.973" 2.488"	2.093" 2.639"	2.237" 2.821"	2.417" 3.047"	2.647" 3.338"	2.960" 3.731"	3.418" 4.309"
248	36,000	104.00"	1.895" 2.478"	1.997" 2.612"	2.118" 2.770"	2.264" 2.962"	2.446" 3.199"	2.679" 3.504"		
N/mm²	PSI	130.00"	1.917" 2.549"	2.021" 2.687"	2.143" 2.850"	2.291" 3.046"	2.475" 3.290"	2.711" 3.605"	3.031" 4.030"	3.500" 4.653"
		260.00"	1.953" 2.596"	2.059" 2.736"	2.184" 2.902"	2.334" 3.103"	2.521" 3.351"	2.762" 3.671"		
CLASS-3 MATERIAL Max Yield Strength		28.60"	1.126" 1.575"	1.187" 1.661"	1.259" 1.761"	1.346" 1.883"	1.454" 2.034"	1.593" 2.228"	1.781" 2.491"	2.057" 2.876"
		33.80"	1.232" 1.693"	1.298" 1.785"	1.377" 1.893"	1.472" 2.024"	1.590" 2.186"	1.742" 2.395"	1.947" 2.678"	2.248" 3.092"
		39.00"	1.502" 1.772"	1.583" 1.868"	1.679" 1.981"	1.795" 2.118"	1.939" 2.288"	2.124" 2.506"	2.375" 2.802"	2.742" 3.236"
		52.00"	1.539" 1.871"	1.623" 1.972"	1.721" 2.091"	1.840" 2.236"	1.987" 2.415"	2.177" 2.646"	2.434" 2.958"	2.811" 3.415"
		78.00"	1.562" 1.969"	1.646" 2.076"	1.746" 2.202"	1.867" 2.354"	2.016" 2.542"	2.209" 2.785"	2.470" 3.113"	2.852" 3.595"
345	50,000	104.00"	1.581" 2.068"	1.666" 2.179"	1.767" 2.312"	1.889" 2.471"	2.041" 2.669"	2.235" 2.924"	2.499" 3.269"	3.775"
N/mm²	PSI	130.00"	1.599" 2.127"	1.686" 2.242"	1.788" 2.378"	1.912" 2.542"	2.065" 2.745"	2.262" 3.008"	2.529" 3.363"	2.920" 3.883"
		260.00"	1.630" 2.166"	1.718" 2.283"	1.822" 2.422"	1.948" 2.589"	2.104" 2.796"	2.305" 3.063"	2.577" 3.425"	
CLASS-4 MATERIAL Max Yield Strength		28.60"	0.988" 1.382"	1.041" 1.456"	1.105" 1.545"	1.181" 1.651"	1.275" 1.784"	1.397" 1.954"	1.562" 2.185"	1.804" 2.522"
		33.80"	1.080" 1.485"	1.139" 1.566"	1.208" 1.661"	1.291" 1.775"	1.394" 1.917"	1.528" 2.100"	1.708" 2.348"	1.972" 2.712"
		39.00"	1.317" 1.554"	1.388" 1.638"	1.473" 1.738"	1.574" 1.858"	1.701" 2.007"	1.863" 2.198"	2.083" 2.458"	2.405" 2.838"
		52.00"	1.350" 1.641"	1.423" 1.729"	1.510" 1.834"	1.614" 1.961"	1.743" 2.118"	1.909" 2.320"	2.135" 2.594"	2.465" 2.995"
		78.00"	1.370" 1.727"	1.444" 1.820"	1.532" 1.931"	1.637" 2.064"	1.769" 2.230"	1.937" 2.442"	2.166" 2.731"	2.501" 3.153"
448	65,000	104.00"	1.386" 1.813"	1.461" 1.911"	1.550" 2.027"	1.657" 2.167"	1.790" 2.341"	1.961" 2.565"	2.192" 2.867"	2.531" 3.311"
N/mm²	PSI	130.00"	1.403" 1.865"	1.479" 1.966"	1.568" 2.085"	1.677" 2.229"	1.811" 2.408"	1.984" 2.638"	2.218" 2.949"	2.561" 3.405"
		260.00"	1.429" 1.900"	1.507" 2.003"	1.598" 2.124"	1.708" 2.271"	1.845" 2.453"	2.021" 2.687"	2.260" 3.004"	2.609" 3.468"
High Yield		28.60"	0.796" 1.114"	0.840" 1.174"	0.891" 1.245"	0.952" 1.331"	1.028" 1.438"	1.126" 1.575"	1.259" 1.761"	1.454" 2.034"
		33.80"	0.871" 1.197"	0.918" 1.262"	0.974" 1.339"	1.041" 1.431"	1.124" 1.546"	1.232" 1.693"	1.377" 1.893"	1.590" 2.186"
		39.00"	1.062" 1.253"	1.119" 1.321"	1.187" 1.401"	1.269" 1.498"	1.371" 1.618"	1.502" 1.772"	1.679" 1.981"	1.939" 2.288"
		52.00"	1.089" 1.323"	1.147" 1.394"	1.217" 1.479"	1.301" 1.581"	1.405" 1.708"	1.539" 1.871"	1.721" 2.091"	1.987" 2.415"
		78.00"	1.104" 1.392"	1.164" 1.468"	1.235" 1.557"	1.320" 1.664"	1.426" 1.798"	1.562" 1.969"	1.746" 2.202"	2.016" 2.542"
689	100,000	104.00"	1.118" 1.462"	1.178" 1.541"	1.250" 1.635"	1.336" 1.747"	1.443" 1.887"	1.581" 2.068"	1.767" 2.312"	2.041" 2.669"
N/mm²	PSI	130.00"	1.131" 1.504"	1.192" 1.585"	1.265" 1.681"	1.352" 1.797"	1.460" 1.941"	1.599" 2.127"	1.788" 2.378"	2.065" 2.745"
		260.00"	1.152" 1.532"	1.215" 1.614"	1.288" 1.712"	1.377" 1.831"	1.488" 1.977"	1.630" 2.166"	1.822" 2.422"	2.104" 2.796"

Important Remarks

Bending capacities valid for multisteps bending method. Technical datas can be changed without notice . Reproducing and releasing without getting permission are prohibited.

Numbers in BLANK are theoretical capacity, (machine may not open wide enough to accept material and usually are not recommended).

The diameters (especially the tightest) are approximate and do not commit the manufacturer, as they are calculated on the machine power only.

The material spring back could in fact re-open the rolled cylinders to diameters larger than calculated, but out of the machine control, depending from the physical material spring-back.

The thinner is the plate and the more its spring back will re-open the rolled diameters. That's why the thinnest stated capacities can more likely re-open to larger diameter than calculated (because of their higher spring back) even if tightly "wrapped" around the top roll.

Thinner thicknesses than the minimum herewith stated, or harder materials may re-open more than the minimum diameter indicated because of their higher spring back.

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