



















MEN	Age	DIN 33402		SizeGERMANY		Difference	
		P5 [mm]	P95 [mm]	P5 [mm]	P95 [mm]	P5 [mm]	P95 [mm]
Body Height	18-25	1685	1910	1683	1938	-2	28
	26-40	1665	1870	1690	1965	25	95
	41-60	1630	1835	1662	1923	32	88
	61-65	1605	1805	1636	1877	31	72
	<b>18-65</b>	<b>1650</b>	<b>1855</b>	<b>1668</b>	<b>1940</b>	<b>18</b>	<b>85</b>
Chest Circumference	18-25	845	1055	885	1133	40	78
	26-40	860	1090	917	1222	57	132
	41-60	880	1145	948	1249	68	104
	61-65	880	1125	951	1271	71	146
	<b>18-65</b>	<b>870</b>	<b>1110</b>	<b>918</b>	<b>1235</b>	<b>48</b>	<b>125</b>

Fig. 14. Body height and chest circumference comparison of German's size survey sizeGERMANY with standard DIN 33402.

While individual data analysis is requested, it is necessary to filter the represented population. Such filter mechanism needs to cover such basic attributes like gender, regional adherence, age group as well as socio-demographic attributes and body dimensions. Analysis functions (distribution, average, deviation, percentiles, correlations & regressions), optimization of market share tables, analyzed socio-demographic data and body dimensions can be used with the filter mechanism. The web-based solution iSize from Human Solutions covers the described requests plus additional possibilities like calculation of body measurement tables and statistical scanatars.

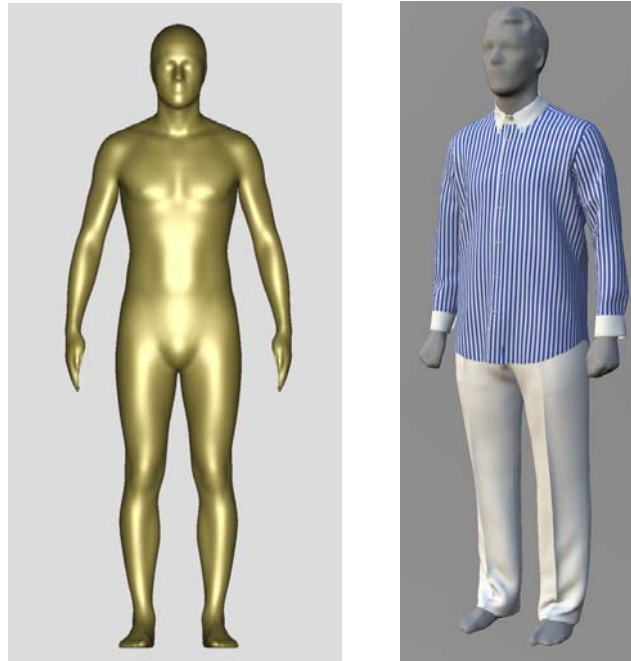


Fig. 15. Statistical scanatar and simulation of shirt with trousers.

## References

1. ISO 7250:1996 Basic human body measurements for technological designs
2. ISO 8859:1989 Garment construction and anthropometric surveys – Body dimensions
3. DIN 33402:2004 Körpermaße des Menschen
4. Robert Niles (2006). "Statistics Every Writer Should Know", Journalism Help, RobertNiles.com
5. Robinette, K. M., Daanen, H. A. M., Zehner, G. F. (2004). Three Dimensional Anthropometry. In Delleman, N.J., Haslegrave, C.M., Chaffin, D.B. Working Postures and Movements (pp 29-49). CRC Press LLC.