

ISO 20176:2011-03 (E)

Road vehicles - H-point machine (HPM-II) - Specifications and procedure for H-point determination

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Measurement procedure for the three-dimensional H-point machine	3
4.1 General	3
4.2 Summary of installation procedure	4
4.3 Prepare vehicle and seat	4
4.4 Determine the H-point travel path (optional)	5
4.5 Adjust seat to design intent	6
4.6 Install HPM cushion and back pan assembly	7
4.7 Load the HPM	9
4.8 Soak time	10
4.9 Record measurements -- digitize HPM points	11
5 Optional measurements for driver seat	12
5.1 Leg and shoe installations	12
5.2 Record measurements	14
6 Optional measurements for the 2nd or succeeding row passenger seats	17
6.1 Leg and shoe installation	17
6.2 Record measurements for rear passengers	21
7 Additional optional measurements	23
7.1 Effective headroom	23
8 Remove the HPM	24
Annex A (normative) Description of the three-dimensional H-point machine (HPM)	25
Annex B (informative) HPM specification and tolerances	36
Annex C (informative) HPM field checking procedures	44
Annex D (informative) H-point design (HPD) tool description	60
Bibliography	63