

**Progressing break test**

- .1. Progressing break test :after the test vehicle has reached the prescribed maximum speed the vehicle is slowed down to 20 km/h by operating the brake according to either braking method A or B and then a rapid braking is applied.  
 Braking A.moderate braking  
 Braking B.firm braking
- .2. Test vehicle . mini van type vehicle
- .3. Seats . A CRS equipped a webbing sensor is attached to the right seat in the second row from front.  
 . A CRS equipped with a vehicle sensor is attached to the left seat in the second row from front.  
 . . CRS is attached to the central seat in the second row from front.
- .4. Dummy . VIP3C

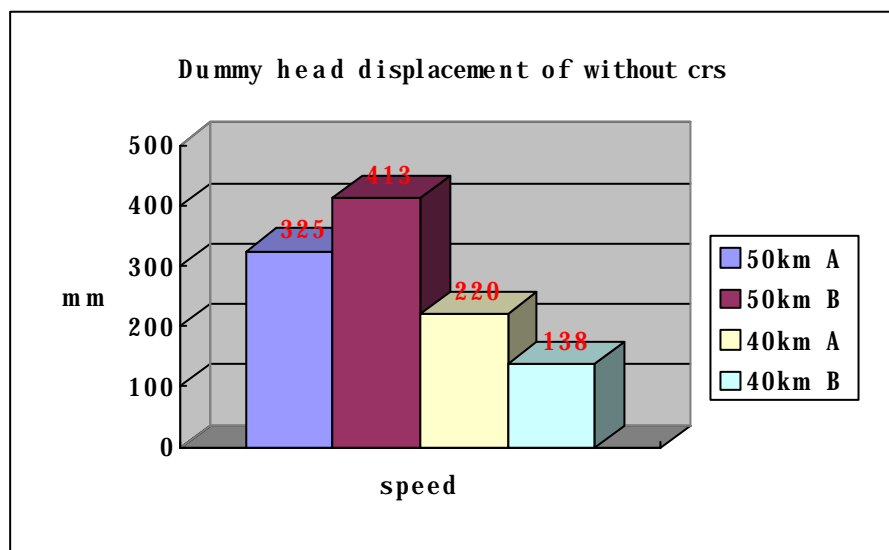
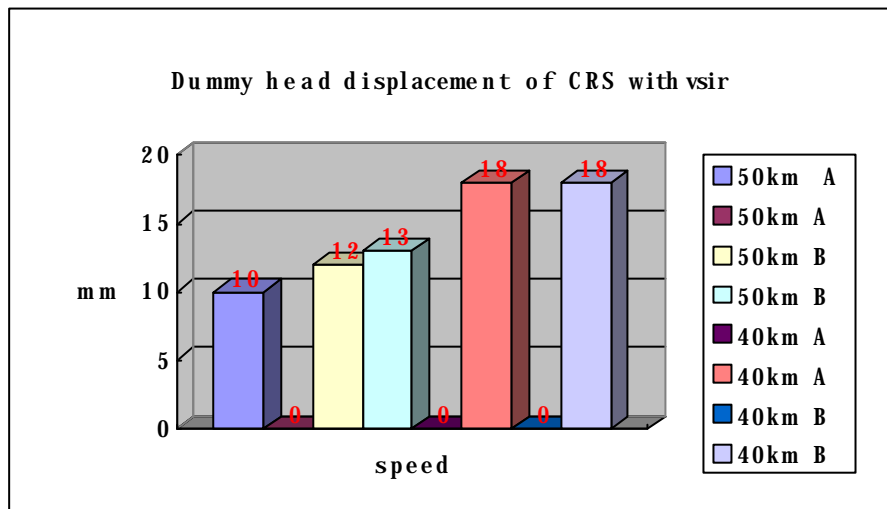
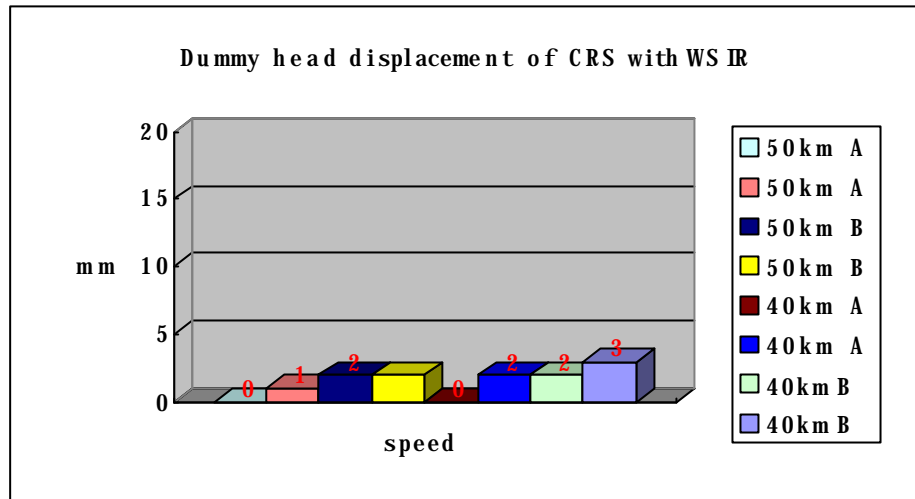
.Conclusions.

**1.In the progressing brake test, CRS with a vehicle sensor and CRS with a webbing sensor are equivalent in safety.**

**2.Although the maximum displacement of CRS with a vehicle sensor reaches 18mm, this does not pose any safety problems.**

	Speed test method	Vehicle body G (sensor on floor) Max G	Sample	Forward displacement of dummy head mm(head position before and after testing)		Webbing displacement from ELR mm
				Braking A or B	Rapid braking	
1	Max speed 50km Braking A	Braking A 0.3G Rapid braking 1.1	CRS with vsir	0	10	0
			CRS with wsir	0	0	0
			Without CRS	0	325	---
2	Max speed 50km Braking A	Braking A 0.28G Rapid braking 1.1	CRS with vsir	0	0	0
			CRS with wsir	0	1	0
3	Max speed 50km Braking B	Braking B 0.33 Rapid braking 0.76	CRS with vsir	0	12	0
			CRS with wsir	0	2	0
			Without CRS	0	413	---
4	Max speed 50km Braking B	Braking B 0.33 Rapid braking 1.1	CRS with vsir	0	13	0
			CRS with wsir	0	2	0
5	Max speed 40km Braking A	Braking A 0.22 Rapid braking 1.2	CRS with vsir	0	0	0
			CRS with wsir	0	0	0
			Without CRS	0	220	---
6	Max speed 40km Braking A	Braking A 0.3 Rapid braking 1.2	CRS with vsir	0	18	0
			CRS with wsir	0	2	0
7	Max speed 40km Braking B	Braking B 0.4 Rapid braking 1.1	CRS with vsir	0	0	0
			CRS with wsir	0	2	0
			Without CRS	0	138	---
8	Max speed 40km Braking B	Braking B 0.35 Rapid braking 1.2	CRS with vsir	0	18	4
			CRS with wsir	0	3	0

Graph



TEST VEHICLE FLOOR G AT EACH TESTS

