

Helping you choose the right helmet

SHARP
sharp.dft.gov.uk
THE HELMET SAFETY SCHEME

> FIT
> COMFORT
> SAFETY



Department for Transport

October 2023

WHAT SHOULD YOU LOOK FOR IN A HELMET?

Fit, Comfort and Safety.

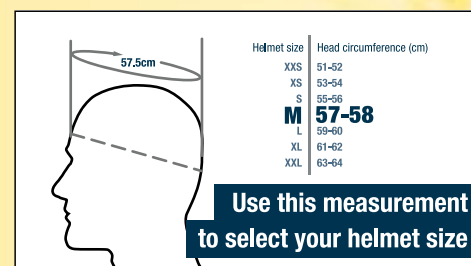
Helmets (and heads!) come in different shapes and sizes so take time to find the right one for you.

Try on different helmets and from those that **fit** correctly and are **comfortable**, consider selecting one with a high SHARP **safety** (star) rating. Whatever your budget, you should be able to find one with a high rating.

This guide will help you choose the right helmet for you but remember, in the first instance it needs to **fit** correctly – if it doesn't, it could come off in an accident even if the chin strap is fastened.

1. GET YOUR HEAD MEASURED

Before you try any helmet on, get your head measured around the fullest part (just above the ears).



This measurement will correspond to a particular size in a model range.

2. TRY IT ON

When you have your size, place it firmly on your head and secure the chin strap so that you can fit two fingers between it and your jaw. If there is a quick release buckle, take time to adjust the strap. You should be able to feel the inside of the helmet against all parts of your head, without feeling 'pressure points' or it leaving red marks.



Keep the helmet on for a few minutes to make sure it's **comfortable**.

3. IS IT TOO TIGHT OR TOO LOOSE?

With the strap secured, try rotating the helmet from side to side. With full face models your cheeks should follow the movement of the helmet and stay in contact with the cheek-pads. The helmet should not rotate on your head.

The cheek-pads should provide a firm, comfortable fit.



Tilt the helmet forward and back – it should stay in position and not move. Slippage in any direction means it's unlikely to be the right one for you.

4. DOES IT COME OFF?

Helmet loss occurs in around 13% of accidents so make sure it won't easily come off. Tilt your head forward and get someone to try to roll the helmet off your head by carefully applying an upward force at the base to the rear of the helmet. If it rolls off in the showroom with the chinstrap done up, it's unlikely to stay on in an accident.

5. CHECK SAFETY STANDARDS

Ensure the helmet either has an acceptable 'E' or BSI approval marking and consider the SHARP safety rating to make the **safest** possible choice. Finally, make sure the seller provides sufficient instructions for the use and care of the helmet and when you wear it, make sure the chin strap is done up correctly.

Remember:
FIT, COMFORT and SAFETY:

- > Try before you buy
- > Get the right **fit** and **comfort**
- > Make the **safest** possible choice

WHAT IS SHARP?

SHARP is the **S**afety **H**elmet **A**ssessment and **R**ating Programme.

By law all helmets must meet minimum safety standards but SHARP goes beyond these basic requirements to provide an independent assessment of how well a helmet performs over and above the minimum legal requirements.

SHARP awards a safety rating of 1 to 5 stars – those with 5 offer the highest level of protection.

However, no matter what its safety rating might be, a helmet must fit the rider correctly; so SHARP provides guidance on selecting one that fits.

WHAT RESEARCH UNDERPINS SHARP?

SHARP stems from international research that looked at 253 motorcycle road accidents. Replicating accidents in laboratory conditions determined the location, frequency and severity of impacts to helmets.



WHAT DO THE SHARP TESTS SHOW?

By using the findings of this research and using industry standard test equipment and procedures that are established in regulations, SHARP highlights the better performing helmets

in the market place. Our laboratory subjects helmets to more demanding impacts than regulations require and by providing a rating, we highlight those likely to perform significantly better in real world road accidents.



For further information and the full list of helmet ratings please go to: sharp.dft.gov.uk or scan this code:



@SHARPGovuk



Department for Transport

Safety rating calculations are based on the results of 32 impact tests to a range of locations on at least 7 helmets of the model being rated. These results are combined with the probability of injury risk on UK roads of an impact to that location on the helmet. Price is not factored into the calculation.

Latch performance (%) scores are calculated from the number of times the faceguard remains fully locked (completely shut) after each of the 30 linear impact tests (E.g. 30/30 = 100% and 9/30 = 30%).

SHARP is independent – its purpose is to provide motorcyclists with safety information so they can make an informed choice when buying a helmet.

Helmets are purchased from normal stock at UK motorcycle dealers in a variety of sizes.

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HELPING YOU
CHOOSE THE
RIGHT HELMET

Department for Transport
 @SHARPGovuk

FULL FACE HELMETS

3GO	★★★★★
E35	★★★★★
E5V	★★★★★
Agrius	★★★★★
Rage SV	★★★★★
AGV	★★★★★
Corsa	★★★★★
Corsa R	★★★★★
GP TECH	★★★★★
Grid	★★★★★
Horizon	★★★★★
K-3	★★★★★
K-3 SV	★★★★★
K-4	★★★★★
K-4 Evo	★★★★★
K-5	★★★★★
K-5 S	★★★★★
K-6	★★★★★
Pista GP	★★★★★
Pista GP R	★★★★★
S-4 SV	★★★★★
Skyline	★★★★★
Stealth	★★★★★
Stealth SV	★★★★★
T2	★★★★★
Veloce GT	★★★★★
Veloce S	★★★★★
Airoh	★★★★★
Dragon	★★★★★
Force	★★★★★
GP500	★★★★★
Storm Battle	★★★★★
ST 701	★★★★★
Valor	★★★★★
Arai	★★★★★
Chaser	★★★★★
Chaser X	★★★★★
Debut	★★★★★
Profile V	★★★★★
Quantum	★★★★★
Quantum ST	★★★★★
Quantum ST Pro	★★★★★
QV Pro	★★★★★
Rebel	★★★★★
Renegade V	★★★★★
RX7-GP	★★★★★
RX-7V	★★★★★
Arashi	★★★★★
Daytona	★★★★★
Phantom	★★★★★
Sonic	★★★★★
Steel 2	★★★★★
Bell	★★★★★
Bullitt	★★★★★
Eliminator	★★★★★
M3R	★★★★★
M4R Carbon	★★★★★
M5X Carbon	★★★★★
M6	★★★★★
Qualifier DLX	★★★★★
Qualifier DLX MIPS	★★★★★
Race Star	★★★★★
RS-1	★★★★★
RS-2	★★★★★
SRT	★★★★★
Star	★★★★★
Biltwell	★★★★★
Lane Splitter	★★★★★
BKS	★★★★★
Steath	★★★★★
Techno	★★★★★
Black	★★★★★
Titan SV	★★★★★
BMW	★★★★★
Sport	★★★★★

Box	★★★★★
BX1	★★★★★
BZ1	★★★★★
FZ1	★★★★★
Caberg	★★★★★
Drift	★★★★★
Drift Evo	★★★★★
Stunt	★★★★★
V2R	★★★★★
V2RR	★★★★★
V2X Carbon	★★★★★
V2 407	★★★★★
Vox	★★★★★
CMS	★★★★★
GP4	★★★★★
GP5F	★★★★★
Dainese	★★★★★
Airstream	★★★★★
D 181	★★★★★
DA530	★★★★★
Performance	★★★★★
Duchinni	★★★★★
D409	★★★★★
D419	★★★★★
D705	★★★★★
D711	★★★★★
D721	★★★★★
D811	★★★★★
D832	★★★★★
D909	★★★★★
Frank Thomas	★★★★★
FF07	★★★★★
Fusion	★★★★★
G921	★★★★★
RR700	★★★★★
G-Mac	★★★★★
Blaze	★★★★★
Mechanoid	★★★★★
Pilot	★★★★★
Renegade	★★★★★
Scirocco	★★★★★
Givi	★★★★★
50.4	★★★★★
HPS 50.6	★★★★★
Grex	★★★★★
G6.1	★★★★★
R2	★★★★★
Halfords	★★★★★
MYX	★★★★★
ST-1154	★★★★★
Harley-Davidson	★★★★★
Laguna II	★★★★★
Held	★★★★★
Root	★★★★★
HJC	★★★★★
C70	★★★★★
CS-14	★★★★★
CS-15	★★★★★
F70	★★★★★
FG-17	★★★★★
FG-ST	★★★★★
FS-11	★★★★★
i70	★★★★★
IS-16	★★★★★
IS-17	★★★★★
RPHA 10	★★★★★
RPHA 10 plus	★★★★★
RPHA 11	★★★★★
RPHA 70	★★★★★
TR1	★★★★★
ZF-10	★★★★★
Icon	★★★★★
Airflite	★★★★★
Airframe	★★★★★
Airmada	★★★★★
Alliance	★★★★★
Kabuto	★★★★★
RT33	★★★★★




Kawasaki	★★★★★
Sport	★★★★★
KBC	★★★★★
TK8	★★★★★
VR	★★★★★
VR4R	★★★★★
XP3	★★★★★
Lazer	★★★★★
Bayamo	★★★★★
Bora	★★★★★
Breva	★★★★★
Kestrel	★★★★★
Kite	★★★★★
Osprey	★★★★★
Solano Superskin	★★★★★
LEM	★★★★★
Genesis	★★★★★
Kinetic	★★★★★
LS2	★★★★★
FF320 Stream	★★★★★
FF320 Stream Evo	★★★★★
FF322	★★★★★
FF323 Arrow	★★★★★
FF350 Mono	★★★★★
FF351	★★★★★
FF352	★★★★★
FF353 Rapid	★★★★★
FF358	★★★★★
FF366 Cyber	★★★★★
FF375 Shogun	★★★★★
FF384	★★★★★
FF385	★★★★★
FF390 Breaker	★★★★★
FF396	★★★★★
FF397 Vector	★★★★★
Marushin	★★★★★
222	★★★★★
777 Tiger	★★★★★
RS1 Carbon	★★★★★
RS2 Carbon	★★★★★
MDS	★★★★★
M13	★★★★★
Sprinter	★★★★★
MT	★★★★★
Blade	★★★★★
Blade 2	★★★★★
KRE SV	★★★★★
Matrix	★★★★★
Mugello	★★★★★
Targo	★★★★★
Thunder	★★★★★
Thunder 3	★★★★★
Rapide	★★★★★
Revenge	★★★★★
Nankai	★★★★★
SA07	★★★★★
Nexx	★★★★★
SX100	★★★★★
XG 100 R	★★★★★
XR1R	★★★★★
XR1R Carbon	★★★★★
XR2	★★★★★
Nitro	★★★★★
Aikido	★★★★★
Dynamo	★★★★★
EVO Carbon FF	★★★★★
NG-FP	★★★★★
NP1100F	★★★★★
N-PSI	★★★★★
NS-FF	★★★★★
NS-FP	★★★★★
NSFC Carbon	★★★★★
N250-VX	★★★★★

N510-V	★★★★★
N1000-V	★★★★★
N1700-VF	★★★★★
N1900VF Carbon	★★★★★
N2100	★★★★★
N2200	★★★★★
N2300	★★★★★
NRS-01	★★★★★
Reactor	★★★★★
Nolan	★★★★★
N60-5	★★★★★
N63	★★★★★
N64	★★★★★
N85	★★★★★
N86	★★★★★
N87	★★★★★
X802	★★★★★
Nuvo	★★★★★
SP2	★★★★★
NZI	★★★★★
Premium S	★★★★★
RCV	★★★★★
OSBE	★★★★★
Highway	★★★★★
X Race	★★★★★
Premier	★★★★★
Trophy	★★★★★
Roof	★★★★★
Panther	★★★★★
RST	★★★★★
Fusion	★★★★★
Ruroc	★★★★★
Atlas 2.0	★★★★★
Atlas 3.0	★★★★★
Schuberth	★★★★★
R2	★★★★★
S1 Pro	★★★★★
S2	★★★★★
SR1	★★★★★
SR2	★★★★★
Scorpion	★★★★★
EX Combat	★★★★★
EXO 300	★★★★★
EXO 400	★★★★★
EXO 410	★★★★★
EXO 450	★★★★★
EXO 490	★★★★★
EXO 500 Air	★★★★★
EXO 510 Air	★★★★★
EXO 710 Air	★★★★★
EXO 750	★★★★★
EXO 1000	★★★★★
EXO 1000 Air E11	★★★★★
EXO 1200 Air	★★★★★
EXO 1400 Air	★★★★★
EXO 2000	★★★★★
Shark	★★★★★
D-Skwal	★★★★★
Race R	★★★★★
Race R Pro	★★★★★
Race R Pro Carbon	★★★★★
Ridill	★★★★★
RSF 3	★★★★★
RSR2 Carbon	★★★★★
S600	★★★★★
S650	★★★★★
S700	★★★★★
S900	★★★★★
Skwal	★★★★★
Skwal 2	★★★★★
Spartan	★★★★★
Spartan Carbon	★★★★★
Spartan GT	★★★★★

Spartan GT Carbon	★★★★★
Speed R	★★★★★
Vancore 2	★★★★★
Vision R	★★★★★
Vision R GT Carbon	★★★★★
Shoei	★★★★★
Ex Zero	★★★★★
Glamster	★★★★★
GT Air	★★★★★
NXR	★★★★★
NXR2	★★★★★
Qwest	★★★★★
Ryd	★★★★★
X-Spirit II	★★★★★
X-Spirit III	★★★★★
XR-1100	★★★★★
Shox	★★★★★
Assault	★★★★★
Axxis	★★★★★
Sniper	★★★★★
Simpson	★★★★★
Venom	★★★★★
Spada	★★★★★
Arc	★★★★★
Evolution	★★★★★
RP700	★★★★★
RP900	★★★★★
RP One	★★★★★
SP16	★★★★★
Stealth	★★★★★
HD117	★★★★★
HD188	★★★★★
Suomy	★★★★★
Apex	★★★★★
Excel	★★★★★
Speedstar	★★★★★
Vandal	★★★★★
Uvex	★★★★★
Xenova	★★★★★
VCan	★★★★★
V100F	★★★★★
V127	★★★★★
V158	★★★★★
V190	★★★★★
Vemar	★★★★★
Ghibli	★★★★★
V1.01.1 Eclipse	★★★★★
V1.02.1 Midas	★★★★★
Zephir	★★★★★
Viper	★★★★★
RS 33	★★★★★
RS 44	★★★★★
RS 220	★★★★★
RS 222	★★★★★
RS 1010	★★★★★
RS V131	★★★★★
RS V99	★★★★★
RS V5 Zero	★★★★★
RS V7 Zero	★★★★★
RS V8	★★★★★
RS V9	★★★★★
X-Lite	★★★★★
X603	★★★★★
X661	★★★★★
X702	★★★★★
X903	★★★★★
802R	★★★★★

SYSTEM (FLIP FRONT) HELMETS	
3GO	★★★★★
E115	★★★★★ 97%
AGV	★★★★★
Compact	★★★★★ 100%
Compact ST	★★★★★ 100%
Longway II	★★★★★ 90%
Numo	★★★★★ 100%
Sport Modular	★★★★★
Airoh	★★★★★
Miro	★★★★★ 76%
Rides	★★★★★ 76%
Rev	★★★★★ 73%
SV55 S	★★★★★ 87%
Bell	★★★★★
M10	★★★★★ 90%
Black	★★★★★
Optimus SV	★★★★★ 66%
BMW	★★★★★
System 6	★★★★★ 97%
System 6 Evo	★★★★★ 93%
Box	★★★★★
FX 1	★★★★★ 33%
SZ 1	★★★★★ 36%
Caberg	★★★★★
Droid	★★★★★ 100%
Duke	★★★★★ 87%
Duke 2	★★★★★ 90%
Horus	★★★★★ 87%
Konda	★★★★★ 97%
Levo	★★★★★ 90%
Sintesi	★★★★★ 90%
Tourmax	★★★★★
Duchinni	★★★★★
D605	★★★★★ 97%
D606	★★★★★ 30%
D619	★★★★★ 23%
D839	★★★★★ 37%
Frank Thomas	★★★★★
FL09	★★★★★ 20%
Fusion	★★★★★
Tranz	★★★★★ 23%
G-mac	★★★★★
Axis	★★★★★ 100%
Glide	★★★★★ 80%
Grex	★★★★★
G9.1	★★★★★ 100%
HJC	★★★★★
C90	★★★★★ 87%
I90	★★★★★ 90%
IS MAX	★★★★★ 40%
IS MAX 2	★★★★★ 100%
R-PHA 90S	★★★★★ 93%
R-PHA MAX	★★★★★ 93%
SY-MAX III	★★★★★ 40%
V90	★★★★★ 90%
Lazer	★★★★★
Paname	★★★★★ 90%
Monaco	★★★★★ 63%
LS2	★★★★★
FF324 Metro	★★★★★ 97%
FF325 Strobe	★★★★★ 100%
FF369 Delta	★★★★★ 70%
FF370	★★★★★ 100%
FF386	★★★★★ 100%

FF393	★★★★★ 37%
FF399 Valiant	★★★★★ 97%
FF902 Scope	★★★★★ 87%
Marushin	★★★★★
M401	★★★★★ 17%
MDS	★★★★★
MD200	★★★★★ 100%
MT	★★★★★
Atom SV	★★★★★ 50%
Flux	★★★★★ 40%
Raptor	★★★★★ 70%
Nitro	★★★★★
F342	★★★★★ 40%
F341-VN	★★★★★ 90%
F345 UNO	★★★★★ 77%
Nolan	★★★★★
N90	★★★★★ 100%
N903	★★★★★ 90%
N91 Evo	★★★★★ 100%
N100-5 Plus	★★★★★ 100%
N104	★★★★★ 100%
NZI	★★★★★
Convert III	★★★★★ 73%
Fibrup	★★★★★ 77%
Roof	★★★★★
Desmo 3	★★★★★ 97%
Schuberth	★★★★★
C3 Pro	★★★★★ 97%
C4	★★★★★ 100%
C4 Pro	★★★★★ 93%
E1	★★★★★ 93%
Scorpion	★★★★★
EXO 900 Air	★★★★★ 83%
EXO 920	★★★★★ 90%
Duchinni	★★★★★
EXO 3000 Air	★★★★★ 97%
Shark	★★★★★
Evoline III	★★★★★ 57%
EVO-ONE	★★★★★ 100%
EVO-ONE 2	★★★★★ 100%
Shoei	★★★★★
Neotec	★★★★★ 93%
Neotec 2	★★★★★ 70%
Shox	★★★★★
Bullet	★★★★★ 97%
Spada	★★★★★
Reveal	★★★★★ 83%
Tucana	★★★★★ 100%
Stealth	★★★★★
HD189	★★★★★ 83%
Suomy	★★★★★
D20	★★★★★ 100%
V Can	★★★★★
V270	★★★★★ 100%
Viper	★★★★★
RS V115	★★★★★ 80%
RS V131	★★★★★ 93%
RS V151	★★★★★ 100%
RS V171	★★★★★ 93%
RS V225	★★★★★ 77%
RS V335	★★★★★ 100%
X-Lite	★★★★★
X1003	★★★★★ 100%
X1004	★★★★★ 100%

FULL FACE HELMET

SYSTEM (FLIP FRONT) HELMET

 A helmet with a moveable part that covers the lower face.
LATCH PERFORMANCE

 Percentage of impacts where the chin guard remained fully locked.

For the full list of helmet results visit
sharp.dft.gov.uk