JAVNA AGENCIJA REPUBLIKE SLOVENIJE
ZA VARNOST PROMETA

SLOVENIAN TRAFFIC SAFETY AGENCY

HOMOLOGACIJA
TYPE-APPROVAL

AVP, Kotnikova ulica 19a, SI-1000 Ljubljana, tel.: 01 478 8430, vozila@avp-rs.si
STSA, Kotnikova ulica 19a, SI-1000 Ljubljana, tel.: +386 1 478 8430, vozila@avp-rs.si
37141-053/2020/06

POTRDILO O EU-HOMOLOGACIJI
EU TYPE-APPROVAL CERTIFICATE

Sporočilo o:
Communication concerning:

- EU-homologaciji - *EU type-approval* ~~- razširitvi EU-homologacije~~ ~~- *extension of EU type-approval*~~ ~~- zavrnitvi EU-homologacije~~ ~~- *refusal of EU type-approval*~~ ~~- preklicu EU-homologacije~~ ~~- *withdrawal of EU type-approval*~~	samostojne tehnične enote: naprave za uravnavanje onesnaževanja *of a type of STU: pollution-control device*

glede na Priloge II, III, ~~IV, V~~ in VI k Delegirani uredbi Komisije (EU) št. 134/2014, kakor je bila nazadnje spremenjena z Delegirano uredbo Komisije (EU) št. 2018/295
with regard to Annex(es) II, III, ~~IV, V~~ and VI to Commission Delegated Regulation (EU) No 134/2014, as last amended by Commission Delegated Regulation (EU) No 2018/295

Številka EU-homologacije: **e26*134/2014*2018/295F*01100*00**
EU type-approval number:

Razlog za razširitev: /
Reason for extension:

ODDELEK I
SECTION I

0.7	Znamke (tovarniška imena proizvajalca): *Make(s) (trade name(s) of manufacturer)*	AKRAPOVIC
0.8	Tip: *Type:*	P-KAT-082
0.8.1	Trgovska imena (če obstajajo): *Commercial name(s) (if available):*	/
0.9	Ime podjetja in naslov proizvajalca: *Company name and adress of manufacturer:*	AKRAPOVIC D.D. MALO HUDO 8A 1295 IVANCNA GORICA Slovenia

0.9.1.	Imena in naslovi proizvodnih tovarn: *Name(s) and addresse(s) of assembly plant(s):*	AKRAPOVIC D.D. MALO HUDO 8A 1295 IVANCNA GORICA Slovenia AKRAPOVIČ D.D., PE ČRNOMELJ ULICA HEROJA STARIHA 24 8340 ČRNOMELJ Slovenia
0.9.2	Ime in naslov zastopnika proizvajalca (če obstaja): *Name and adress of manufacturer's representative (if nay):*	/
0.10.	Pri samostojni tehnični enoti, vozila, za katere je namenjena: *In the case of seperate technical unit, vehicle(s) for which is intended for:*	KTM *Husqvarna*
0.10.1	Tip: *Type:*	glej poročilo o preskusu *see the test report*
0.10.2	Variante: *Variant(s):*	vse *all*
0.10.3	Izvedenke: *Version(s):*	vse *all*
0.10.4	Trgovska imena (če obstajajo): *Commercial name(s) (if available):*	glej poročilo o preskusu see the test report
0.10.5	Kategorija, podkategorija in podpodkategorija vozila: *Category, subcategory and sub-subcategory of vehicle:*	glej poročilo o preskusu *see the test report*

ODDELEK II
SECTION II

1.	Tehnična služba, pristojna za izvajanje preskusov: *Technical service responsible for carrying out the tests:*	TÜV SÜD Auto Service GmbH Westendstraße 199 D-80686 München Germany
2.	Datum poročil o preskusu: *Date of test report(s):*	29.10.2020
3.	Številka poročil o preskusu: *Number of test report(s):*	20-00050-CM-GBM-00
4.	Opombe: *Remarks:*	glej Dodatek *see Addendum*
4a.	Homologacija je: *The approval is:*	**podeljena** ***granted***
4a.1.	Homologacija se podeli na podlagi člena 40 Uredbe (EU) št. 168/2013, tako da je njena veljavnost omejena do: *The approval is granted in accordance with Article 40 of Regulation (EU) No 168/2013 and its Validity is thus limited to:*	ne pride v poštev *not applicable*
5.	~~Omejitve veljavnosti:~~ ~~*Restrictions of validity:*~~	/
6.	~~Uporabljene opustitve:~~ ~~*Waivers applied:*~~	/

Kraj:
Place: 1000 LJUBLJANA

Datum:
Date: 17.11.2020

Ime in podpis:
Name and signature: mag.Tomaž Svetina, univ.dipl.inž.str.
vodja sektorja za vozila

REPUBLIKA SLOVENIJA
Nosilec javnega pooblastila
03
Ljubljana
JAVNA AGENCIJA REPUBLIKE SLOVENIJE ZA VARNOST PROMETA

Temu sporočilu je priložen seznam dokumentov, ki so deponirani pri homologacijskem organu, ki je odobril to homologacijo in jih je na zahtevo mogoče dobiti:
glej kazalo opisne dokumentacije št. e01100 Rev.00
The list of documents deposited with the Administrative Service which has granted approval is annexed to this communication and may be obtained on request:
see index to information package No e01100 Rev.00

Dodatek k potrdilu o EU-homologaciji s številko EU-homologacije:
Addendum to the EU type-approval certificate with EU type-approval number:
e26*134/2014*2018/295F*01100*00

1. **Omejitve uporabe samostojne tehnične enote: naprave za uravnavanje onesnaževanja:**
   Restriction of use of the STU: pollution-control device:

   glej prilogo 2 testnega poročila 20-00050-CM-GBM-00
   see enclosure 2 of the test report xxx 20-00050-CM-GBM-00

2. **Posebni pogoji za vgradnjo samostojne tehnične enote: naprave za uravnavanje onesnaževanja:**
   Special conditions for the mounting of the STU: pollution-control device:

   glej proizvajalčeva navodila za vgradnjo
   see manufacturer's instruction manual

3. **Opombe:**
   Remarks:

   /

Ta homologacija se uporablja za tip serijsko izdelane nadomestne naprave za uravnavanje onesnaževanja za vozila kategorije L kot samostojne enote pod naslednjimi pogoji:

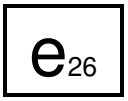
Posamezni proizvodi iz serijske proizvodnje morajo ustrezati najmanj vsem zahtevam Uredbe (EU) št. 168/2013 in Prilogam II, III, IV, V in VI (kjer pride v poštev) k Delegirani uredbi Komisije (EU) št. 134/2014, nazadnje spremenjene z Delegirano uredbo Komisije (EU) št. 2018/295, "Zahteve za preskus tipa I: emisije iz izpušne cevi po hladnem zagonu", "Zahteve za preskus tipa II: emisije iz izpušne cevi (pri povišani vrtilni frekvenci) v prostem teku in pri prostem pospeševanju", "Zahteve za preskus tipa III: emisije plinov iz okrova ročične gredi", "Zahteve za preskus tipa IV: emisije zaradi izhlapevanja" in "Zahteve za preskus tipa V: vzdržljivost naprav za uravnavanje onesnaževanja".

Priloženo poročilo o preskusu in risbe so sestavni del te homologacije.

Vsaka nadomestna naprava za uravnavanje onesnaževanja za vozila kategorije L mora biti čitljivo in trajno označena z:

- znamko (tovarniškim imenom proizvajalca),
- tipom ali trgovskim imenom,
- homologacijsko oznako.

Temu tipu proizvoda se dodeli naslednja homologacijska oznaka:



01100F

Homologacijska oznaka na proizvodu mora po izvedbi in velikosti ustrezati zahtevam Izvedbene uredbe Komisije (EU) št. 901/2014, nazadnje spremenjene z Izvedbeno uredbo Komisije (EU) št. 2018/295.

S tem homologacijskim znakom so lahko označeni samo tisti proizvodi, ki v celoti ustrezajo homologacijski dokumentaciji.

Oznaka EU-homologacije samostojne tehnične enote ali sestavnega dela mora biti na samostojni tehnični enoti ali sestavnem dele nameščena tako, da je neizbrisna (npr. odtisnjena, jedkana, lasersko vgravirana, samouničljiva nalepka), jasno berljiva in vidna na mestu, kjer se namesti na vozilo, ne da bi bilo treba kateri koli del odstraniti z orodjem (če je mogoče).

Proizvod je lahko označen tudi s tujo homologacijsko ali drugo oznako, če s tem ni motena razpoznavnost in čitljivost homologacijske oznake, ki jo je dodelil slovenski homologacijski organ.

Na proizvodu ne sme biti oznak, ki bi lahko privedle do zamenjave z uradno dodeljeno oznako.

Kakršnekoli spremembe na proizvodu so dovoljene samo na podlagi posebnega dovoljenja homologacijskega organa.

Veljavnost homologacije preneha z vrnitvijo ali z odvzemom. Homologacija se odvzame, če pogoji za podelitev in obstoj homologacije ne obstajajo več, če lastnik homologacije krši obveznosti, povezane s homologacijo, oziroma če se ugotovi, da homologirani proizvod ne ustreza več veljavnim predpisom.

Proizvajalec je dolžan stalno kontrolirati kakovost homologiranega proizvoda in njegovo skladnost s homologacijsko dokumentacijo. O tej kontroli je dolžan voditi evidenco in omogočiti vpogled v zapiske nadzornemu organu, ki ga določi homologacijski organ. V primeru ugotovitve neskladnosti s homologacijsko dokumentacijo je proizvajalec dolžan o tem takoj obvestiti homologacijski organ.

Homologacijski organ lahko kadarkoli preverja pravilno izvajanje pooblastil, dodeljenih s to homologacijo, in v ta namen tudi izbira vzorce za ponovni preskus. Stroške takšnih pregledov in presoj skladnosti proizvodnje, se zaračunajo proizvajalcu.

Vsako spremembo oznake proizvajalca, naslova ali proizvodne tovarne oziroma pri homologaciji imenovane pooblaščene osebe je treba takoj sporočiti homologacijskemu organu.

Pravice, podeljene s to homologacijo, so neprenosljive. Pravice tretjih s to homologacijo niso prizadete.

V primerih, da se proizvodnja ali prodaja proizvoda ne začne v roku enega leta od podelitve homologacije, da se proizvodnja ali prodaja prekine za več kot eno leto oziroma, da se predvideva taka prekinitev, je o tem treba takoj obvestiti homologacijski organ.

O začetku proizvodnje ali začetku prodaje oziroma njihovem ponovnem začetku je treba obvestiti homologacijski organ najkasneje v enem mesecu.

Neupoštevanje zgoraj navedenih določil lahko povzroči odvzem homologacije in se kazensko preganja.

Pravno razlago v zvezi s to homologacijo lahko daje samo homologacijski organ.

17.11.2020

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mag. Tomaž Švetina, univ.dipl.inž.
vodja sektorja za vozila

This Approval shall apply to a replacement pollution-control device type for L-category vehicles as separate technical units from serial production under the following conditions:

Individual products from serial production shall comply at least with all requirements set out in the Regulation (EU) No 168/2013 and Annex(es) II, III, IV, V and VI (where applicable) to Commission Delegated Regulation (EU) No 134/2014, as last amended by Commission Delegated Regulation (EU) No 2018/295, "Test type I requirements: tailpipe emissions after cold start", "Test type II requirements: tailpipe emissions at (increased) idle and free acceleration", "Test type III requirements: emissions of crankcase gases", "Test type IV requirements: evaporative emissions" and "Test type V requirements: durability of pollution-control devices".

The attached test report and drawings shall be a constituent part of this Approval.

Each replacement pollution-control device type for L-category vehicles shall be marked with a readable and durable:

- *make (trade name of manufacturer)*,
- *type or commercial name*,
- *approval marking*.

This type of product shall be allotted the following approval marking:

e26

01100F

The design and size of the approval marking shall meet the requirements of the Commission implementing Regulation (EU) No 901/2014, as last amended by Commission implementing Regulation (EU) No 2018/295.

Only products which fully comply with the approval documentation may bear the alloted approval mark.

The EU separate technical unit or component type-approval mark shall be affixed to the separate technical unit or component in a way which is indelible (e.g. stamped, etched, laser-engraved, self-destructing adhesive label), clearly legible and visible in the place at which it is to be fitted to the vehicle without the need to remove any parts with the use of tools (where possible).

The product may also be marked with a foreign approval or other marking, provided that the identifiability and readability of the approval marking granted by the Slovenian Type Approval Authority is not affected.

The product shall not bear any markings that may lead to confusion with the officially allotted marking.

Changes of any kind performed on the product shall be subject to special permission by the Slovenian Type Approval Authority.

The Approval will become ineffective when returned or withdrawn. The Approval shall be withdrawn: should the conditions for its granting and existence no longer exist, should the owner of the Approval break his obligations related to the Approval, or when it has been established that the approved product no longer complies with the applicable regulations.

The manufacturer shall regularly inspect the quality of the approved product as well as its conformity with the approval documentation. He shall keep record of this inspection and allow to the surveillance body appointed by the Slovenian Type Approval Authority access to the records. Should any non-conformities be found with respect to the approval documentation, the manufacturer shall immediately inform thereof the Slovenian Type Approval Authority.

Any time, the Slovenian Type Approval Authority may check the correct implementation of the authorizations appointed through this Approval, and for this purpose also select samples for a repeated test. The costs of such checks and conformity of production assessments are charged to the manufacturer.

Any changes regarding the manufacturer's marking, the address or the production plant, or the authorized person appointed through this Approval, shall be forthwith notified to the Slovenian Type Approval Authority.

The rights granted through this Approval shall be untransferrable. The rights of third persons shall not be affected through this Approval.

In the case where the production or sale of the product does not start within one year after the granting of the Approval, or the production or sale is interrupted for a period longer than one year, or such interruption is foreseen, the Slovenian Type Approval Authority shall be immediately notified.

The Slovenian Type Approval Authority shall be notified of the start of production or start of sale, or its restart, within a month's time at the latest.

Non-compliance with above stated provisions may result in withdrawal of the Approval and will be prosecuted.

Legal explanations in relation with this Approval may only be given by the Slovenian Type Approval Authority.

17.11.2020

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ZA VARNOST PROMETA

Tomaž Svetina, M.Sc.Eng.
Head of Vehicle department

JAVNA AGENCIJA REPUBLIKE SLOVENIJE
ZA VARNOST PROMETA

SLOVENIAN TRAFFIC SAFETY AGENCY

AVP, Kotnikova ulica 19a, SI-1000 Ljubljana, tel.: 01 478 8430, vozil@avp-rs.si
STSA, Kotnikova ulica 19a, SI-1000 Ljubljana, tel.: +386 1 478 8430, vozila@avp-rs.si

KAZALO OPISNE DOKUMENTACIJE e01100
INDEX TO THE INFORMATION PACKAGE e01100
Revision: 00

Homologacijska številka: **e26*134/2014*2018/295F*01100**
Approval number:

Razširitev številka: **00**
Extension number:

Zgodovina homologacije / Opisne dokumentacije:
Type approval / Information package history:

Razširitev / Revizija: *Extension / Revision:*	Zadeva: *Subject:*	Datum izdaje: *Date of issue:*	Skupno št. strani: *Total No. of pages:*
00/00	Razširitev homologacije Extention of type approval	17.11.2020	42

Poročilo o preskusu: **20-00050-CM-GBM-00**
Test report:

Število strani: **22**
Number of pages:

datum izdaje: **29.10.2020**
date of issue:

datum zadnje spremembe: **/**
date of latest amendment:

Opisni list/Tehnični opis naprave: **P-KAT-082**
Information document/Technical description of the device:

Število strani: **2**
Number of pages:

datum izdaje: **29.10.2020**
date of issue:

datum zadnje spremembe: **/**
date of latest amendment:

Risba(e)[1]:
Drawing(s)[1]:

Število strani: **2**
Number of pages:

datum zadnje spremembe: **/**
date of latest amendment:

Navodila za vgradnjo in uporabo:
Mounting and handling instructions:

Število strani: **14**
Number of pages:

datum zadnje spremembe: **/**
date of latest amendment:

Ostala dokumentacija:
Other documentation:

Število strani: **1**
Number of pages:

[1] kosovnice, slike, sheme in diagrami / *[1] bill of materials, pictures, schematics and diagrams*

Akrapovič d.d.
Malo Hudo 8A
1295 Ivančna Gorica

SLOVENIAN TRAFFIC SAFETY AGENCY,
KOTNIKOVA ULICA 19a,
1000 LJUBLJANA,
SLOVENIA

We, Akrapovič d.d., Malo Hudo 8a. 1295 Ivančna Gorica, Slovenia hereby ask STSA to grant approval against ***134/2014*2018/295 EC (F)*** for the following product:
Exhaust system for Motorcycles – catalytic converter:

Type:	***P-KAT-082***
Version:	*P-KAT-082/1* *P-KAT-082/2*
Manufacturer:	***Akrapovič d.d.*** ***Malo Hudo 8a*** ***1295 Ivančna Gorica*** ***Slovenia***

We declare that we have not applied to any other Approval Authority in the EU Member States for this approval.

We have requested ***TÜV SÜD Auto Service GmbH,*** to carry out all testing required by the directive and/or regulation that the approval is sought against and to present the entire documentation for the approval.

Yours sincerely,

Akrapovič d.d.
Uroš Rosa, CEO

AKRAPOVIČ d.d. Malo Hudo 8a, 1295 Ivančna Gorica, Slovenija

Date: 24.08.2020

REPUBLIKA SLOVENIJA

TÜV SÜD Auto Service GmbH
Westendstraße 199
D-80686 München

Auto Service

P R Ü F B E R I C H T
T E S T R E P O R T
Nr. / *No.* 20-00050-CM-GBM-00

über die Prüfung zur Typgenehmigung einer emissionsmindernden Einrichtung als selbstständige technische Einheit für Krafträder.

about type-approval tests of a replacement pollution-control device for L-category vehicles as a separate technical unit

Verordnung / *Regulation*	(EU) 134/2014	vom / *dated* 16:12.2013
zuletzt geändert / *last amended*	(EU) 2018/295	vom / *dated* 15.12.2017
Kodierung / *Codification*	F	

zur Ergänzung der Verordnung (EU) Nr. 168/2013 des Europäischen Parlaments und des Rates.
supplementing Regulation (EU) 168/2013 of the European Parliament and the Council.

Genehmigungsstand / *Approval status*		
☑	Erteilung einer Typgenehmigung *Granting of a type approval*	**e26*134/2014*2018/295F*01100*00**
☐	Nachtrag/Änderung zur Typgenehmigung Nr. *Extension/correction to type approval no.*	

Gründe der Erweiterung / *Reasons for extension*

Es wird geändert: -
It will be changed: -

Es wird aktualisiert: -
It will be updated: -

0. Allgemeine Angaben / *General information*

0.1.	Fabrikmarke / *Make:*	Akrapovic Exhaust System Technology
0.2.	Typ / *Type:*	P-KAT-082
0.2.1.	Ausführungen / *Variants* Außenmantel und Matrix / *Sleeve and matrix:*	 Edelstahl / *Stainless steel*
0.3.	Name und Anschrift des Herstellers / *Name and address of manufacturer:*	 Akrapovic d.d. Malo Hudo 8a 1295 Ivancna Gorica Slovenia
0.4.	Name und Anschrift des Beauftragten / *Name and address of authorized agent:*	 entfällt / *n.a.*
0.5.	Nr. des Beschreibungsbogens / *No. of information document:* Ausgabedatum / *Date:*	 P-KAT-082 29.10.2020
1.0.	Klasse der Fahrzeuge, für die die Anlage bestimmt ist / *Class of the vehicles the unit is used for:*	L3e
1.1.	Beschreibung der Fahrzeuge, für die die Einrichtung bestimmt ist / *Description of the vehicles the unit is used for:*	siehe Anlage 2 / *notice enclosure* 2

2. Angaben zum Prüfobjekt / *Composition of the separate technical unit*

2.1.	Art der Technischen Einheit: *Kind of technical unit:*	siehe Beschreibungsbogen / *see Information Document*
2.2.	Ort der Kennzeichnung/ *Place of marking:*	Lasergravur auf Außenmantel / *Engraved by laser on sleeve*
2.3.	Zusammenstellung der technischen Einheit / *Composition of the separate technical unit:*	 siehe Anlage 1 / *notice enclosure 1*
2.4.	Lage und Richtung der Auspuffmündung: *Position and direction of the tail pipe:*	siehe Austauschschalldämpfer Genehmigung *see non original exhaust system certification*
2.5.	Prüfmuster eingegangen am: *Test samples submitted for testing at:*	19.08.2020

3. Prüfprotokoll / *Test report*
Versuchsreihe A / *Tests series A*

3.1. Fahrzeug lfd. Nr. 1) / *Vehicle no. 1)*

3.1.1.	Typ / *Type:*	KTM 690 LC4
3.1.1.1	Variante / Version / *Variant / Version:*	A / -
3.1.1.2	Fahrzeugkasse / *Category:*	L3e-A3
3.1.1.3	Handelsbezeichnung / *Model:*	KTM 690 Enduro R
3.1.2.	Hersteller / *Manufacturer*	KTM AG
3.1.3.	Genehmigungs-Nr. / *Homologation no.:*	e1*168/2013*00147*
3.1.3.1	Nachtrag bzw. Erweiterung / *Extension:*	01
3.1.4.	Fahrzeugidentifizierungsnummer / *Vehicle identification no.:*	VBKLETP30MM777579
3.1.5.	Baujahr / *Year of manufacture:*	2020
3.1.6.	km-Stand / *Kilometers:*	724
3.1.7.	Zul. Gesamtgewicht / *total weight:*	350 kg

3.2. Antriebsmaschine / *Engine*

3.2.1.	Hersteller / *Manufacturer:*	KTM
3.2.2.	Typ / *Type:*	768
3.2.3.	Hubraum / *Engine capacity:*	693 cm^3
3.2.4.	Höchstleistung / *engine net power:*	55 kW bei / *at* 8000 min^{-1}
3.2.5.	max. Dehmoment / *net torque:*	71 Nm bei / *at* 6750 min^{-1}

3.3. Kraftübertragung / *Transmission*

3.3.1.	Art der Kraftübertragung / *Kind of transmission:*	mechanisch / *mechanical*
3.3.4	Getriebe / *Gearbox:*	manuel / *manual*
3.3.5.	Übersetzungsverhältnisse / *Transmission ratios:*	
	primär / *primary* / sekundär / *secondary*	2,194 / 3,067
	Höchstgeschwindigkeit / *Top speed:*	180 km/h
	Reifen / *Tires:*	Mitas E-07
	vorne / *front*	90/90 – 21 54T
	hinten / rear	140/80 – 18 70T

3.4. Zusammenbau der Auspuffanlage / *Assembly of the exhaust system*
(Teile lfd. Nr. lt. Anl. 1 /
no. of parts, enclosure 1)
Versuchsreihe A / *Tests series A:* 1)2a)3)4)

Versuchsreihe B / *Tests series B*

3.1.	**Fahrzeug lfd. Nr. 8) / *Vehicle no. 8)***	
3.1.2.	Typ / *Type:*	Husqvarna 701
3.1.1.1	Variante / Version / *Variant / Version:*	A / -
3.1.1.2	Fahrzeugkasse / *Category:*	L3e-A3
3.1.1.3	Handelsbezeichnung / *Model:*	701 Supermotor
3.1.2.	Hersteller / *Manufacturer*	KTM AG
3.1.3.	Genehmigungs-Nr. / *Homologation no.:*	e1*168/2013*00032*
3.1.3.1	Nachtrag bzw. Erweiterung / *Extension:*	02
3.1.4.	Fahrzeugidentifizierungsnummer / *Vehicle identification no.:*	VBKUSVP35MM781894
3.1.5.	Baujahr / *Year of manufacture:*	2020
3.1.6.	km-Stand / *Kilometers:*	43
3.1.7.	Zul. Gesamtgewicht / *total weight:*	350 kg
3.2.	**Antriebsmaschine / *Engine***	
3.2.1.	Hersteller / *Manufacturer:*	KTM
3.2.2.	Typ / *Type:*	768
3.2.3.	Hubraum / *Engine capacity:*	693 cm^3
3.2.4.	Höchstleistung / *engine net power:*	55 kW bei / *at* 8000 min^{-1}
3.2.5.	max. Dehmoment / *net torque:*	71 Nm bei / *at* 6750 min^{-1}
3.3.	**Kraftübertragung / *Transmission***	
3.3.1.	Art der Kraftübertragung / *Kind of transmission:*	mechanisch / *mechanical*
3.3.4	Getriebe / *Gearbox:*	manuel / *manual*
3.3.5.	Übersetzungsverhältnisse / *Transmission ratios:* primär / *primary* / sekundär / *secondary*	2,194 / 2,625
	Höchstgeschwindigkeit / *Top speed:*	200 km/h
	Reifen / *Tires:*	Continental ContiAttack SM EVO
	vorne / *front*	120/70 R17 58H
	hinten / rear	160/60 R17 69H

3.4. **Zusammenbau der Auspuffanlage** / ***Assembly of the exhaust system***
(Teile lfd. Nr. lt. Anl. 1 /
no. of parts, enclosure 1)
Versuchsreihe B / *Tests series B:* 1)2b)3)4)

3.5. Messung der Geräuschwerte / *Acoustic measurements*

3.5.1. Hersteller des Messgerätes /
Manufacturer of test equipment: MÜLLER-BBM

3.5.2. Typ des Messgerätes /
Type of the test equipment: PAK MK II Configuration

3.5.3. Fahrgeräusch, Standgeräusch /
Drive by noise, stationary noise:

nach ECE-R 41.04 /
according ECE-R 41.04

3.5.4 Beladungszustand bei der Fahrgeräuschmessung /
Load condition during drive by test: Leergewicht zuzüglich 75 kg Fahrer /
Unloaded weight plus 75 kg driver

3.5.5. Abweichung bei Kalibrierung /
Deviation at calibration: < 0.2 dB(A)

3.6. Messung der Leistung / *Power measurement*

3.6.1. Messung der Leistungskurve mit Nicht-Originalauspuffanlage /
Testing of max. power with non-original exhaust system:

Die gemessene Nennleistung und die zugehörige Drehzahl liegen im Toleranzbereich von 5% im Vergleich zu den mit der Originalauspuffanlage gemessenen Werten. (siehe Anlage) /
The tested max. power und the engine speed are in the 5% tolerance in comparison with the original exhaust system. (see enclosure)

3.6.2. Messung der Höchstgeschwindigkeit mit Nicht-Originalauspuffanlage/
Testing of top speed with non-original exhaust system:

Entfällt, da Fahrzeugklasse: L3e
Not applicable, because vehicle class: L3e

3.7. Konditionierung der Auspuffschalldämpferanlage / *Conditioning*

durch Druckschwingungen / *by pulsation*

3.8. Messung der Schadstoffemissionen / *Pollution Test*

Messung des Abgasverhaltens mit Austauschkatalysator in Verbindung mit Nicht-Originalauspuffanlage gegen die in (EU)168/2013 Anh. VI (A2) Euro 5 genannten Grenzwerte bezogen auf die Fahrzeugklasse des Prüffahrzeugs.

Der Austauschkatalysator P-KAT-082 wird vom original Teilelieferanten des Gesamtfahrzeugherstellers, der in Anlage 2 aufgeführten Fahrzeuge, bezogen und entspricht diesen in allen Parametern. Aufbau und Beschichtung sind identisch. Aus diesem Grund wurde auf eine Vorkonditionierung verzichtet.
Die Messung wurde mit dem Prüffahrzeug Versuchsreihe A durchgeführt, da im Fahrzeug Versuchsreihe B serienmäßig der gleiche Katalysator verbaut ist.

Testing of pollution with aftermarket catalytic converter in combination with non-original exhaust system against the limits mentioned in (EU)168/2013 Annex VI (A2) Euro 5 regarding the vehicle category of the test bike.

The aftermarket catalytic converter P-KAT-082 is obtained from the original parts supplier of the entire vehicle manufacturer, listed in enclosure 2, and corresponds to this in all parameters. Structure and coating are identical. For this reason, preconditioning was not performed.
Only testing with vehicle Tests series A was performed, because vehicle Tests series B is equipped originally with the same catalytic converter.

3.9. Ergebnisse / *Test results*

Die Ergebnisse der Prüfungen hinsichtlich / *The results of*
3.9.1. Geräusche / *Noise testing*
3.9.2. Leistung / *Power measurement*
3.9.3. Höchstgeschwindigkeit / *Top speed*
3.9.4. Abgasverhalten / *Pollution test*

sind der als Anlage beigefügten Tabellen zu entnehmen /
are attached in the enclosure.

Aufgrund der Messung mit dem/n o.g. Fahrzeug/en können auch die in Anlage 2 aufgeführten Krafträder die die gleiche Serien- Auspuffanlage besitzen und gleiche bzw. geringere Motorleistung haben, mit in den Verwendungsbereich aufgenommen werden/
All motorcycles with the same serial exhaust system and same or fewer performance mentioned in enclosure 2, can be taken into the field of application due to the measurement with the above named motorcycle/s.

3.9.5. Die beschriebene Nicht-Originalauspuffanlage / Technische Einheit darf an den in der Anlage 2 aufgeführten Kraftfahrzeugen unter den dort genannten Bedingungen verwendet werden. /
The described non-original exhaust system / technical unit is suitable for an application at the vehicles listed in enclosure 2.

3.9.6. Die allgemeinen Spezifikationen gemäß (EU)134/2014; Anhang II; Anlage 10; Abschnitt 4.1. werden durch die Technische Einheit erfüllt. /
The general specifications regarding (EU)134/2014; Annex II; Appendix 10; Clause 4.1. are fulfilled by the technical unit.

4. Anlagen / *Enclosures*

Anlage 1, Teile der Nicht-Originalauspuffanlage
Enclosure 1, Composition of the non original exhaust system
Anlage 2, Verwendungsbereich
Enclosure 2, Field of application
Anlage 3, Ergebnis der Prüfungen
Enclosure 3, Test results
Anlage 4, Ergebnis der Prüfungen hinsichtlich Abgasverhalten
Enclosure 4, Test results according pollution
Anlage, Leistungskurve
Enclosure, Performance diagram
Anlage, Protokoll Geräuschmessung
Enclosure, protocol noise test
Beschreibungsbogen
Information Document

5. Schlussbescheinigung / *Summary*

Der angegebene Beschreibungsbogen und der darin beschriebene Typ entsprechen der genannten Prüfgrundlage. Der ungünstigste Fall wurde entsprechend Prozessbeschreibung„Erstellung von Gutachten“ bestimmt.
Der Prüfbericht darf nur vom Auftraggeber und nur in vollem Wortlaut vervielfältigt und weitergegeben werden. Eine auszugsweise Vervielfältigung und Veröffentlichung des Prüfberichtes ist nur nach schriftlicher Genehmigung des Prüflaboratoriums zulässig
The information folder and the type described therein are in compliance with the test specification mentioned above. The worst-case was selected in accordance with document “Preparation of Test Reports”.
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München, 29.10.2020

Technischer Dienst Technical Service TÜV SÜD Auto Service GmbH 049

Dipl.-Ing. (FH) Max Höhler
Prüfingenieur / *The Expert*

T:\KRAD KOMPONENTEN\Auspuffanlage\Akrapovic\Catalytic\P-KAT-082\P-KAT-082_SLO_295_EC.docx

REPUBLIKA SLOVENIJA

TÜV SÜD Auto Service GmbH
Westendstraße 199
D-80686 München

Auto Service

A N L A G E 1
***E N C L O S U R E* 1**

zum Prüfbericht Nr. / *to test report no.* **20-00050-CM-GBM-00**
Typ /*Type:* **P-KAT-082**
Hersteller / *Manufacturer:* **Akrapovic d.d.,**
1295 Ivancna Gorica, Slovenia

Teile der Nicht-Originalauspuffanlage + Originalteile/
Composition of the original exhaust system + original parts

Lfd. Nr. / *No.*	Einzelteile, Abmessungen in mm / *Components parts, dimensions in mm*	Abmessungen des Teiles in mm bzw. Originalteil / Ersatzteil / *Dimensions of the part in mm or original part / replacement part*	Teilenummer bzw. Genehmigungsnummer / *Part no. or homologation no.*
1)	Krümmerrohr / *header pipe*	Originalteile / *original parts*	-
2a)	Verbindungsrohr / *link pipe*	-	L-KTM6S01/1 (KTM)
2b)	Verbindungsrohr / *link pipe*	-	L-HU7S03/1 (Husqvarna)
3)	Katalysator / *catalytic converter*	∅ 82 x 110	P-KAT-082 e26*01100*F
4)	Schalldämpfer / *silencer* (Austrittsrohr / *outlet pipe* 2 x ∅ 20)	hexagonal / *hexagonal* 116,9 x 141,4 Länge ohne Endkappen / *length without end caps* 400	M-HHM001 e26*08158*G E26 92R 02 8158

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Auto Service

A N L A G E 2
E N C L O S U R E 2

zum Prüfbericht Nr. / *to test report no.* **20-00050-CM-GBM-00**
Typ /*Type:* **P-KAT-082**
Hersteller / *Manufacturer:* **Akrapovic d.d.,**
1295 Ivancna Gorica, Slovenia

Verwendungsbereich (Fahrzeugdaten) / *Field of application*

Die Fahrzeuge erfüllen - bezugnehmend auf ihre Fahrzeugtyp Genehmigung - die Umweltanforderungsstufen: Euro (4/5)
The vehicles fulfil - regarding their Whole Vehicle Type Approval (WVTA) - the environmental steps: Euro (4/5)

Lfd. Nr.	Hersteller	Fabrik-marke	Handelsbe-zeichnung	Fahrzeugtyp Genehmigung Nr.	Var. Vers.	Motortyp 4 Takt	Hubrau m in cm³	Nenn-leistung kW/min⁻¹	Sonstige bestimmende Merkmale	Anordnung entspr. Anl. 1 lfd. Nr.
No. of ve-hicle	*Manufacturer*	*Trade mark*	*Commercial description*	*Vehicle type no. of homologation*	*Var. Vers.*	*Engine type 4 Stroke*	*Engine capacity in cm³*	*max.engine power kW/min⁻¹*	*Additional remarks *)*	*Composition reg. enclosure no. 1*
1)	KTM AG	KTM	690 Enduro R	KTM 690 LC4 e1*168/2013*00147*	alle *all*	768	693	55/8000	mit Kat. / *with cat.*	1)2a)3)4)
2)			690 SMC R					55/8000		
3)			690 Enduro R	KTM 690 LC4 e1*168/2013*00146*		768	693	32/5500		
4)								31/7000		
5)			690 SMC R					32/5500		
6)								31/7000		
7)		Husqvarna	Husqvarna 701 Supermoto	Husqvarna 701 e1*168/2013*00032*		766	693	55/8000		1)2b)3)4)
8)						768	693	55/8000		
9)			Husqvarna 701 Enduro			766	693	55/8000		
10)						768	693	55/8000		
11)			Husqvarna 701 Enduro LR			768	693	55/8000		
12)			Husqvarna 701 Enduro	Husqvarna 701 e1*168/2013*00034*		766	693	31/5500		
13)						768	693	31/7000		
14)			Husqvarna 701 Supermoto			766	693	31/5500		
15)						768	693	31/7000		
16)			Husqvarna 701 Enduro LR			768	693	31/7000		

*) Der serienmäßige Katalysator wird durch einen Austauschkatalysator ersetzt.
The original catalytic converter is replaced by an aftermarket-catalyst.

TÜV SÜD Auto Service GmbH
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A N L A G E 3
***E N C L O S U R E* 3**

zum Prüfbericht Nr. / *to test report no.* **20-00050-CM-GBM-00**
Typ /*Type:* **P-KAT-082**
Hersteller / *Manufacturer:* **Akrapovic d.d.,**
1295 Ivancna Gorica, Slovenia

Ergebnis der Prüfungen / *Test results*

Lfd.Nr. Fahrzeug /	Leistung Serie kW/min^{-1}	Leistung Austausch kW/min^{-1}	Vmax Serie km/h	Vmax Austausch km/h	Fahrgeräusche in dB(A) / *Sound levels driving vehicle in dB(A)*					Standgeräusche in dB(A) / *Sound levels stationary vehicle in dB(A)*			
					gemessen in Gang	Grenzwert **)	Serie gemessen	Austausch gemessen	bei km/h	lt. Fzg. BE	Serie gemessen /	Austausch gemessen	bei min^{-1}
No. of vehicle	*Engine power original kW/min^{-1}*	*Engine power non original kW/min^{-1}*	*Vmax original km/h*	*Vmax non original km /h*	*measured in gear ratio*	*Limit Value **) SL_{EU4}*	*Original measured L_{urban}*	*Non original measured L_{urban}*	*at km/h*	*Vehicle type hom.*	*Original measured*	*Non original measured*	*at min^{-1}*
1) A*	55/8000	55/8000	-	-	3	77	78	78	50	90	91	91	4000
8) B*	55/8000	55/8000	-	-	3	77	77	76	50	90	91	91	4000

*) Versuchsreihe / *test series*

**) Grenzwert der Richtlinienfassung, die bei Erteilung der Fahrzeuggenehmigung Gültigkeit hatte /
Limit value of directive which was valid by vehicle type homologation

REPUBLIKA SLOVENIJA Ljubljana

TÜV SÜD Auto Service GmbH
Westendstraße 199
D-80686 München

A N L A G E 4 **zum Prüfbericht Nr. /** ***to test report no.*** **20-00050-CM-GBM-00**
E N C L O S U R E* 4** **Typ /*Type: **P-KAT-082**
Hersteller / ***Manufacturer:*** **Akrapovic d.d.,**
1295 Ivancna Gorica, Slovenia

Ergebnis der Prüfungen hinsichtlich Abgasverhalten /
Test results according pollution

Versuchsreihe / *Series* A: (Fahrzeug lfd. Nr. / *Vehicle no.* 1)

Messung gemäß / *Tests regarding*:	134/2014 Anh. / *Annex* II; III; VI
entsprechend Typ / *according to Type*	I; II; V
Vorkonditionierung Katalysator / preconditioning Catalytic	entfällt - Begründung siehe Punkt 3.8. / *not applicable – reason see item 3.8.*

Typ / *Type* I

Äquivalente Schwungmasse / *Equivalent flywheel mass*	230 kg

WMTC Phase 3 / ***WMTC Stage 3***	Kategorie 3-2 / *Class 3-2*	THC [mg/km]	NMHC [mg/km]	CO [mg/km]	NO_X [mg/km]
Test 1	R_1	53	41	641	41
Test 2	R_2	44	34	608	41
Test 3	R_3	45	34	641	39
Mittelwert / *Average*		**47**	**36**	**630**	**40**
Grenzwerte / *Limits* 168/2013 Annex VI (A2) Euro 5 (Prüfzyklus Teil / *test cycle part* 1 – 3)		100	68	1000	60

Typ / *Type* II

Betriebsbedingung / *Running condition*	CO [Vol %]	Motordrehzahl / *Engine rpm* [min –1]	Motoröltemperatur / *Engine oil temperature* [°C]
Normale Leerlaufdrehzahl / *Nominal idle speed*	0,00	1600	88° C
Hohe Leerlaufdrehzahl / *Exceeded idle speed*	0,00	2500	89° C

Typ / *Type* V
Mathematisches Dauerhaltbarkeitsverfahren / *Mathematical durability procedure*

Verschlechterungsfaktor / *Deterioration Factor* (DF)		1,3	1,3	1,3	1,3
Test 1	R_1 x DF	69	54	833	53
Test 2	R_2 x DF	57	44	790	53
Test 3	R_3 x DF	59	45	833	51
Mittelwert / *Average*		**62**	**48**	**819**	**52**
Grenzwerte / *Limits* 168/2013 Annex VI (A2) Euro 5 (Prüfzyklus Teil / *test cycle part* 1 – 3)		100	68	1000	60

Information Document P-KAT-082

relating to EU type-approval of a pollution-control device as a STU and

TÜV SÜD Auto Service Technical Report: 20-00050-CM-GBM-00

Item No.	(Sub) categories	Detailed information	
B.		**General information concerning systems, components or separate technical units**	
0.7.	L1e — L7e	**Make(s) (trade name(s) of manufacturer)**:	AKRAPOVIC Exhaust System Technology
0.8.	L1e — L7e	**Type**:	**P-KAT-082**
0.8.1.	L1e — L7e	Commercial name(s) (if available):	n.a.
0.8.2.	L1e — L7e	Type-approval number(s) (if available):	e26*134/2014*2018/295F*01100*00
0.8.3.	L1e — L7e	Type-approval(s) issued on (date, if available):	n.a.
0.9.	L1e — L7e	**Company name and address of manufacturer**:	Akrapovic d.d. Malo Hudo 8a 1295 Ivancna Gorica Slovenia
0.9.1.	L1e — L7e	Name(s) and address(es) of assembly plants:	n.a.
0.9.2.	L1e — L7e	Name and address of manufacturer's authorised representative, if any:	n.a.
0.10.		**Vehicle(s) for which the system/separate technical unit is intended for:**	
0.10.1.	L1e — L7e	Type:	see Technical Report
0.10.2.	L1e — L7e	Variant:	see Technical Report
0.10.3.	L1e — L7e	Version:	see Technical Report
0.10.4.	L1e — L7e	Commercial name(s) (if available):	see Technical Report
0.10.5.	L1e — L7e	Category, subcategory and sub-subcategory of vehicle :	see Technical Report
C.		**General information concerning vehicle, systems, components or separate technical units**	
0.12.		**Conformity of production**	
0.12.1.	L1e — L7e	Controlled by ISO 9001:2008 Quality Management System certified by TÜV SÜD Management Service GmbH Registration no.:	12 100 31148 TMS
1.		**GENERAL CONSTRUCTION CHARACTERISTICS**	
1.8.		**Propulsion unit performance**	
1.8.1.	L3e, L4e, L5e, L7e-A, L7e-B2	Declared maximum vehicle speed: km/h	see Technical Report
1.8.2.	L1e, L2e, L6e, L7e-B1, L7e-C	Maximum design vehicle speed : ..... and gear in which it is reached:	n.a.
1.8.3.	L1e — L7e	Maximum net power combustion engine: . kW at . min $^{-1}$ at A/F ratio:	see Technical Report
1.8.4.	L1e — L7e	Maximum net torque combustion engine: . Nm at . min $^{-1}$ at A/F ratio:	see Technical Report
1.8.5.	L1e — L7e	Maximum continuous-rated power electric motor (15/30 minutes power):	n.a.
1.8.6.	L1e — L7e	Maximum continuous-rated torque electric motor: ..... Nm at …. min $^{-1}$	n.a.
1.8.7.	L1e — L7e	Maximum continuous total power for propulsion(s): .... kW. at … min $^{-1}$ at A/F ratio:	n.a.
1.8.8.	L1e — L7e	Maximum continuous total torque for propulsion(s): .... Nm at .... min $^{-1}$ at A/F ratio:	n.a.
1.8.9.	L1e — L7e	Maximum peak power for propulsion(s): ..... kW at ..... min $^{-1}$at A/F ratio:	n.a.
4.		**GENERAL INFORMATION ON ENVIRONMENTAL AND PROPULSION UNIT PERFORMANCE**	
4.0		**General information on environmental and propulsion performance**	
4.0.1.	L1e — L7e	Environmental step : Euro	(4/5)
4.0.2.	L1e — L7e	Fuel consumption:	see WVTA
4.0.3.	L1e — L7e	CO_2 emissions:	see WVTA
4.0.4.	L1e — L7e	Energy consumption:	n.a.
4.0.5.	L1e — L7e	Electric range:	n.a.
4.1.		***Tailpipe emission-control system***	
4.1.1.	L1e — L7e	Brief description and schematic drawing of the tailpipe emission-control system and its control:	see assembly drawing, attached
4.1.2.		***Catalytic converter***	
4.1.2.1.	L1e — L7e	Configuration, number of catalytic converters and elements (information to be provided foreach separate unit):	see technical drawing, attached
4.1.2.2.	L1e — L7e	Drawing with dimensions, shape and volume of the catalytic converter(s):	attached
4.1.2.3.	L1e — L7e	Catalytic reaction:	three way catalytic converter

4.1.2.4.	L1e — L7e	Total charge of precious metals:	see technical drawing, attached
4.1.2.5.	L1e — L7e	Relative concentration:	see technical drawing, attached
4.1.2.6.	L1e — L7e	Substrate (structure and material):	see technical drawing, attached
4.1.2.7.	L1e — L7e	Cell density:	see technical drawing, attached
4.1.2.8.	L1e — L7e	Casing for the catalytic converter(s):	see technical drawing, attached
4.1.2.9.	L1e — L7e	Location of the catalytic converter(s) (place and reference distance in the exhaust line):	see assembly drawing, attached
4.1.2.10.	L1e — L7e	Catalyst heat-shield:	no
4.1.2.11.	L1e — L7e	Brief description and schematic drawing of the regeneration system/method of exhaust after-treatment systems and its control system:	n.a.
4.1.2.11.1.	L1e — L7e	Normal operating temperature range:	673-1073K
4.1.2.11.2.	L1e — L7e	Consumable reagents:	no
4.1.2.11.3.	L1e — L7e	Brief description and schematic drawing of the reagent flow (wet) system and its control system:	n.a.
4.1.2.11.4.	L1e — L7e	Type and concentration of reagent needed for catalytic action:	n.a.
4.1.2.11.5.	L1e — L7e	Normal operational temperature range of reagent:..... K	n.a.
4.1.2.11.6.	L1e — L7e	Frequency of reagent refill: continuous/maintenance:	n.a.
4.1.2.12.	L1e — L7e	Identifying part number:	see item 0.8. Type
4.1.3.	L1e — L7e	***Oxygen sensor(s)***	
4.1.3.1.	L1e — L7e	Oxygen sensor component(s) drawing(s):	n.a. OE part
4.1.3.2.	L1e — L7e	Drawing of exhaust device with oxygen sensor location(s):	see assembly drawing, attached
4.1.3.3.	L1e — L7e	Control range(s):	n.a. OE part
4.1.3.4.	L1e — L7e	Identifying part number(s):	n.a. OE part
4.1.3.5.	L1e — L7e	Description of oxygen sensor heating system and heating strategy:	n.a. OE part
4.1.3.6.	L1e — L7e	Oxygen sensor heat shield(s):	n.a. OE part
4.1.4.	L1e — L7e	***Secondary air-injection (air-inject in exhaust)***	
4.1.4.1.	L1e — L7e	Brief description and schematic drawing of the secondary air-injection system and its control system:	n.a.
4.1.4.2.	L1e — L7e	Configuration (mechanical, pulse air, air pump etc.) :	n.a.
4.1.4.3.	L1e — L7e	Working principle:	n.a.
4.1.5.		***External exhaust gas recirculation (EGR)***	
4.1.5.1.	L1e — L7e	Brief description and schematic drawing of the EGR system (exhaust flow) and its control system:	n.a.
4.1.5.2.	L1e — L7e	Characteristics:	n.a.
4.1.6.		***Particulate filter***	
4.1.6.1.	L1e — L7e	PT component drawing with dimensions, shape and capacity of the particulate filter:	n.a.
4.1.6.2.	L1e — L7e	Design of the particulate filter:	n.a.
4.1.6.3.	L1e — L7e	Brief description and schematic drawing of the particulate filter and its control system:	n.a.
4.1.6.4.	L1e — L7e	Location (reference distance in the exhaust line):	n.a.
4.1.6.5.	L1e — L7e	Method or system of regeneration, description and drawing:	n.a.
4.1.7.		***Lean NOx trap***	
4.1.7.1.	L1e — L7e	Operation principle of lean NOx trap:	n.a.
4.1.8.		***Additional tailpipe emission-control devices***	
4.1.8.1.	L1e — L7e	Working principle:	n.a.

Attachment	Drawing no.	Date	Pages
Drawing catalytic converter	P-KAT-082	27.10.2020	1
Assembly drawing	KTM 690 SMC R KTM 690 ENDURO R HUSQVARNA 701 Supermoto HUSQVARNA 701 ENDURO	-	1
Installation instructions	KTM 690 SMC R KTM 690 ENDURO R HUSQVARNA 701 Supermoto HUSQVARNA 701 ENDURO	09/2020	14

AKRAPOVIČ d.d.
Malo Hudo 8a, 1295 Ivančna Gorica,
Slovenija

Rosa Uroš, Managing Director

29.10.2020

1. Vehicle

1.1	Manufacturer:	KTM AG
1.2	Vehicle Ident. Number:	VBKLETP30MM777579
1.3	Commercial name / Type:	KTM 690 Enduro R
1.4	Type:	KTM 690 LC4
1.5	Variant:	A
1.6	Version:	---
1.7	Class:	L3e-A3
1.8	Type approval number:	without (Prototype)
1.9	Vehicle kerb weight (m_{kerb}) [kg]:	160,0
1.10	Mass of the vehicle in running order (m_{ro}) [kg]:	235,0
1.11	Vehicle test mass (m_{tj} [kg]:	235,0
1.12	Technically permissible max. laden mass (M) [kg]:	350,0
1.13	Power to mass ratio index (PMR):	234,0
1.14	Vehicle length [m]:	2,1
1.15	Milage [km]:	724

2. Engine

2.1	Manufacturer / engine code:	KTM AG					
2.2	Model:	M-757*12920*					
2.3	Cycles:	[X] four stroke	[ ] two stroke	[ ] n.a.			
2.4	Number and arrangement of cylinders:	1 / Single					
2.5	Working principle:	[X] positive ignition	[ ] compression ignition	[ ] electrical	[ ] hybrid		
2.6	Rated power [kW / min^{-1}]:	55 / 8000					
2.7	Idle engine speed [min^{-1}]:	1600					
2.8	Cylinder capacity [cm^3]:	693					

3. Transmisson

3.1	Type:	[X] manual gearbox	[ ] automatic gearbox	Type: without
3.2	No. of gears:	6		
3.3	Ratio (Prime : Secondary)	15 : 46		
3.4	Driving mode(s):	without		

4. Equipment

4.1	Pre Catalyst(s) Make / type (left/right):	---	/	---	/	---
4.2	Catalyst(s) Make / type (left/right):	Akrapovic	/	---	/	---
4.5	Front exhaust silencer(s) Make / type (left/right):	---	/	---	/	---
4.6	Middle exhaust silencer(s) Make / type (left/right):	---	/	---	/	---
4.7	Rear exhaust silencer(s) Make / type (left/right):	Akrapovic	/	---	/	M-HHM001
4.8	Tail pipe(s) Make / type (left/right):	Akrapovic	/	---	/	2x D=20/D=25mm
4.9	Exhaust Flap(s) Make / type (left/right):	---	/	---	/	---

4.13 Tyres

Manufacturer:	Mitas	Mitas
Type:	E-07	E-07
Size:	90/90 -21 54T	140/80 -18 70T
Tyre pressure [bar]:	---	---
Tyre tread depth [mm]:	> 4	> 4

5. Measurements

5.1 Conditions

Passby Parameter	
Reference acceleration $a_{wot\ ref}$ [m/s²]:	3,73
-10% Reference acc. $a_{wot\ ref\ min}$ [m/s²]:	3,36
+10%Reference acc. $a_{wot\ ref\ max}$ [m/s²]:	4,10
Target acceleration a_{urban} [m/s²]:	1,84
Gear weighting factor k:	n.a.
Partial power factor k_p:	0,49
Test speed v_{test} at PP' (±1) [km/h]:	50,0

Driving conditions	i	i+1
Gear:	3	---
test acceleration awot test [m/s²]:	3,62	---
aver. vehicle velocity when ref. point at AA'	39,1	---
aver. vehicle velocity when ref. point at PP'	50,4	---
aver. vehicle velocity when ref. point at BB'	60,0	---
Operating mode:	without	
Gearbox:	Locked	

Calculation of the acceleration/factors
$a_{wot\ ref}$ = 3.33 * log(PMR) - 4.16
k = n.a.
$k_P = (1-(a_{urban}/a_{wot\ test}))$
$a_{wot\ i} = ((v_{BB}/3.6)^2-(v_{AA}/3.6)^2)/(2*(20+l))$
$a_{wot\ i+1}$ = n.a.
a_{urban} = 1.28 * log(PMR) - 1.19
Evaluation $a_{wot\ test}$: AA'-BB'

5.2 Measurement results pass by noise

Gear used	Run	Mode	acc. point(1) [m]	A-A' v [km/h]	A-A' n [rpm]	P-P' v [km/h]	P-P' n [rpm]	B-B' v [km/h]	B-B' n [rpm]	$a_{wot\ test}$ [m/s²]	Sound level L(2) left [dB(A)]	Sound level L(2) right [dB(A)]	L_{aver}(3) li [dB(A)]	L_{aver}(3) re [dB(A)]
3	1	wot(3)	0,0	38,1	2884	49,5	3683	59,0	4420	3,54	81,5	80,7	81,8	80,9
	2			39,8	3113	51,0	3827	60,6	4530	3,65	81,8	80,8		
	4			39,4	3090	50,7	3782	60,4	4519	3,66	82,0	81,1		
	9	crs(3)		50,3	3670	50,5	3664	50,6	3675		73,9	73,2	73,8	73,0
	11			49,9	3650	50,1	3669	49,8	3602		73,6	72,8		
	13			49,9	3594	49,1	3593	49,7	3603		73,9	73,0		
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1) Accelertion point according Line A-A'; 2) values reduced by 1 dB(A); Numbers written in italics a corrected acc. to Annex3, Pt. 2.1; 3) Intermediate Results of each side of the vehicle

$[L_{wot\ rep} = L_{wot\ (i+1)} + k * (L_{wot\ (i)} - L_{wot\ (i+1)})]$; [In the case of a single gear ratio test the values are the test result of each test; PMR > 25]
$[L_{crs\ rep} = L_{crs\ (i+1)} + k * (L_{crs\ (i)} - L_{crs\ (i+1)})]$; [In the case of a single gear ratio test the values are the test result of each test; PMR > 25]

5.3 Results

	Gear i [dB(A)]	Gear i+1 [dB(A)]	L_{rep} wot [dB(A)]	L_{rep} crs [dB(A)]	$L_{wot\ max}$ limit [dB(A)]	Test result L_{urban} [dB(A)]
L_{wot}	81,8	---	81,8	73,8	82,0	**77,9**
L_{crs}	73,8	---				

Calcultatoion L_{urban} (PMR > 25)
$[L_{urban} = L_{wot\ rep} - k_P * (L_{wot\ rep} - L_{crs\ rep})]$
$[L_{urban} = 81,8 - 0,49 * (81,8 - 73,8)]$

5.4 Limits

Category	Power-to-mass ratio index (PMR)	Limit value for L_{urban} [dB(A)]	applicable Limit value
First category	PMR ≤ 25	73	
Second category	25 < PMR ≤ 50	74	
Third category	PMR > 50	77(a)	X

(a) For motorcycles tested in second gear only in Annex 3, the limit value is increased by 1dB(A) until the date in Paragraph 12.7. Data for affected vehicles shall be studied, and discussions shall be made in case of further extension.

5.5 Sound level of stationary vehicle

Operation mode: without

Measuring results	left [dB(A)]	right [dB(A)]
1st Run	---	91,0
2nd Run	---	90,9
3rd Run	---	90,9
4th Run	---	---
average Value	---	90,9

Engine speed [rpm]		Target engine speed
4000	---	n = 75% S (S ≤ 5000 min-1)
	X	n = 50% S (S > 5000 min-1)

Result [dB(A)]	**91**

5.5.1 Sound level of stationary vehicle in different operation modes

Operation mode	**Result [dB(A)]**
---	---
---	---
---	---
---	---
---	---

Engine speed [rpm]		Target engine speed
---	---	n = 75% S (S ≤ 5000 min-1)
	---	n = 50% S (S > 5000 min-1)

6. Weather conditions

Air temperature [°C]:	23,6
Surface temperature [°C]:	48,2
Air pressure [mbar]:	998

Air humidity [%]	46,5
Wind speed [m/s]:	2,4
Wind direction [°]:	112,2

7. General Requirements

Ambient noise level	
before Measurement [dB(A)]:	46,1
after Measurement [dB(A)]:	46,1

Calibration level (Target) [dB(A)]:	94,0
Calibration level Micro 1 [dB(A)]:	94,0
Calibration level Micro 2 [dB(A)]:	94,0

8. Test Standard: UN ECE-R 41.04, Supp. 7

9. Expert: Wibmer Chr.

10. Date / place of test: 07.07.2020 / Akrapovic d.d., Precna (SI)

10. Date of issue: 14.07.2020

11. Remarks: Slip on system with catalytic converter
2x Insert tube in the tube D=20mm/D=25mm

1. Vehicle

1.1	Manufacturer:	Husqvarna
1.2	Vehicle Ident. Number:	VBKUSVP35MM781894
1.3	Commercial name / Type:	701 SMC
1.4	Type:	---
1.5	Variant:	---
1.6	Version:	---
1.7	Class:	L3e-A3
1.8	Type approval number:	without (Prototype)
1.9	Vehicle kerb weight (m_{kerb}) [kg]:	159,0
1.10	Mass of the vehicle in running order (m_{ro}) [kg]:	234,0
1.11	Vehicle test mass (m_{tj} [kg]:	235,0
1.12	Technically permissible max. laden mass (M) [kg]:	350,0
1.13	Power to mass ratio index (PMR):	235,0
1.14	Vehicle length [m]:	2,1
1.15	Milage [km]:	43

2. Engine

2.1	Manufacturer / engine code:	Husqvarna
2.2	Model:	M-757*03913*
2.3	Cycles:	[X] four stroke [ ] two stroke [ ] n.a.
2.4	Number and arrangement of cylinders:	1 / Single
2.5	Working principle:	[X] positive ignition [ ] compression ignition [ ] electrical [ ] hybrid
2.6	Rated power [kW / min^{-1}]:	55 / 8000
2.7	Idle engine speed [min^{-1}]:	1600
2.8	Cylinder capacity [cm^3]:	693

3. Transmisson

3.1	Type:	[X] manual gearbox [ ] automatic gearbox Type: without
3.2	No. of gears:	6
3.3	Ratio (Prime : Secondary)	16 : 42
3.4	Driving mode(s):	without / --- / --- / --- / --- / --- / ---

4. Equipment

4.1	Pre Catalyst(s) Make / type (left/right):	---	/	---	/	---
4.2	Catalyst(s) Make / type (left/right):	Akrapovic	/	---	/	---
4.5	Front exhaust silencer(s) Make / type (left/right):	---	/	---	/	---
4.6	Middle exhaust silencer(s) Make / type (left/right):	---	/	---	/	---
4.7	Rear exhaust silencer(s) Make / type (left/right):	Akrapovic	/	---	/	M-HHM001
4.8	Tail pipe(s) Make / type (left/right):	Akrapovic	/	---	/	2x D=20/D=25mm
4.9	Exhaust Flap(s) Make / type (left/right):	---	/	---	/	---

4.13 Tyres

Manufacturer:	Continental	Continental
Type:	ContiAttack SM EVO	ContiAttack SM EVO
Size:	120/70 R17 58H	160/60 R17 69H
Tyre pressure [bar]:	---	---
Tyre tread depth [mm]:	> 4	> 4

5. Measurements

5.1 Conditions

Passby Parameter	
Reference acceleration $a_{wot\ ref}$ [m/s²]:	3,74
-10% Reference acc. $a_{wot\ ref\ min}$ [m/s²]:	3,37
+10%Reference acc. $a_{wot\ ref\ max}$ [m/s²]:	4,11
Target acceleration a_{urban} [m/s²]:	1,84
Gear weighting factor k:	n.a.
Partial power factor k_p:	0,51
Test speed v_{test} at PP' (±1) [km/h]:	50,0

Driving conditions	i	i+1
Gear:	3	---
test acceleration awot test [m/s²]:	3,79	---
aver. vehicle velocity when ref. point at AA'	38,2	---
aver. vehicle velocity when ref. point at PP'	49,9	---
aver. vehicle velocity when ref. point at BB'	60,2	---
Operating mode:	without	
Gearbox:	Locked	

Calculation of the acceleration/factors
$a_{wot\ ref}$ = 3.33 * log(PMR) - 4.16
k = n.a.
$k_P = (1-(a_{urban}/a_{wot\ test}))$
$a_{wot\ i} = ((v_{BB}/3.6)^2-(v_{AA}/3.6)^2)/(2*(20+l))$
$a_{wot\ i+1}$ = n.a.
a_{urban} = 1.28 * log(PMR) - 1.19
Evaluation $a_{wot\ test}$: AA'-BB'

5.2 Measurement results pass by noise

Gear used	Run	Mode	acc. point(1) [m]	A-A' v [km/h]	A-A' n [rpm]	P-P' v [km/h]	P-P' n [rpm]	B-B' v [km/h]	B-B' n [rpm]	$a_{wot\ test}$ [m/s²]	Sound level L(2) left [dB(A)]	Sound level L(2) right [dB(A)]	L_{aver}(3) li [dB(A)]	L_{aver}(3) re [dB(A)]
3	3	$wot_{(3)}$	0,0	38,7	2686	50,1	3367	60,1	4050	3,69	80,8	80,4	80,8	80,6
	4			37,8	2622	49,7	3349	60,3	4062	3,85	80,8	80,8		
	6			38,0	2628	50,0	3353	60,3	3896	3,83	80,7	80,7		
	5	$crs_{(3)}$		50,5	3350	50,4	3359	50,5	3335		72,4	71,0	72,2	71,4
	7			49,5	3281	49,5	3301	49,4	3285		72,1	71,8		
	8			49,5	3288	49,6	3305	49,3	3282		72,2	71,5		
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1) Accelertion point according Line A-A'; 2) values reduced by 1 dB(A); Numbers written in italics a corrected acc. to Annex3, Pt. 2.1; 3) Intermediate Results of each side of the vehicle

$[L_{wot\ rep} = L_{wot\ (i+1)} + k * (L_{wot\ (i)} - L_{wot\ (i+1)})]$; [In the case of a single gear ratio test the values are the test result of each test; PMR > 25]
$[L_{crs\ rep} = L_{crs\ (i+1)} + k * (L_{crs\ (i)} - L_{crs\ (i+1)})]$; [In the case of a single gear ratio test the values are the test result of each test; PMR > 25]

5.3 Results

	Gear i [dB(A)]	Gear i+1 [dB(A)]	L_{rep} wot [dB(A)]	L_{rep} crs [dB(A)]	$L_{wot\ max}$ limit [dB(A)]	Test result L_{urban} [dB(A)]
L_{wot}	80,8	---	80,8	72,2	82,0	**76,4**
L_{crs}	72,2	---				

Calcultatoion L_{urban} (PMR > 25)
$[L_{urban} = L_{wot\ rep} - k_P * (L_{wot\ rep} - L_{crs\ rep})]$
$[L_{urban} = 80,8 - 0,51 * (80,8 - 72,2)]$

5.4 Limits

Category	Power-to-mass ratio index (PMR)	Limit value for L_{urban} [dB(A)]	applicable Limit value
First category	PMR ≤ 25	73	
Second category	25 < PMR ≤ 50	74	
Third category	PMR > 50	77(a)	X

(a) For motorcycles tested in second gear only in Annex 3, the limit value is increased by 1dB(A) until the date in Paragraph 12.7. Data for affected vehicles shall be studied, and discussions shall be made in case of further extension.

5.5 Sound level of stationary vehicle

Operation mode: without

Measuring results	left [dB(A)]	right [dB(A)]
1st Run	---	90,7
2nd Run	---	90,8
3rd Run	---	90,8
4th Run	---	---
average Value	---	90,8

Result [dB(A)]	91

Engine speed [rpm]		Target engine speed
4000	---	n = 75% S (S ≤ 5000 min-1)
	X	n = 50% S (S > 5000 min-1)

5.5.1 Sound level of stationary vehicle in different operation modes

Operation mode	Result [dB(A)]
---	---
---	---
---	---
---	---
---	---

Engine speed [rpm]		Target engine speed
---	---	n = 75% S (S ≤ 5000 min-1)
	---	n = 50% S (S > 5000 min-1)

6. Weather conditions

Air temperature [°C]:	23,9	Air humidity [%]	38,1
Surface temperature [°C]:	49,9	Wind speed [m/s]:	2,9
Air pressure [mbar]:	997,7	Wind direction [°]:	78,5

7. General Requirements

Ambient noise level		Calibration level (Target) [dB(A)]:	94,0
before Measurement [dB(A)]:	45,7	Calibration level Micro 1 [dB(A)]:	94,0
after Measurement [dB(A)]:	45,7	Calibration level Micro 2 [dB(A)]:	94,0

8. Test Standard: UN ECE-R 41.04, Supp. 7, Annex 3

9. Expert: Wibmer Chr.

10. Date / place of test: 07.07.2020 / Akrapovic d.d., Precna (SI)

10. Date of issue: 14.07.2020

11. Remarks: Slip on system with catalytic converter
2x Insert tube in the tube D=20mm/D=25mm

Information Document P-KAT-082

relating to EU type-approval of a pollution-control device as a STU and

TÜV SÜD Auto Service Technical Report: 20-00050-CM-GBM-00

Item No.	(Sub) categories	Detailed information	
B.		**General information concerning systems, components or separate technical units**	
0.7.	L1e — L7e	**Make(s) (trade name(s) of manufacturer)**:	AKRAPOVIC Exhaust System Technology
0.8.	L1e — L7e	**Type**:	**P-KAT-082**
0.8.1.	L1e — L7e	Commercial name(s) (if available):	n.a.
0.8.2.	L1e — L7e	Type-approval number(s) (if available):	e26*134/2014*2018/295F*01100*00
0.8.3.	L1e — L7e	Type-approval(s) issued on (date, if available):	n.a.
0.9.	L1e — L7e	**Company name and address of manufacturer**:	Akrapovic d.d. Malo Hudo 8a 1295 Ivancna Gorica Slovenia
0.9.1.	L1e — L7e	Name(s) and address(es) of assembly plants:	n.a.
0.9.2.	L1e — L7e	Name and address of manufacturer's authorised representative, if any:	n.a.
0.10.		**Vehicle(s) for which the system/separate technical unit is intended for:**	
0.10.1.	L1e — L7e	Type:	see Technical Report
0.10.2.	L1e — L7e	Variant:	see Technical Report
0.10.3.	L1e — L7e	Version:	see Technical Report
0.10.4.	L1e — L7e	Commercial name(s) (if available):	see Technical Report
0.10.5.	L1e — L7e	Category, subcategory and sub-subcategory of vehicle :	see Technical Report
C.		**General information concerning vehicle, systems, components or separate technical units**	
0.12.		**Conformity of production**	
0.12.1.	L1e — L7e	Controlled by ISO 9001:2008 Quality Management System certified by TÜV SÜD Management Service GmbH Registration no.:	12 100 31148 TMS
1.		**GENERAL CONSTRUCTION CHARACTERISTICS**	
1.8.		**Propulsion unit performance**	
1.8.1.	L3e, L4e, L5e, L7e-A, L7e-B2	Declared maximum vehicle speed: km/h	see Technical Report
1.8.2.	L1e, L2e, L6e, L7e-B1, L7e-C	Maximum design vehicle speed : ..... and gear in which it is reached:	n.a.
1.8.3.	L1e — L7e	Maximum net power combustion engine: . kW at . min $^{-1}$ at A/F ratio:	see Technical Report
1.8.4.	L1e — L7e	Maximum net torque combustion engine: . Nm at . min $^{-1}$ at A/F ratio:	see Technical Report
1.8.5.	L1e — L7e	Maximum continuous-rated power electric motor (15/30 minutes power):	n.a.
1.8.6.	L1e — L7e	Maximum continuous-rated torque electric motor: ..... Nm at …. min $^{-1}$	n.a.
1.8.7.	L1e — L7e	Maximum continuous total power for propulsion(s): .... kW. at … min $^{-1}$ at A/F ratio:	n.a.
1.8.8.	L1e — L7e	Maximum continuous total torque for propulsion(s): .... Nm at .... min $^{-1}$ at A/F ratio:	n.a.
1.8.9.	L1e — L7e	Maximum peak power for propulsion(s): ..... kW at ..... min $^{-1}$at A/F ratio:	n.a.
4.		**GENERAL INFORMATION ON ENVIRONMENTAL AND PROPULSION UNIT PERFORMANCE**	
4.0		**General information on environmental and propulsion performance**	
4.0.1.	L1e — L7e	Environmental step : Euro	(4/5)
4.0.2.	L1e — L7e	Fuel consumption:	see WVTA
4.0.3.	L1e — L7e	CO_2 emissions:	see WVTA
4.0.4.	L1e — L7e	Energy consumption:	n.a.
4.0.5.	L1e — L7e	Electric range:	n.a.
4.1.		***Tailpipe emission-control system***	
4.1.1.	L1e — L7e	Brief description and schematic drawing of the tailpipe emission-control system and its control:	see assembly drawing, attached
4.1.2.		***Catalytic converter***	
4.1.2.1.	L1e — L7e	Configuration, number of catalytic converters and elements (information to be provided foreach separate unit):	see technical drawing, attached
4.1.2.2.	L1e — L7e	Drawing with dimensions, shape and volume of the catalytic converter(s):	attached
4.1.2.3.	L1e — L7e	Catalytic reaction:	three way catalytic converter

4.1.2.4.	L1e — L7e	Total charge of precious metals:	see technical drawing, attached
4.1.2.5.	L1e — L7e	Relative concentration:	see technical drawing, attached
4.1.2.6.	L1e — L7e	Substrate (structure and material):	see technical drawing, attached
4.1.2.7.	L1e — L7e	Cell density:	see technical drawing, attached
4.1.2.8.	L1e — L7e	Casing for the catalytic converter(s):	see technical drawing, attached
4.1.2.9.	L1e — L7e	Location of the catalytic converter(s) (place and reference distance in the exhaust line):	see assembly drawing, attached
4.1.2.10.	L1e — L7e	Catalyst heat-shield:	no
4.1.2.11.	L1e — L7e	Brief description and schematic drawing of the regeneration system/method of exhaust after-treatment systems and its control system:	n.a.
4.1.2.11.1.	L1e — L7e	Normal operating temperature range:	673-1073K
4.1.2.11.2.	L1e — L7e	Consumable reagents:	no
4.1.2.11.3.	L1e — L7e	Brief description and schematic drawing of the reagent flow (wet) system and its control system:	n.a.
4.1.2.11.4.	L1e — L7e	Type and concentration of reagent needed for catalytic action:	n.a.
4.1.2.11.5.	L1e — L7e	Normal operational temperature range of reagent:..... K	n.a.
4.1.2.11.6.	L1e — L7e	Frequency of reagent refill: continuous/maintenance:	n.a.
4.1.2.12.	L1e — L7e	Identifying part number:	see item 0.8. Type
4.1.3.	L1e — L7e	***Oxygen sensor(s)***	
4.1.3.1.	L1e — L7e	Oxygen sensor component(s) drawing(s):	n.a. OE part
4.1.3.2.	L1e — L7e	Drawing of exhaust device with oxygen sensor location(s):	see assembly drawing, attached
4.1.3.3.	L1e — L7e	Control range(s):	n.a. OE part
4.1.3.4.	L1e — L7e	Identifying part number(s):	n.a. OE part
4.1.3.5.	L1e — L7e	Description of oxygen sensor heating system and heating strategy:	n.a. OE part
4.1.3.6.	L1e — L7e	Oxygen sensor heat shield(s):	n.a. OE part
4.1.4.	L1e — L7e	***Secondary air-injection (air-inject in exhaust)***	
4.1.4.1.	L1e — L7e	Brief description and schematic drawing of the secondary air-injection system and its control system:	n.a.
4.1.4.2.	L1e — L7e	Configuration (mechanical, pulse air, air pump etc.) :	n.a.
4.1.4.3.	L1e — L7e	Working principle:	n.a.
4.1.5.		***External exhaust gas recirculation (EGR)***	
4.1.5.1.	L1e — L7e	Brief description and schematic drawing of the EGR system (exhaust flow) and its control system:	n.a.
4.1.5.2.	L1e — L7e	Characteristics:	n.a.
4.1.6.		***Particulate filter***	
4.1.6.1.	L1e — L7e	PT component drawing with dimensions, shape and capacity of the particulate filter:	n.a.
4.1.6.2.	L1e — L7e	Design of the particulate filter:	n.a.
4.1.6.3.	L1e — L7e	Brief description and schematic drawing of the particulate filter and its control system:	n.a.
4.1.6.4.	L1e — L7e	Location (reference distance in the exhaust line):	n.a.
4.1.6.5.	L1e — L7e	Method or system of regeneration, description and drawing:	n.a.
4.1.7.		***Lean NOx trap***	
4.1.7.1.	L1e — L7e	Operation principle of lean NOx trap:	n.a.
4.1.8.		***Additional tailpipe emission-control devices***	
4.1.8.1.	L1e — L7e	Working principle:	n.a.

Attachment	Drawing no.	Date	Pages
Drawing catalytic converter	P-KAT-082	27.10.2020	1
Assembly drawing	KTM 690 SMC R KTM 690 ENDURO R HUSQVARNA 701 Supermoto HUSQVARNA 701 ENDURO	-	1
Installation instructions	KTM 690 SMC R KTM 690 ENDURO R HUSQVARNA 701 Supermoto HUSQVARNA 701 ENDURO	09/2020	14

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29.10.2020

Partial exhaust system / Slip-ON line / EC / ECE / Type approval

KTM 690 SMC R
KTM 690 ENDURO R
HUSQVARNA 701 Supermoto
HUSQVARNA 701 ENDURO

Product code: S-KTM6SO1-HHMT