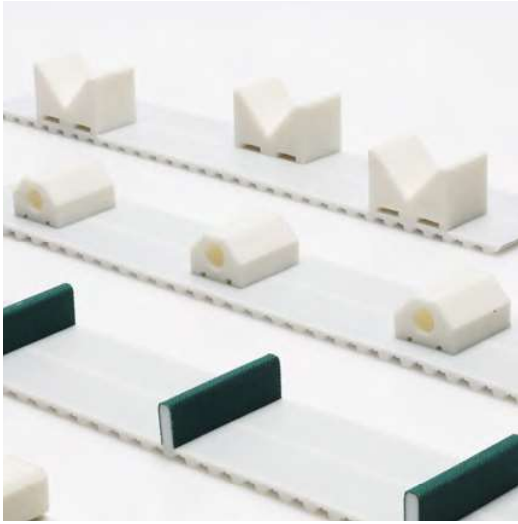


CLEATS



Megadyne timing belts can be customised with profiles vulcanised on the backside. All the cleats are made using the same thermoplastic polyurethane as the MEGALINEAR body (white PU 92 ShA).

The profiles are attached with the best technology now available, the High Vibration System.

The production process for these profiles is very flexible; Megadyne can design any profile to meet the specific requirement of the customer, in order to check and develop all the needed special profiles.

STANDARD PARALLELEPIPED PROFILES

Megadyne can produce, as standard cleats, the parallelepiped profiles, starting from a thermoplastic polyurethane strip roll and cutting until the requested profile dimension.

The t value (thickness) is available from 2 until 13 mm, the h value (height) can be from 3 until 120 mm and the width can be 150 mm maximum.

Megadyne recommend that the profile spacing were multiple of the belt pitch; in any case, for special inquiries and small quantities, it is possible to weld the profiles also in others positions; the feasible dimensions, with the standard process tolerances, are introduced in the following sketch.

The tolerances on the position are ± 0.5 mm.

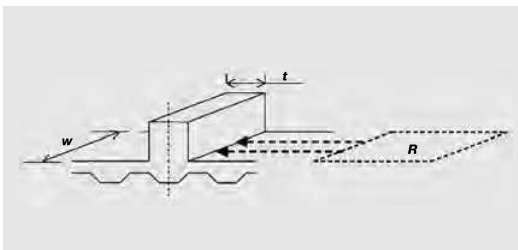
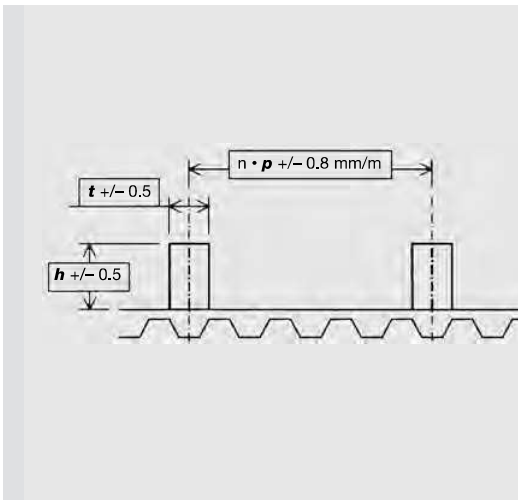
The cumulative tolerance on the spacing of the profiles is the same of the length tolerance for our standard belts (± 0.8 mm/m) (tighter tolerances are available on request).

Due to the welding process, a bead of material develops at the meeting point of profile and belt.

In any case, Megadyne always remove this welding bead.

PROFILE MECHANICAL RESISTANCE

In order to find the right cleat dimensions, please consider the following factors:





CLEATS

SECTION BASE CLEATS RESISTANCE (R) BECOMES BIGGER, INCREASING:

- Cleats width (w)
- Cleats thickness (t)

CLEAT STIFFNESS IS BIGGER:

- Increasing cleat thickness (t)
- Using special moulded profiles, like STDE0006, STDE0008, STDE0010 and STMI0012 types

MIN. N° OF PULLEY TEETH FOR BELTS WITH PROFILES

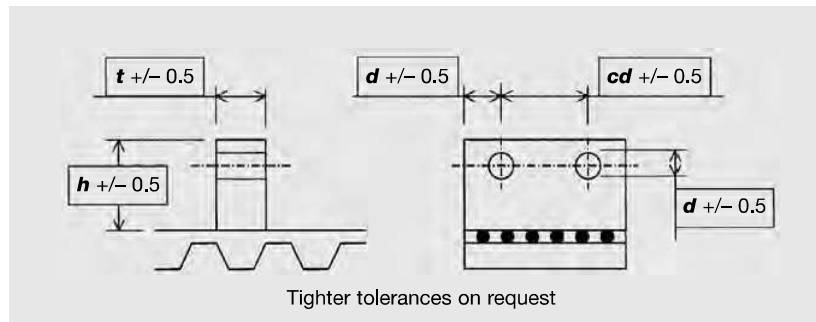
The profiles presence can change the belt flexibility properties; the two factors that affect the original flexibility are the following:

- thickness of the cleat “foot“ (size of the base). Flexibility decreases when welded area dimensions increase
- position of the welded profile on the belt. When the cleats are welded in axis with the teeth, belt flexibility is better than when cleats are welded in axis with the little nose.

Please find, in the following table, flexibility properties for the cleated belts.

CLEAT THICKNESS	CLEATS OVER A TOOTH					
	4	5	6	8	10	12
XL	18	18	25	40	50	100
L	12	12	18	30	40	60
H	14	14	14	18	25	45
XH	18	18	18	28	18	20
T5/AT5	18	18	25	40	50	100
T10/AT10	14	14	14	18	25	45
T20/AT20	18	18	18	18	18	20
RPP5	18	18	25	40	50	100
RPP8	14	14	14	18	25	45
RPP14	18	18	18	18	18	20

CLEAT THICKNESS	CLEATS NOT OVER A TOOTH					
	4	5	6	8	10	12
XL	45	45	50	60	100	-
L	40	40	45	55	60	80
H	25	25	30	45	50	65
XH	20	20	30	40	45	54
T5/AT5	45	45	50	60	100	-
T10/AT10	30	30	40	45	50	65
T20/AT20	20	20	30	40	45	54
RPP5	45	45	50	60	100	-
RPP8	30	30	40	45	50	65
RPP14	20	20	30	40	45	54



STANDARD PARALLELEPIPED PROFILES WITH HOLES

Parallelepiped profiles are available also with holes, to satisfy special applications; please find below the standard tolerances for this kind of cleats.

Please find, in the following table, flexibility properties for the cleated belts.

For belt flexibility and mechanical resistance, please kindly refer to values for cleats without holes.

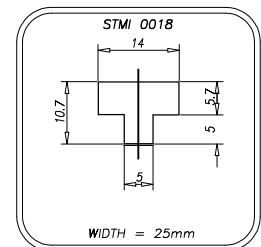
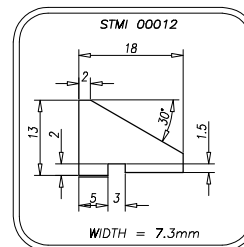
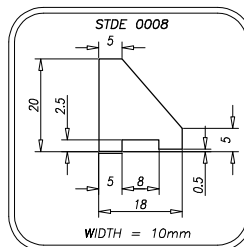
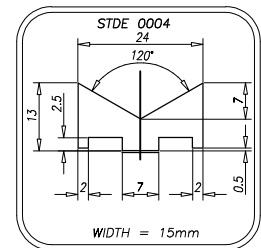
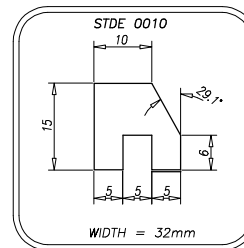
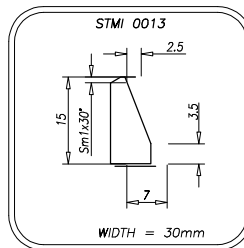
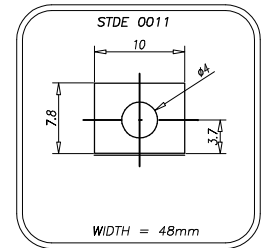
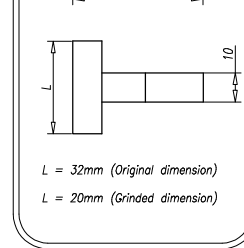
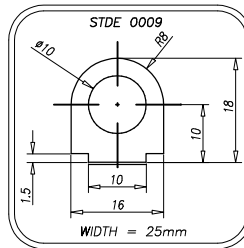
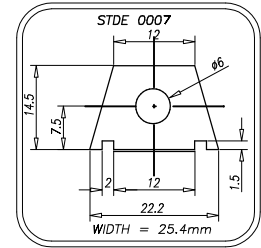
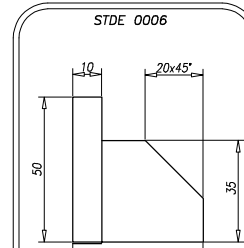
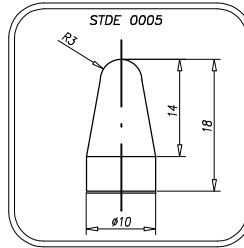
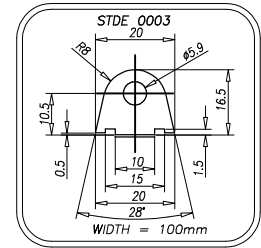
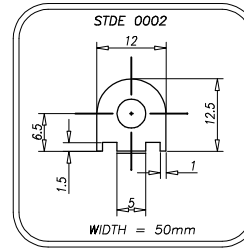
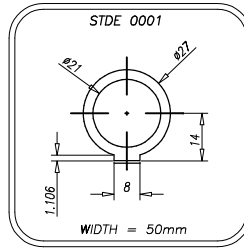
MOULDED CLEATS

Using an high performance injection system, Megadyne can produce any profile designed by the customer. For cleats not yet present in following pages, Megadyne can produce dedicated mould according customer requirements. For belt flexibility and mechanical resistance, please kindly refer to standard parallelepiped profiles section.



CLEATS

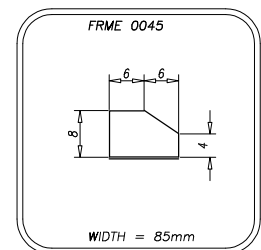
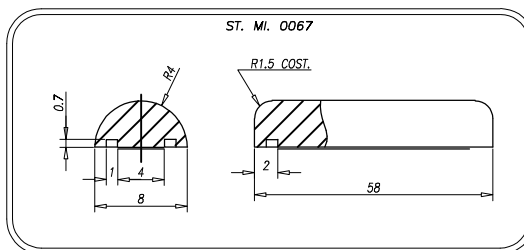
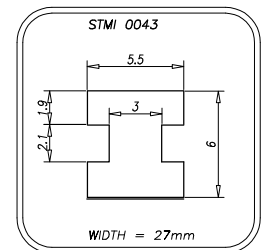
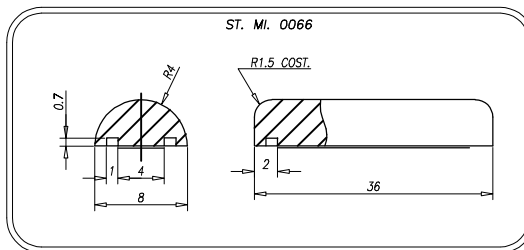
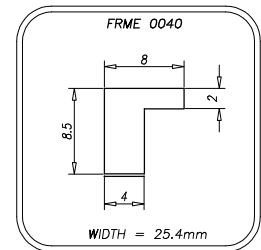
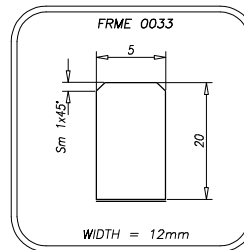
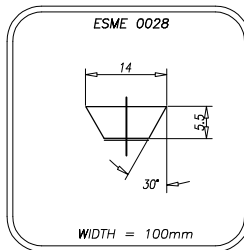
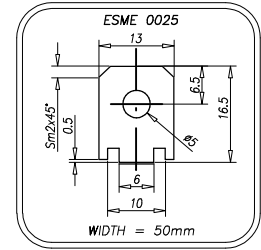
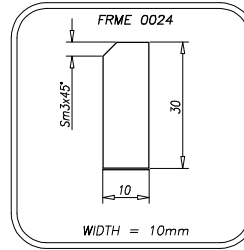
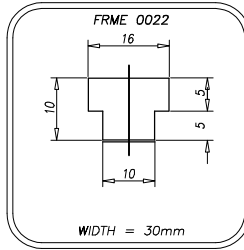
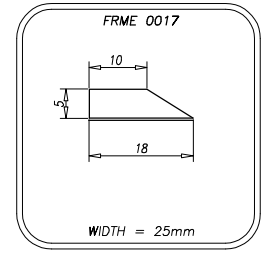
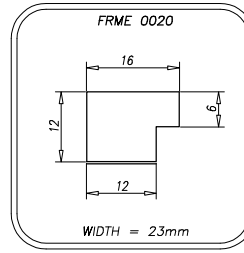
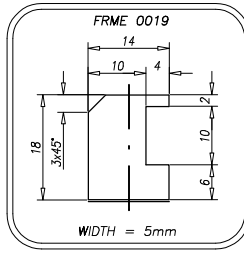
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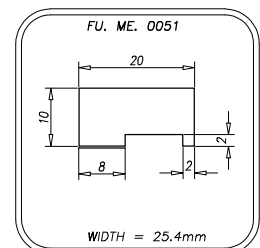
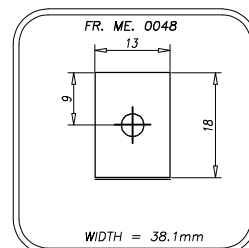
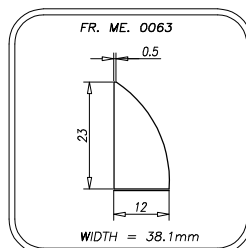
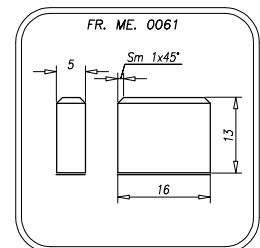
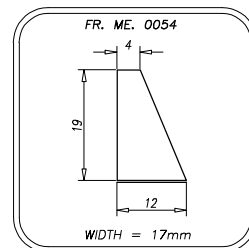
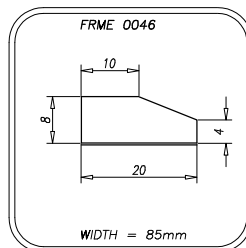
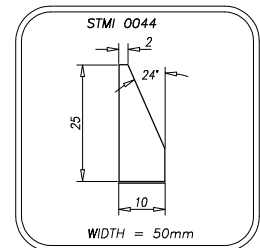
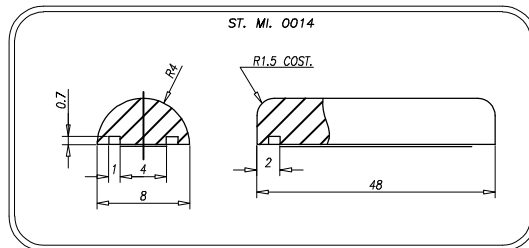
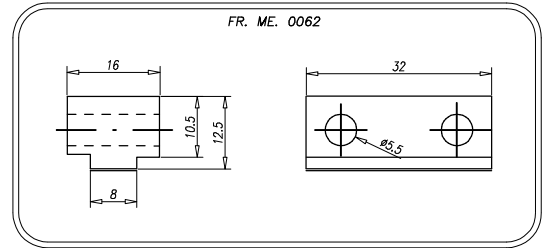
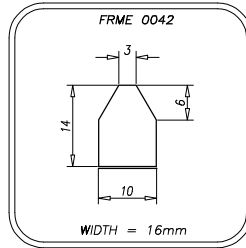
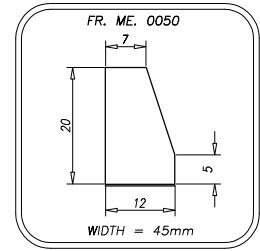
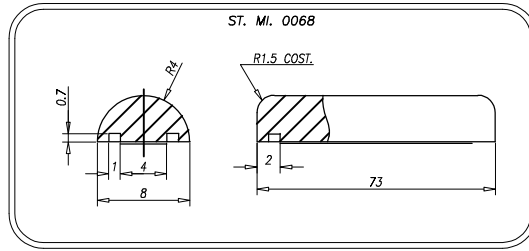
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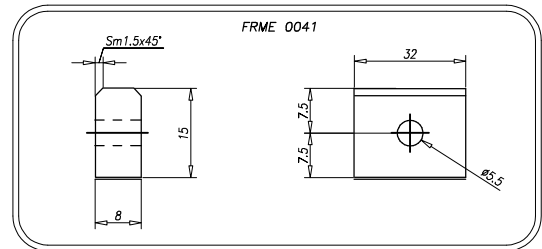
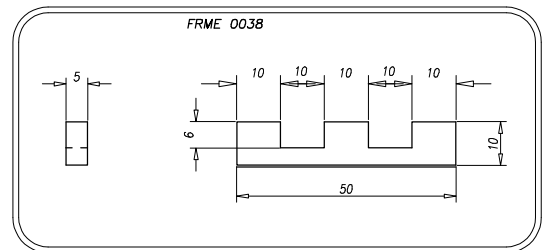
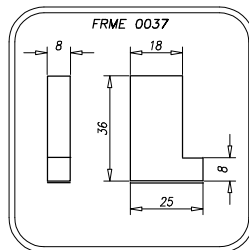
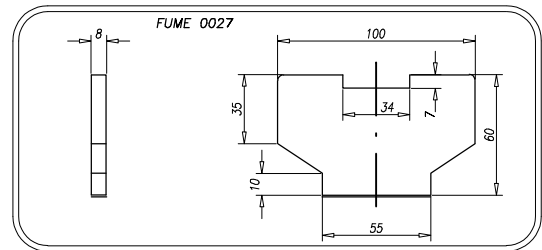
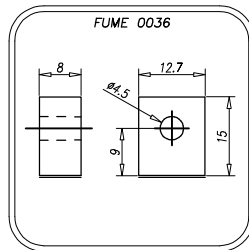
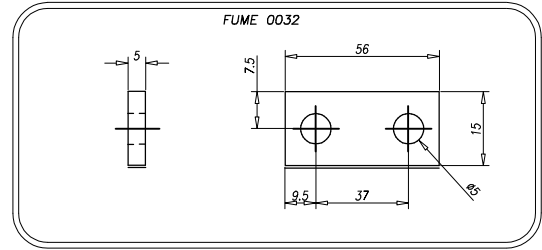
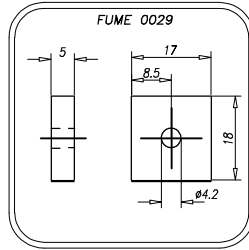
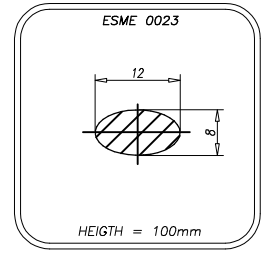
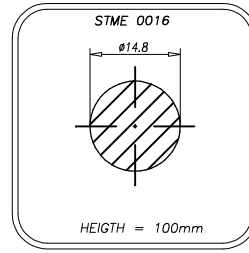
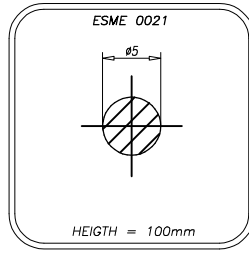
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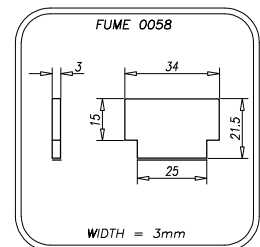
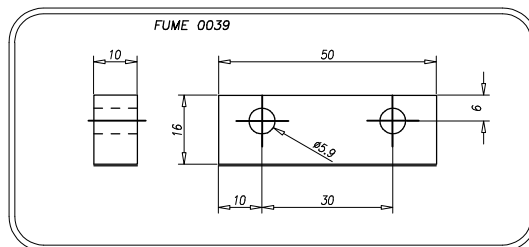
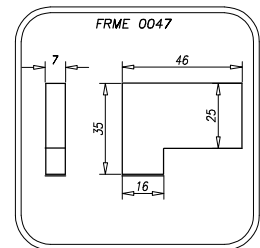
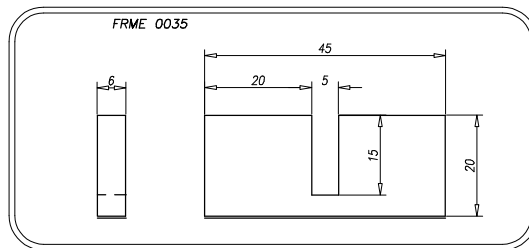
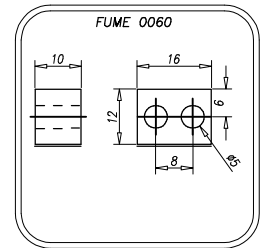
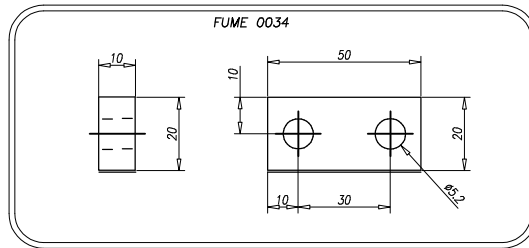
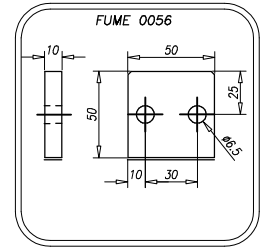
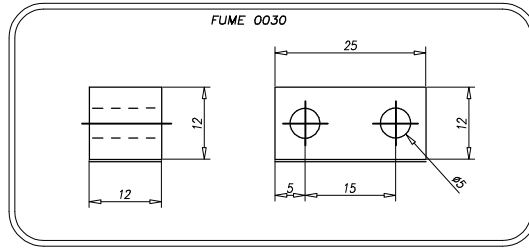
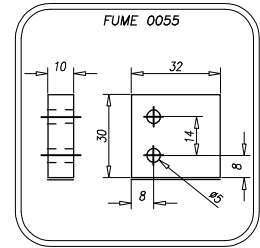
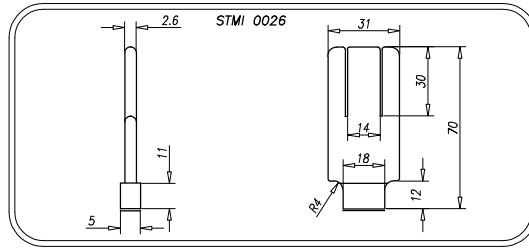
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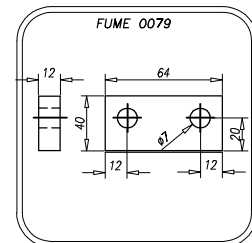
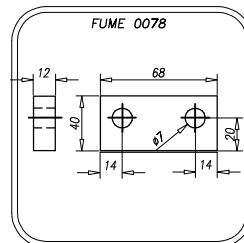
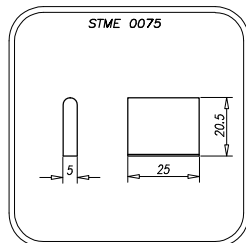
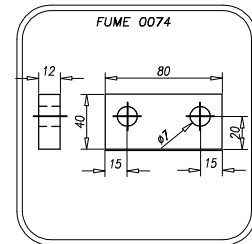
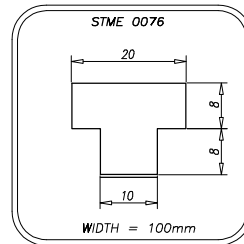
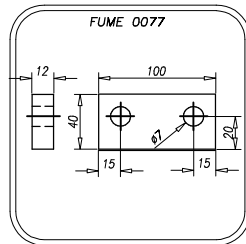
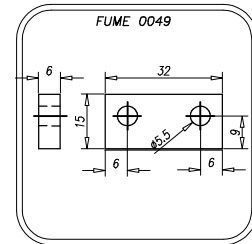
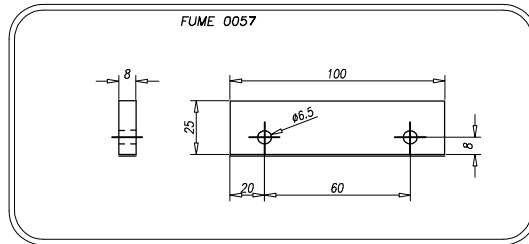
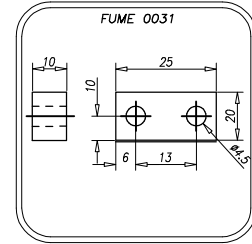
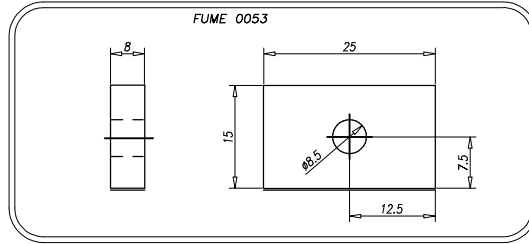
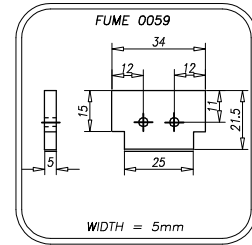
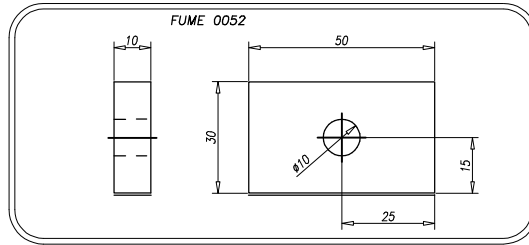
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CLEATS

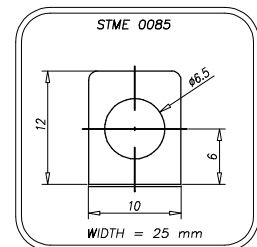
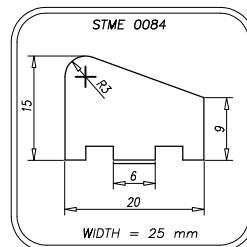
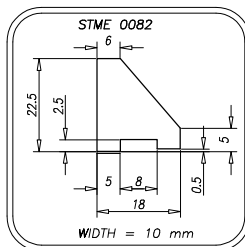
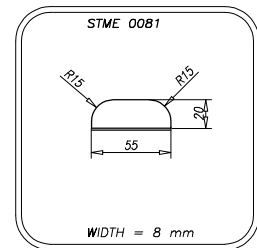
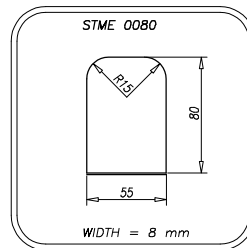
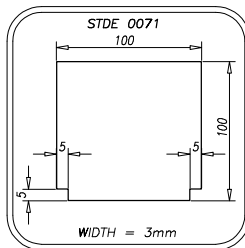
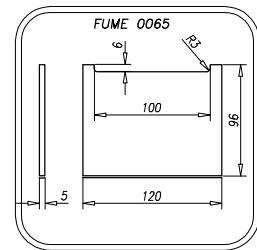
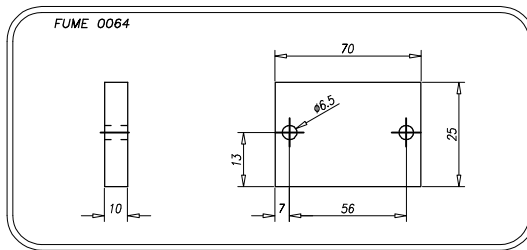
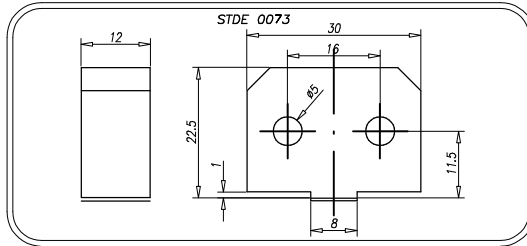
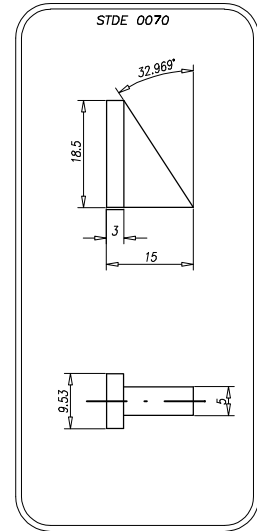
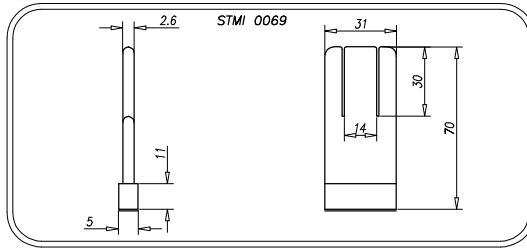
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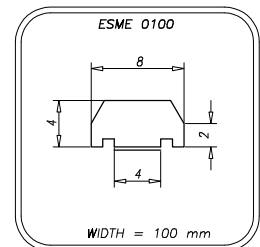
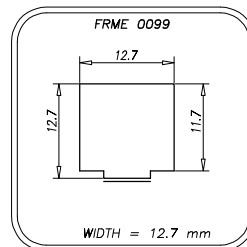
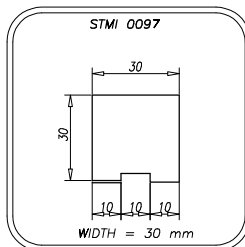
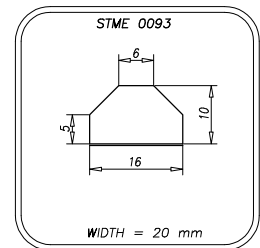
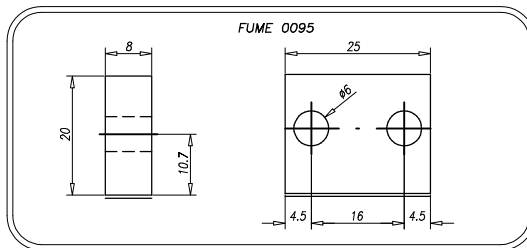
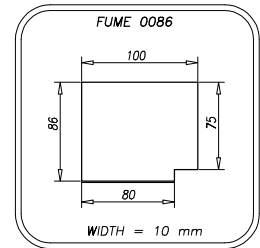
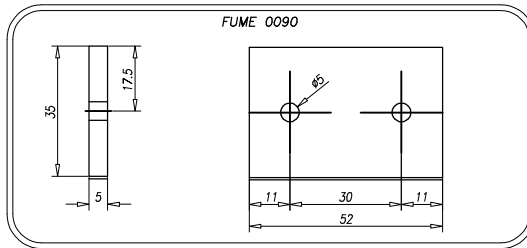
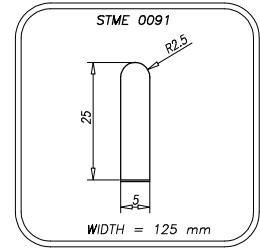
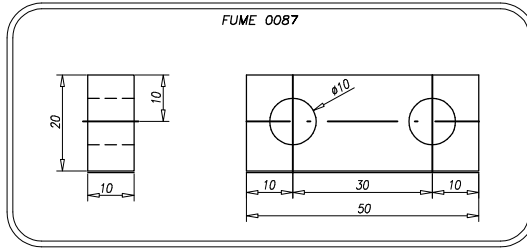
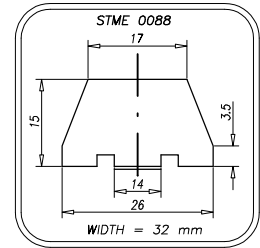
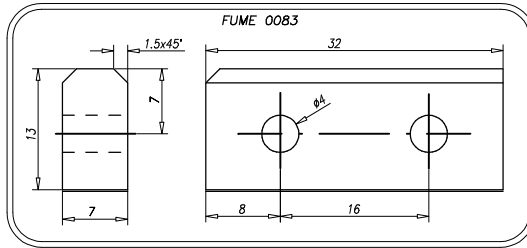
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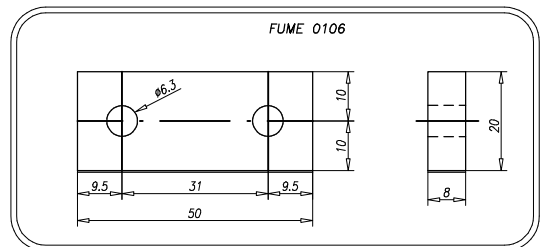
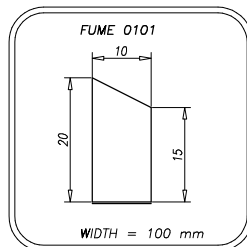
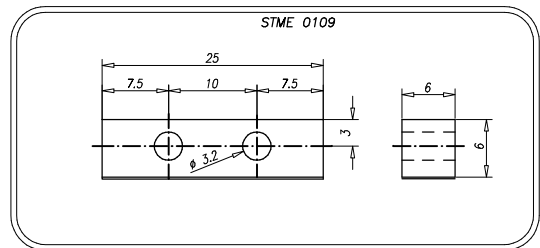
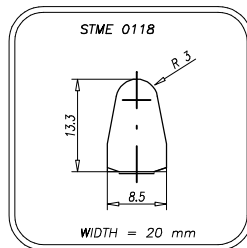
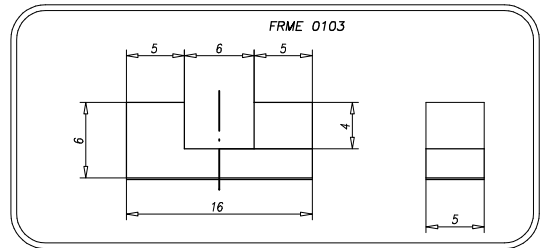
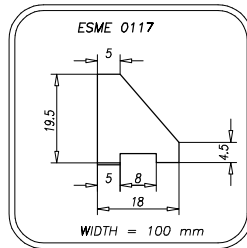
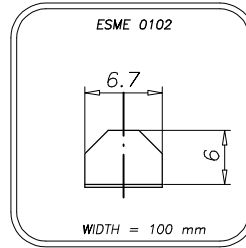
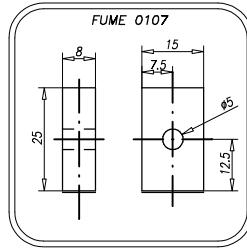
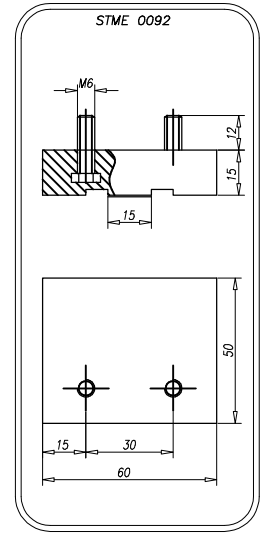
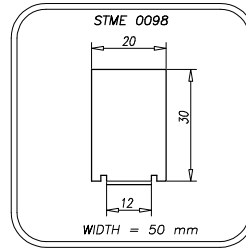
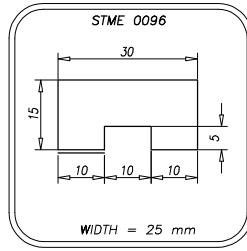
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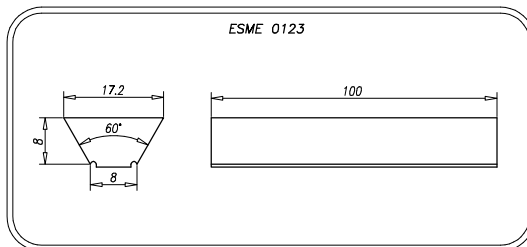
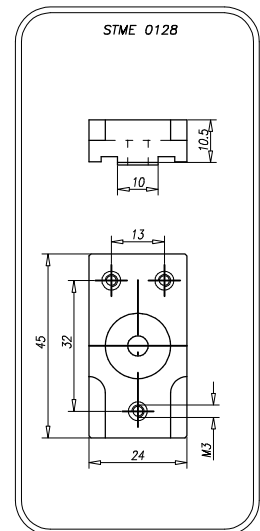
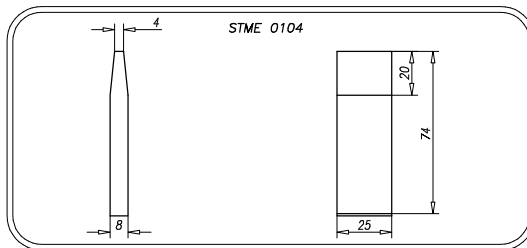
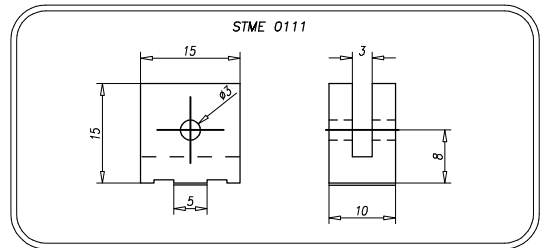
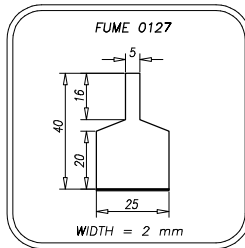
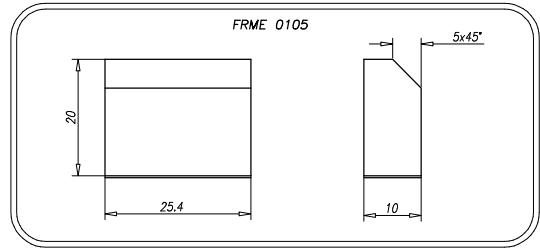
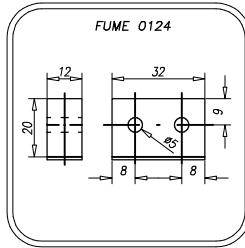
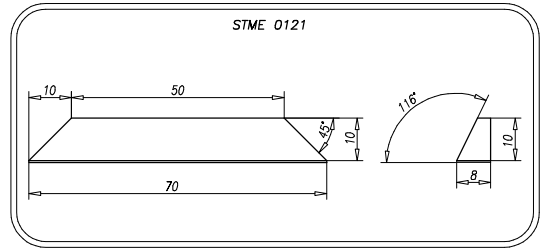
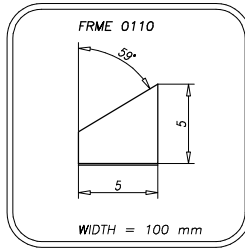
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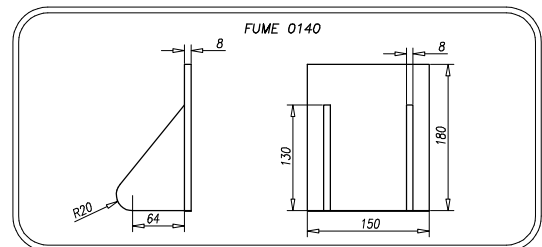
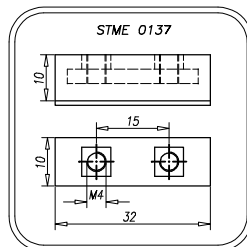
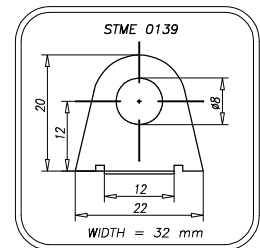
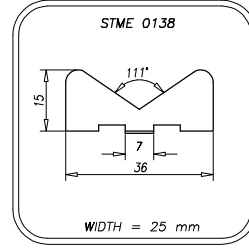
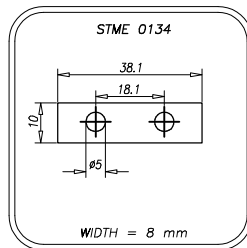
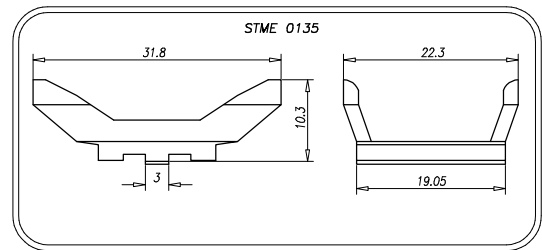
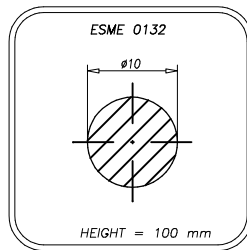
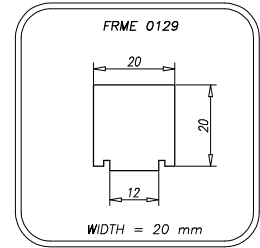
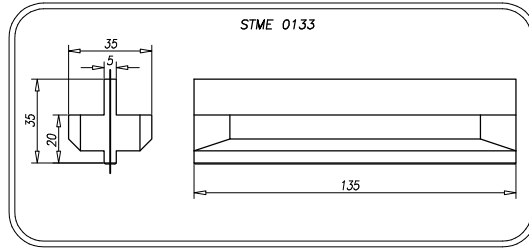
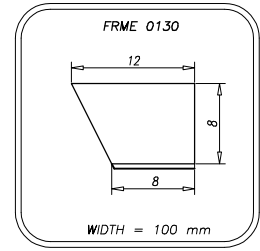
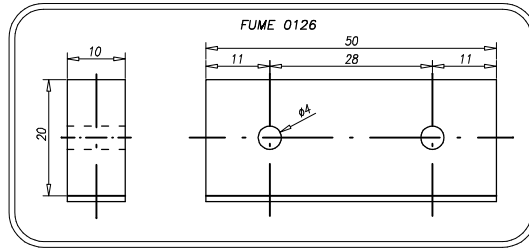
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