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TL

CHROME PLATED TELESCOPIC STEEL TUBES

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NIMAX TL - E355+C

External chrome plated telescopic tubes are supplied with inside smooth surface as honed or ready to use.

STEEL GRADES CORRESPONDENTS

EN	Werkstoff	DIN	B.S.	UNI	JIS	GOST	AISI / SAE / ASTM
E355	1.0580	St52	CFS5	Fe510	STKM19A	St6sp	1524 / 1024

CHEMICAL COMPOSITION - IN % BY WEIGHT

Steel grade	C	Si	Mn	P	S	Cr	Mo	Ni	V	Cu	N
E355	max. 0.22	max. 0.55	max. 1.60	max. 0.025	max. 0.025	-	-	-	-	-	-

*Cr+Mo+Ni = max. 0.63

MECHANICAL PROPERTIES

Steel grade	Tensile strength	Yield point	Elongation (longitudinal)	Impact energy (longitudinal direction)	Hardness ***	Norm
	R _m N/mm ²	R _{p0.2} N/mm ²	A ₅ %	KV ₂ J	Brinell N/mm ²	
E355+C	min. 640	min. 540 ****	min. 4	-	min. 185	EN 10305-2

C = cold drawn

* Wall thickness ≤ 12 mm

** On request

*** The hardness values is for information only

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Outside diameter - OD	Ø40 - 200 mm
Inside diameter - ID	Ø30 - 180 mm
Inside tolerance - ID	ISO H9
Outside tolerance - OD	ISO f7/ISO f8
Roundness - ID	within the limits of diameter tolerances
Standard lengths	only cut to fix lengths
Surface roughness - OD	Ra: max. 0.20 µm
Surface roughness - ID	Ra: max. 0.50 µm for honed surface Ra: max. 0.90 µm for smooth surface, SSID
Chrome layer thickness	min. 20 µm
Chrome layer microhardness	min. 900 HV0.1
Straightness	max. 0.4 mm/1000 mm

TABLE OF DIMENSIONS OD TOLERANCE

Diameter mm	ISO f7 µm	ISO f8 µm
30 < Ø ≤ 50	-25/-50	-25/-64
50 < Ø ≤ 80	-30/-60	-30/-76
80 < Ø ≤ 120	-36/-71	-36/-90
120 < Ø ≤ 180	-43/-83	-43/-106
180 < Ø ≤ 200	-50/-96	-50/-122

TABLE OF DIMENSIONS ID TOLERANCE

Diameter mm	ISO H8 µm	ISO H9 µm
30 < Ø ≤ 50	0/+39	0/+62
50 < Ø ≤ 80	0/+46	0/+74
80 < Ø ≤ 120	0/+54	0/+87
120 < Ø ≤ 180	0/+63	0/+100
180 < Ø ≤ 200	0/+72	0/+115

CORROSION RESISTANCE LEVELS

Diameter mm	NIMAX 120		NIMAX 200	
	NSS	AASS	NSS	AASS
Ø ≥ 20	rating 9 after 120 h	rating 9 after 48h	rating 9 after 200 h	rating 9 after 80h

Tested in our own laboratory according to ISO 9227, evaluated according to ISO 10289.

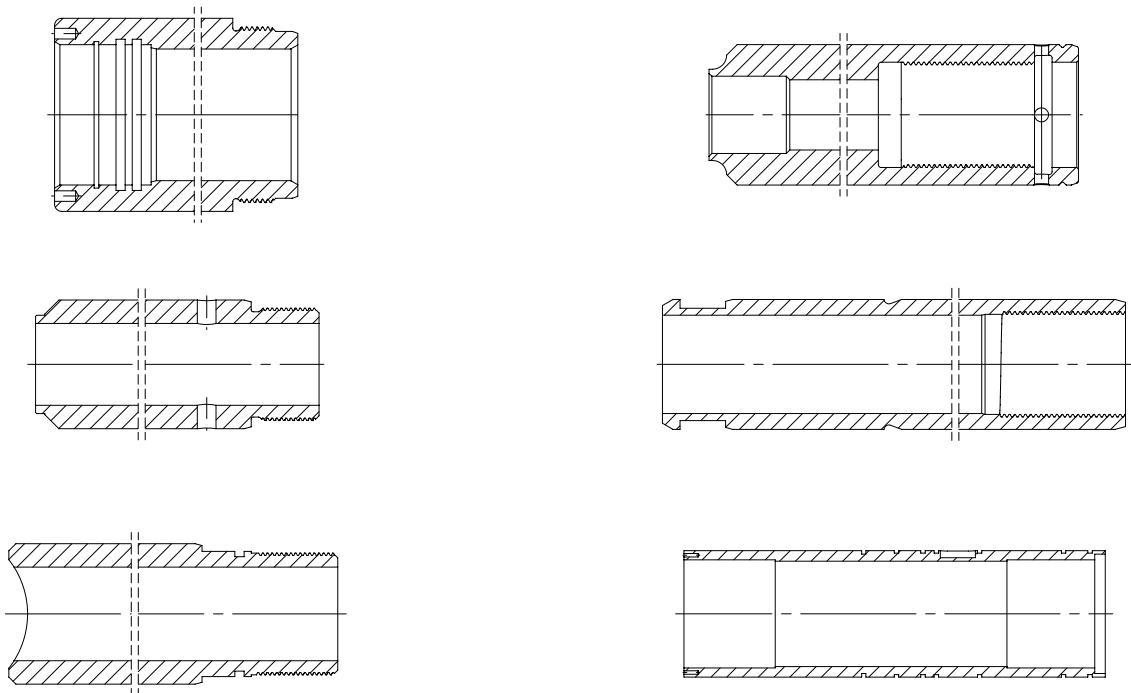
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CUSTOMIZED MACHINING



STORAGE AND HANDLING RECOMMENDATIONS

- Keep the products stored in dry and covered spaces.
- Do not expose for a long time the bars or tubes to the sunlight or to very low temperatures.
- For storage, preferable to use rubber supports or wood lined supports; direct contact with the floor and steel supports that are not lined with soft materials must be avoided.
- Whenever possible, please use the crane to load or unload the bundles; when you use the fork lifts please avoid the direct contact of the forks with the products.
- Always lift the bundles using textile slings. Don't use metal slings during handling of bundles.
- Always keep dry the cardboard tubes that protect the chromed products.



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