34-… Punch dies

Application

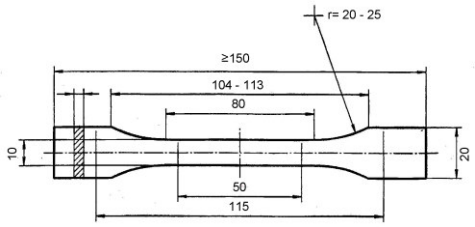
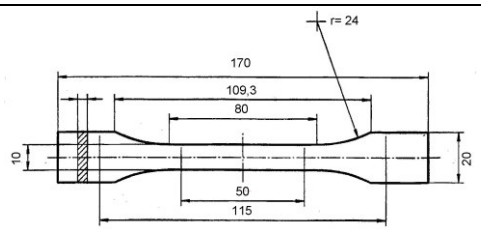
Punch dies serve for cutting specimens out of plastics and elastomers

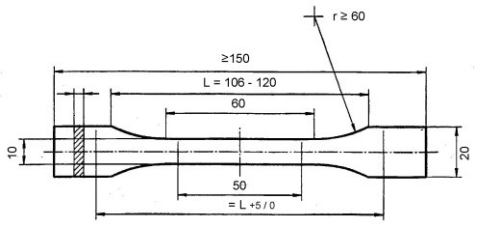
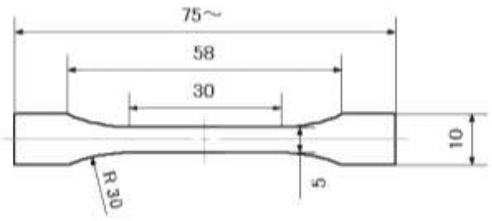
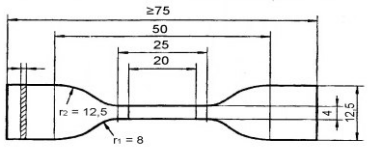
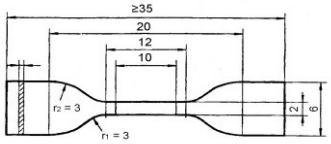
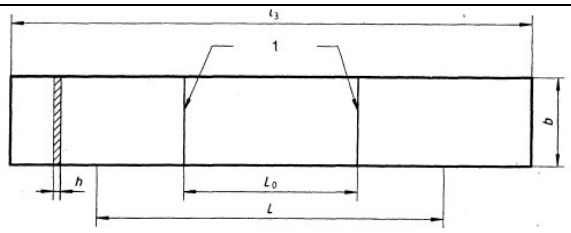
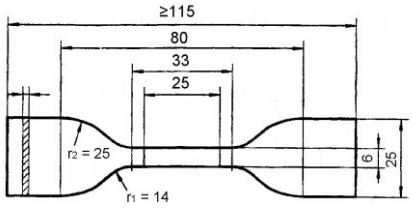
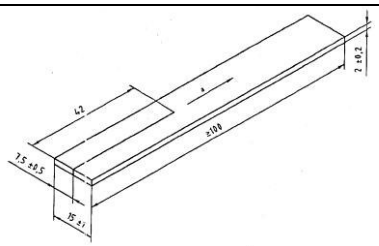
Features

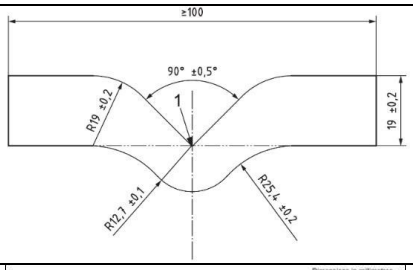
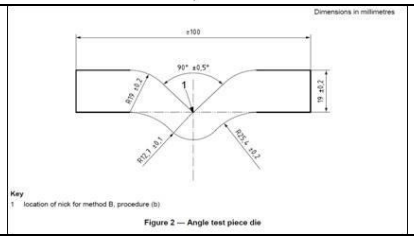
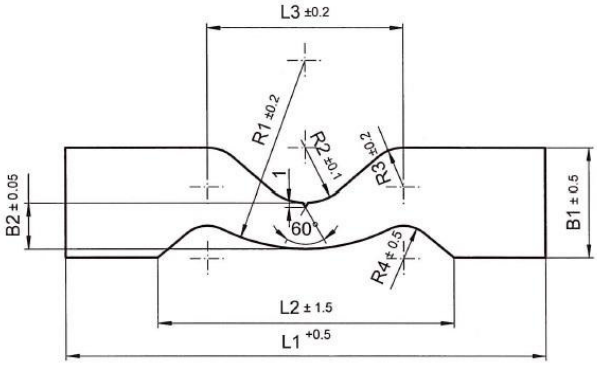
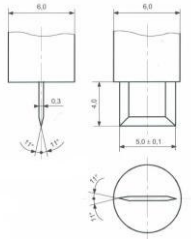
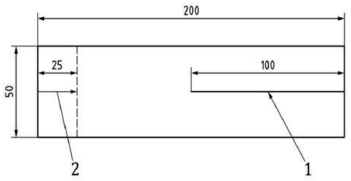
Coesfeld specimen punch dies are manufactured from homogenous, solid, high carbon content A2 tool steel. Each one undergoes multi-axis precision grinding and conventional, plunge or wire EDM (Electrical Discharge Machining) process. Precision grinding and EDM processes ensure true parallelism and multi-plane dimensional accuracy. The quality of materials, design, and engineering serve to provide the highest possible specimen quality over an extended service life. The sample ejectors are spring operated.

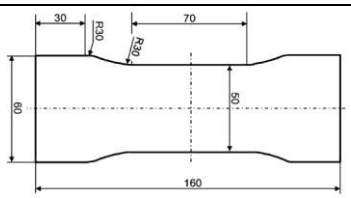
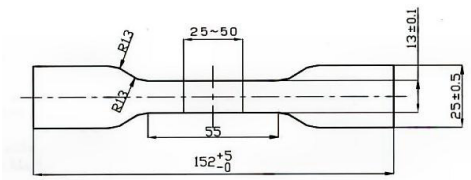
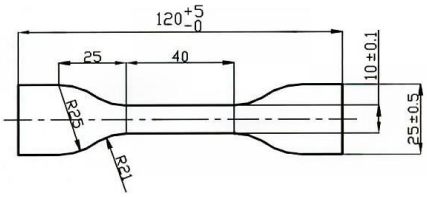
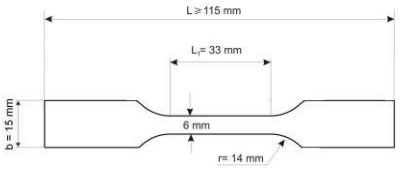
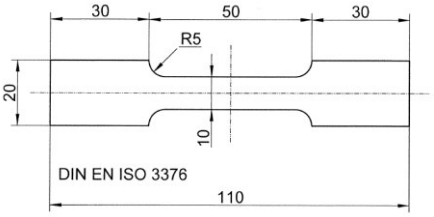
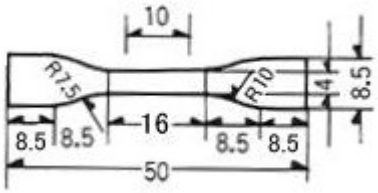
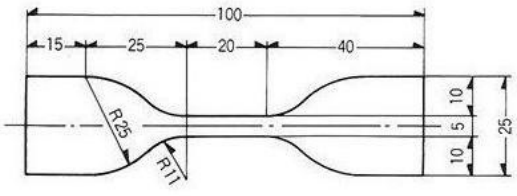
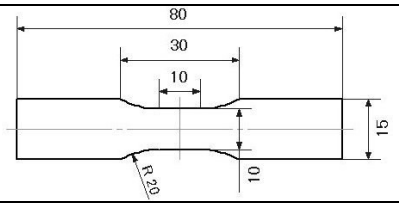
Technical Data

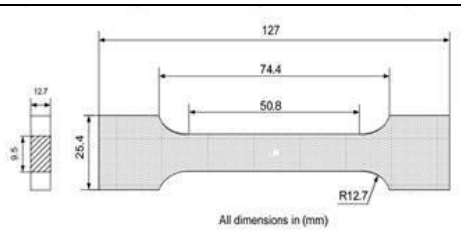
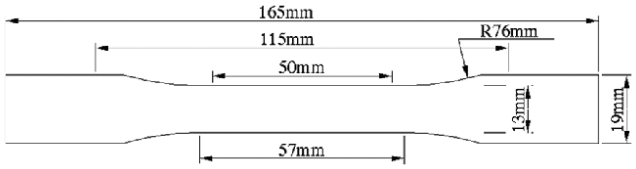
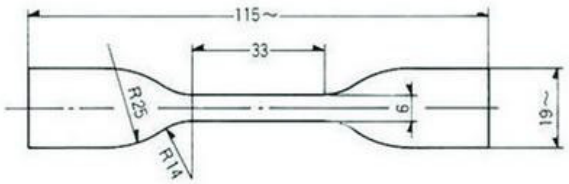
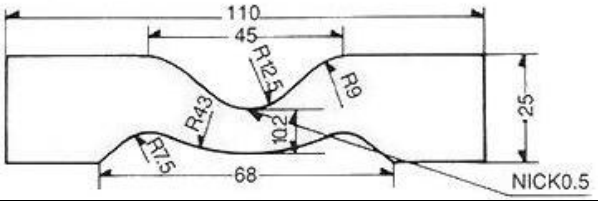
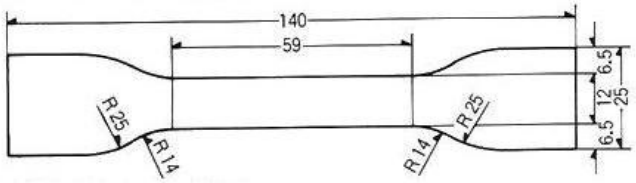
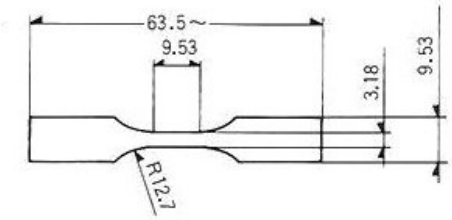
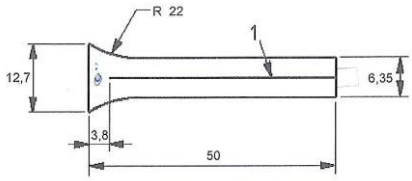
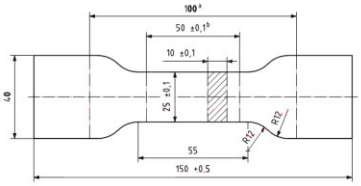
The punch dies by default are delivered as follows: punching die 28 mm height, complete with cover plate 12 mm, mounting spigot Ø 20 mm and spring ejector.
Customized punch dies are available on request.

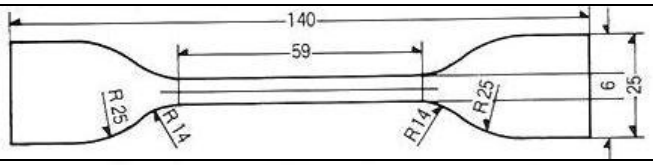
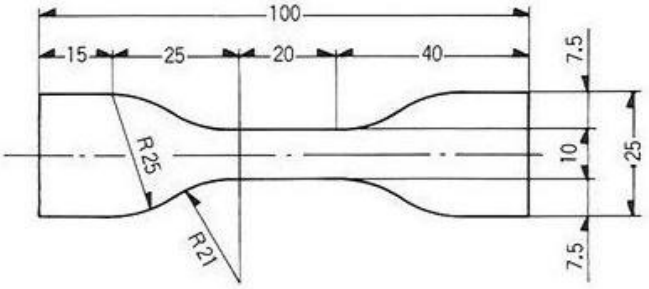
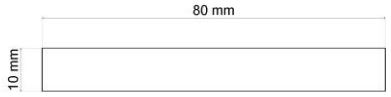
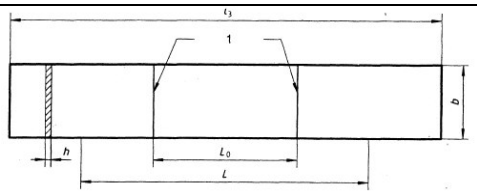
Standard	Item no.	Drawing
DIN EN ISO 527-2 Type 1A *identically constructed:* EN ISO 3167 Type A BS 2782-3 Fig.3	34-000	
DIN EN ISO 527-2 Type 1A New dimensions 2012-06	34-000-006	

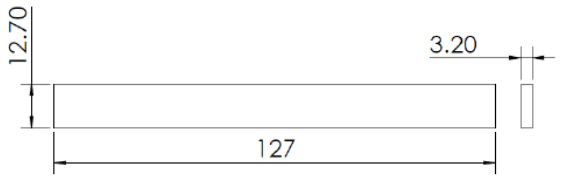
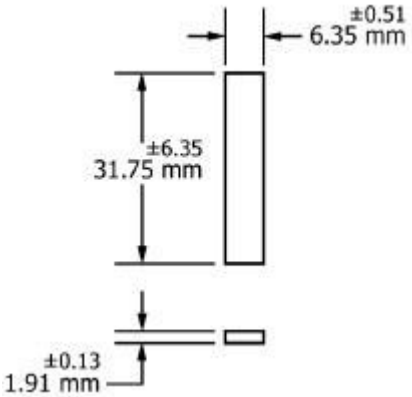
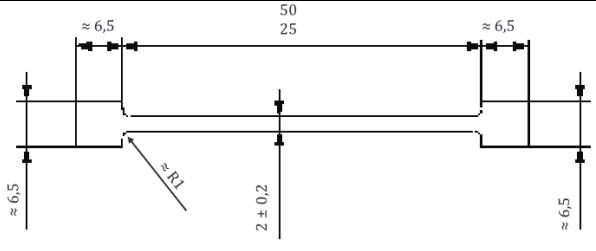
DIN EN ISO 527-2 Type 1B *identically constructed:* EN ISO 3167 Type B ISO 6259 Type 1 DIN 53455 Nr.3 BS 2782-3 Fig.2 GOST 11 262 – 80 Type 2	34-001	
DIN EN ISO 527-2 Type 1BA	34-002	
DIN EN ISO 527-2 Type 1BB	34-003	
DIN EN ISO 527-2 Type 5A *identically constructed:* DIN 53504 Type S2 ISO 37 Type 2 GOST 270 Type III IEC 60811-501:2012 – Fig. 1	34-004	
DIN EN ISO 527-2 Type 5B *identically constructed:* DIN 53504 Type S3 ISO 37 Type 4	34-005	
DIN EN ISO 527-3 Type 2 for specimen 150x15 mm	34-006	
DIN EN ISO 527-3 Type 4	34-007	
DIN EN ISO 527-3 Type 5 *identically constructed:* ISO 6259 Type 2 ISO 37-1 Type 1 DIN 53504 Type S1 DIN 53455 Nr.4 BS 2782-3 Fig.1 ASTM D 412 Die C GOST 11 262 – 80 Type 1 ISO/DIS 3604, Figure 1 EN 12311-2, Procedure B	34-008	
DIN ISO 34-1 Figure 1 Method A (Streifenprobe/ Trouser Test piece) *identically constructed:* DIN 53507 ISO 8067 Method A	34-020	

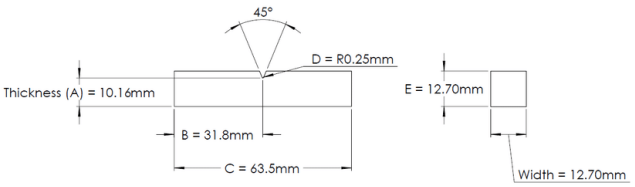
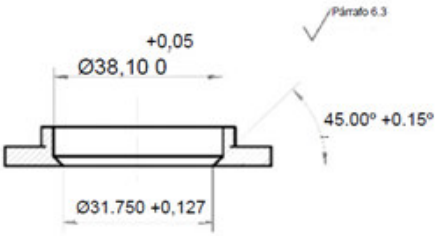
DIN ISO 34-1 Figure 2 Method B, Verfahren a (Angle test specimen, without Slit) *identically constructed:* ASTM D1004 ISO 8067 Method B	34-021	
DIN ISO 34-1 Figure 2 Method B, Verfahren b (Angle test specimen, with Slit) *identically constructed:* DIN 53515 (Graves-Probe)	34-022	
DIN ISO 34-1 Figure 3 (arc-shaped specimen, with 1 mm Slit, Crescent Test Piece)	34-023	
DIN ISO 34-1 Figure 3 (arc-shaped specimen, without Slit)	34-023-100	
ISO 34-2 (Delft specimen with Slit) *identically constructed:* ISO 816	34-024	
ISO 34-2 <u>Only for Slit</u> Delft specimen	34-024-002	
ISO 34-2 (Delft specimen with Slit) *identically constructed:* ISO 816	34-024-003	
DIN EN ISO 4674-1 Method B (200 x 50 mm with 100 mm slit)	34-027	

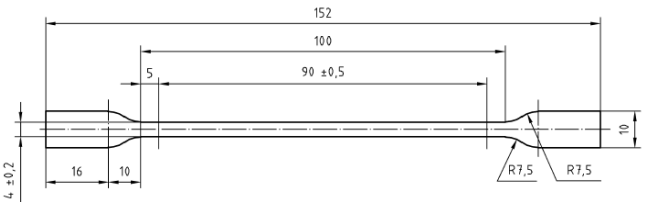
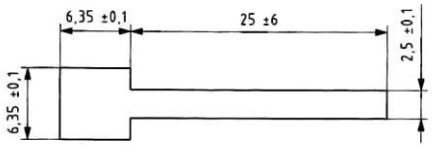
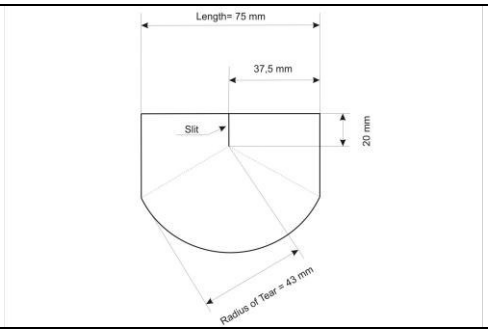
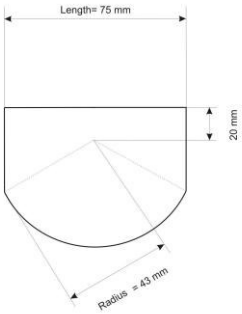
VW TL 52654	34-028	
DIN EN ISO 1798 Type 1 *identically constructed:* DIN 53571 Type A GMI 60283, Part 2, Type S2	34-030	
DIN EN ISO 1798 Type 1A	34-031	
ISO/DIS 3604, Figure 2	34-032	
DIN EN ISO 8256 Type 5	34-033	
Rectangular form, DIN EN ISO 3376 Length 110 mm	34-034	
ISO 37 Type 3 *identically constructed:* DIN 53504 Type S3A	34-050	
ISO 37 Type 1A *identically constructed:* DIN 53504-S1A JIS K6251-3 JIS K63013 JIS K7311	34-052	
DIN EN ISO 8256 Type 3 *identically constructed:* JIS K7160-3 GB/T 13525-92 Type A	34-056	

JANAF Sample	34-057	
ASTM D 638, Type 1	34-100	
ASTM D 638, Type IV Identically constructed: ASTM D 6693 - 04 Type IV	34-101	
ASTM D 2209-10 (Tensile Strength Leather)	34-102	
ASTM D 624, Die B (arc-shaped specimen, with 0.5 mm Slit, Crescent Test Piece)	34-103	
ASTM D 412 Type A	34-104	
ASTM D 638, Type V Identically constructed: ASTM D 1822 L	34-106	
HD 605 S2: 2008	34-107	
DIN EN ISO 1926 – Fig. 1	34-109	

ASTM D412 Type B	34-110	
JIS K6251-2 / JIS 6301-2	34-140	
GOST 270 Type II	34-150	
GOST 262-93	34-160	
DIN EN ISO 75, ISO 178, ISO 180 Rectangular form, L X W: 80 x 10 mm ISO 4589-2, Specimen I: 80 to 150 mm x 10 ± 0.5 mm x 4 ± 0.25 mm (LxWxH)	34-200	
Rectangular form, L X W: 100 x 25 mm	34-201	
Rectangular form, L X W: 300 x 50 mm	34-202	
Rectangular form, ISO 527-3 Type 2 L X W: 150 x 10 mm	34-203	
Rectangular form, L X W: 210 x 148 mm	34-204	
Rectangular form, L X W: 40 x 40 mm	34-205	
Rectangular form, L X W: 50 x 50 mm	34-206	
Rectangular form, L X W: 100 x 100 mm	34-207	
Rectangular form, L X W: 50 x 20 mm	34-209	
Rectangular form, ASTM D882 L X W: 150 x 25,4 mm	34-210	
Rectangular form, L X W: 150 x 15 mm	34-211	
Rectangular form, L X W: 125 x 13 mm UL 94 IEC/DIN EN 60695-11-10 CSA C 22.2	34-212	

Rectangular form, TL 1010 L X W: 100 x 5 mm	34-213	
Rectangular form, L X W: 140 x 10 mm	34-214	
Rectangular form, L X W: 30 x 10 mm	34-215	
Rectangular form, L X W: 50 x 6 mm (until 1993 in ISO 179-1/ 179-2), (obsolete: DIN 53453, DIN 53753)	34-216	
Rectangular form, L X W: 150 x 20 mm	34-217	
Rectangular form, ISO 32100 45 x 70 mm	34-218	
Square form, L X W: 30 x 30 mm	34-219	
Rectangular form, L X W: 80 x 6 mm	34-220	
Rectangular form, L X W: 100 x 10 mm	34-221	
Rectangular form, ASTM D 6110 127 x 12.7 mm Identically constructed: ASTM D790	34-222	
ISO 812 Type A (Low temperature brittleness) *identically constructed:* ASTM D746 (I)	34-223	
DIN ISO 2285:2019, Figure 2 „Streifenprobekörper mit verbreiterten Enden“ ISO 2285:2019, Figure 2 Test piece with enlarged ends	34-228	 Thickness 2 mm ± 0,2 mm

Rectangular form, ASTM D1693 (ESCR) 38±2.5 x 13±0.08mm	34-230	
Rectangular form, ASTM D256A 63.5 x 12.7 mm	34-234	
Rectangular form, Trouser specimen L X W: 150 x 20 mm with slit 50 mm	34-237	
Rectangular form, ISO 1432, 40 x 3 mm	34-239	
Round form Ø 40 mm	34-250	
DIN EN ISO 815, Form A Round form Ø 29 mm *identically constructed:* DIN 53517, Specimen II	34-251	
DIN EN ISO 815, Form B Round form Ø 13 mm *identically constructed:* DIN 53517, Specimen I	34-252	
ASTM D 792 - Density of plastics Round form Ø 30 mm (sample thickness: > 1,5 mm)	34-253	
Round form Ø 50 mm	34-254	
Round form Ø 16 mm	34-255	
Round form Ø 26 mm	34-256	
Round form Ø 38.1 mm DIN EN ISO 12947-1	34-260	
Round form Ø 16.2 mm ISO 4649	34-266	
Round form Ø 38 mm	34-267	
Round form Ø 36.6 mm	34-268	
Round form Ø 33.86 mm	34-269	
Round form Ø 112.86 mm	34-270	
Round form Ø 16 mm	34-271	

DIN ISO 2285:2019, Figure 3 Streifenprobekörper für konstante Spannung ISO 2285:2019, Figure 3 Test piece for constant loading	34-280	
ISO 812 Type B (Low temperature brittleness) *identically constructed:* ASTM D746 (II) BS ISO 812	34-500	
ISO 6383-2 (Elmendorf Tear Test, with slit) *identically constructed:* ASTM D 1922	34-501	
ISO 6383-2 (Elmendorf Tear Test, without slit) *identically constructed:* ASTM D 1922	34-502