

Vrijbuigen van staal : de F-S kromme voor staal SP/D en de specifieke kenmerken

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W-BUIGENTUE

VRIJBUIGEN VAN STAAL

**DE F-S KROMME VOOR STAAL SP/D
EN DE SPECIFIEKE KENMERKEN**

DOOR

ir LJA Houtackers

P Boonen

F Cardinaal

J Kempen

mei 1989

WPA nr 0726

~~VERTROUWELIJK~~

LABORATORIUM voor OMVORMTECHNOLOGIE TUE

SAMENVATTING: VRIJBUIGEN VAN STAAL

Dit rapport bevat de geautomatiseerde opname en verwerking van de F-S krommen van:

STAAL SP/D

Die met behulp van het softwareprogramma PERSPROEF VRIJBUIGEN, voor diverse stempel- en matrijsafrondingen en een variabele matrijswijdte zijn opgenomen.

Tevens zijn van deze F-S krommen de karakteristieke kenmerken in tabelvorm weergegeven.

In dit deel zijn de volgende persproeven opgenomen:

PF891901 t/m PF891950

PF@91951 t/m PF@91957

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S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF891901
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 08-05-89
Aantal metingen : 108
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101210
Proefnummer : V3403.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 64.99
De maximaal optredende perskracht F_{Pmax} [kN] : 0.65
De deelprocesweg bij F_{Pmax} S_N [mm] : 8.44
De totale procesweg S_{tot} [mm] : 39.00
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 30.56
De opgenomen deformatie arbeid W [Nm] : 15.31

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101210

Percecode: PF891901

F_{Pmax} : 0.65 kN

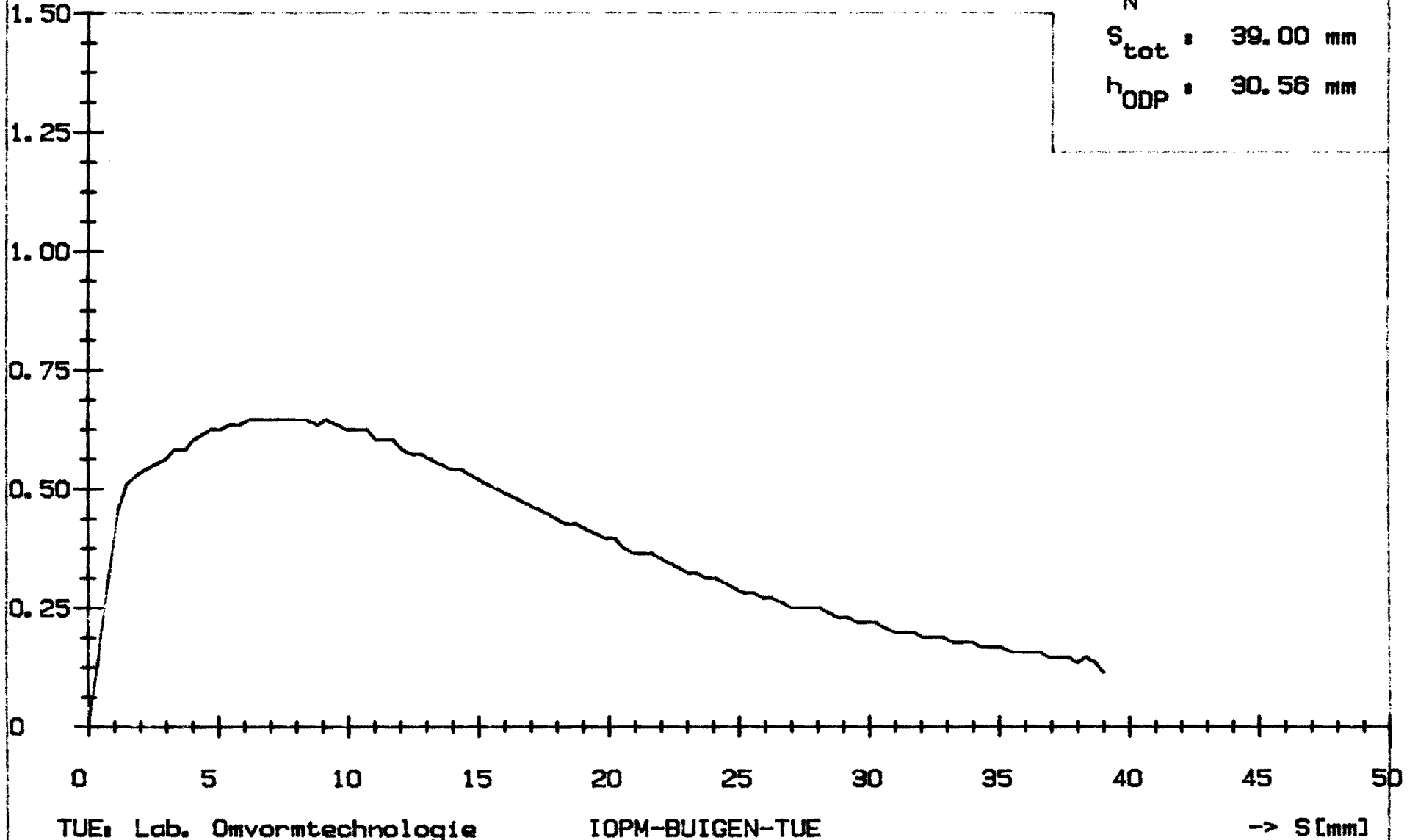
Proefnummer : V3403.3.

Arbeid : 15.31 Nm

S_N : 8.44 mm

S_{tot} : 39.00 mm

h_{ODP} : 30.56 mm



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-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891901

IOPM-BUIGEN-TUE

Plaatcode : F1101210

Proefnummer: V3403.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.01, 0.00)	(0.12, 0.36)	(0.30, 0.72)	(0.46, 1.16)
(0.51, 1.52)	(0.53, 1.88)	(0.54, 2.24)	(0.55, 2.60)
(0.56, 3.00)	(0.58, 3.36)	(0.59, 3.72)	(0.60, 4.08)
(0.61, 4.44)	(0.62, 4.76)	(0.63, 5.12)	(0.63, 5.48)
(0.64, 5.84)	(0.64, 6.24)	(0.65, 6.60)	(0.65, 6.96)
(0.64, 7.32)	(0.65, 7.72)	(0.65, 8.08)	(0.65, 8.44)
(0.64, 8.84)	(0.64, 9.20)	(0.64, 9.60)	(0.63, 10.00)
(0.63, 10.36)	(0.62, 10.72)	(0.61, 11.08)	(0.60, 11.44)
(0.60, 11.76)	(0.59, 12.12)	(0.58, 12.48)	(0.57, 12.84)
(0.56, 13.20)	(0.55, 13.60)	(0.55, 13.96)	(0.54, 14.32)
(0.53, 14.68)	(0.52, 15.00)	(0.51, 15.36)	(0.50, 15.72)
(0.49, 16.12)	(0.48, 16.48)	(0.47, 16.84)	(0.46, 17.28)
(0.45, 17.64)	(0.44, 18.00)	(0.43, 18.36)	(0.42, 18.72)
(0.42, 19.12)	(0.41, 19.48)	(0.40, 19.88)	(0.39, 20.28)
(0.38, 20.60)	(0.37, 20.96)	(0.36, 21.32)	(0.36, 21.68)
(0.35, 22.04)	(0.34, 22.36)	(0.33, 22.72)	(0.33, 23.08)
(0.32, 23.44)	(0.32, 23.76)	(0.31, 24.12)	(0.30, 24.52)
(0.30, 24.84)	(0.29, 25.20)	(0.28, 25.56)	(0.27, 25.92)
(0.27, 26.28)	(0.26, 26.64)	(0.25, 26.96)	(0.25, 27.36)
(0.25, 27.72)	(0.25, 28.08)	(0.24, 28.44)	(0.23, 28.84)
(0.23, 29.20)	(0.22, 29.56)	(0.22, 29.88)	(0.21, 30.24)
(0.21, 30.60)	(0.20, 31.00)	(0.20, 31.36)	(0.20, 31.72)
(0.19, 32.08)	(0.19, 32.48)	(0.18, 32.84)	(0.18, 33.24)
(0.18, 33.60)	(0.18, 34.00)	(0.17, 34.36)	(0.17, 34.72)
(0.17, 35.12)	(0.16, 35.48)	(0.15, 35.84)	(0.16, 36.20)
(0.15, 36.56)	(0.15, 36.88)	(0.15, 37.28)	(0.15, 37.60)
(0.14, 37.96)	(0.14, 38.32)	(0.13, 38.68)	(0.11, 39.00)

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.65
De deelprocesweg bij F_{Pmax}	S_N [mm] :	8.44
De totale procesweg	S_{tot} [mm] :	39.00
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	30.56
De opgenomen deformatie arbeid	W [Nm] :	15.31

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF891902
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 08-05-89
Aantal metingen : 113
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101220
Proefnummer : V4403.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	64.98
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.47
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	9.52
De totale procesweg	S_{tot}	[mm] :	39.28
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	29.76
De opgenomen deformatie arbeid	W	[Nm] :	12.80

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101220

Perscode: PF891902

F_{Pmax} : 0.47 kN

Proefnummer : V4403.3.

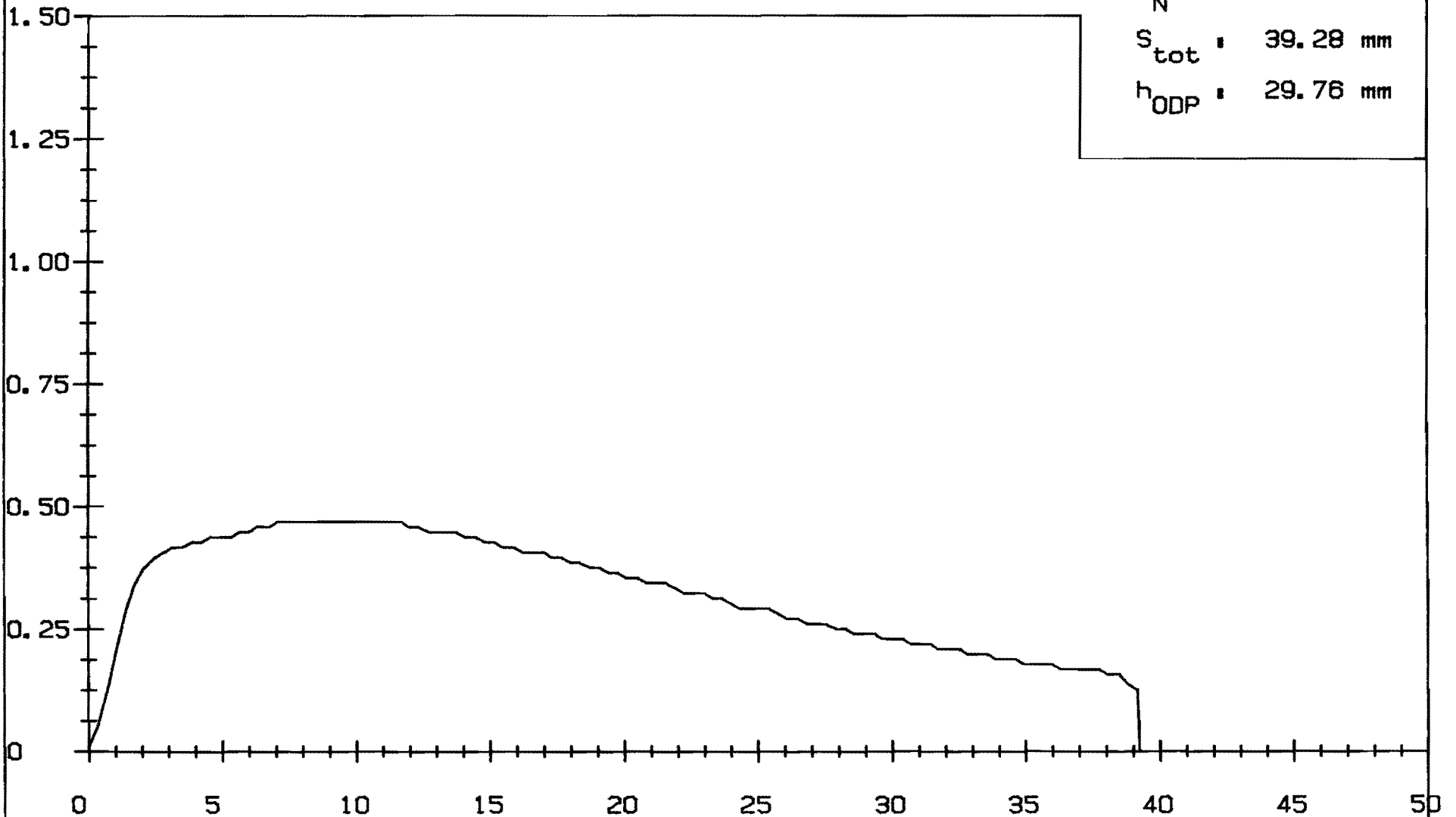
Arbeid : 12.80 Nm

S_N : 9.52 mm

S_{tot} : 39.28 mm

h_{ODP} : 29.76 mm

F_p [kN]



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-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

Perscode : PF891902

IOPM-BUIGEN-TUE

Plaatcode : F1101220

Proefnummer: V4403.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.01, 0.00)	(0.06, 0.36)	(0.14, 0.72)	(0.22, 1.08)
(0.29, 1.44)	(0.34, 1.76)	(0.37, 2.12)	(0.39, 2.48)
(0.41, 2.84)	(0.42, 3.20)	(0.42, 3.52)	(0.43, 3.88)
(0.43, 4.24)	(0.43, 4.60)	(0.44, 4.96)	(0.44, 5.32)
(0.45, 5.64)	(0.45, 6.00)	(0.46, 6.36)	(0.46, 6.72)
(0.46, 7.08)	(0.47, 7.44)	(0.47, 7.76)	(0.47, 8.12)
(0.47, 8.48)	(0.47, 8.84)	(0.47, 9.20)	(0.47, 9.52)
(0.47, 9.88)	(0.47, 10.24)	(0.47, 10.60)	(0.47, 10.96)
(0.47, 11.32)	(0.46, 11.64)	(0.46, 12.00)	(0.46, 12.36)
(0.45, 12.72)	(0.45, 13.08)	(0.45, 13.44)	(0.44, 13.76)
(0.44, 14.12)	(0.44, 14.48)	(0.43, 14.84)	(0.43, 15.20)
(0.42, 15.52)	(0.41, 15.88)	(0.41, 16.24)	(0.41, 16.60)
(0.40, 16.96)	(0.39, 17.32)	(0.39, 17.64)	(0.39, 18.00)
(0.38, 18.36)	(0.38, 18.72)	(0.37, 19.08)	(0.37, 19.44)
(0.36, 19.76)	(0.36, 20.12)	(0.35, 20.48)	(0.35, 20.84)
(0.34, 21.20)	(0.34, 21.52)	(0.33, 21.88)	(0.33, 22.24)
(0.32, 22.60)	(0.32, 22.96)	(0.31, 23.32)	(0.31, 23.64)
(0.30, 24.00)	(0.30, 24.36)	(0.29, 24.72)	(0.29, 25.08)
(0.29, 25.44)	(0.28, 25.76)	(0.27, 26.12)	(0.27, 26.48)
(0.26, 26.84)	(0.26, 27.20)	(0.26, 27.52)	(0.25, 27.88)
(0.25, 28.24)	(0.24, 28.60)	(0.24, 28.96)	(0.24, 29.32)
(0.23, 29.64)	(0.23, 30.00)	(0.22, 30.36)	(0.22, 30.72)
(0.22, 31.08)	(0.21, 31.44)	(0.21, 31.76)	(0.21, 32.12)
(0.21, 32.48)	(0.20, 32.84)	(0.20, 33.20)	(0.20, 33.52)
(0.19, 33.88)	(0.19, 34.24)	(0.18, 34.60)	(0.18, 34.96)
(0.18, 35.32)	(0.18, 35.64)	(0.18, 36.00)	(0.17, 36.36)
(0.17, 36.72)	(0.17, 37.08)	(0.17, 37.44)	(0.16, 37.76)
(0.16, 38.12)	(0.16, 38.48)	(0.14, 38.84)	(0.13, 39.20)
(0.00, 39.28)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.47
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.52
De totale procesweg	S_{tot} [mm] :	39.28
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	29.76
De opgenomen deformatie arbeid	W [Nm] :	12.80

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF891903
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 08-05-89
Aantal metingen : 110
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101230
Proefnummer : V5403.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 64.99
De maximaal optredende perskracht F_{Pmax} [kN] : 0.35
De deelprocesweg bij F_{Pmax} S_N [mm] : 9.96
De totale procesweg S_{tot} [mm] : 39.04
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 29.08
De opgenomen deformatie arbeid W [Nm] : 10.55

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101230

Perscode: PF891903

F_{Pmax} : 0.35 kN

Proefnummer : V5403.3.

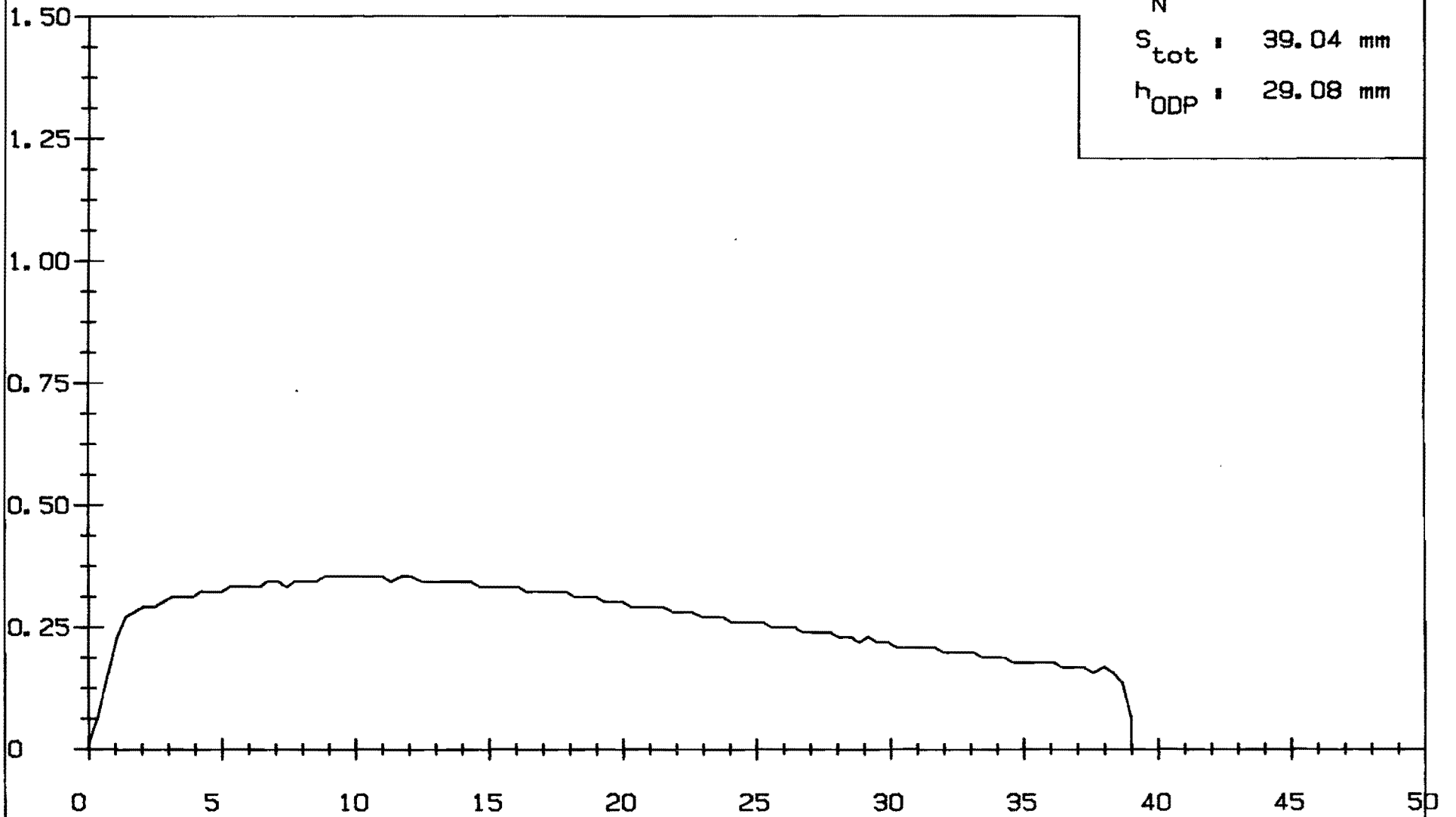
Arbeid : 10.55 Nm

S_N : 9.96 mm

S_{tot} : 39.04 mm

h_{ODP} : 29.08 mm

F_p [kN]



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-> S [mm]

TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

Perscode : PF891903

IOPM-BUIGEN-TUE

Plaatcode : F1101230

Proefnummer: V5403.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.01, 0.00)	(0.06, 0.36)	(0.15, 0.72)	(0.23, 1.08)
(0.27, 1.40)	(0.28, 1.76)	(0.29, 2.12)	(0.29, 2.48)
(0.30, 2.84)	(0.31, 3.20)	(0.31, 3.52)	(0.31, 3.88)
(0.32, 4.24)	(0.32, 4.60)	(0.32, 4.96)	(0.33, 5.32)
(0.33, 5.64)	(0.33, 6.00)	(0.34, 6.40)	(0.34, 6.72)
(0.34, 7.08)	(0.34, 7.40)	(0.34, 7.76)	(0.35, 8.12)
(0.34, 8.48)	(0.35, 8.88)	(0.35, 9.24)	(0.35, 9.60)
(0.35, 9.96)	(0.35, 10.32)	(0.35, 10.64)	(0.35, 11.00)
(0.35, 11.36)	(0.35, 11.72)	(0.35, 12.08)	(0.35, 12.48)
(0.34, 12.88)	(0.34, 13.24)	(0.34, 13.60)	(0.34, 13.96)
(0.34, 14.32)	(0.34, 14.64)	(0.34, 15.00)	(0.33, 15.36)
(0.33, 15.72)	(0.33, 16.08)	(0.33, 16.44)	(0.33, 16.76)
(0.32, 17.12)	(0.32, 17.48)	(0.32, 17.84)	(0.32, 18.24)
(0.31, 18.60)	(0.31, 18.96)	(0.30, 19.32)	(0.30, 19.64)
(0.30, 20.00)	(0.30, 20.36)	(0.29, 20.72)	(0.29, 21.08)
(0.29, 21.48)	(0.28, 21.88)	(0.28, 22.24)	(0.28, 22.60)
(0.28, 22.96)	(0.27, 23.36)	(0.27, 23.72)	(0.27, 24.08)
(0.26, 24.48)	(0.26, 24.88)	(0.26, 25.24)	(0.25, 25.60)
(0.25, 25.96)	(0.25, 26.40)	(0.24, 26.72)	(0.24, 27.08)
(0.24, 27.40)	(0.23, 27.76)	(0.23, 28.12)	(0.23, 28.48)
(0.22, 28.84)	(0.23, 29.20)	(0.22, 29.52)	(0.22, 29.88)
(0.21, 30.28)	(0.21, 30.60)	(0.21, 30.96)	(0.20, 31.32)
(0.21, 31.64)	(0.20, 32.04)	(0.20, 32.36)	(0.20, 32.76)
(0.20, 33.12)	(0.19, 33.48)	(0.19, 33.84)	(0.19, 34.20)
(0.18, 34.64)	(0.18, 35.00)	(0.18, 35.36)	(0.17, 35.76)
(0.17, 36.12)	(0.17, 36.52)	(0.17, 36.88)	(0.17, 37.24)
(0.16, 37.60)	(0.16, 37.96)	(0.16, 38.32)	(0.14, 38.64)
(0.06, 39.00)	(0.00, 39.04)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.35
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.96
De totale procesweg	S_{tot} [mm] :	39.04
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	29.08
De opgenomen deformatie arbeid	W [Nm] :	10.55

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORTEPERS

- PROEFGEGEVENS -

Perscode : PF891904
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 08-05-89
Aantal metingen : 111
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CE2-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101250
Proefnummer : V6403.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	65.00
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.28
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	10.24
De totale procesweg	S_{tot}	[mm] :	38.84
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	28.60
De opgenomen deformatie arbeid	W	[Nm] :	8.90

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101250

Perscode: PF891904

F_{Pmax} : 0.28 kN

Proefnummer : V6403.3.

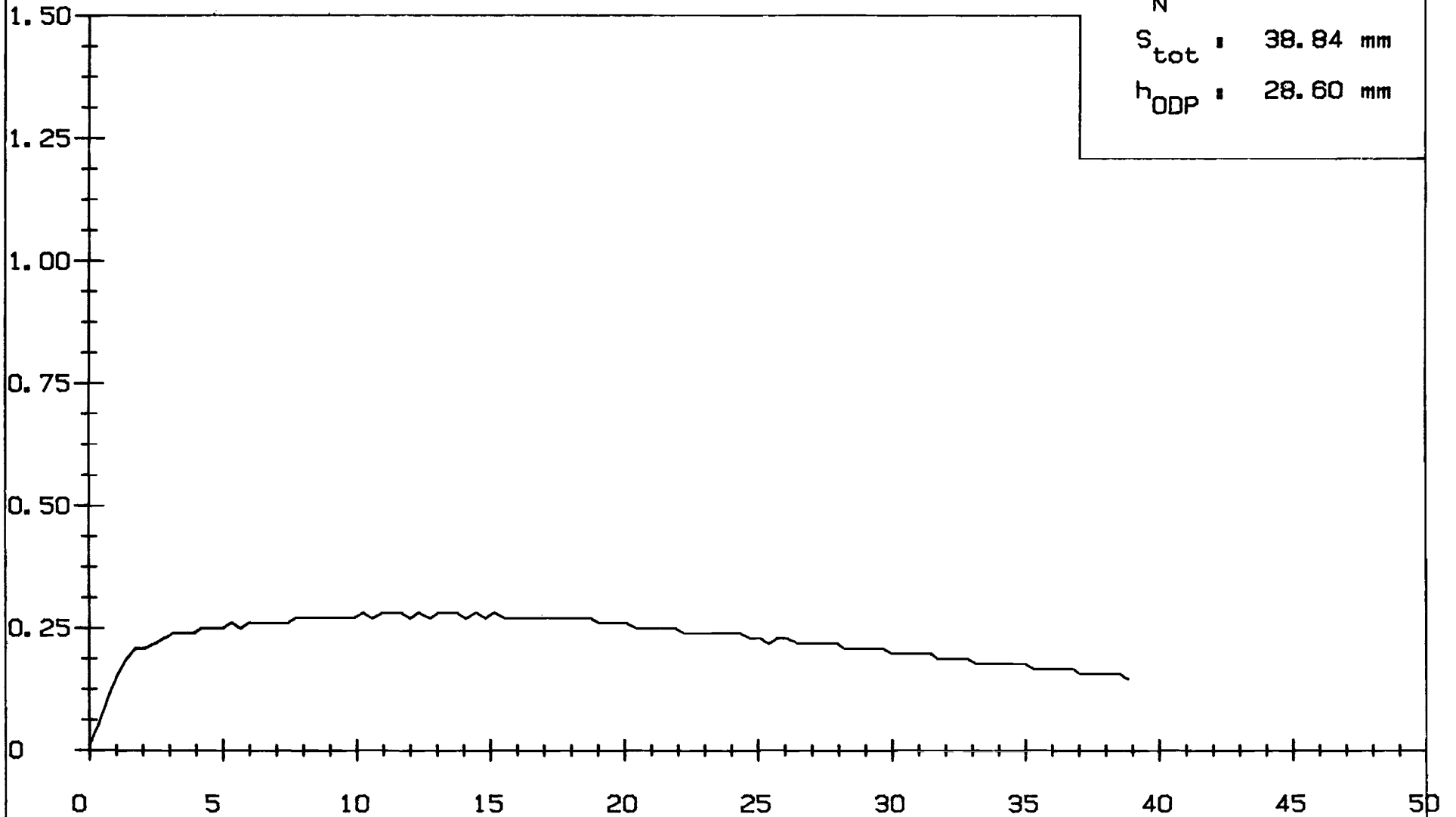
Arbeid : 8.90 Nm

S_N : 10.24 mm

S_{tot} : 38.84 mm

h_{ODP} : 28.60 mm

F_p [kN]



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-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

Perscode : PF891904

IOPM-BUIGEN-TUE

Plaatcode : F1101250

Proefnummer: V6403.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.01, 0.00)	(0.05, 0.36)	(0.11, 0.72)	(0.16, 1.08)
(0.19, 1.44)	(0.20, 1.76)	(0.21, 2.12)	(0.22, 2.48)
(0.23, 2.84)	(0.23, 3.20)	(0.24, 3.56)	(0.24, 3.88)
(0.25, 4.24)	(0.25, 4.60)	(0.25, 4.96)	(0.26, 5.32)
(0.25, 5.64)	(0.26, 6.00)	(0.26, 6.36)	(0.26, 6.72)
(0.26, 7.08)	(0.26, 7.44)	(0.27, 7.76)	(0.27, 8.12)
(0.27, 8.48)	(0.27, 8.84)	(0.27, 9.20)	(0.28, 9.56)
(0.27, 9.88)	(0.28, 10.24)	(0.28, 10.60)	(0.28, 10.96)
(0.28, 11.32)	(0.28, 11.64)	(0.28, 12.00)	(0.28, 12.36)
(0.28, 12.72)	(0.28, 13.08)	(0.28, 13.44)	(0.28, 13.76)
(0.28, 14.12)	(0.28, 14.48)	(0.28, 14.84)	(0.28, 15.20)
(0.27, 15.56)	(0.28, 15.88)	(0.28, 16.24)	(0.27, 16.60)
(0.27, 16.96)	(0.27, 17.32)	(0.27, 17.64)	(0.27, 18.00)
(0.27, 18.36)	(0.27, 18.72)	(0.26, 19.08)	(0.26, 19.44)
(0.26, 19.76)	(0.26, 20.12)	(0.25, 20.48)	(0.25, 20.84)
(0.25, 21.20)	(0.25, 21.56)	(0.25, 21.88)	(0.24, 22.24)
(0.24, 22.60)	(0.24, 22.96)	(0.24, 23.32)	(0.24, 23.64)
(0.24, 24.00)	(0.23, 24.36)	(0.23, 24.72)	(0.23, 25.08)
(0.22, 25.44)	(0.23, 25.76)	(0.23, 26.12)	(0.22, 26.48)
(0.22, 26.84)	(0.22, 27.20)	(0.22, 27.56)	(0.22, 27.88)
(0.21, 28.24)	(0.21, 28.60)	(0.21, 28.96)	(0.21, 29.32)
(0.21, 29.64)	(0.20, 30.00)	(0.20, 30.36)	(0.20, 30.72)
(0.19, 31.08)	(0.20, 31.44)	(0.19, 31.76)	(0.19, 32.12)
(0.19, 32.48)	(0.18, 32.84)	(0.18, 33.20)	(0.18, 33.56)
(0.18, 33.88)	(0.18, 34.24)	(0.18, 34.60)	(0.18, 34.96)
(0.17, 35.32)	(0.17, 35.64)	(0.17, 36.00)	(0.17, 36.36)
(0.17, 36.72)	(0.16, 37.08)	(0.16, 37.44)	(0.16, 37.76)
(0.16, 38.12)	(0.15, 38.48)	(0.14, 38.84)	

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.28
De deelprocesweg bij F_{Pmax}	S_N [mm] :	10.24
De totale procesweg	S_{tot} [mm] :	38.84
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	28.60
De opgenomen deformatie arbeid	W [Nm] :	8.90

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE
STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF891905
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 08-05-89
Aantal metingen : 105
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : F. Cardinaal
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101260
Proefnummer : V2253.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] : 65.00
De maximaal optredende perskracht	F_{Pmax}	[kN] : 1.01
De deelprocesweg bij F_{Pmax}	S_N	[mm] : 5.64
De totale procesweg	S_{tot}	[mm] : 24.48
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] : 18.84
De opgenomen deformatie arbeid	W	[Nm] : 16.30

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101260

Perscode: PF891905

F_{Pmax} : 1.01 kN

Proefnummer : V2253.3.

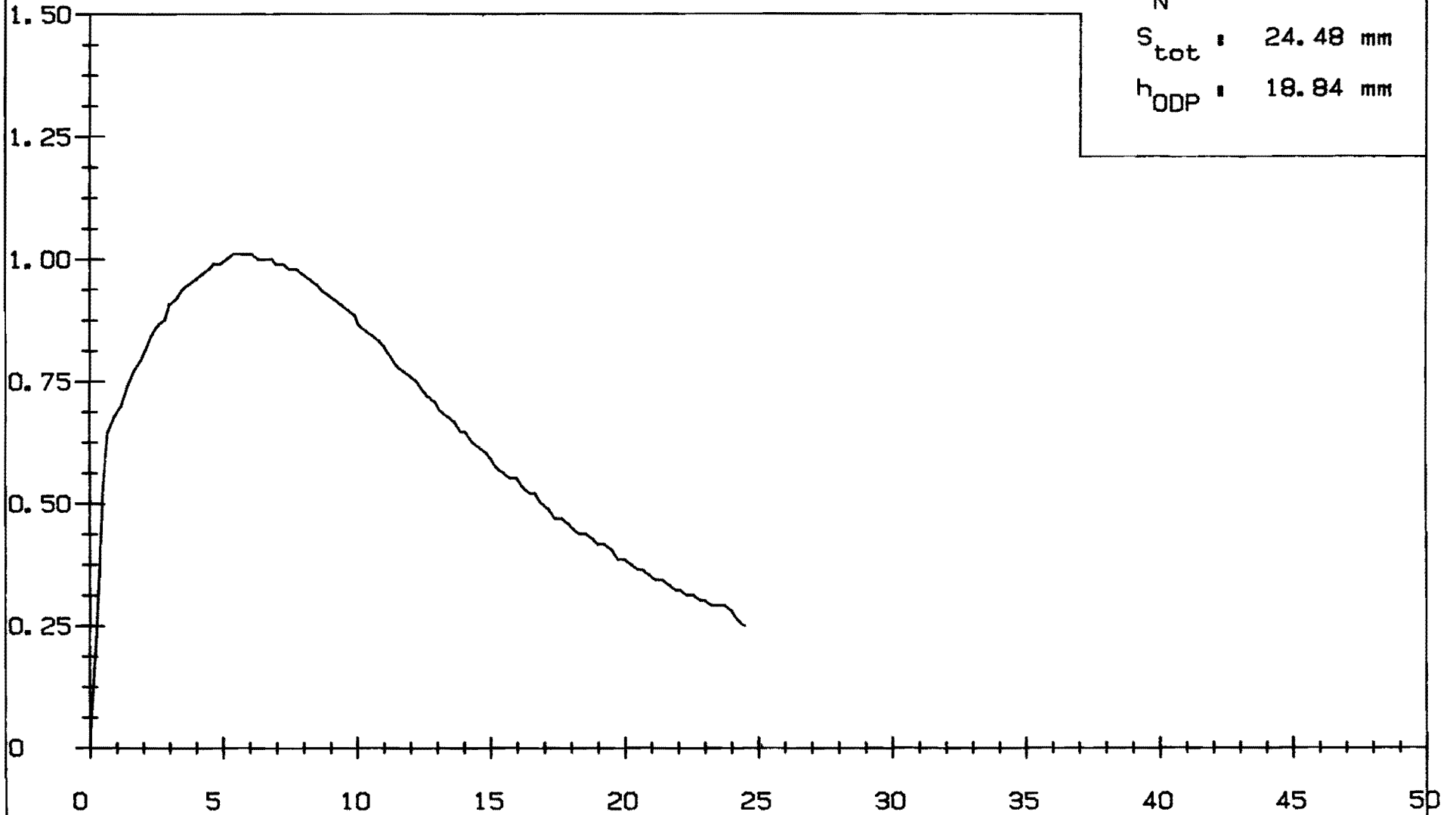
Arbeid : 16.30 Nm

S_N : 5.64 mm

S_{tot} : 24.48 mm

h_{ODP} : 18.84 mm

F_p [kN]



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IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891905

IOPM-BUIGEN-TUE

Plaatcode : F1101260

Proefnummer: V2253.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.01, 0.00)	(0.23, 0.24)	(0.53, 0.48)	(0.65, 0.68)
(0.68, 0.92)	(0.70, 1.16)	(0.74, 1.40)	(0.77, 1.64)
(0.79, 1.88)	(0.81, 2.12)	(0.84, 2.36)	(0.86, 2.56)
(0.88, 2.80)	(0.90, 3.04)	(0.92, 3.28)	(0.94, 3.52)
(0.95, 3.76)	(0.96, 4.00)	(0.97, 4.24)	(0.98, 4.48)
(0.99, 4.68)	(0.99, 4.92)	(1.00, 5.16)	(1.01, 5.40)
(1.01, 5.64)	(1.01, 5.88)	(1.01, 6.12)	(1.00, 6.36)
(1.00, 6.56)	(1.00, 6.80)	(0.99, 7.04)	(0.99, 7.28)
(0.98, 7.52)	(0.98, 7.76)	(0.97, 8.00)	(0.96, 8.24)
(0.95, 8.48)	(0.94, 8.68)	(0.93, 8.92)	(0.92, 9.16)
(0.90, 9.40)	(0.90, 9.64)	(0.88, 9.88)	(0.87, 10.12)
(0.85, 10.36)	(0.84, 10.56)	(0.84, 10.80)	(0.82, 11.04)
(0.80, 11.28)	(0.79, 11.52)	(0.77, 11.76)	(0.76, 12.00)
(0.75, 12.24)	(0.73, 12.48)	(0.72, 12.68)	(0.70, 12.92)
(0.69, 13.16)	(0.67, 13.40)	(0.67, 13.64)	(0.65, 13.88)
(0.64, 14.12)	(0.62, 14.36)	(0.61, 14.56)	(0.60, 14.80)
(0.59, 15.04)	(0.58, 15.28)	(0.56, 15.52)	(0.56, 15.76)
(0.55, 16.00)	(0.53, 16.24)	(0.52, 16.48)	(0.52, 16.68)
(0.50, 16.92)	(0.49, 17.16)	(0.47, 17.40)	(0.47, 17.64)
(0.46, 17.88)	(0.45, 18.12)	(0.44, 18.36)	(0.44, 18.56)
(0.43, 18.80)	(0.42, 19.04)	(0.41, 19.28)	(0.40, 19.52)
(0.39, 19.76)	(0.38, 20.00)	(0.37, 20.24)	(0.37, 20.48)
(0.36, 20.68)	(0.35, 20.92)	(0.35, 21.16)	(0.34, 21.40)
(0.33, 21.64)	(0.33, 21.88)	(0.32, 22.12)	(0.32, 22.36)
(0.31, 22.56)	(0.31, 22.80)	(0.30, 23.04)	(0.30, 23.28)
(0.29, 23.52)	(0.29, 23.76)	(0.28, 24.00)	(0.27, 24.24)
(0.25, 24.48)			

De maximaal optredende perskracht	F_{Pmax}	[kN] :	1.01
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	5.64
De totale procesweg	S_{tot}	[mm] :	24.48
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	18.84
De opgenomen deformatie arbeid	W	[Nm] :	16.30

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF891906
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 08-05-89
Aantal metingen : 105
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CE2-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101280
Proefnummer : V3253.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 64.97
De maximaal optredende perskracht F_{Pmax} [kN] : 0.63
De deelprocesweg bij F_{Pmax} S_N [mm] : 7.12
De totale procesweg S_{tot} [mm] : 24.56
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 17.44
De opgenomen deformatie arbeid W [Nm] : 11.86

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101280

Perescode: PF891906

F_{Pmax} : 0.63 kN

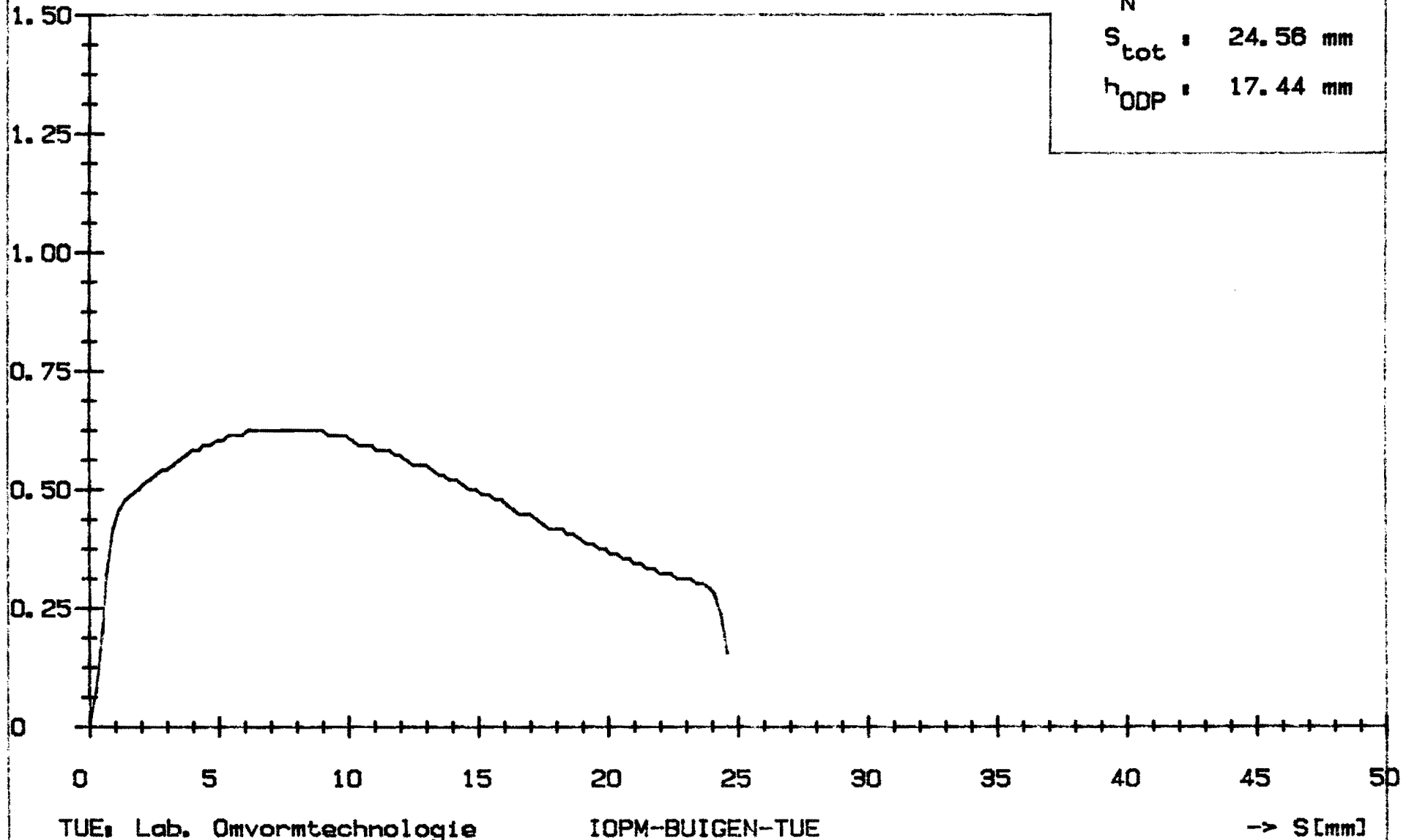
Proefnummer : V3253.3.

Arbeid : 11.86 Nm

S_N : 7.12 mm

S_{tot} : 24.56 mm

h_{ODP} : 17.44 mm



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-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891906

IOPM-BUIGEN-TUE

Plaatcode : F1101280

Proefnummer: V3253.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.01, 0.00)	(0.07, 0.24)	(0.20, 0.48)	(0.32, 0.68)
(0.41, 0.92)	(0.45, 1.16)	(0.48, 1.40)	(0.49, 1.64)
(0.50, 1.88)	(0.51, 2.12)	(0.52, 2.36)	(0.53, 2.56)
(0.54, 2.80)	(0.55, 3.04)	(0.56, 3.28)	(0.56, 3.52)
(0.57, 3.76)	(0.58, 4.00)	(0.59, 4.24)	(0.59, 4.44)
(0.59, 4.68)	(0.60, 4.96)	(0.60, 5.16)	(0.61, 5.40)
(0.61, 5.68)	(0.62, 5.92)	(0.62, 6.16)	(0.63, 6.40)
(0.63, 6.64)	(0.63, 6.88)	(0.63, 7.12)	(0.63, 7.36)
(0.63, 7.60)	(0.63, 7.80)	(0.62, 8.04)	(0.62, 8.28)
(0.62, 8.52)	(0.62, 8.76)	(0.62, 9.00)	(0.62, 9.24)
(0.61, 9.48)	(0.61, 9.68)	(0.61, 9.92)	(0.60, 10.16)
(0.60, 10.40)	(0.59, 10.64)	(0.59, 10.88)	(0.59, 11.12)
(0.58, 11.36)	(0.58, 11.56)	(0.58, 11.80)	(0.57, 12.04)
(0.56, 12.28)	(0.56, 12.52)	(0.56, 12.76)	(0.55, 13.00)
(0.54, 13.24)	(0.53, 13.48)	(0.53, 13.68)	(0.52, 13.92)
(0.52, 14.16)	(0.51, 14.44)	(0.51, 14.68)	(0.50, 14.92)
(0.49, 15.16)	(0.49, 15.40)	(0.48, 15.64)	(0.47, 15.88)
(0.47, 16.12)	(0.46, 16.36)	(0.45, 16.56)	(0.45, 16.80)
(0.44, 17.04)	(0.44, 17.28)	(0.43, 17.52)	(0.42, 17.76)
(0.41, 18.00)	(0.41, 18.24)	(0.41, 18.44)	(0.40, 18.68)
(0.39, 18.92)	(0.39, 19.16)	(0.39, 19.40)	(0.38, 19.64)
(0.37, 19.88)	(0.36, 20.12)	(0.36, 20.36)	(0.36, 20.56)
(0.35, 20.80)	(0.35, 21.04)	(0.34, 21.28)	(0.34, 21.52)
(0.33, 21.76)	(0.32, 22.00)	(0.32, 22.24)	(0.32, 22.44)
(0.31, 22.68)	(0.31, 22.92)	(0.31, 23.16)	(0.30, 23.40)
(0.30, 23.64)	(0.29, 23.88)	(0.28, 24.12)	(0.24, 24.36)
(0.16, 24.56)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.63
De deelprocesweg bij F_{Pmax}	S_N [mm] :	7.12
De totale procesweg	S_{tot} [mm] :	24.56
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	17.44
De opgenomen deformatie arbeid	W [Nm] :	11.86

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF891907
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 08-05-89
Aantal metingen : 106
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101290
Proefnummer : V4253.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	64.98
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.46
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	9.28
De totale procesweg	S_{tot}	[mm] :	24.48
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	15.20
De opgenomen deformatie arbeid	W	[Nm] :	9.33

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]

[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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\hat{F}_p [kN]

Plaatcode : F1101290

Perscode: PF891907

F_{Pmax} : 0.46 kN

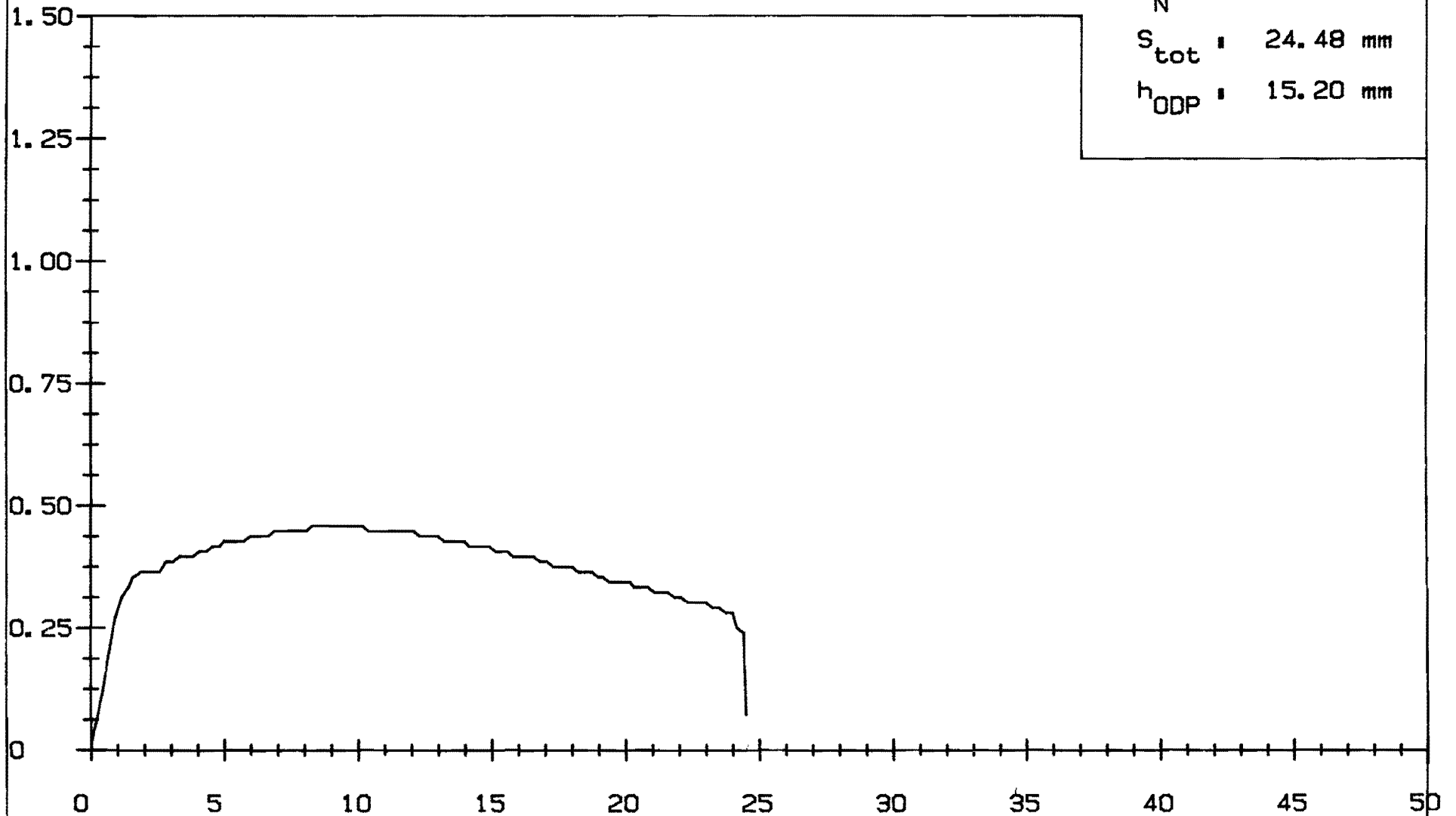
Proefnummer : V4253.3.

Arbeid : 9.33 Nm

S_N : 9.28 mm

S_{tot} : 24.48 mm

h_{ODP} : 15.20 mm



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IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891907

IOPM-BUIGEN-TUE

Plaatcode : F1101290

Proefnummer: V4253.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.01, 0.00)	(0.05, 0.20)	(0.12, 0.44)	(0.20, 0.68)
(0.27, 0.92)	(0.31, 1.16)	(0.34, 1.40)	(0.35, 1.60)
(0.36, 1.88)	(0.36, 2.08)	(0.37, 2.32)	(0.37, 2.56)
(0.38, 2.84)	(0.38, 3.08)	(0.39, 3.32)	(0.40, 3.56)
(0.40, 3.80)	(0.41, 4.08)	(0.41, 4.32)	(0.42, 4.56)
(0.42, 4.80)	(0.42, 5.04)	(0.43, 5.28)	(0.43, 5.48)
(0.43, 5.72)	(0.43, 5.96)	(0.44, 6.20)	(0.44, 6.44)
(0.44, 6.68)	(0.45, 6.92)	(0.45, 7.16)	(0.45, 7.40)
(0.45, 7.60)	(0.45, 7.84)	(0.45, 8.08)	(0.45, 8.32)
(0.45, 8.56)	(0.45, 8.80)	(0.45, 9.04)	(0.46, 9.28)
(0.46, 9.48)	(0.45, 9.72)	(0.45, 9.96)	(0.45, 10.20)
(0.45, 10.44)	(0.45, 10.68)	(0.45, 10.92)	(0.45, 11.16)
(0.45, 11.40)	(0.45, 11.60)	(0.44, 11.84)	(0.44, 12.08)
(0.44, 12.32)	(0.44, 12.56)	(0.44, 12.80)	(0.43, 13.04)
(0.43, 13.28)	(0.43, 13.48)	(0.43, 13.72)	(0.43, 13.96)
(0.42, 14.20)	(0.42, 14.44)	(0.42, 14.68)	(0.42, 14.92)
(0.41, 15.16)	(0.41, 15.40)	(0.40, 15.60)	(0.40, 15.84)
(0.40, 16.08)	(0.39, 16.36)	(0.39, 16.60)	(0.38, 16.84)
(0.38, 17.08)	(0.38, 17.32)	(0.38, 17.56)	(0.37, 17.80)
(0.37, 18.04)	(0.37, 18.28)	(0.36, 18.48)	(0.36, 18.72)
(0.36, 18.96)	(0.35, 19.20)	(0.35, 19.44)	(0.35, 19.68)
(0.34, 19.92)	(0.34, 20.16)	(0.34, 20.36)	(0.33, 20.64)
(0.33, 20.84)	(0.32, 21.12)	(0.32, 21.32)	(0.32, 21.60)
(0.31, 21.84)	(0.31, 22.08)	(0.31, 22.32)	(0.31, 22.56)
(0.30, 22.80)	(0.30, 23.04)	(0.29, 23.28)	(0.29, 23.48)
(0.29, 23.72)	(0.28, 23.96)	(0.25, 24.20)	(0.24, 24.44)
(0.07, 24.48)	(0.07, 24.48)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.46
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.28
De totale procesweg	S_{tot} [mm] :	24.48
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	15.20
De opgenomen deformatie arbeid	W [Nm] :	9.33

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORTE PERS

- PROEFGEGEVENS -

Perscode : PF891908
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 08-05-89
Aantal metingen : 106
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101200
Proefnummer : V5253.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	64.98
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.35
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	11.04
De totale procesweg	S_{tot}	[mm] :	24.40
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	13.36
De opgenomen deformatie arbeid	W	[Nm] :	7.36

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101200

Perscode: PF891908

F_{Pmax} : 0.35 kN

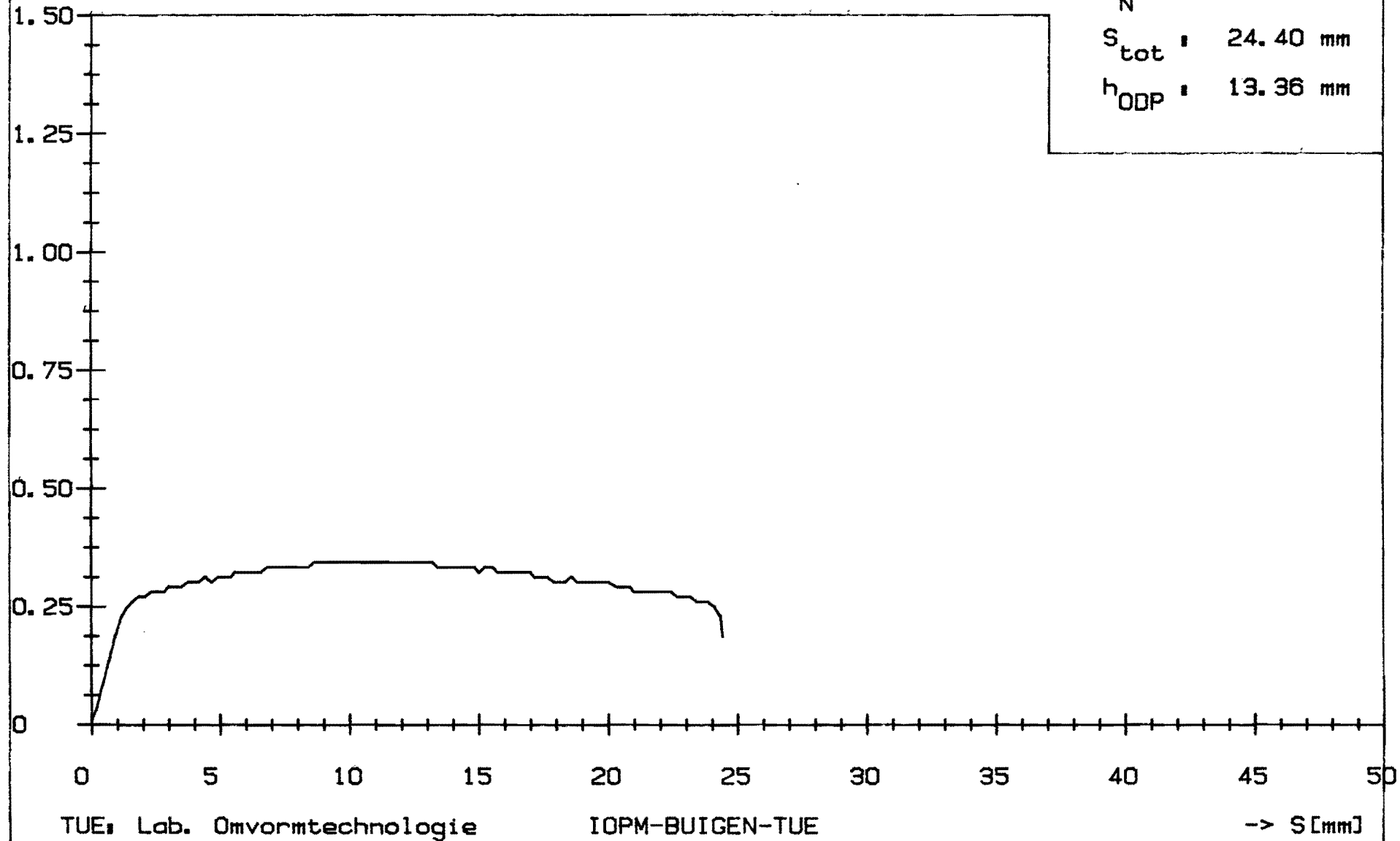
Proefnummer : V5253.3.

Arbeid : 7.36 Nm

S_N : 11.04 mm

S_{tot} : 24.40 mm

h_{ODP} : 13.36 mm



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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891908

IOPM-BUIGEN-TUE

Plaatcode : F1101200

Proefnummer: V5253.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.01, 0.00)	(0.03, 0.20)	(0.08, 0.44)	(0.14, 0.68)
(0.19, 0.92)	(0.23, 1.16)	(0.25, 1.40)	(0.26, 1.60)
(0.27, 1.84)	(0.27, 2.08)	(0.28, 2.32)	(0.28, 2.56)
(0.28, 2.80)	(0.29, 3.04)	(0.29, 3.28)	(0.30, 3.48)
(0.30, 3.72)	(0.30, 3.96)	(0.31, 4.20)	(0.31, 4.44)
(0.31, 4.68)	(0.31, 4.92)	(0.31, 5.16)	(0.32, 5.40)
(0.32, 5.60)	(0.32, 5.84)	(0.33, 6.08)	(0.32, 6.32)
(0.33, 6.56)	(0.33, 6.80)	(0.33, 7.04)	(0.33, 7.28)
(0.33, 7.48)	(0.33, 7.72)	(0.33, 7.96)	(0.34, 8.20)
(0.34, 8.44)	(0.34, 8.68)	(0.34, 8.92)	(0.34, 9.16)
(0.34, 9.40)	(0.34, 9.60)	(0.34, 9.84)	(0.34, 10.08)
(0.34, 10.32)	(0.34, 10.56)	(0.34, 10.80)	(0.35, 11.04)
(0.34, 11.28)	(0.34, 11.48)	(0.34, 11.72)	(0.34, 11.96)
(0.34, 12.20)	(0.34, 12.44)	(0.34, 12.68)	(0.34, 12.92)
(0.34, 13.16)	(0.33, 13.40)	(0.33, 13.60)	(0.33, 13.84)
(0.34, 14.08)	(0.34, 14.32)	(0.33, 14.56)	(0.33, 14.80)
(0.33, 15.04)	(0.33, 15.28)	(0.33, 15.48)	(0.33, 15.72)
(0.33, 15.96)	(0.32, 16.20)	(0.32, 16.44)	(0.32, 16.68)
(0.32, 16.96)	(0.31, 17.20)	(0.31, 17.44)	(0.31, 17.68)
(0.31, 17.92)	(0.31, 18.16)	(0.31, 18.36)	(0.31, 18.60)
(0.30, 18.84)	(0.30, 19.12)	(0.30, 19.32)	(0.30, 19.56)
(0.30, 19.80)	(0.30, 20.04)	(0.29, 20.32)	(0.29, 20.56)
(0.29, 20.80)	(0.29, 21.04)	(0.28, 21.28)	(0.29, 21.48)
(0.28, 21.72)	(0.28, 21.96)	(0.28, 22.20)	(0.28, 22.44)
(0.27, 22.68)	(0.27, 22.92)	(0.27, 23.16)	(0.26, 23.40)
(0.26, 23.60)	(0.26, 23.84)	(0.25, 24.08)	(0.23, 24.32)
(0.18, 24.40)	(0.18, 24.40)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.35
De deelprocesweg bij F_{Pmax}	S_N [mm] :	11.04
De totale procesweg	S_{tot} [mm] :	24.40
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	13.36
De opgenomen deformatie arbeid	W [Nm] :	7.36

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF891909
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 08-05-89
Aantal metingen : 104
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101100
Proefnummer : V6253.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 64.96
De maximaal optredende perskracht F_{Pmax} [kN] : 0.28
De deelprocesweg bij F_{Pmax} S_N [mm] : 10.12
De totale procesweg S_{tot} [mm] : 24.24
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 14.12
De opgenomen deformatie arbeid W [Nm] : 6.06

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101100

Perescode: PF891909

F_{Pmax} : 0.28 kN

Proefnummer : V6253.3.

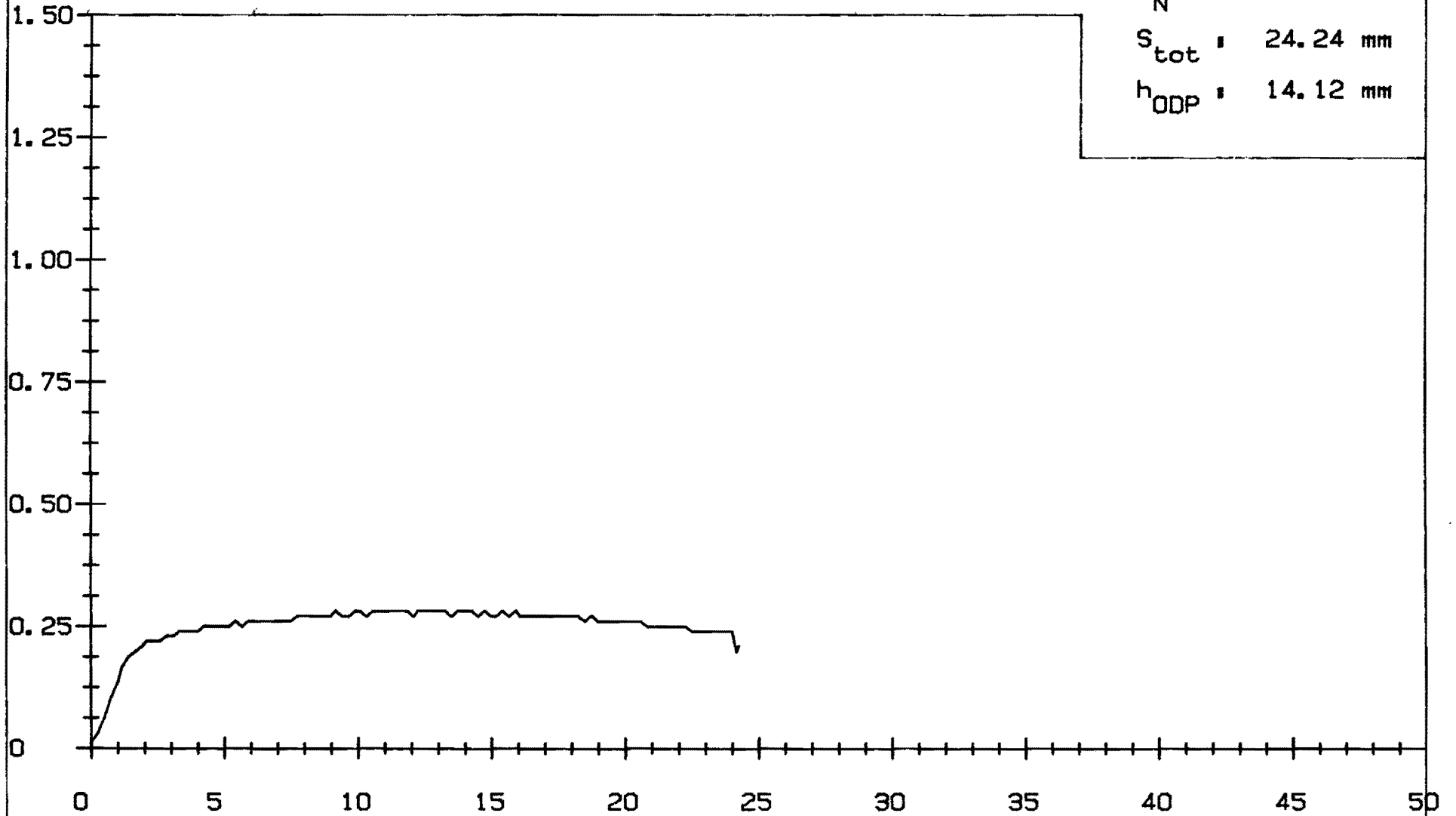
Arbeid : 6.06 Nm

S_N : 10.12 mm

S_{tot} : 24.24 mm

h_{ODP} : 14.12 mm

F_p [kN]



TUE Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

Perscode : PF891909

IOPM-BUIGEN-TUE

Plaatcode : F1101100

Proefnummer: V6253.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.01, 0.00)	(0.03, 0.24)	(0.06, 0.48)	(0.10, 0.72)
(0.14, 0.96)	(0.17, 1.20)	(0.18, 1.40)	(0.20, 1.64)
(0.21, 1.88)	(0.22, 2.12)	(0.22, 2.36)	(0.22, 2.60)
(0.23, 2.84)	(0.23, 3.08)	(0.24, 3.32)	(0.24, 3.52)
(0.24, 3.76)	(0.24, 4.00)	(0.25, 4.24)	(0.25, 4.48)
(0.25, 4.72)	(0.25, 4.96)	(0.25, 5.20)	(0.26, 5.40)
(0.25, 5.64)	(0.26, 5.88)	(0.26, 6.12)	(0.26, 6.36)
(0.26, 6.60)	(0.26, 6.84)	(0.26, 7.08)	(0.26, 7.32)
(0.26, 7.52)	(0.27, 7.76)	(0.27, 8.00)	(0.27, 8.24)
(0.27, 8.48)	(0.27, 8.72)	(0.27, 8.96)	(0.28, 9.20)
(0.27, 9.40)	(0.27, 9.64)	(0.28, 9.88)	(0.28, 10.12)
(0.27, 10.36)	(0.28, 10.60)	(0.28, 10.84)	(0.28, 11.08)
(0.28, 11.36)	(0.28, 11.60)	(0.28, 11.84)	(0.27, 12.08)
(0.28, 12.28)	(0.28, 12.52)	(0.28, 12.76)	(0.28, 13.00)
(0.28, 13.24)	(0.27, 13.48)	(0.28, 13.72)	(0.28, 13.96)
(0.28, 14.24)	(0.27, 14.48)	(0.28, 14.72)	(0.27, 14.96)
(0.27, 15.20)	(0.28, 15.40)	(0.27, 15.64)	(0.28, 15.88)
(0.27, 16.12)	(0.27, 16.36)	(0.27, 16.60)	(0.27, 16.84)
(0.27, 17.08)	(0.27, 17.32)	(0.27, 17.52)	(0.27, 17.76)
(0.27, 18.00)	(0.27, 18.24)	(0.26, 18.48)	(0.27, 18.72)
(0.26, 18.96)	(0.26, 19.20)	(0.26, 19.40)	(0.26, 19.64)
(0.26, 19.88)	(0.26, 20.12)	(0.26, 20.36)	(0.26, 20.60)
(0.25, 20.84)	(0.25, 21.08)	(0.25, 21.32)	(0.25, 21.52)
(0.25, 21.76)	(0.25, 22.00)	(0.25, 22.24)	(0.24, 22.48)
(0.24, 22.72)	(0.24, 22.96)	(0.24, 23.24)	(0.24, 23.48)
(0.24, 23.72)	(0.24, 23.96)	(0.20, 24.20)	(0.21, 24.24)

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.28
De deelprocesweg bij F_{Pmax}	S_N [mm] :	10.12
De totale procesweg	S_{tot} [mm] :	24.24
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	14.12
De opgenomen deformatie arbeid	W [Nm] :	6.06

TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE
S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF891910
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 104
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
 Plaatcode : F1101320
 Proefnummer : V2103.3.

- OVERZICHT GEGEVENS UIT P-S KROMME -

Beginbreedte van de plaat b [mm] : 65.01
De maximaal optredende perskracht F_{Pmax} [kN] : 1.03
De deelprocesweg bij F_{Pmax} S_N [mm] : 5.76
De totale procesweg S_{tot} [mm] : 9.40
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 3.64
De opgenomen deformatie arbeid W [Nm] : 8.09

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101320

Perescode: PF891910

F_{Pmax} : 1.03 kN

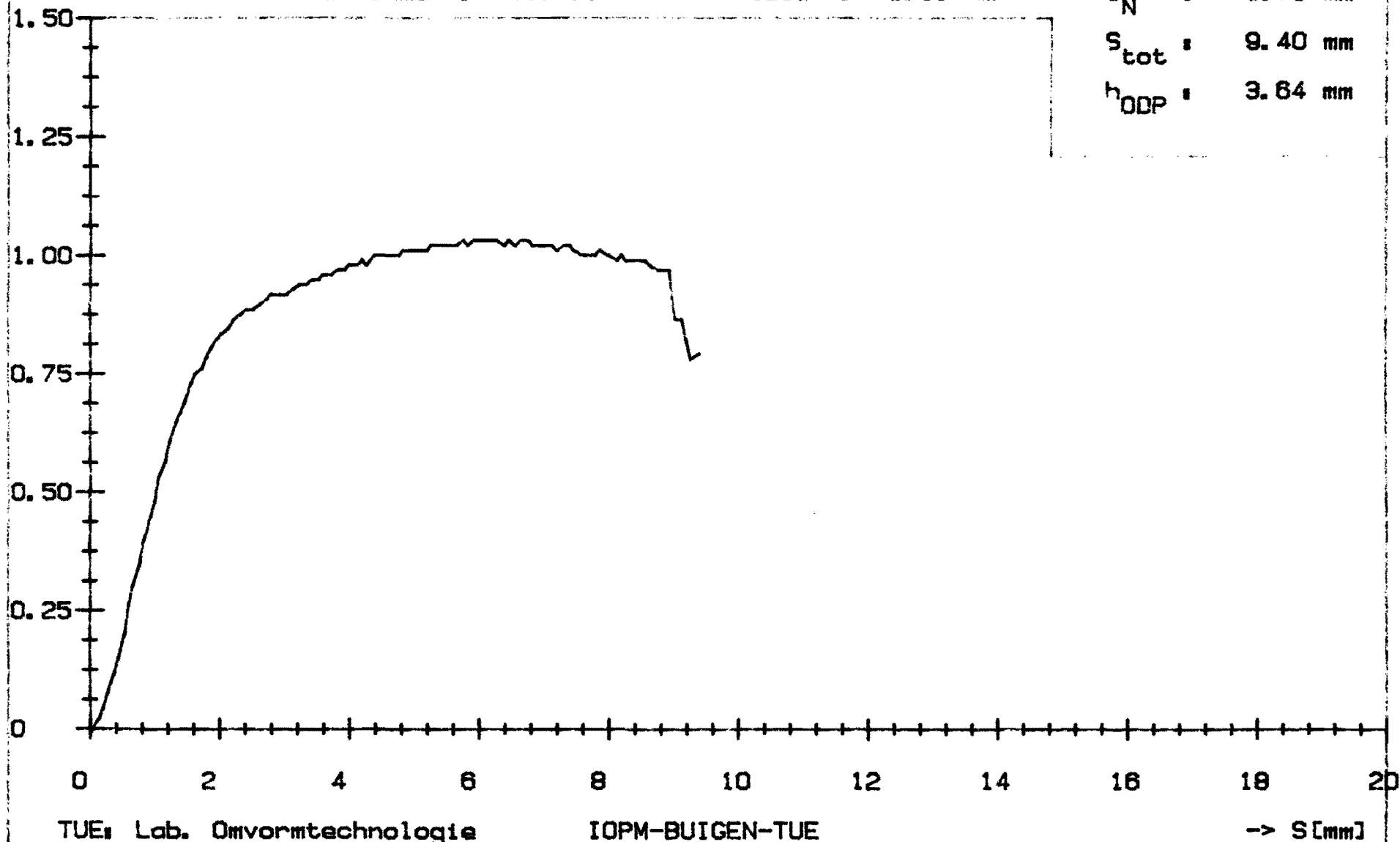
Proefnummer : V2103.3.

Arbeid : 8.09 Nm

S_N : 5.76 mm

S_{tot} : 9.40 mm

h_{ODP} : 3.64 mm



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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891910

IOPM-BUIGEN-TUE

Plaatcode : F1101320

Proefnummer: V2103.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.01, 0.00)	(0.03, 0.12)	(0.04, 0.20)	(0.08, 0.28)
(0.11, 0.36)	(0.15, 0.44)	(0.20, 0.52)	(0.26, 0.60)
(0.30, 0.68)	(0.35, 0.76)	(0.39, 0.84)	(0.45, 0.92)
(0.48, 1.00)	(0.53, 1.08)	(0.56, 1.16)	(0.60, 1.24)
(0.64, 1.32)	(0.66, 1.40)	(0.69, 1.48)	(0.73, 1.56)
(0.75, 1.64)	(0.77, 1.72)	(0.78, 1.80)	(0.80, 1.88)
(0.82, 1.96)	(0.84, 2.04)	(0.84, 2.12)	(0.87, 2.24)
(0.87, 2.32)	(0.89, 2.44)	(0.89, 2.52)	(0.90, 2.64)
(0.91, 2.72)	(0.91, 2.80)	(0.91, 2.92)	(0.92, 3.04)
(0.93, 3.12)	(0.94, 3.24)	(0.94, 3.32)	(0.95, 3.44)
(0.95, 3.52)	(0.95, 3.60)	(0.96, 3.72)	(0.96, 3.84)
(0.97, 3.92)	(0.98, 4.00)	(0.98, 4.12)	(0.99, 4.20)
(0.98, 4.28)	(1.00, 4.40)	(1.00, 4.48)	(1.00, 4.56)
(1.00, 4.64)	(1.00, 4.76)	(1.01, 4.84)	(1.01, 4.92)
(1.01, 5.04)	(1.01, 5.12)	(1.01, 5.20)	(1.02, 5.28)
(1.02, 5.40)	(1.02, 5.48)	(1.02, 5.56)	(1.02, 5.68)
(1.03, 5.76)	(1.02, 5.84)	(1.03, 5.92)	(1.03, 6.00)
(1.03, 6.12)	(1.03, 6.20)	(1.03, 6.28)	(1.02, 6.40)
(1.03, 6.48)	(1.02, 6.56)	(1.03, 6.68)	(1.03, 6.76)
(1.02, 6.84)	(1.02, 6.92)	(1.02, 7.04)	(1.02, 7.12)
(1.01, 7.20)	(1.02, 7.32)	(1.02, 7.40)	(1.01, 7.48)
(1.00, 7.60)	(1.00, 7.72)	(1.00, 7.80)	(1.01, 7.88)
(1.00, 8.00)	(0.99, 8.12)	(1.00, 8.20)	(0.99, 8.28)
(0.99, 8.40)	(0.99, 8.48)	(0.99, 8.56)	(0.98, 8.64)
(0.97, 8.76)	(0.97, 8.84)	(0.97, 8.92)	(0.87, 9.04)
(0.86, 9.12)	(0.83, 9.20)	(0.78, 9.28)	(0.79, 9.40)

De maximaal optredende perskracht	F_{Pmax} [kN] :	1.03
De deelprocesweg bij F_{Pmax}	S_N [mm] :	5.76
De totale procesweg	S_{tot} [mm] :	9.40
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	3.64
De opgenomen deformatie arbeid	W [Nm] :	8.09

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEPGEGEVENS -

Perscode : PF891911
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 97
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101330
Proefnummer : V3103.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 65.01
De maximaal optredende perskracht F_{Pmax} [kN] : 0.67
De deelprocesweg bij F_{Pmax} S_N [mm] : 7.76
De totale procesweg S_{tot} [mm] : 9.56
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 1.80
De opgenomen deformatie arbeid W [Nm] : 5.02

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101330

Perscode: PF891911

F_{Pmax} : 0.67 kN

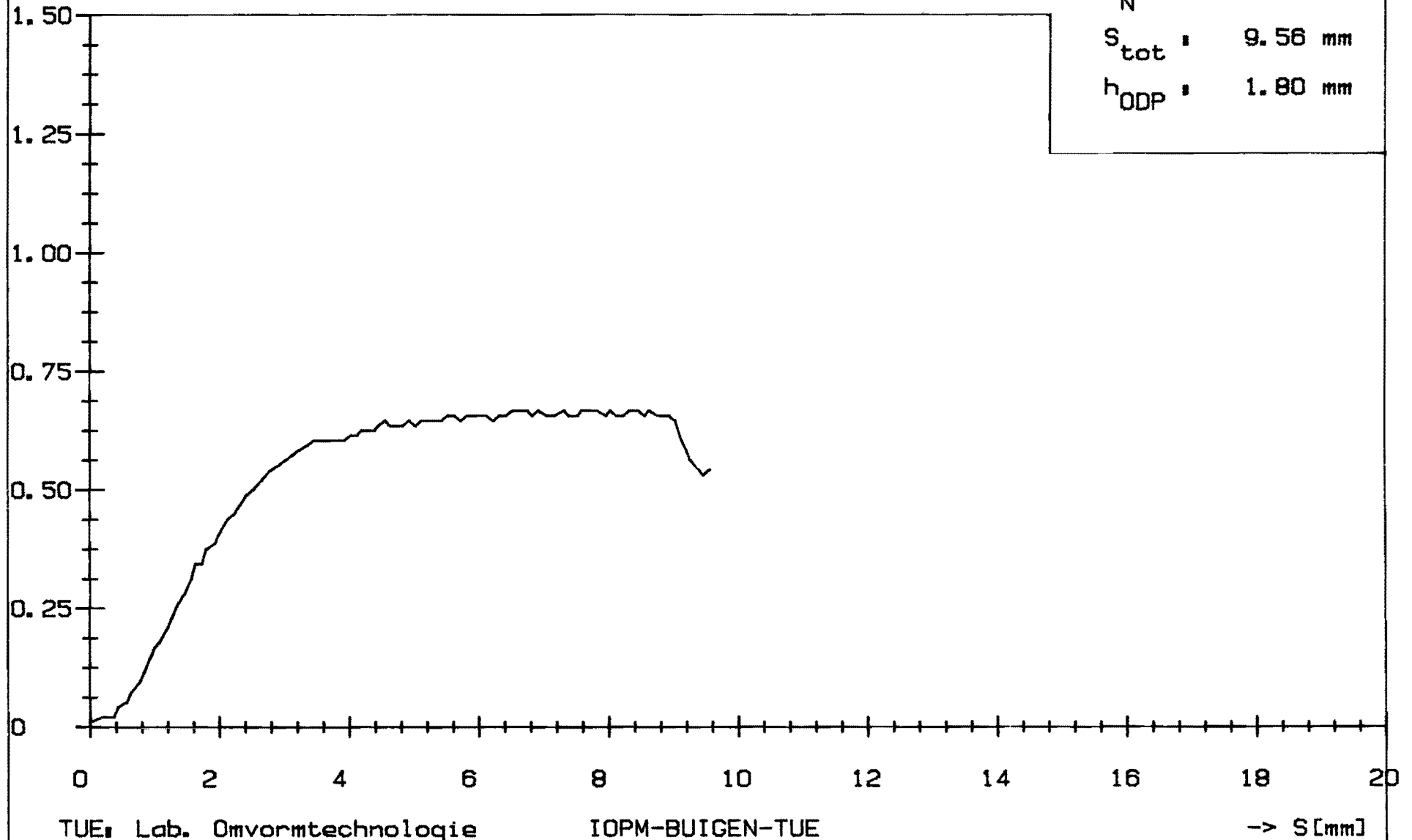
Proefnummer : V3103.3.

Arbeid : 5.02 Nm

S_N : 7.76 mm

S_{tot} : 9.56 mm

h_{ODP} : 1.80 mm



TUE, Lab. Omvormtechnologie

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-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode ; PF891911

IOPM-BUIGEN-TUE

Plaatcode ; F1101330

Proefnummer: V3103.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.01, 0.00)	(0.02, 0.20)	(0.02, 0.28)	(0.03, 0.36)
(0.04, 0.44)	(0.05, 0.56)	(0.07, 0.64)	(0.10, 0.76)
(0.12, 0.84)	(0.15, 0.92)	(0.16, 1.00)	(0.18, 1.08)
(0.21, 1.20)	(0.23, 1.28)	(0.26, 1.36)	(0.28, 1.48)
(0.31, 1.56)	(0.34, 1.64)	(0.35, 1.72)	(0.37, 1.80)
(0.39, 1.92)	(0.41, 2.00)	(0.44, 2.12)	(0.45, 2.24)
(0.47, 2.32)	(0.49, 2.44)	(0.50, 2.52)	(0.52, 2.68)
(0.55, 2.80)	(0.55, 2.92)	(0.56, 3.04)	(0.57, 3.12)
(0.58, 3.24)	(0.59, 3.36)	(0.60, 3.48)	(0.61, 3.60)
(0.61, 3.72)	(0.61, 3.84)	(0.61, 3.92)	(0.61, 4.04)
(0.62, 4.12)	(0.62, 4.20)	(0.62, 4.28)	(0.62, 4.40)
(0.64, 4.48)	(0.64, 4.56)	(0.63, 4.64)	(0.63, 4.76)
(0.64, 4.84)	(0.64, 4.92)	(0.64, 5.04)	(0.65, 5.12)
(0.64, 5.20)	(0.64, 5.28)	(0.64, 5.44)	(0.65, 5.52)
(0.65, 5.64)	(0.65, 5.72)	(0.65, 5.84)	(0.65, 5.92)
(0.66, 6.04)	(0.66, 6.12)	(0.65, 6.24)	(0.66, 6.32)
(0.66, 6.44)	(0.66, 6.52)	(0.66, 6.68)	(0.67, 6.76)
(0.66, 6.84)	(0.66, 6.92)	(0.66, 7.08)	(0.66, 7.16)
(0.66, 7.32)	(0.66, 7.40)	(0.66, 7.52)	(0.66, 7.60)
(0.67, 7.76)	(0.66, 7.84)	(0.66, 7.96)	(0.66, 8.04)
(0.66, 8.12)	(0.66, 8.24)	(0.67, 8.32)	(0.67, 8.40)
(0.66, 8.48)	(0.66, 8.56)	(0.67, 8.64)	(0.66, 8.76)
(0.66, 8.84)	(0.66, 8.92)	(0.64, 9.04)	(0.61, 9.12)
(0.58, 9.20)	(0.56, 9.28)	(0.54, 9.40)	(0.54, 9.48)
(0.54, 9.56)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.67
De deelprocesweg bij F_{Pmax}	S_N [mm] :	7.76
De totale procesweg	S_{tot} [mm] :	9.56
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	1.80
De opgenomen deformatie arbeid	W [Nm] :	5.02

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF891912
 Materiaalsoort : SP/D
 Werkstofnummer : 1.0330
 Herkomst materiaal : MCB/TUE MAG.
 Plaatdikte s_0 [mm] : 1.0
 Datum beproeving [dd-mm-jj] : 09-05-89
 Aantal metingen : 91
 Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : P.H.G.G. Boonen
 Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
 Type pers : CEZ-25-2-6
 Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
 Plaatcode : F1101340
 Proefnummer : V4103.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	65.02
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.50
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	8.84
De totale procesweg	S_{tot}	[mm] :	9.68
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	0.84
De opgenomen deformatie arbeid	W	[Nm] :	3.30

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
 [Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101340

Perescode: PF891912

F_{Pmax} : 0.50 kN

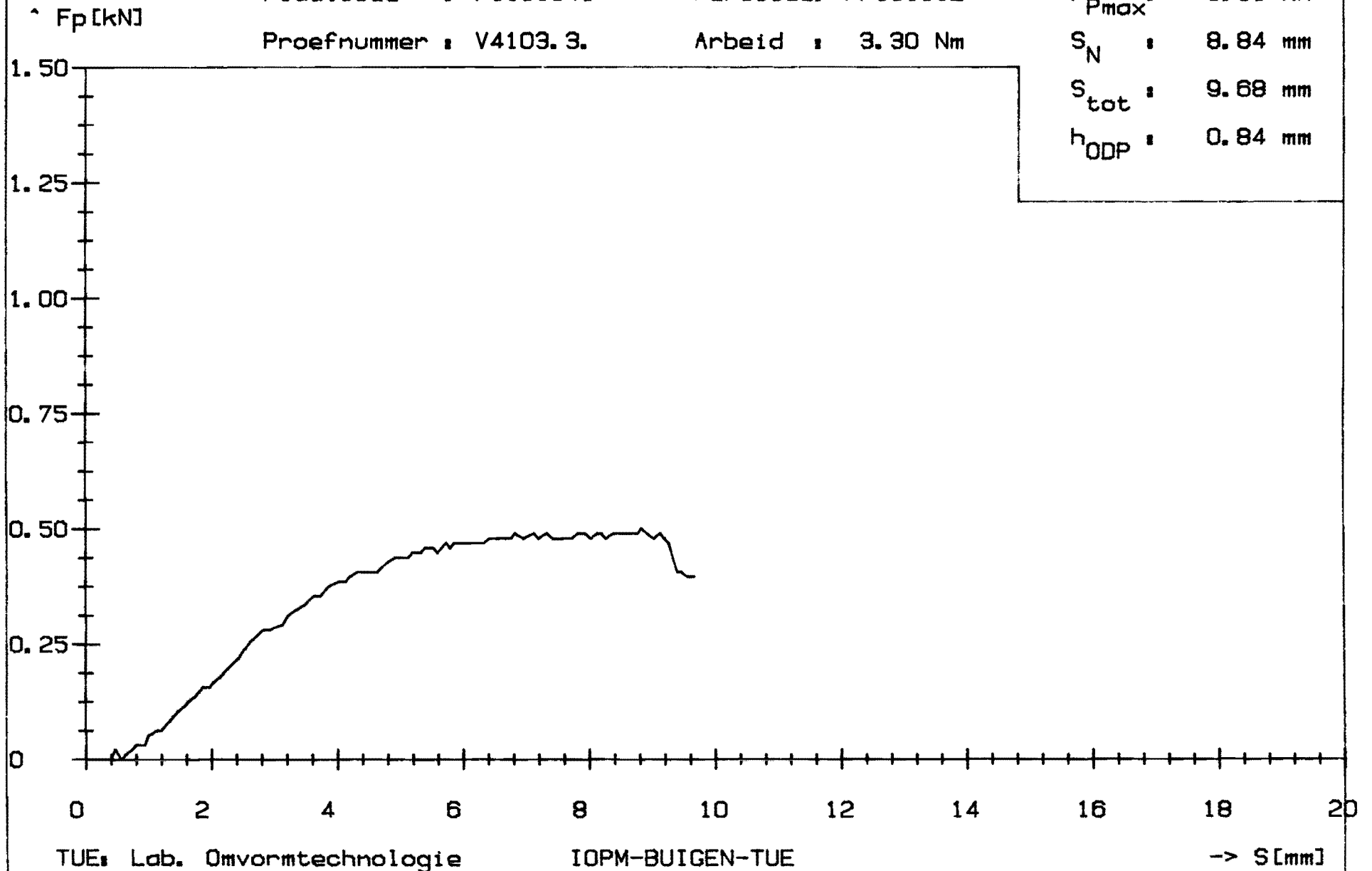
Proefnummer : V4103.3.

Arbeid : 3.30 Nm

S_N : 8.84 mm

S_{tot} : 9.68 mm

h_{ODP} : 0.84 mm



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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891912

IOPM-BUIGEN-TUE

Plaatcode : F1101340

Proefnummer: V4103.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.40)	(0.02, 0.48)	(0.00, 0.56)
(0.01, 0.64)	(0.02, 0.72)	(0.03, 0.80)	(0.04, 0.92)
(0.05, 1.00)	(0.06, 1.12)	(0.06, 1.20)	(0.08, 1.32)
(0.10, 1.40)	(0.10, 1.48)	(0.11, 1.56)	(0.12, 1.64)
(0.13, 1.72)	(0.15, 1.80)	(0.16, 1.88)	(0.16, 1.96)
(0.17, 2.04)	(0.18, 2.12)	(0.20, 2.28)	(0.22, 2.44)
(0.24, 2.52)	(0.26, 2.68)	(0.28, 2.84)	(0.28, 2.92)
(0.29, 3.12)	(0.31, 3.24)	(0.32, 3.32)	(0.33, 3.48)
(0.35, 3.64)	(0.36, 3.72)	(0.37, 3.88)	(0.39, 4.04)
(0.38, 4.12)	(0.39, 4.20)	(0.41, 4.32)	(0.41, 4.44)
(0.41, 4.56)	(0.41, 4.64)	(0.42, 4.80)	(0.43, 4.92)
(0.44, 5.12)	(0.44, 5.20)	(0.45, 5.32)	(0.46, 5.40)
(0.46, 5.52)	(0.45, 5.60)	(0.47, 5.72)	(0.46, 5.80)
(0.46, 5.88)	(0.47, 6.04)	(0.47, 6.12)	(0.47, 6.20)
(0.47, 6.32)	(0.48, 6.44)	(0.48, 6.52)	(0.48, 6.68)
(0.48, 6.76)	(0.49, 6.84)	(0.48, 6.96)	(0.49, 7.12)
(0.48, 7.20)	(0.49, 7.32)	(0.48, 7.44)	(0.48, 7.52)
(0.48, 7.60)	(0.48, 7.72)	(0.49, 7.84)	(0.49, 7.92)
(0.48, 8.04)	(0.49, 8.12)	(0.49, 8.20)	(0.48, 8.28)
(0.49, 8.40)	(0.49, 8.48)	(0.49, 8.56)	(0.49, 8.64)
(0.49, 8.76)	(0.50, 8.84)	(0.49, 8.92)	(0.48, 9.04)
(0.49, 9.12)	(0.48, 9.20)	(0.47, 9.28)	(0.40, 9.40)
(0.41, 9.48)	(0.40, 9.56)	(0.39, 9.68)	

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.50
De deelprocesweg bij F_{Pmax}	S_N [mm] :	8.84
De totale procesweg	S_{tot} [mm] :	9.68
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	0.84
De opgenomen deformatie arbeid	W [Nm] :	3.30

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF891913
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 92
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101350
Proefnummer : V5103.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	64.98
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.36
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	7.76
De totale procesweg	S_{tot}	[mm] :	9.68
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	1.92
De opgenomen deformatie arbeid	W	[Nm] :	2.52

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]

[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101350

Perscode: PF891913

F_{Pmax} : 0.36 kN

Proefnummer : V5103.3.

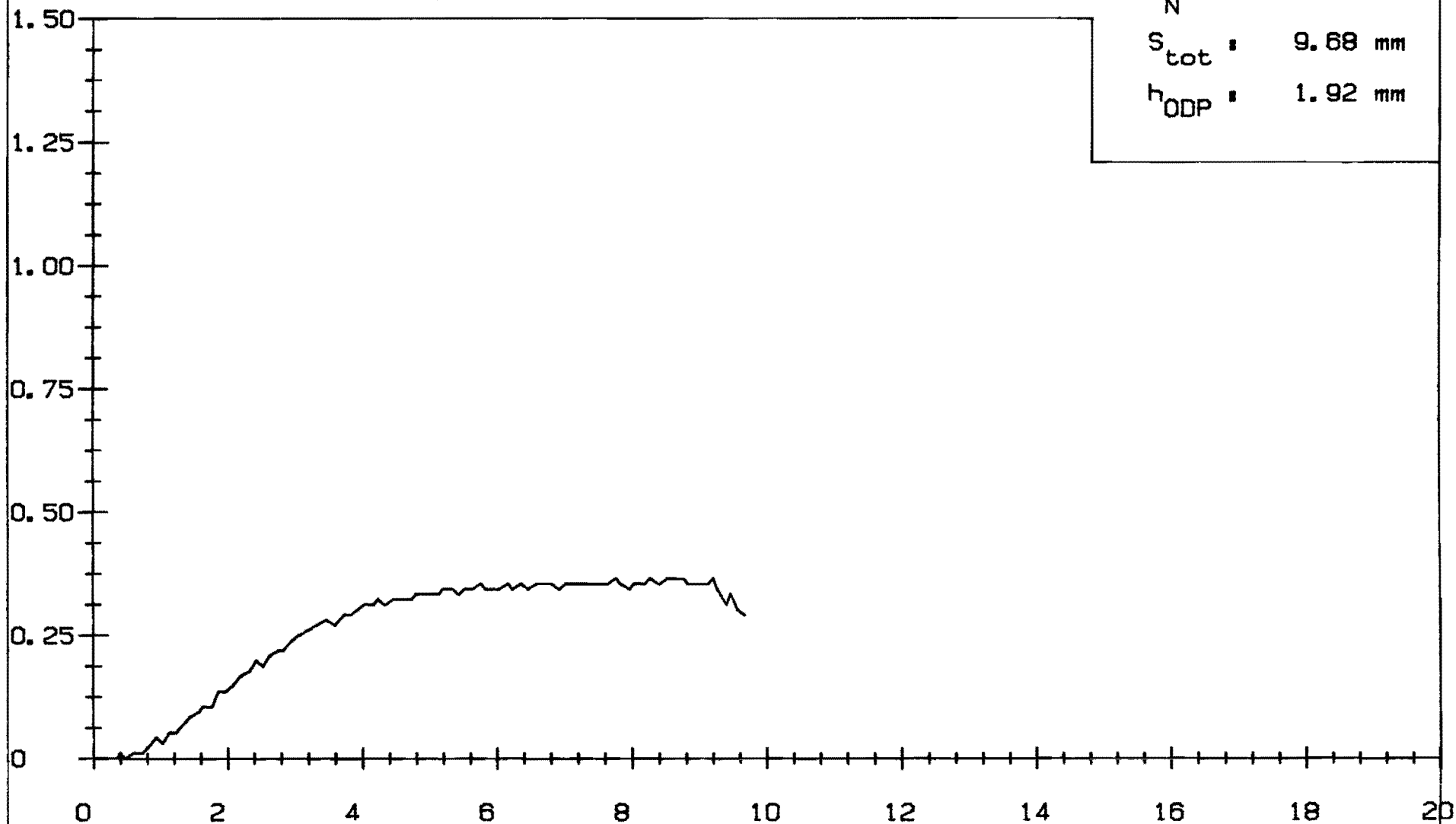
Arbeid : 2.52 Nm

S_N : 7.76 mm

S_{tot} : 9.68 mm

h_{ODP} : 1.92 mm

F_p [kN]



TUE, Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891913

IOPM-BUIGEN-TUE

Plaatcode : F1101350

Proefnummer: V5103.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(-0.00, 0.32)	(0.01, 0.40)	(-0.00, 0.48)
(0.01, 0.60)	(0.01, 0.72)	(0.02, 0.80)	(0.04, 0.92)
(0.03, 1.04)	(0.05, 1.12)	(0.06, 1.24)	(0.07, 1.36)
(0.09, 1.44)	(0.09, 1.56)	(0.11, 1.64)	(0.11, 1.76)
(0.13, 1.88)	(0.14, 1.96)	(0.15, 2.08)	(0.16, 2.20)
(0.17, 2.32)	(0.20, 2.44)	(0.19, 2.52)	(0.21, 2.64)
(0.22, 2.76)	(0.22, 2.84)	(0.24, 2.96)	(0.26, 3.08)
(0.26, 3.20)	(0.27, 3.32)	(0.28, 3.48)	(0.27, 3.60)
(0.29, 3.72)	(0.30, 3.84)	(0.31, 3.92)	(0.31, 4.04)
(0.31, 4.16)	(0.32, 4.24)	(0.31, 4.32)	(0.32, 4.48)
(0.33, 4.60)	(0.32, 4.72)	(0.33, 4.80)	(0.33, 4.92)
(0.34, 5.04)	(0.34, 5.12)	(0.34, 5.20)	(0.34, 5.32)
(0.33, 5.44)	(0.34, 5.52)	(0.34, 5.64)	(0.35, 5.76)
(0.34, 5.84)	(0.34, 5.96)	(0.35, 6.04)	(0.35, 6.16)
(0.35, 6.24)	(0.35, 6.36)	(0.35, 6.48)	(0.36, 6.60)
(0.35, 6.68)	(0.35, 6.80)	(0.35, 6.92)	(0.35, 7.04)
(0.35, 7.12)	(0.36, 7.20)	(0.35, 7.32)	(0.35, 7.44)
(0.35, 7.56)	(0.35, 7.64)	(0.36, 7.76)	(0.35, 7.84)
(0.35, 7.96)	(0.36, 8.04)	(0.36, 8.12)	(0.36, 8.20)
(0.36, 8.28)	(0.35, 8.40)	(0.36, 8.52)	(0.36, 8.60)
(0.36, 8.68)	(0.36, 8.76)	(0.36, 8.84)	(0.36, 8.92)
(0.36, 9.04)	(0.35, 9.12)	(0.36, 9.20)	(0.34, 9.28)
(0.31, 9.40)	(0.33, 9.48)	(0.30, 9.56)	(0.29, 9.68)

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.36
De deelprocesweg bij F_{Pmax}	S_N [mm] :	7.76
De totale procesweg	S_{tot} [mm] :	9.68
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	1.92
De opgenomen deformatie arbeid	W [Nm] :	2.52

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF891914
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 109
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101360
Proefnummer : V6103.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	64.98
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.28
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	8.56
De totale procesweg	S_{tot}	[mm] :	9.84
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	1.28
De opgenomen deformatie arbeid	W	[Nm] :	2.14

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101360

Perscode: PF891914

F_{Pmax} : 0.28 kN

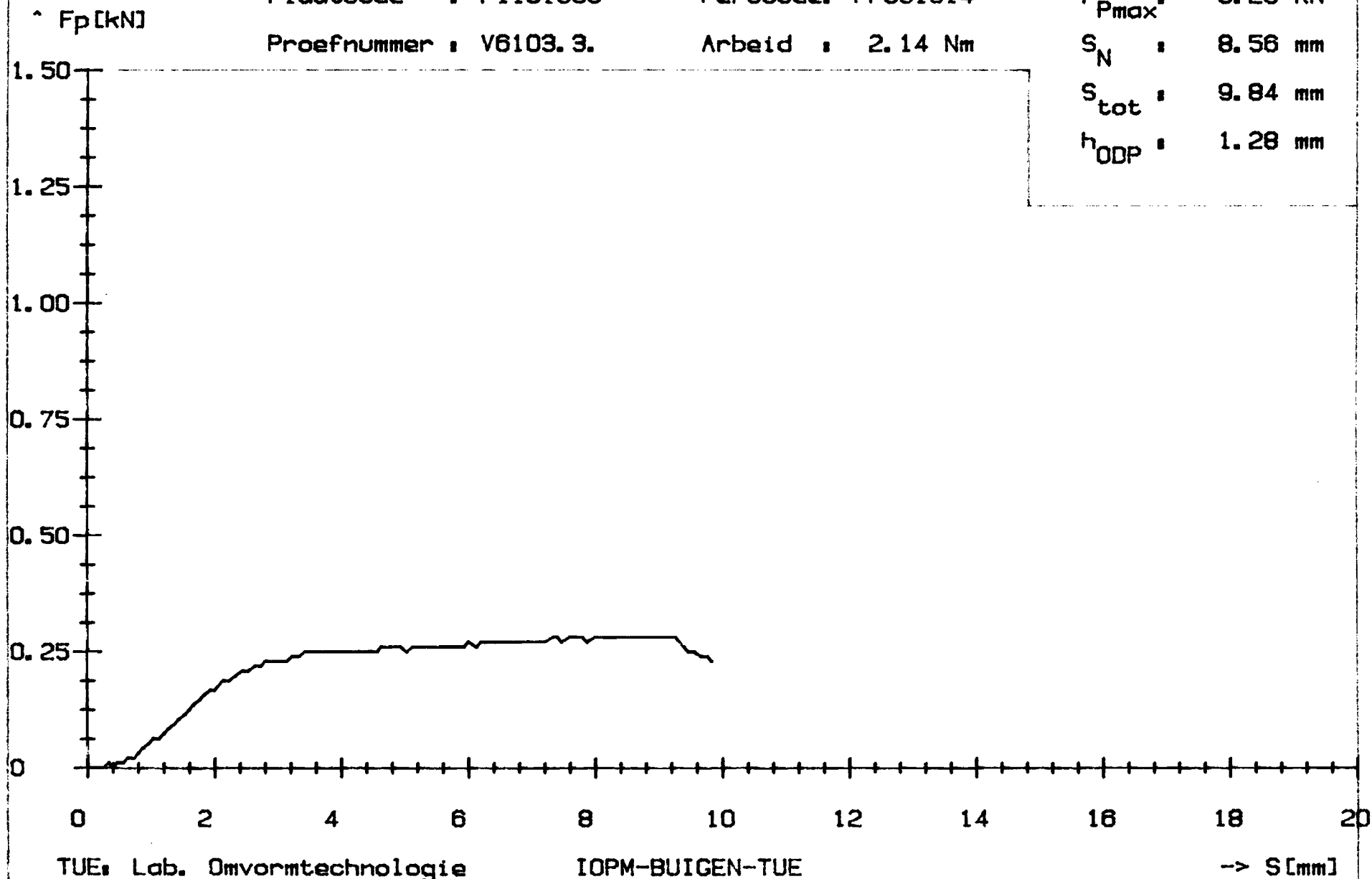
Proefnummer : V6103.3.

Arbeid : 2.14 Nm

S_N : 8.56 mm

S_{tot} : 9.84 mm

h_{ODP} : 1.28 mm



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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891914

IOPM-BUIGEN-TUE

Plaatcode : F1101360

Proefnummer: V6103.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(-0.00, 0.16)	(0.00, 0.24)	(0.01, 0.32)
(0.00, 0.40)	(0.01, 0.48)	(0.02, 0.56)	(0.02, 0.64)
(0.02, 0.72)	(0.03, 0.80)	(0.04, 0.88)	(0.05, 0.96)
(0.06, 1.04)	(0.07, 1.12)	(0.08, 1.20)	(0.08, 1.28)
(0.09, 1.36)	(0.10, 1.44)	(0.12, 1.52)	(0.13, 1.60)
(0.13, 1.68)	(0.14, 1.76)	(0.15, 1.84)	(0.16, 1.92)
(0.17, 2.00)	(0.18, 2.12)	(0.19, 2.24)	(0.20, 2.32)
(0.20, 2.44)	(0.21, 2.52)	(0.22, 2.64)	(0.22, 2.72)
(0.23, 2.80)	(0.23, 2.92)	(0.23, 3.04)	(0.23, 3.12)
(0.24, 3.24)	(0.24, 3.32)	(0.25, 3.44)	(0.25, 3.52)
(0.25, 3.60)	(0.25, 3.72)	(0.25, 3.84)	(0.25, 3.92)
(0.25, 4.00)	(0.25, 4.12)	(0.25, 4.20)	(0.25, 4.28)
(0.25, 4.40)	(0.25, 4.48)	(0.25, 4.56)	(0.26, 4.64)
(0.26, 4.76)	(0.26, 4.84)	(0.26, 4.92)	(0.25, 5.04)
(0.26, 5.12)	(0.26, 5.20)	(0.26, 5.28)	(0.26, 5.40)
(0.26, 5.48)	(0.26, 5.56)	(0.26, 5.68)	(0.26, 5.76)
(0.26, 5.84)	(0.26, 5.92)	(0.27, 6.00)	(0.26, 6.12)
(0.27, 6.20)	(0.27, 6.28)	(0.27, 6.40)	(0.27, 6.48)
(0.27, 6.56)	(0.27, 6.68)	(0.27, 6.76)	(0.27, 6.84)
(0.27, 6.92)	(0.27, 7.04)	(0.27, 7.12)	(0.27, 7.20)
(0.28, 7.32)	(0.28, 7.40)	(0.27, 7.48)	(0.28, 7.60)
(0.28, 7.72)	(0.28, 7.80)	(0.27, 7.88)	(0.28, 8.00)
(0.28, 8.12)	(0.28, 8.20)	(0.28, 8.28)	(0.28, 8.40)
(0.28, 8.48)	(0.28, 8.56)	(0.28, 8.64)	(0.28, 8.76)
(0.28, 8.84)	(0.28, 8.92)	(0.28, 9.04)	(0.28, 9.12)
(0.28, 9.20)	(0.28, 9.28)	(0.26, 9.40)	(0.25, 9.48)
(0.25, 9.56)	(0.24, 9.68)	(0.24, 9.76)	(0.23, 9.84)
(0.23, 9.84)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.28
De deelprocesweg bij F_{Pmax}	S_N [mm] :	8.56
De totale procesweg	S_{tot} [mm] :	9.84
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	1.28
De opgenomen deformatie arbeid	W [Nm] :	2.14

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF891915
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 109
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101410
Proefnummer : V1101.1.

- OVERZICHT GEGEVENS UIT P-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 64.97
De maximaal optredende perskracht F_{Pmax} [kN] : 2.95
De deelprocesweg bij F_{Pmax} S_N [mm] : 3.12
De totale procesweg S_{tot} [mm] : 9.76
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 6.64
De opgenomen deformatie arbeid W [Nm] : 19.12

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101410

Periscode: PF891915

F_{Pmax} : 2.95 kN

Proefnummer : V1101.1.

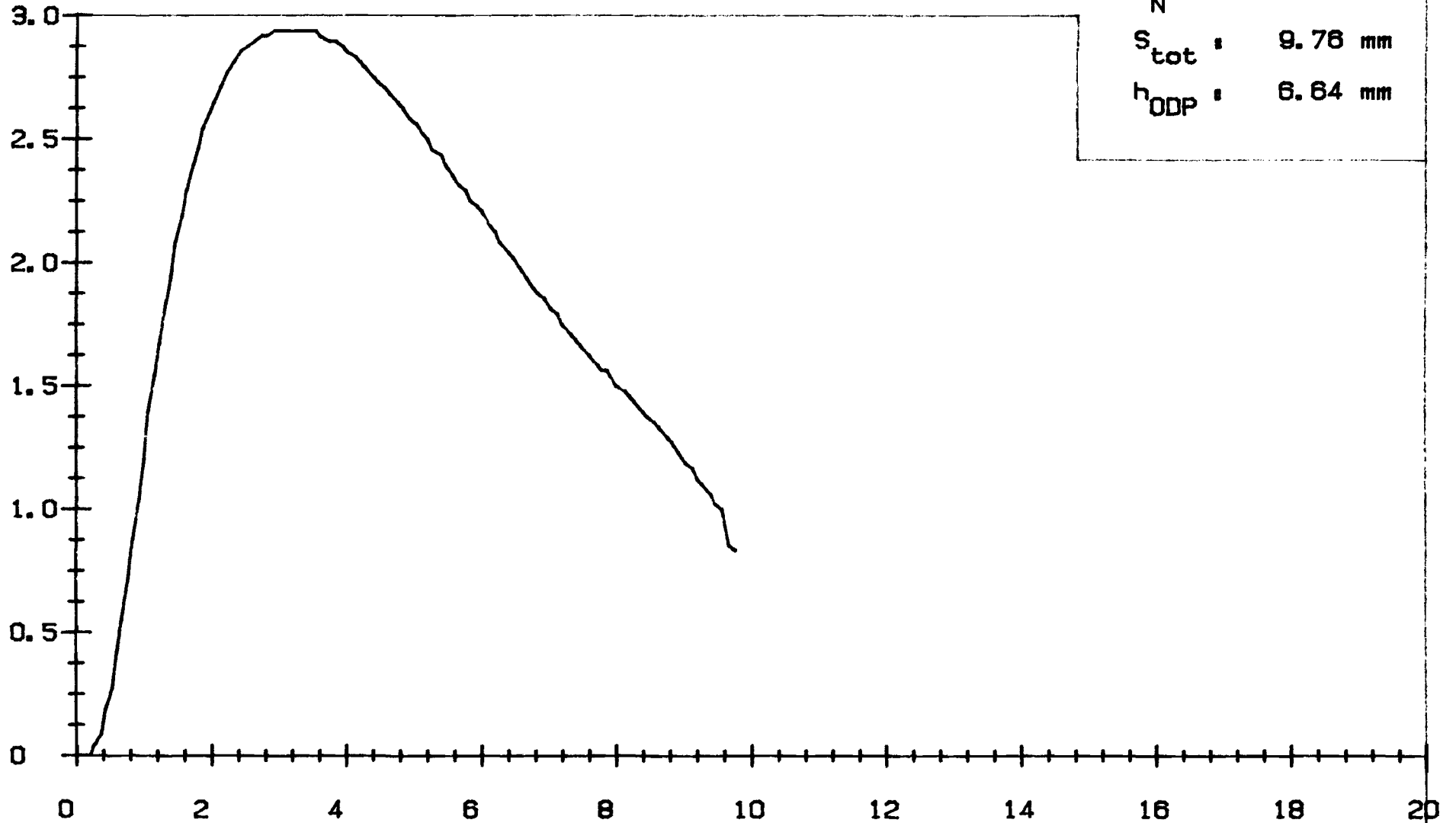
Arbeid : 19.12 Nm

S_N : 3.12 mm

S_{tot} : 9.76 mm

h_{ODP} : 6.64 mm

F_p [kN]



TUE: Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891915

IOPM-BUIGEN-TUE

Plaatcode : F1101410

Proefnummer: V1101.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(-0.00, 0.12)	(0.01, 0.20)	(0.03, 0.28)
(0.09, 0.36)	(0.18, 0.44)	(0.28, 0.52)	(0.41, 0.60)
(0.54, 0.68)	(0.70, 0.76)	(0.88, 0.84)	(1.04, 0.92)
(1.19, 1.00)	(1.40, 1.08)	(1.54, 1.16)	(1.67, 1.24)
(1.83, 1.32)	(1.95, 1.40)	(2.09, 1.48)	(2.19, 1.56)
(2.30, 1.64)	(2.40, 1.72)	(2.45, 1.80)	(2.54, 1.88)
(2.61, 1.96)	(2.65, 2.04)	(2.71, 2.12)	(2.77, 2.24)
(2.81, 2.32)	(2.85, 2.44)	(2.88, 2.52)	(2.90, 2.64)
(2.91, 2.72)	(2.92, 2.80)	(2.94, 2.92)	(2.94, 3.04)
(2.95, 3.12)	(2.95, 3.24)	(2.95, 3.32)	(2.94, 3.44)
(2.93, 3.52)	(2.92, 3.60)	(2.90, 3.72)	(2.89, 3.84)
(2.87, 3.92)	(2.85, 4.00)	(2.83, 4.12)	(2.81, 4.20)
(2.79, 4.28)	(2.76, 4.40)	(2.73, 4.48)	(2.72, 4.56)
(2.69, 4.64)	(2.65, 4.76)	(2.61, 4.84)	(2.59, 4.92)
(2.56, 5.04)	(2.53, 5.12)	(2.51, 5.20)	(2.47, 5.28)
(2.43, 5.40)	(2.39, 5.48)	(2.36, 5.56)	(2.32, 5.68)
(2.28, 5.76)	(2.25, 5.84)	(2.22, 5.92)	(2.20, 6.00)
(2.15, 6.12)	(2.12, 6.20)	(2.08, 6.28)	(2.05, 6.40)
(2.01, 6.48)	(1.98, 6.56)	(1.94, 6.68)	(1.90, 6.76)
(1.88, 6.84)	(1.85, 6.92)	(1.81, 7.04)	(1.79, 7.12)
(1.76, 7.20)	(1.72, 7.32)	(1.70, 7.40)	(1.66, 7.48)
(1.62, 7.60)	(1.59, 7.72)	(1.57, 7.80)	(1.55, 7.88)
(1.51, 8.00)	(1.48, 8.12)	(1.46, 8.20)	(1.44, 8.28)
(1.40, 8.40)	(1.37, 8.48)	(1.35, 8.56)	(1.33, 8.64)
(1.29, 8.76)	(1.27, 8.84)	(1.23, 8.92)	(1.19, 9.04)
(1.16, 9.12)	(1.13, 9.20)	(1.10, 9.28)	(1.06, 9.40)
(1.02, 9.48)	(0.99, 9.56)	(0.86, 9.68)	(0.84, 9.76)
(0.84, 9.76)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	2.95
De deelprocesweg bij F_{Pmax}	S_N [mm] :	3.12
De totale procesweg	S_{tot} [mm] :	9.76
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	6.64
De opgenomen deformatie arbeid	W [Nm] :	19.12

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF891916
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 109
Code bijbehorende trekproeven : TP891672-TP891673-TP891674

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101420
Proefnummer : V2101.1.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 65.02
De maximaal optredende perskracht F_{Pmax} [kN] : 1.23
De deelprocesweg bij F_{Pmax} S_N [mm] : 4.56
De totale procesweg S_{tot} [mm] : 9.84
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 5.28
De opgenomen deformatie arbeid W [Nm] : 9.50

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101420

Perscode: PF891916

F_{Pmax} : 1.23 kN

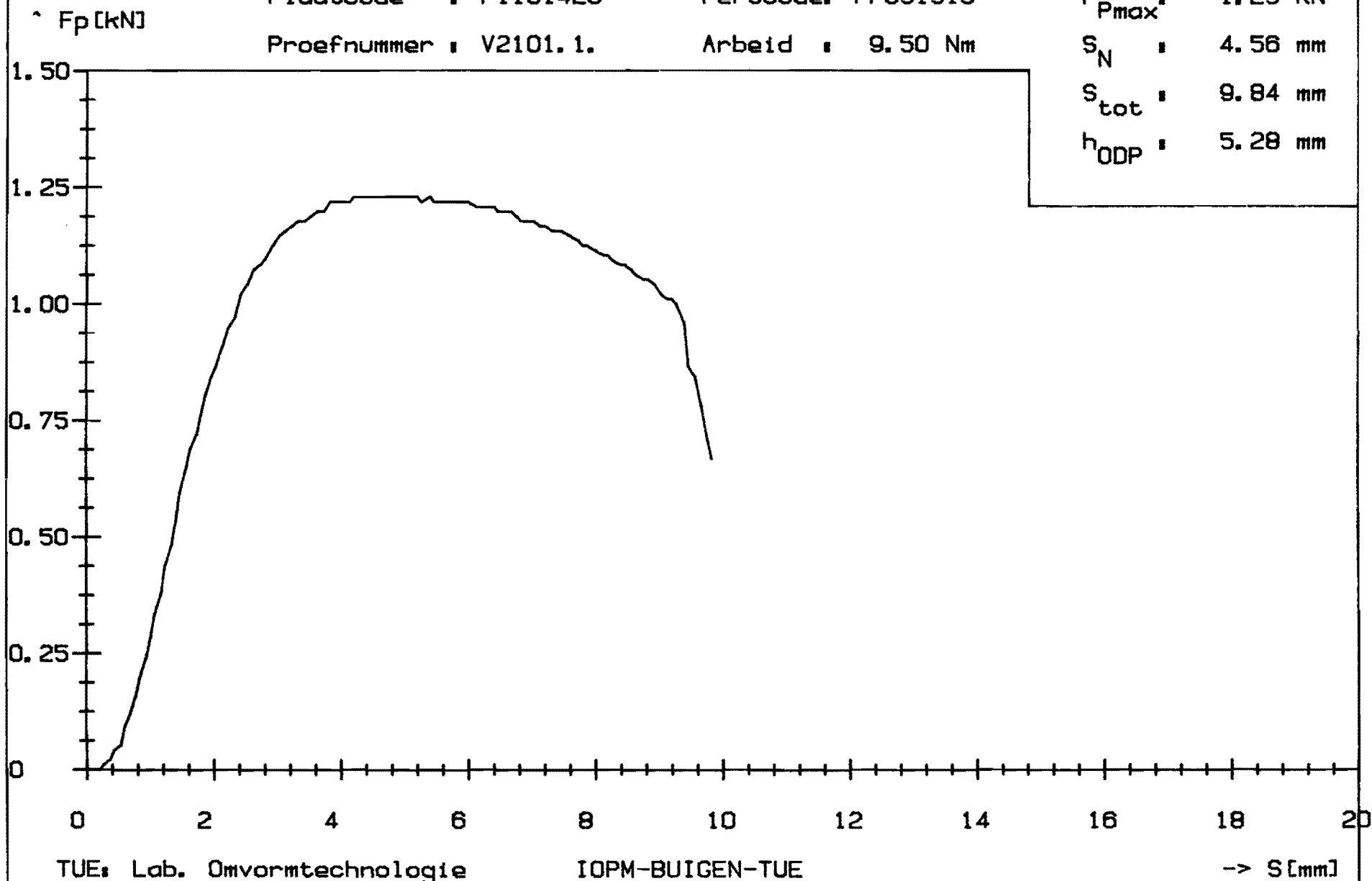
Proefnummer : V2101.1.

Arbeid : 9.50 Nm

S_N : 4.56 mm

S_{tot} : 9.84 mm

h_{ODP} : 5.28 mm



TUE: Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891916

IOPM-BUIGEN-TUE

Plaatcode : F1101420

Proefnummer: V2101.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.20)	(0.01, 0.28)	(0.02, 0.36)
(0.04, 0.44)	(0.05, 0.52)	(0.09, 0.60)	(0.11, 0.68)
(0.16, 0.76)	(0.19, 0.84)	(0.24, 0.92)	(0.28, 1.00)
(0.34, 1.08)	(0.38, 1.16)	(0.43, 1.24)	(0.48, 1.32)
(0.53, 1.40)	(0.60, 1.48)	(0.64, 1.56)	(0.68, 1.64)
(0.72, 1.72)	(0.76, 1.80)	(0.80, 1.88)	(0.84, 1.96)
(0.87, 2.04)	(0.91, 2.12)	(0.95, 2.24)	(0.97, 2.32)
(1.02, 2.44)	(1.04, 2.52)	(1.07, 2.64)	(1.09, 2.72)
(1.10, 2.80)	(1.13, 2.92)	(1.14, 3.04)	(1.15, 3.12)
(1.16, 3.24)	(1.18, 3.32)	(1.18, 3.44)	(1.19, 3.52)
(1.20, 3.64)	(1.20, 3.72)	(1.22, 3.84)	(1.22, 3.92)
(1.22, 4.00)	(1.21, 4.12)	(1.23, 4.20)	(1.23, 4.28)
(1.23, 4.40)	(1.23, 4.48)	(1.23, 4.56)	(1.23, 4.64)
(1.23, 4.76)	(1.23, 4.84)	(1.23, 4.92)	(1.23, 5.04)
(1.23, 5.12)	(1.23, 5.20)	(1.22, 5.28)	(1.23, 5.40)
(1.22, 5.48)	(1.22, 5.56)	(1.22, 5.68)	(1.22, 5.76)
(1.22, 5.84)	(1.22, 5.92)	(1.21, 6.00)	(1.21, 6.12)
(1.21, 6.20)	(1.21, 6.28)	(1.20, 6.40)	(1.20, 6.48)
(1.19, 6.56)	(1.19, 6.68)	(1.19, 6.76)	(1.18, 6.84)
(1.18, 6.92)	(1.17, 7.04)	(1.17, 7.12)	(1.17, 7.20)
(1.16, 7.32)	(1.15, 7.40)	(1.15, 7.48)	(1.14, 7.60)
(1.13, 7.72)	(1.13, 7.80)	(1.12, 7.88)	(1.11, 8.00)
(1.11, 8.12)	(1.10, 8.20)	(1.10, 8.28)	(1.08, 8.40)
(1.08, 8.48)	(1.08, 8.56)	(1.07, 8.64)	(1.05, 8.76)
(1.05, 8.84)	(1.04, 8.92)	(1.02, 9.04)	(1.01, 9.12)
(1.01, 9.20)	(1.00, 9.28)	(0.96, 9.40)	(0.86, 9.48)
(0.85, 9.56)	(0.78, 9.68)	(0.71, 9.76)	(0.67, 9.84)
(0.67, 9.84)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	1.23
De deelprocesweg bij F_{Pmax}	S_N [mm] :	4.56
De totale procesweg	S_{tot} [mm] :	9.84
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	5.28
De opgenomen deformatie arbeid	W [Nm] :	9.50

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORTEPERS

- PROEFGEGEVENS -

Perscode : PF891917
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 98
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101430
Proefnummer : V3101.1.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	65.00
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.74
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	7.12
De totale procesweg	S_{tot}	[mm] :	9.84
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	2.72
De opgenomen deformatie arbeid	W	[Nm] :	5.53

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101430

Persecode: PF891917

F_{Pmax} : 0.74 kN

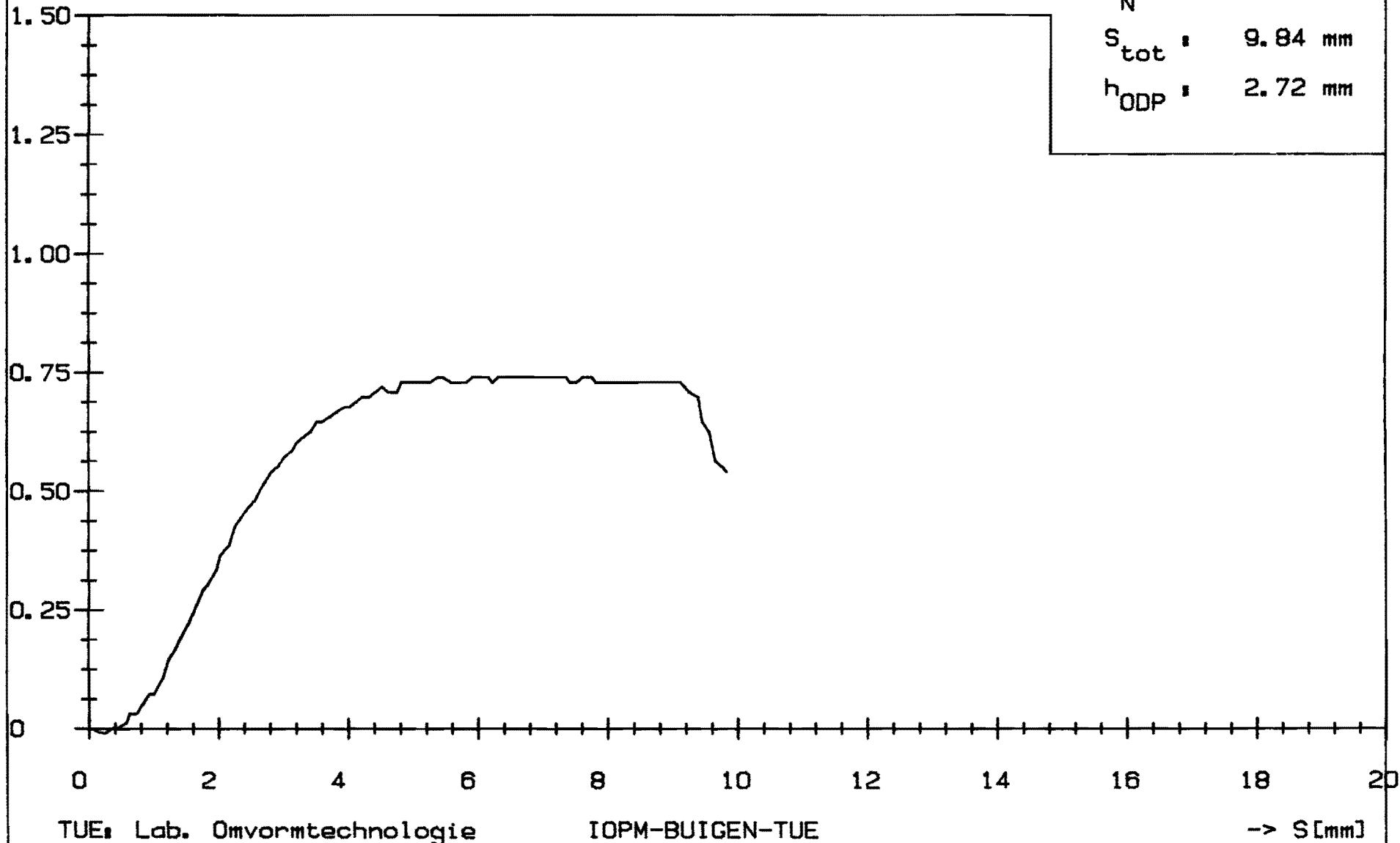
Proefnummer : V3101.1.

Arbeid : 5.53 Nm

S_N : 7.12 mm

S_{tot} : 9.84 mm

h_{ODP} : 2.72 mm



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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891917

IOPM-BUIGEN-TUE

Plaatcode : F1101430

Proefnummer: V3101.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(-0.01, 0.24)	(0.00, 0.36)	(0.00, 0.44)
(0.01, 0.56)	(0.03, 0.64)	(0.03, 0.72)	(0.05, 0.84)
(0.07, 0.92)	(0.08, 1.00)	(0.11, 1.12)	(0.14, 1.24)
(0.17, 1.32)	(0.18, 1.40)	(0.21, 1.52)	(0.24, 1.60)
(0.26, 1.68)	(0.29, 1.76)	(0.30, 1.84)	(0.33, 1.96)
(0.36, 2.04)	(0.38, 2.16)	(0.43, 2.28)	(0.46, 2.44)
(0.48, 2.56)	(0.52, 2.72)	(0.54, 2.84)	(0.56, 2.92)
(0.58, 3.04)	(0.58, 3.12)	(0.60, 3.24)	(0.61, 3.32)
(0.63, 3.44)	(0.64, 3.52)	(0.65, 3.60)	(0.66, 3.72)
(0.67, 3.84)	(0.68, 3.96)	(0.68, 4.04)	(0.69, 4.12)
(0.70, 4.24)	(0.70, 4.32)	(0.71, 4.44)	(0.71, 4.52)
(0.71, 4.64)	(0.71, 4.76)	(0.73, 4.84)	(0.73, 4.92)
(0.73, 5.04)	(0.73, 5.12)	(0.73, 5.20)	(0.73, 5.28)
(0.74, 5.40)	(0.74, 5.48)	(0.73, 5.60)	(0.73, 5.76)
(0.73, 5.84)	(0.74, 5.92)	(0.74, 6.04)	(0.74, 6.16)
(0.73, 6.24)	(0.74, 6.32)	(0.74, 6.44)	(0.74, 6.56)
(0.74, 6.72)	(0.74, 6.84)	(0.74, 6.96)	(0.74, 7.12)
(0.74, 7.24)	(0.74, 7.36)	(0.73, 7.44)	(0.73, 7.52)
(0.74, 7.64)	(0.74, 7.76)	(0.73, 7.84)	(0.73, 7.92)
(0.73, 8.04)	(0.73, 8.12)	(0.73, 8.20)	(0.73, 8.28)
(0.73, 8.40)	(0.73, 8.48)	(0.73, 8.56)	(0.73, 8.68)
(0.73, 8.76)	(0.73, 8.84)	(0.72, 8.92)	(0.72, 9.04)
(0.73, 9.12)	(0.72, 9.20)	(0.71, 9.28)	(0.70, 9.40)
(0.64, 9.48)	(0.63, 9.56)	(0.56, 9.68)	(0.55, 9.76)
(0.54, 9.84)	(0.54, 9.84)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.74
De deelprocesweg bij F_{Pmax}	S_N [mm] :	7.12
De totale procesweg	S_{tot} [mm] :	9.84
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	2.72
De opgenomen deformatie arbeid	W [Nm] :	5.53

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF891918
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 101
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101440
Proefnummer : V4101.1.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 65.00
De maximaal optredende perskracht F_{Pmax} [kN] : 0.50
De deelprocesweg bij F_{Pmax} S_N [mm] : 8.12
De totale procesweg S_{tot} [mm] : 9.84
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 1.72
De opgenomen deformatie arbeid W [Nm] : 3.90

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101440

Perenode: PF891918

F_{Pmax} : 0.50 kN

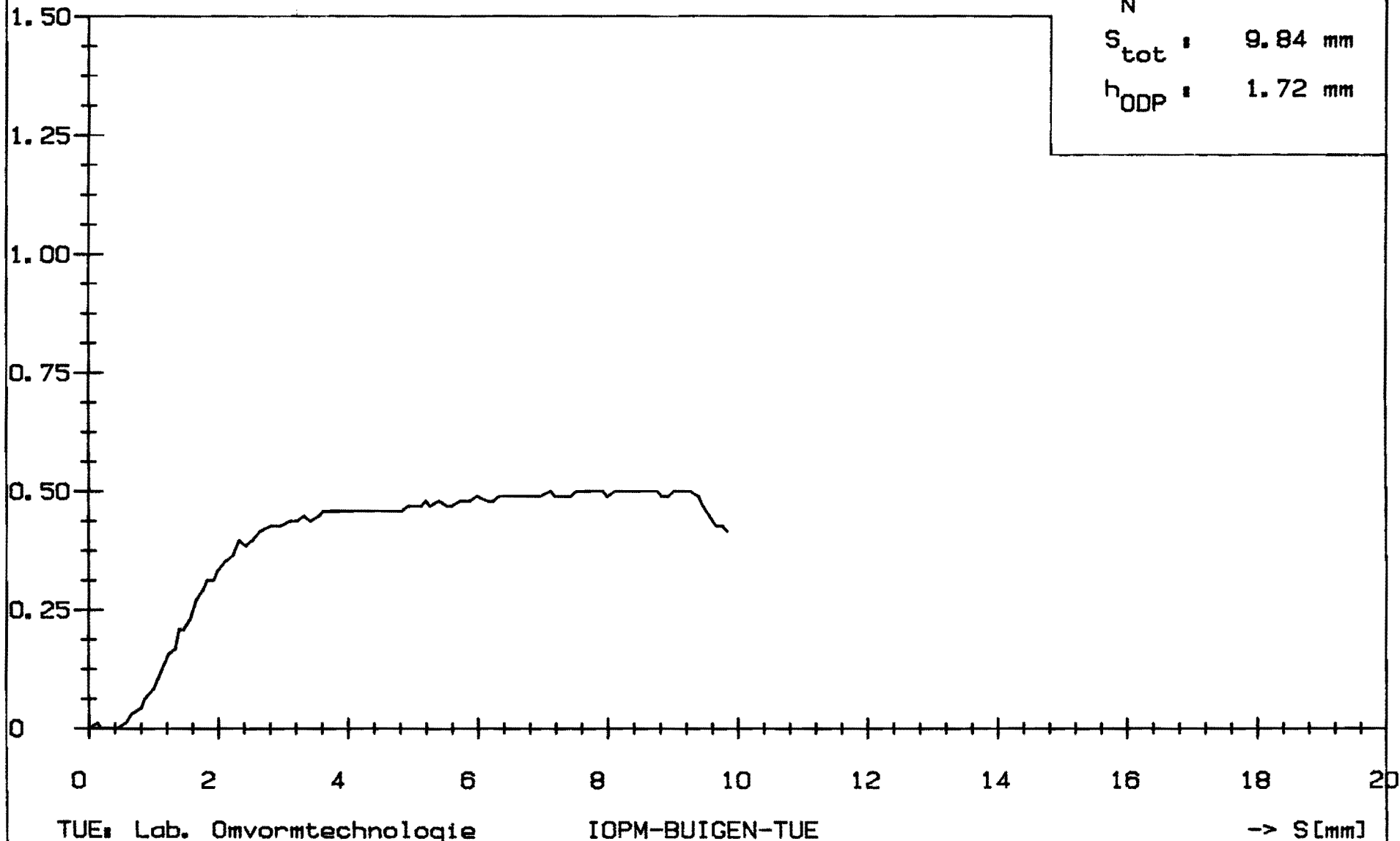
Proefnummer : V4101.1.

Arbeid : 3.90 Nm

S_N : 8.12 mm

S_{tot} : 9.84 mm

h_{ODP} : 1.72 mm



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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891918

IOPM-BUIGEN-TUE

Plaatcode : F1101440

Proefnummer: V4101.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.01, 0.12)	(-0.00, 0.20)	(0.00, 0.28)
(-0.00, 0.36)	(-0.00, 0.44)	(0.01, 0.56)	(0.03, 0.68)
(0.04, 0.80)	(0.07, 0.88)	(0.09, 1.00)	(0.10, 1.08)
(0.14, 1.16)	(0.15, 1.24)	(0.17, 1.32)	(0.20, 1.40)
(0.21, 1.48)	(0.23, 1.56)	(0.27, 1.68)	(0.29, 1.76)
(0.31, 1.84)	(0.31, 1.92)	(0.34, 2.00)	(0.36, 2.12)
(0.36, 2.24)	(0.39, 2.32)	(0.39, 2.44)	(0.40, 2.52)
(0.42, 2.68)	(0.43, 2.84)	(0.43, 2.96)	(0.44, 3.12)
(0.44, 3.24)	(0.45, 3.32)	(0.44, 3.44)	(0.45, 3.56)
(0.45, 3.64)	(0.45, 3.72)	(0.46, 3.84)	(0.45, 3.92)
(0.46, 4.04)	(0.45, 4.12)	(0.46, 4.20)	(0.46, 4.32)
(0.46, 4.44)	(0.46, 4.56)	(0.46, 4.64)	(0.46, 4.76)
(0.46, 4.84)	(0.47, 4.92)	(0.47, 5.04)	(0.47, 5.12)
(0.48, 5.20)	(0.47, 5.28)	(0.48, 5.40)	(0.47, 5.52)
(0.47, 5.60)	(0.48, 5.72)	(0.48, 5.80)	(0.48, 5.88)
(0.48, 6.00)	(0.48, 6.16)	(0.48, 6.24)	(0.49, 6.32)
(0.49, 6.44)	(0.49, 6.52)	(0.49, 6.68)	(0.49, 6.76)
(0.49, 6.88)	(0.49, 6.96)	(0.50, 7.12)	(0.49, 7.20)
(0.49, 7.36)	(0.49, 7.44)	(0.50, 7.52)	(0.50, 7.60)
(0.50, 7.72)	(0.50, 7.80)	(0.50, 7.92)	(0.49, 8.00)
(0.50, 8.12)	(0.50, 8.20)	(0.50, 8.28)	(0.50, 8.40)
(0.50, 8.48)	(0.50, 8.56)	(0.50, 8.64)	(0.50, 8.76)
(0.49, 8.84)	(0.49, 8.92)	(0.50, 9.04)	(0.50, 9.12)
(0.50, 9.20)	(0.50, 9.28)	(0.49, 9.40)	(0.47, 9.48)
(0.45, 9.56)	(0.43, 9.68)	(0.43, 9.76)	(0.42, 9.84)
(0.42, 9.84)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.50
De deelprocesweg bij F_{Pmax}	S_N [mm] :	8.12
De totale procesweg	S_{tot} [mm] :	9.84
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	1.72
De opgenomen deformatie arbeid	W [Nm] :	3.90

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF891919
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 109
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101450
Proefnummer : V5101.1.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] : 65.00
De maximaal optredende perskracht	F_{Pmax}	[kN] : 0.38
De deelprocesweg bij F_{Pmax}	S_N	[mm] : 9.12
De totale procesweg	S_{tot}	[mm] : 9.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] : 0.80
De opgenomen deformatie arbeid	W	[Nm] : 2.92

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101450

Perscode: PF891919

F_{Pmax} : 0.38 kN

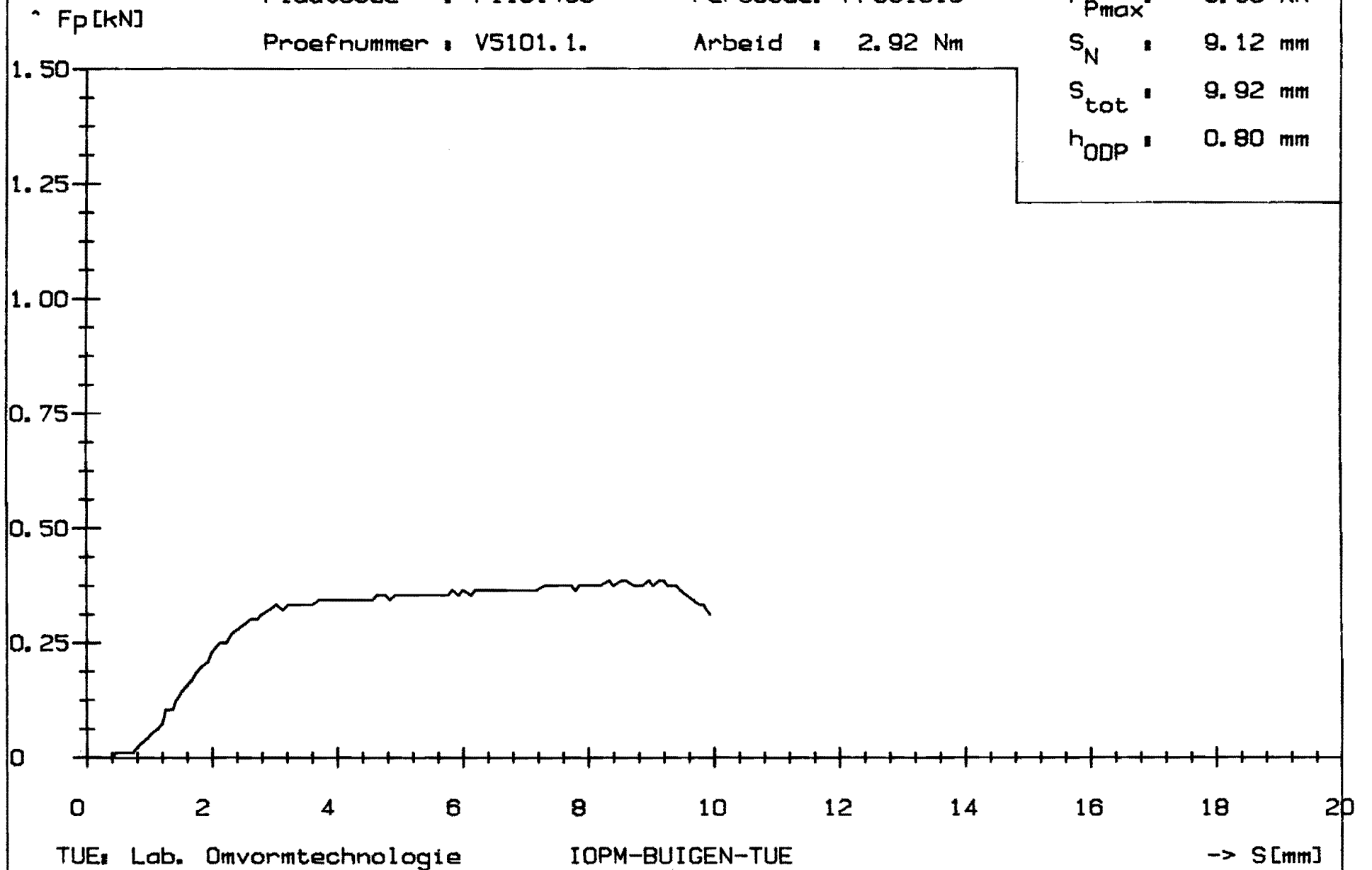
Proefnummer : V5101.1.

Arbeid : 2.92 Nm

S_N : 9.12 mm

S_{tot} : 9.92 mm

h_{ODP} : 0.80 mm



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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891919

IOPM-BUIGEN-TUE

Plaatcode : F1101450

Proefnummer: V5101.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(-0.00, 0.16)	(-0.00, 0.24)	(0.00, 0.32)
(0.00, 0.40)	(0.01, 0.48)	(0.01, 0.56)	(0.01, 0.64)
(0.02, 0.72)	(0.02, 0.80)	(0.03, 0.88)	(0.04, 0.96)
(0.06, 1.04)	(0.07, 1.12)	(0.08, 1.20)	(0.10, 1.28)
(0.11, 1.36)	(0.13, 1.44)	(0.14, 1.52)	(0.16, 1.60)
(0.17, 1.68)	(0.18, 1.76)	(0.20, 1.84)	(0.21, 1.92)
(0.23, 2.00)	(0.25, 2.12)	(0.25, 2.24)	(0.27, 2.32)
(0.29, 2.44)	(0.29, 2.52)	(0.30, 2.64)	(0.30, 2.72)
(0.31, 2.80)	(0.32, 2.92)	(0.33, 3.04)	(0.33, 3.12)
(0.33, 3.24)	(0.34, 3.32)	(0.33, 3.44)	(0.34, 3.52)
(0.34, 3.60)	(0.34, 3.72)	(0.35, 3.84)	(0.34, 3.92)
(0.34, 4.00)	(0.35, 4.12)	(0.34, 4.20)	(0.35, 4.28)
(0.35, 4.40)	(0.34, 4.48)	(0.35, 4.56)	(0.35, 4.64)
(0.35, 4.76)	(0.35, 4.84)	(0.35, 4.92)	(0.36, 5.04)
(0.35, 5.12)	(0.35, 5.20)	(0.36, 5.28)	(0.36, 5.40)
(0.36, 5.48)	(0.36, 5.56)	(0.36, 5.68)	(0.36, 5.76)
(0.36, 5.84)	(0.36, 5.92)	(0.36, 6.00)	(0.36, 6.12)
(0.36, 6.20)	(0.36, 6.28)	(0.37, 6.40)	(0.37, 6.48)
(0.37, 6.56)	(0.36, 6.68)	(0.37, 6.76)	(0.36, 6.84)
(0.37, 6.92)	(0.37, 7.04)	(0.37, 7.16)	(0.37, 7.32)
(0.37, 7.40)	(0.38, 7.48)	(0.38, 7.60)	(0.37, 7.72)
(0.37, 7.80)	(0.37, 7.88)	(0.38, 8.00)	(0.37, 8.12)
(0.38, 8.20)	(0.38, 8.32)	(0.38, 8.40)	(0.38, 8.52)
(0.38, 8.60)	(0.37, 8.72)	(0.38, 8.80)	(0.37, 8.88)
(0.38, 8.96)	(0.38, 9.04)	(0.38, 9.12)	(0.38, 9.20)
(0.38, 9.28)	(0.37, 9.40)	(0.37, 9.48)	(0.35, 9.56)
(0.34, 9.68)	(0.33, 9.76)	(0.34, 9.84)	(0.32, 9.92)
(0.32, 9.92)			

De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.38
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	9.12
De totale procesweg	S_{tot}	[mm] :	9.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	0.80
De opgenomen deformatie arbeid	W	[Nm] :	2.92

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF891920
 Materiaalsoort : SP/D
 Werkstofnummer : 1.0330
 Herkomst materiaal : MCB/TUE MAG.
 Plaatdikte s_0 [mm] : 1.0
 Datum beproeving [dd-mm-jj] : 09-05-89
 Aantal metingen : 101
 Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
 Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
 Type pers : CEZ-25-2-6
 Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
 Plaatcode : F1101460
 Proefnummer : V6101.1.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	65.03
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.31
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	9.20
De totale procesweg	S_{tot}	[mm] :	10.00
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	0.80
De opgenomen deformatie arbeid	W	[Nm] :	2.16

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
 [Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101460

Perocodes: PF891920

F_{Pmax} : 0.31 kN

Proefnummer : V6101.1.

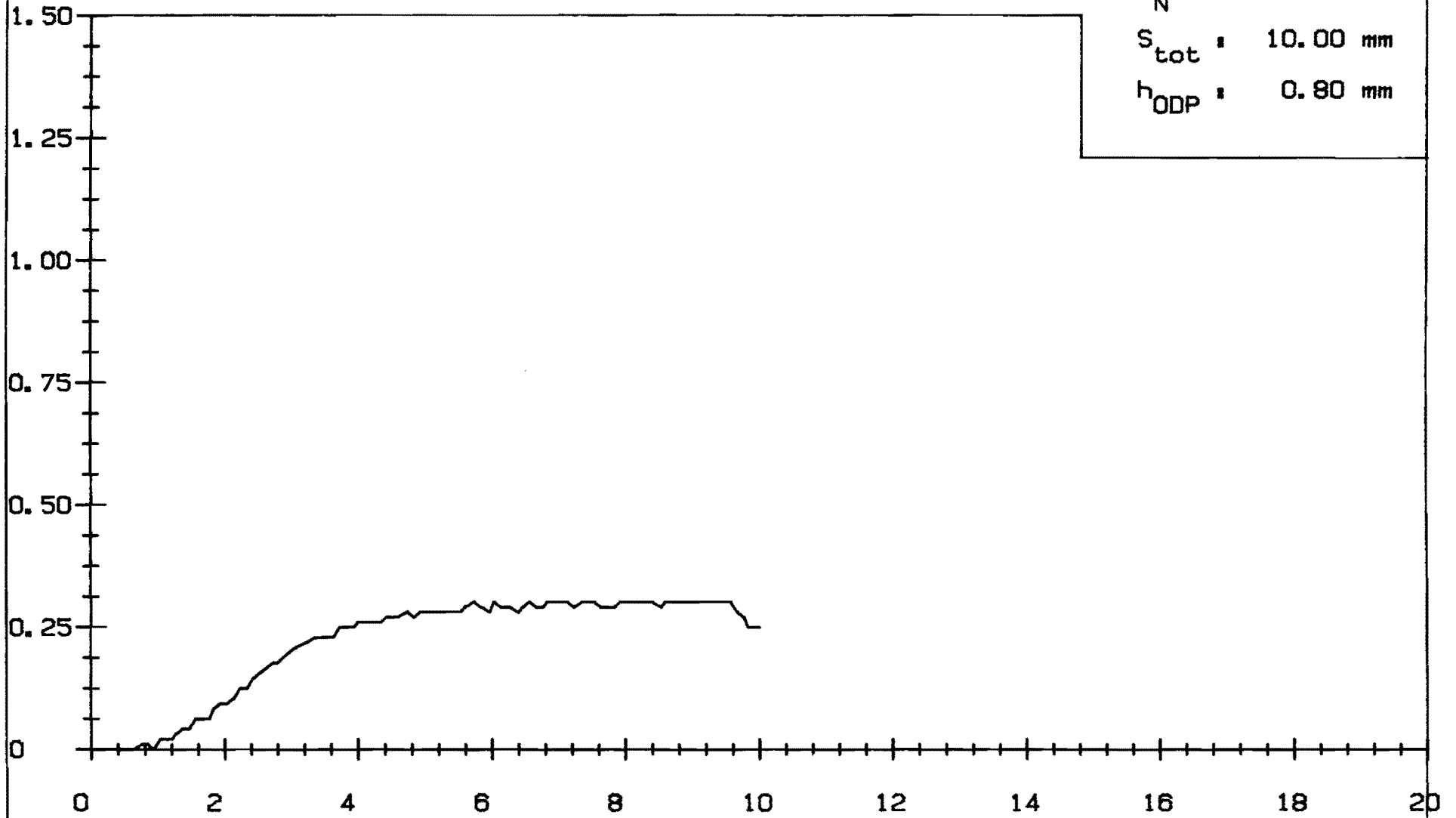
Arbeid : 2.16 Nm

S_N : 9.20 mm

S_{tot} : 10.00 mm

h_{ODP} : 0.80 mm

F_p [kN]



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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891920

IOPM-BUIGEN-TUE

Plaatcode : F1101460

Proefnummer: V6101.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(-0.00, 0.28)	(0.00, 0.36)	(-0.00, 0.48)
(-0.00, 0.56)	(0.00, 0.64)	(0.01, 0.76)	(0.01, 0.84)
(0.01, 0.92)	(0.02, 1.04)	(0.02, 1.12)	(0.02, 1.20)
(0.03, 1.28)	(0.04, 1.36)	(0.04, 1.48)	(0.06, 1.56)
(0.06, 1.64)	(0.07, 1.76)	(0.09, 1.84)	(0.09, 1.92)
(0.10, 2.04)	(0.11, 2.12)	(0.12, 2.24)	(0.13, 2.32)
(0.15, 2.44)	(0.16, 2.52)	(0.16, 2.64)	(0.17, 2.72)
(0.18, 2.80)	(0.19, 2.96)	(0.20, 3.08)	(0.22, 3.24)
(0.23, 3.36)	(0.23, 3.52)	(0.23, 3.64)	(0.25, 3.72)
(0.25, 3.84)	(0.25, 3.92)	(0.26, 4.00)	(0.26, 4.16)
(0.26, 4.24)	(0.26, 4.32)	(0.27, 4.44)	(0.27, 4.52)
(0.27, 4.60)	(0.28, 4.72)	(0.27, 4.84)	(0.28, 4.92)
(0.28, 5.04)	(0.29, 5.12)	(0.28, 5.24)	(0.29, 5.40)
(0.28, 5.52)	(0.29, 5.60)	(0.30, 5.72)	(0.29, 5.84)
(0.29, 5.96)	(0.30, 6.04)	(0.29, 6.12)	(0.29, 6.20)
(0.29, 6.28)	(0.29, 6.40)	(0.29, 6.48)	(0.30, 6.56)
(0.29, 6.68)	(0.29, 6.76)	(0.30, 6.84)	(0.30, 6.96)
(0.30, 7.12)	(0.29, 7.24)	(0.30, 7.36)	(0.30, 7.44)
(0.30, 7.52)	(0.29, 7.64)	(0.29, 7.76)	(0.29, 7.84)
(0.30, 7.92)	(0.30, 8.04)	(0.30, 8.12)	(0.30, 8.20)
(0.30, 8.28)	(0.30, 8.40)	(0.29, 8.52)	(0.30, 8.60)
(0.30, 8.68)	(0.30, 8.76)	(0.30, 8.84)	(0.30, 8.92)
(0.30, 9.04)	(0.30, 9.12)	(0.31, 9.20)	(0.30, 9.28)
(0.31, 9.40)	(0.30, 9.48)	(0.30, 9.56)	(0.28, 9.68)
(0.27, 9.76)	(0.25, 9.84)	(0.25, 9.92)	(0.25, 10.00)
(0.25, 10.00)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.31
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.20
De totale procesweg	S_{tot} [mm] :	10.00
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	0.80
De opgenomen deformatie arbeid	W [Nm] :	2.16

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF891921
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 125
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101620
Proefnummer : V2251.1.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	65.04
De maximaal optredende perskracht	F_{Pmax}	[kN] :	1.18
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	5.40
De totale procesweg	S_{tot}	[mm] :	24.28
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	18.88
De opgenomen deformatie arbeid	W	[Nm] :	16.95

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101620

Perescode: PF891921

F_{Pmax} : 1.18 kN

Proefnummer : V2251.1.

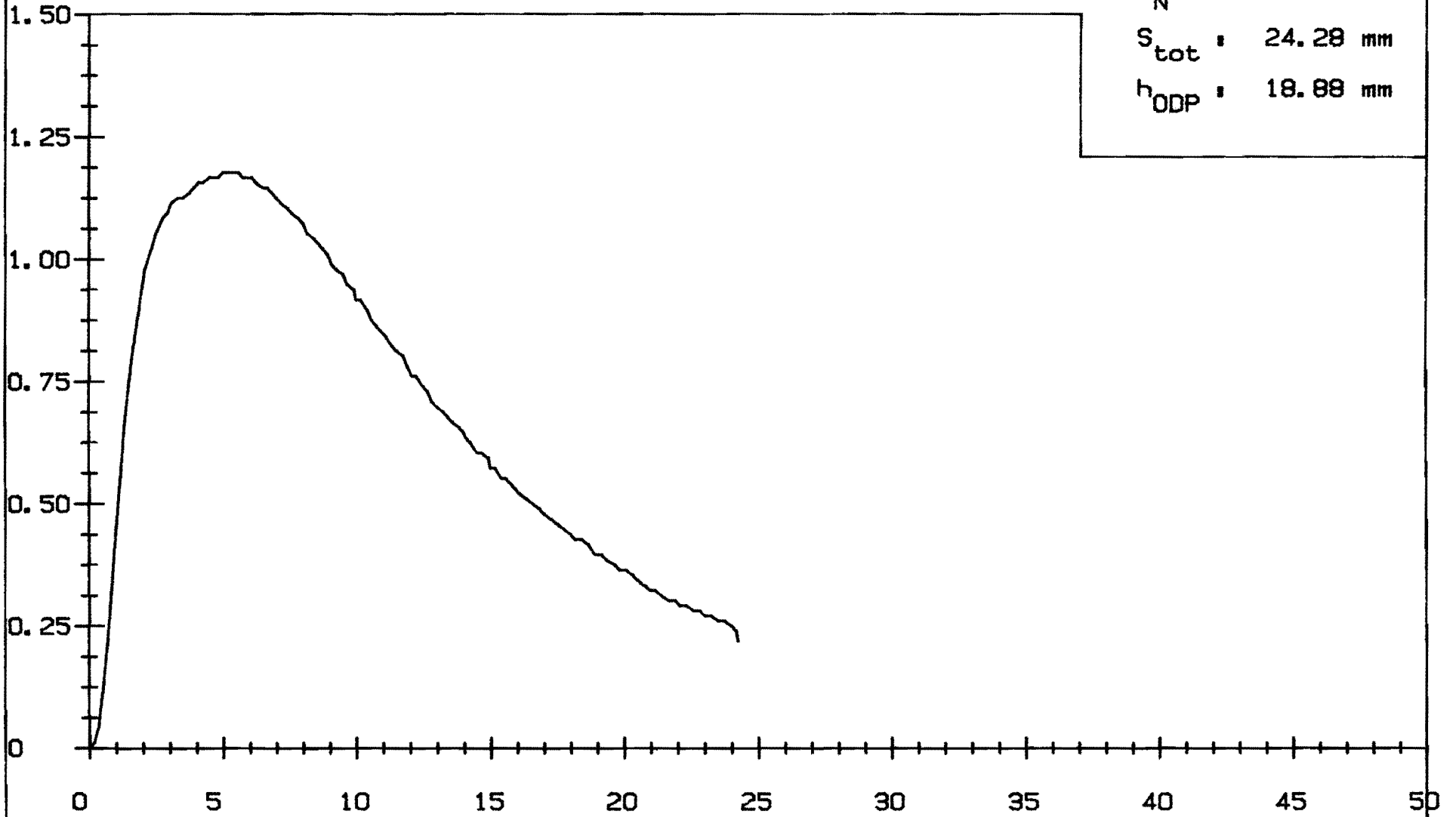
Arbeid : 16.95 Nm

S_N : 5.40 mm

S_{tot} : 24.28 mm

h_{ODP} : 18.88 mm

F_p [kN]



TUE: Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891921

IOPM-BUIGEN-TUE

Plaatcode : F1101620

Proefnummer: V2251.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.01, 0.20)	(0.04, 0.36)	(0.11, 0.52)
(0.20, 0.68)	(0.32, 0.84)	(0.45, 1.00)	(0.55, 1.16)
(0.66, 1.32)	(0.75, 1.48)	(0.83, 1.64)	(0.89, 1.80)
(0.95, 1.96)	(0.98, 2.12)	(1.02, 2.32)	(1.05, 2.52)
(1.08, 2.72)	(1.10, 2.92)	(1.11, 3.12)	(1.12, 3.32)
(1.13, 3.52)	(1.14, 3.72)	(1.15, 3.92)	(1.16, 4.12)
(1.16, 4.28)	(1.16, 4.48)	(1.17, 4.64)	(1.17, 4.84)
(1.17, 5.04)	(1.17, 5.20)	(1.18, 5.40)	(1.17, 5.56)
(1.17, 5.76)	(1.16, 5.92)	(1.16, 6.12)	(1.16, 6.28)
(1.15, 6.48)	(1.14, 6.68)	(1.13, 6.84)	(1.12, 7.04)
(1.12, 7.20)	(1.11, 7.40)	(1.10, 7.60)	(1.08, 7.80)
(1.07, 8.00)	(1.06, 8.20)	(1.04, 8.40)	(1.03, 8.56)
(1.02, 8.76)	(1.01, 8.92)	(0.99, 9.12)	(0.98, 9.28)
(0.97, 9.48)	(0.95, 9.68)	(0.93, 9.88)	(0.92, 10.04)
(0.91, 10.20)	(0.90, 10.40)	(0.88, 10.60)	(0.87, 10.76)
(0.85, 10.92)	(0.84, 11.12)	(0.82, 11.32)	(0.81, 11.52)
(0.80, 11.72)	(0.78, 11.92)	(0.76, 12.12)	(0.76, 12.28)
(0.74, 12.48)	(0.73, 12.64)	(0.71, 12.84)	(0.70, 13.04)
(0.69, 13.24)	(0.68, 13.40)	(0.67, 13.56)	(0.65, 13.80)
(0.64, 13.96)	(0.64, 14.12)	(0.63, 14.28)	(0.61, 14.48)
(0.60, 14.68)	(0.59, 14.88)	(0.58, 15.04)	(0.57, 15.20)
(0.56, 15.44)	(0.55, 15.60)	(0.54, 15.76)	(0.53, 15.92)
(0.52, 16.12)	(0.51, 16.36)	(0.50, 16.56)	(0.49, 16.80)
(0.48, 17.04)	(0.47, 17.24)	(0.46, 17.52)	(0.45, 17.76)
(0.44, 17.96)	(0.43, 18.20)	(0.42, 18.40)	(0.41, 18.64)
(0.40, 18.92)	(0.39, 19.16)	(0.38, 19.36)	(0.37, 19.64)
(0.37, 19.84)	(0.36, 20.08)	(0.35, 20.32)	(0.34, 20.52)
(0.34, 20.76)	(0.33, 21.00)	(0.32, 21.20)	(0.32, 21.40)
(0.31, 21.68)	(0.30, 21.92)	(0.30, 22.12)	(0.29, 22.36)
(0.29, 22.56)	(0.28, 22.80)	(0.27, 23.04)	(0.27, 23.24)
(0.26, 23.52)	(0.26, 23.76)	(0.25, 23.96)	(0.24, 24.20)
(0.22, 24.28)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	1.18
De deelprocesweg bij F_{Pmax}	S_N [mm] :	5.40
De totale procesweg	S_{tot} [mm] :	24.28
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	18.88
De opgenomen deformatie arbeid	W [Nm] :	16.95

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF891922
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 120
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101630
Proefnummer : V3251.1.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 65.03
De maximaal optredende perskracht F_{Pmax} [kN] : 0.71
De deelprocesweg bij F_{Pmax} S_N [mm] : 6.00
De totale procesweg S_{tot} [mm] : 24.28
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 18.28
De opgenomen deformatie arbeid W [Nm] : 12.61

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101630

Perescoder: PF891922

F_{Pmax} : 0.71 kN

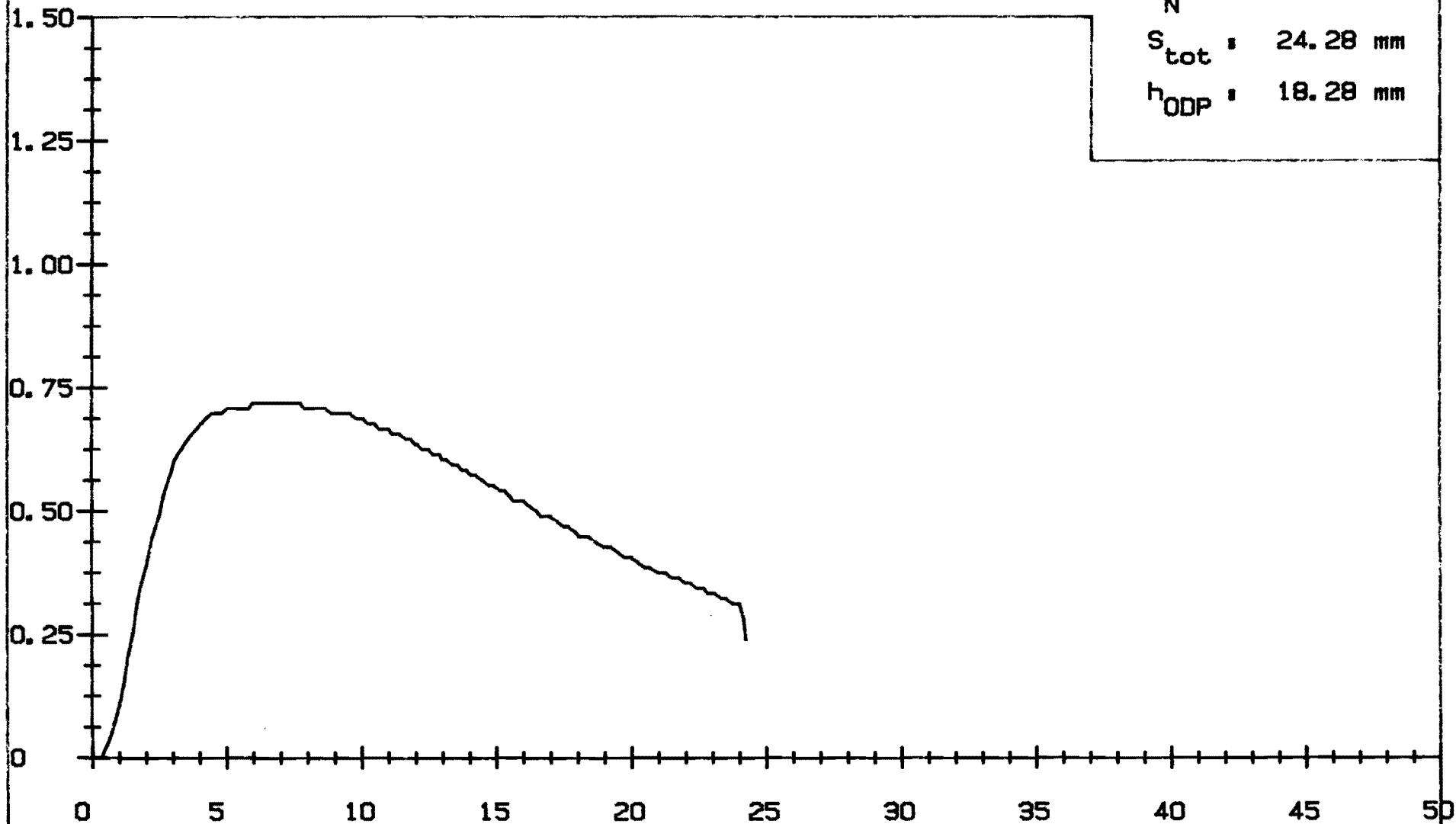
Proefnummer : V3251.1.

Arbeid : 12.61 Nm

S_N : 6.00 mm

S_{tot} : 24.28 mm

h_{ODP} : 18.28 mm



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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891922

IOPM-BUIGEN-TUE

Plaatcode : F1101630

Proefnummer: V3251.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.00, 0.32)	(0.02, 0.52)	(0.04, 0.68)
(0.07, 0.84)	(0.11, 1.00)	(0.15, 1.16)	(0.20, 1.36)
(0.25, 1.52)	(0.31, 1.68)	(0.35, 1.84)	(0.39, 2.00)
(0.45, 2.24)	(0.49, 2.48)	(0.53, 2.68)	(0.58, 2.92)
(0.60, 3.12)	(0.63, 3.36)	(0.65, 3.60)	(0.67, 3.92)
(0.68, 4.12)	(0.69, 4.28)	(0.70, 4.48)	(0.70, 4.64)
(0.70, 4.84)	(0.71, 5.08)	(0.71, 5.24)	(0.71, 5.48)
(0.71, 5.68)	(0.71, 5.84)	(0.71, 6.00)	(0.71, 6.20)
(0.71, 6.40)	(0.71, 6.56)	(0.71, 6.80)	(0.71, 7.00)
(0.71, 7.16)	(0.71, 7.36)	(0.71, 7.52)	(0.71, 7.72)
(0.71, 7.88)	(0.71, 8.12)	(0.71, 8.28)	(0.71, 8.48)
(0.71, 8.64)	(0.70, 8.88)	(0.70, 9.08)	(0.70, 9.24)
(0.70, 9.44)	(0.69, 9.60)	(0.69, 9.80)	(0.69, 9.96)
(0.69, 10.12)	(0.68, 10.28)	(0.68, 10.48)	(0.67, 10.68)
(0.67, 10.84)	(0.66, 11.04)	(0.66, 11.20)	(0.65, 11.40)
(0.65, 11.64)	(0.64, 11.80)	(0.64, 11.96)	(0.64, 12.12)
(0.63, 12.28)	(0.62, 12.52)	(0.62, 12.68)	(0.61, 12.88)
(0.61, 13.04)	(0.60, 13.20)	(0.60, 13.40)	(0.59, 13.56)
(0.59, 13.76)	(0.58, 13.92)	(0.58, 14.12)	(0.57, 14.28)
(0.56, 14.48)	(0.56, 14.72)	(0.55, 14.92)	(0.54, 15.16)
(0.54, 15.32)	(0.53, 15.48)	(0.53, 15.68)	(0.52, 15.84)
(0.52, 16.00)	(0.51, 16.24)	(0.50, 16.48)	(0.49, 16.68)
(0.49, 16.96)	(0.48, 17.24)	(0.47, 17.48)	(0.47, 17.68)
(0.46, 17.92)	(0.45, 18.12)	(0.44, 18.40)	(0.43, 18.68)
(0.43, 18.96)	(0.42, 19.24)	(0.42, 19.48)	(0.41, 19.76)
(0.40, 20.00)	(0.40, 20.24)	(0.39, 20.48)	(0.38, 20.68)
(0.38, 20.96)	(0.37, 21.24)	(0.37, 21.52)	(0.36, 21.76)
(0.36, 21.96)	(0.35, 22.20)	(0.35, 22.40)	(0.34, 22.64)
(0.34, 22.84)	(0.33, 23.08)	(0.32, 23.32)	(0.32, 23.52)
(0.31, 23.76)	(0.31, 23.96)	(0.28, 24.20)	(0.24, 24.28)

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.71
De deelprocesweg bij F_{Pmax}	S_N [mm] :	6.00
De totale procesweg	S_{tot} [mm] :	24.28
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	18.28
De opgenomen deformatie arbeid	W [Nm] :	12.61

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORTEPERS

- PROEFGEGEVENS -

Perscode : PF891923
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 110
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101640
Proefnummer : V4251.1.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 65.02
De maximaal optredende perskracht F_{Pmax} [kN] : 0.51
De deelprocesweg bij F_{Pmax} S_N [mm] : 8.48
De totale procesweg S_{tot} [mm] : 24.20
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 15.72
De opgenomen deformatie arbeid W [Nm] : 9.79

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101640

Perecoder: PF891923

F_{Pmax} : 0.51 kN

Proefnummer : V4251.1.

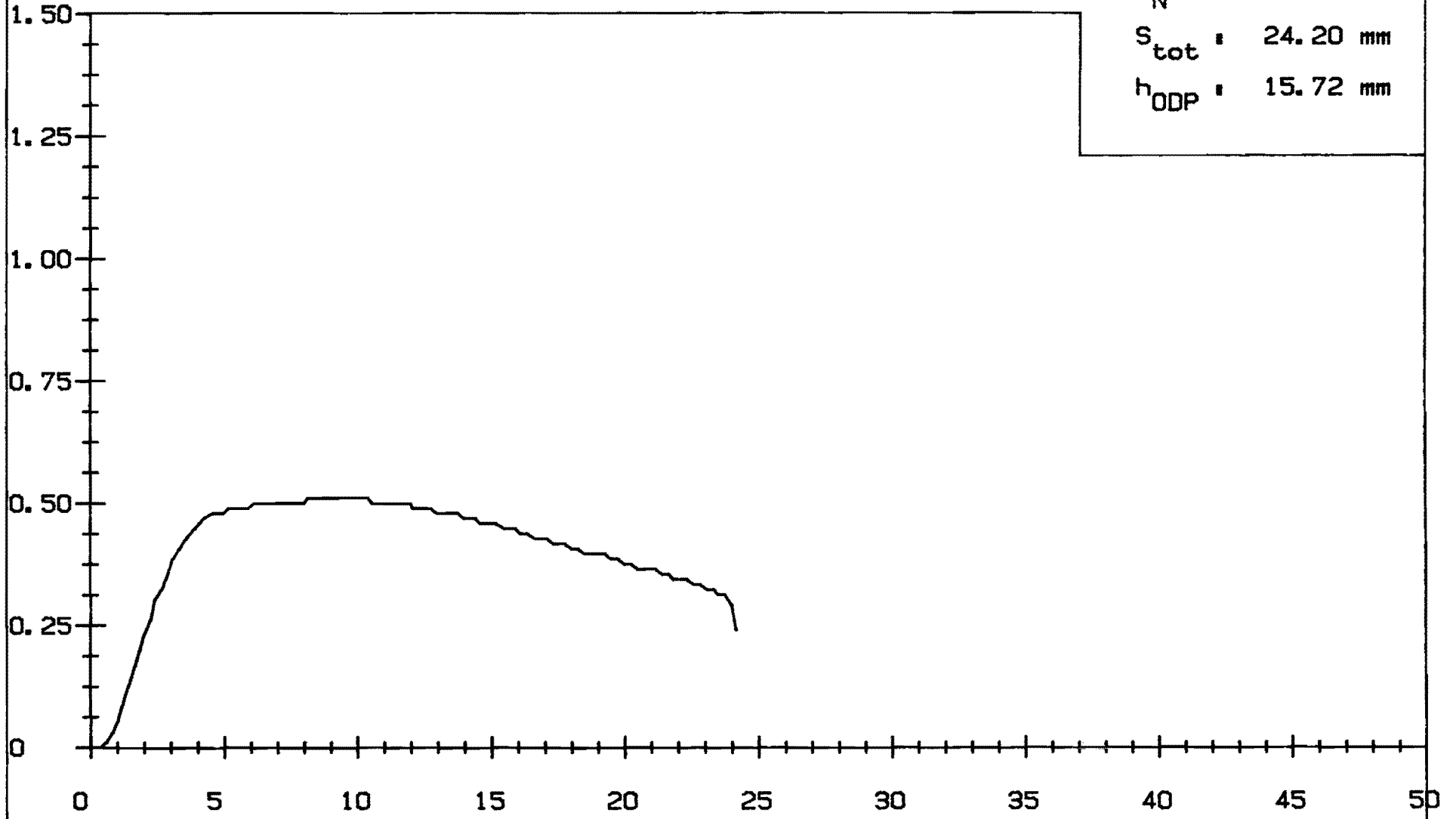
Arbeid : 9.79 Nm

S_N : 8.48 mm

S_{tot} : 24.20 mm

h_{ODP} : 15.72 mm

F_p [kN]



TUE, Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891923

IOPM-BUIGEN-TUE

Plaatcode : F1101640

Proefnummer: V4251.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.36)	(0.01, 0.60)	(0.03, 0.80)
(0.05, 1.00)	(0.08, 1.20)	(0.12, 1.44)	(0.16, 1.64)
(0.19, 1.84)	(0.23, 2.04)	(0.26, 2.24)	(0.30, 2.44)
(0.33, 2.64)	(0.35, 2.80)	(0.38, 3.08)	(0.41, 3.36)
(0.43, 3.60)	(0.45, 3.88)	(0.46, 4.12)	(0.46, 4.28)
(0.47, 4.56)	(0.48, 4.80)	(0.48, 4.96)	(0.49, 5.20)
(0.49, 5.40)	(0.49, 5.60)	(0.49, 5.88)	(0.50, 6.16)
(0.50, 6.40)	(0.50, 6.68)	(0.50, 6.84)	(0.50, 7.04)
(0.50, 7.32)	(0.50, 7.56)	(0.50, 7.72)	(0.50, 7.96)
(0.51, 8.16)	(0.51, 8.32)	(0.51, 8.48)	(0.51, 8.68)
(0.51, 8.92)	(0.51, 9.20)	(0.51, 9.44)	(0.51, 9.60)
(0.51, 9.84)	(0.51, 10.04)	(0.51, 10.20)	(0.51, 10.40)
(0.50, 10.60)	(0.50, 10.80)	(0.50, 11.08)	(0.50, 11.32)
(0.50, 11.52)	(0.50, 11.72)	(0.50, 11.96)	(0.49, 12.12)
(0.49, 12.32)	(0.49, 12.52)	(0.49, 12.72)	(0.48, 12.96)
(0.48, 13.12)	(0.48, 13.36)	(0.48, 13.60)	(0.47, 13.76)
(0.47, 13.96)	(0.47, 14.16)	(0.46, 14.44)	(0.46, 14.60)
(0.46, 14.80)	(0.46, 14.96)	(0.46, 15.20)	(0.45, 15.48)
(0.45, 15.68)	(0.44, 15.88)	(0.44, 16.08)	(0.43, 16.36)
(0.43, 16.64)	(0.43, 16.84)	(0.42, 17.08)	(0.42, 17.32)
(0.42, 17.52)	(0.41, 17.76)	(0.41, 18.00)	(0.40, 18.24)
(0.40, 18.48)	(0.40, 18.72)	(0.39, 18.96)	(0.39, 19.24)
(0.38, 19.52)	(0.38, 19.76)	(0.38, 19.96)	(0.37, 20.24)
(0.37, 20.52)	(0.36, 20.76)	(0.36, 20.96)	(0.36, 21.20)
(0.35, 21.40)	(0.35, 21.64)	(0.35, 21.84)	(0.34, 22.08)
(0.34, 22.32)	(0.34, 22.56)	(0.33, 22.84)	(0.33, 23.08)
(0.32, 23.32)	(0.32, 23.52)	(0.31, 23.76)	(0.29, 23.96)
(0.23, 24.20)	(0.23, 24.20)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.51
De deelprocesweg bij F_{Pmax}	S_N [mm] :	8.48
De totale procesweg	S_{tot} [mm] :	24.20
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	15.72
De opgenomen deformatie arbeid	W [Nm] :	9.79

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF891924
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 118
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101650
Proefnummer : V5251.1.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] : 65.02
De maximaal optredende perskracht	F_{Pmax}	[kN] : 0.39
De deelprocesweg bij F_{Pmax}	S_N	[mm] : 10.28
De totale procesweg	S_{tot}	[mm] : 24.12
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] : 13.84
De opgenomen deformatie arbeid	W	[Nm] : 7.74

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101650

Perescode: PF891924

F_{Pmax} : 0.39 kN

Proefnummer : V5251.1.

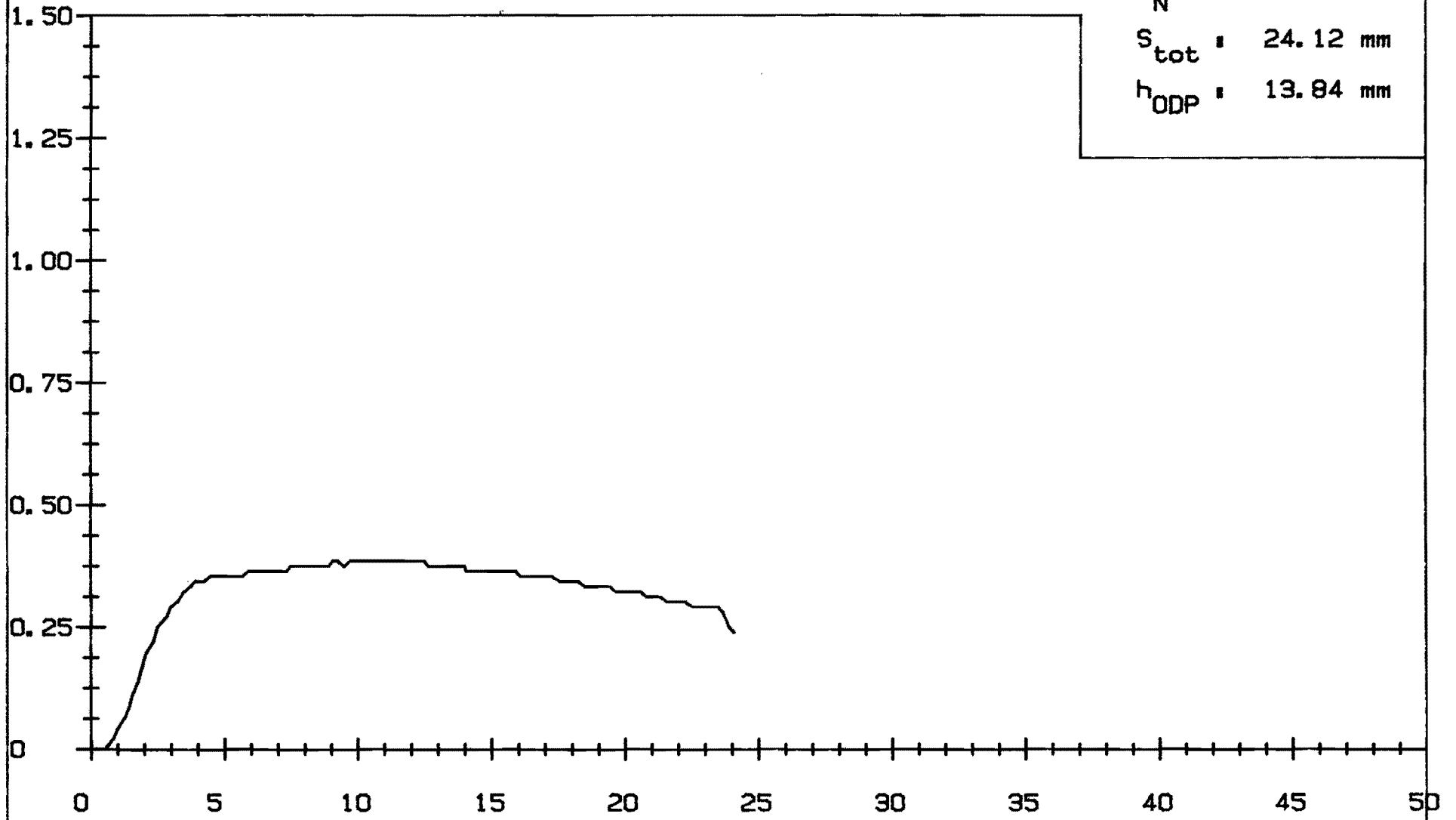
Arbeid : 7.74 Nm

S_N : 10.28 mm

S_{tot} : 24.12 mm

h_{ODP} : 13.84 mm

F_p [kN]



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IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891924

IOPM-BUIGEN-TUE

Plaatcode : F1101650

Proefnummer: V5251.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.32)	(0.00, 0.52)	(0.01, 0.68)
(0.02, 0.84)	(0.05, 1.04)	(0.07, 1.24)	(0.09, 1.40)
(0.11, 1.56)	(0.14, 1.72)	(0.17, 1.92)	(0.20, 2.12)
(0.22, 2.32)	(0.25, 2.52)	(0.27, 2.80)	(0.29, 3.04)
(0.31, 3.24)	(0.32, 3.48)	(0.33, 3.72)	(0.34, 3.92)
(0.34, 4.12)	(0.35, 4.28)	(0.35, 4.52)	(0.35, 4.72)
(0.35, 4.88)	(0.35, 5.12)	(0.36, 5.28)	(0.36, 5.48)
(0.36, 5.68)	(0.36, 5.88)	(0.36, 6.12)	(0.36, 6.32)
(0.36, 6.52)	(0.37, 6.72)	(0.37, 6.92)	(0.37, 7.12)
(0.37, 7.32)	(0.37, 7.52)	(0.37, 7.72)	(0.37, 7.92)
(0.37, 8.12)	(0.38, 8.28)	(0.38, 8.48)	(0.38, 8.64)
(0.38, 8.88)	(0.38, 9.08)	(0.38, 9.28)	(0.38, 9.52)
(0.38, 9.72)	(0.38, 9.92)	(0.38, 10.12)	(0.39, 10.28)
(0.39, 10.52)	(0.38, 10.72)	(0.38, 10.88)	(0.38, 11.04)
(0.39, 11.24)	(0.38, 11.40)	(0.38, 11.60)	(0.38, 11.76)
(0.38, 11.96)	(0.38, 12.12)	(0.38, 12.28)	(0.38, 12.48)
(0.38, 12.68)	(0.38, 12.84)	(0.38, 13.04)	(0.38, 13.20)
(0.38, 13.40)	(0.38, 13.56)	(0.37, 13.80)	(0.37, 13.96)
(0.37, 14.12)	(0.37, 14.32)	(0.37, 14.52)	(0.37, 14.72)
(0.37, 14.88)	(0.37, 15.08)	(0.36, 15.32)	(0.36, 15.52)
(0.36, 15.72)	(0.36, 15.92)	(0.36, 16.12)	(0.36, 16.36)
(0.35, 16.56)	(0.35, 16.84)	(0.35, 17.08)	(0.35, 17.28)
(0.35, 17.56)	(0.34, 17.84)	(0.34, 18.08)	(0.34, 18.28)
(0.34, 18.52)	(0.34, 18.76)	(0.33, 18.96)	(0.33, 19.20)
(0.33, 19.40)	(0.33, 19.64)	(0.33, 19.84)	(0.33, 20.08)
(0.32, 20.28)	(0.32, 20.56)	(0.32, 20.80)	(0.31, 21.08)
(0.31, 21.32)	(0.31, 21.56)	(0.31, 21.84)	(0.30, 22.08)
(0.30, 22.28)	(0.30, 22.56)	(0.30, 22.80)	(0.29, 23.04)
(0.29, 23.24)	(0.29, 23.48)	(0.28, 23.68)	(0.25, 23.92)
(0.24, 24.12)	(0.24, 24.12)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.39
De deelprocesweg bij F_{Pmax}	S_N [mm] :	10.28
De totale procesweg	S_{tot} [mm] :	24.12
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	13.84
De opgenomen deformatie arbeid	W [Nm] :	7.74

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF891925
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 110
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101660
Proefnummer : V6251.1.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 65.00
De maximaal optredende perskracht F_{Pmax} [kN] : 0.31
De deelprocesweg bij F_{Pmax} S_N [mm] : 13.40
De totale procesweg S_{tot} [mm] : 24.52
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 11.12
De opgenomen deformatie arbeid W [Nm] : 6.31

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101660

Perescode: PF891925

F_{Pmax} : 0.31 kN

Proefnummer : V6251.1.

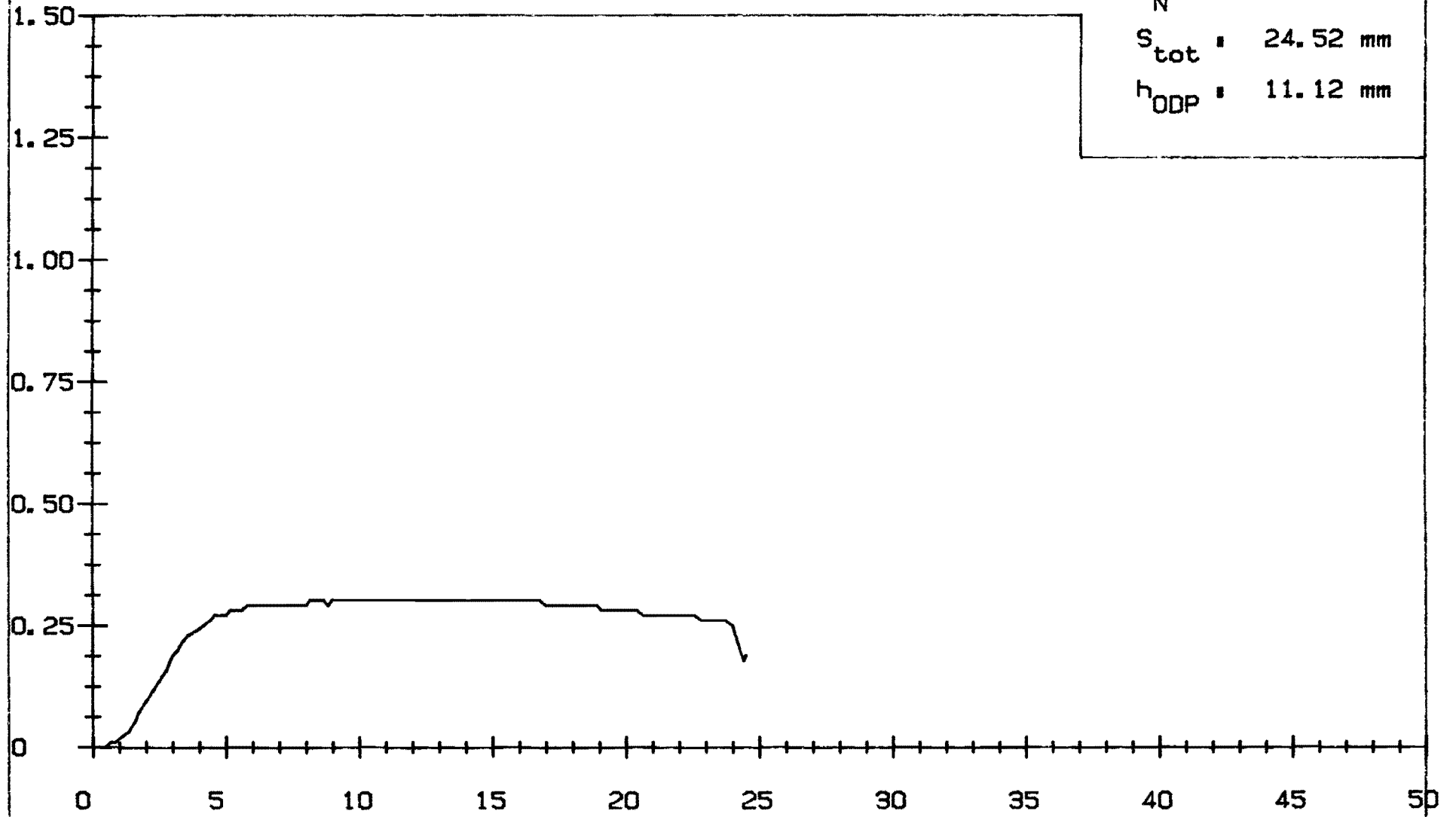
Arbeid : 6.31 Nm

S_N : 13.40 mm

S_{tot} : 24.52 mm

h_{ODP} : 11.12 mm

\hat{F}_p [kN]



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-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891925

IOPM-BUIGEN-TUE

Plaatcode : F1101660

Proefnummer: V6251.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.40)	(0.01, 0.64)	(0.01, 0.84)
(0.02, 1.08)	(0.03, 1.32)	(0.06, 1.56)	(0.07, 1.76)
(0.09, 2.00)	(0.12, 2.24)	(0.14, 2.48)	(0.16, 2.72)
(0.18, 2.96)	(0.20, 3.20)	(0.22, 3.44)	(0.23, 3.60)
(0.24, 3.88)	(0.25, 4.16)	(0.26, 4.40)	(0.27, 4.60)
(0.27, 4.80)	(0.28, 4.96)	(0.28, 5.16)	(0.28, 5.40)
(0.28, 5.60)	(0.29, 5.84)	(0.29, 6.04)	(0.29, 6.28)
(0.29, 6.52)	(0.29, 6.72)	(0.29, 6.92)	(0.29, 7.16)
(0.30, 7.36)	(0.29, 7.60)	(0.30, 7.84)	(0.30, 8.04)
(0.30, 8.20)	(0.30, 8.40)	(0.30, 8.64)	(0.30, 8.84)
(0.30, 9.04)	(0.30, 9.28)	(0.30, 9.52)	(0.30, 9.72)
(0.30, 9.96)	(0.30,10.12)	(0.30,10.32)	(0.30,10.52)
(0.30,10.76)	(0.30,11.00)	(0.30,11.20)	(0.30,11.44)
(0.30,11.68)	(0.30,11.92)	(0.30,12.16)	(0.30,12.36)
(0.30,12.52)	(0.30,12.72)	(0.30,12.96)	(0.30,13.16)
(0.31,13.40)	(0.30,13.64)	(0.30,13.84)	(0.30,14.04)
(0.30,14.20)	(0.30,14.44)	(0.30,14.68)	(0.30,14.84)
(0.30,15.04)	(0.30,15.24)	(0.30,15.44)	(0.30,15.64)
(0.30,15.80)	(0.30,16.04)	(0.30,16.24)	(0.30,16.52)
(0.30,16.76)	(0.30,17.00)	(0.30,17.24)	(0.30,17.48)
(0.29,17.72)	(0.29,17.96)	(0.29,18.20)	(0.29,18.40)
(0.29,18.64)	(0.29,18.88)	(0.29,19.12)	(0.28,19.36)
(0.29,19.60)	(0.28,19.84)	(0.28,20.08)	(0.28,20.40)
(0.28,20.68)	(0.28,20.92)	(0.27,21.16)	(0.27,21.36)
(0.27,21.60)	(0.27,21.84)	(0.27,22.12)	(0.27,22.36)
(0.27,22.56)	(0.26,22.84)	(0.26,23.08)	(0.26,23.32)
(0.26,23.52)	(0.26,23.76)	(0.25,23.96)	(0.22,24.20)
(0.18,24.40)	(0.19,24.52)		

De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.31
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	13.40
De totale procesweg	S_{tot}	[mm] :	24.52
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	11.12
De opgenomen deformatie arbeid	W	[Nm] :	6.31

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 TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE
 S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF891926
 Materiaalsoort : SP/D
 Werkstofnummer : 1.0330
 Herkomst materiaal : MCB/TUE MAG.
 Plaatdikte s_0 [mm] : 1.0
 Datum beproeving [dd-mm-jj] : 09-05-89
 Aantal metingen : 97
 Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
 Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
 Type pers : CEZ-25-2-6
 Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
 Plaatcode : F1101670
 Proefnummer : V3401.1.

- OVERZICHT GEGEVENS UIT P-S KROMME -

Beginbreedte van de plaat b_0		[mm] : 65.02
De maximaal optredende perskracht	F_{Pmax}	[kN] : 0.70
De deelprocesweg bij F_{Pmax}	S_N	[mm] : 6.56
De totale procesweg	S_{tot}	[mm] : 39.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] : 33.36
De opgenomen deformatie arbeid	W	[Nm] : 14.95

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]

[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

Plaatcode : F1101670

Perscode: PF891926

F_{Pmax} : 0.70 kN

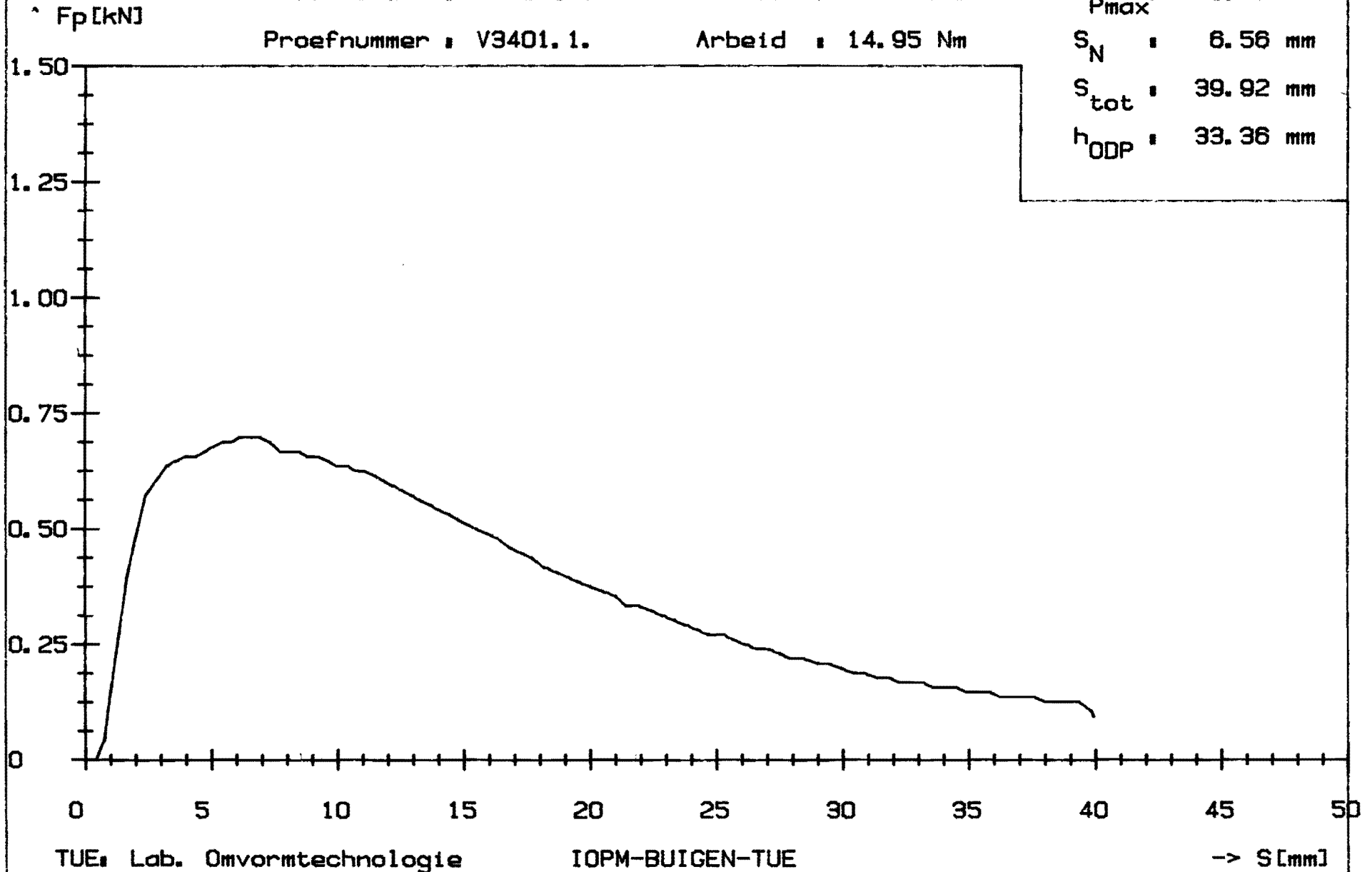
Proefnummer : V3401.1.

Arbeid : 14.95 Nm

S_N : 6.56 mm

S_{tot} : 39.92 mm

h_{ODP} : 33.36 mm



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S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891926

IOPM-BUIGEN-TUE

Plaatcode : F1101670

Proefnummer: V3401.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.40)	(0.04, 0.72)	(0.14, 1.04)
(0.27, 1.36)	(0.40, 1.68)	(0.48, 2.00)	(0.57, 2.44)
(0.61, 2.80)	(0.63, 3.24)	(0.64, 3.60)	(0.65, 4.00)
(0.66, 4.40)	(0.67, 4.76)	(0.68, 5.12)	(0.69, 5.48)
(0.69, 5.84)	(0.69, 6.20)	(0.70, 6.56)	(0.70, 6.92)
(0.68, 7.32)	(0.67, 7.72)	(0.66, 8.12)	(0.66, 8.48)
(0.66, 8.84)	(0.65, 9.28)	(0.64, 9.68)	(0.64, 10.00)
(0.63, 10.40)	(0.63, 10.76)	(0.62, 11.12)	(0.61, 11.48)
(0.60, 11.84)	(0.60, 12.20)	(0.58, 12.56)	(0.58, 12.92)
(0.56, 13.28)	(0.55, 13.68)	(0.54, 14.00)	(0.53, 14.40)
(0.52, 14.76)	(0.51, 15.12)	(0.50, 15.52)	(0.49, 15.92)
(0.47, 16.36)	(0.46, 16.80)	(0.45, 17.24)	(0.43, 17.68)
(0.42, 18.20)	(0.40, 18.64)	(0.40, 19.08)	(0.39, 19.52)
(0.37, 20.00)	(0.36, 20.52)	(0.35, 20.96)	(0.34, 21.40)
(0.33, 21.92)	(0.32, 22.40)	(0.31, 22.84)	(0.30, 23.32)
(0.29, 23.76)	(0.29, 24.24)	(0.28, 24.68)	(0.27, 25.24)
(0.26, 25.68)	(0.25, 26.12)	(0.24, 26.56)	(0.24, 27.04)
(0.23, 27.48)	(0.22, 27.92)	(0.22, 28.40)	(0.21, 28.96)
(0.20, 29.40)	(0.20, 29.92)	(0.19, 30.40)	(0.19, 30.84)
(0.18, 31.32)	(0.18, 31.80)	(0.17, 32.24)	(0.17, 32.68)
(0.16, 33.16)	(0.16, 33.60)	(0.15, 34.00)	(0.15, 34.48)
(0.15, 34.92)	(0.15, 35.36)	(0.14, 35.84)	(0.14, 36.24)
(0.14, 36.72)	(0.13, 37.12)	(0.13, 37.56)	(0.13, 38.04)
(0.13, 38.48)	(0.12, 38.92)	(0.12, 39.36)	(0.10, 39.80)
(0.09, 39.92)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.70
De deelprocesweg bij F_{Pmax}	S_N [mm] :	6.56
De totale procesweg	S_{tot} [mm] :	39.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	33.36
De opgenomen deformatie arbeid	W [Nm] :	14.95

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF891927
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 97
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101680
Proefnummer : V4401.1.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	64.96
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.49
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	8.48
De totale procesweg	S_{tot}	[mm] :	40.12
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	31.64
De opgenomen deformatie arbeid	W	[Nm] :	12.81

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101680

Perscode: PF891927

F_{Pmax} : 0.49 kN

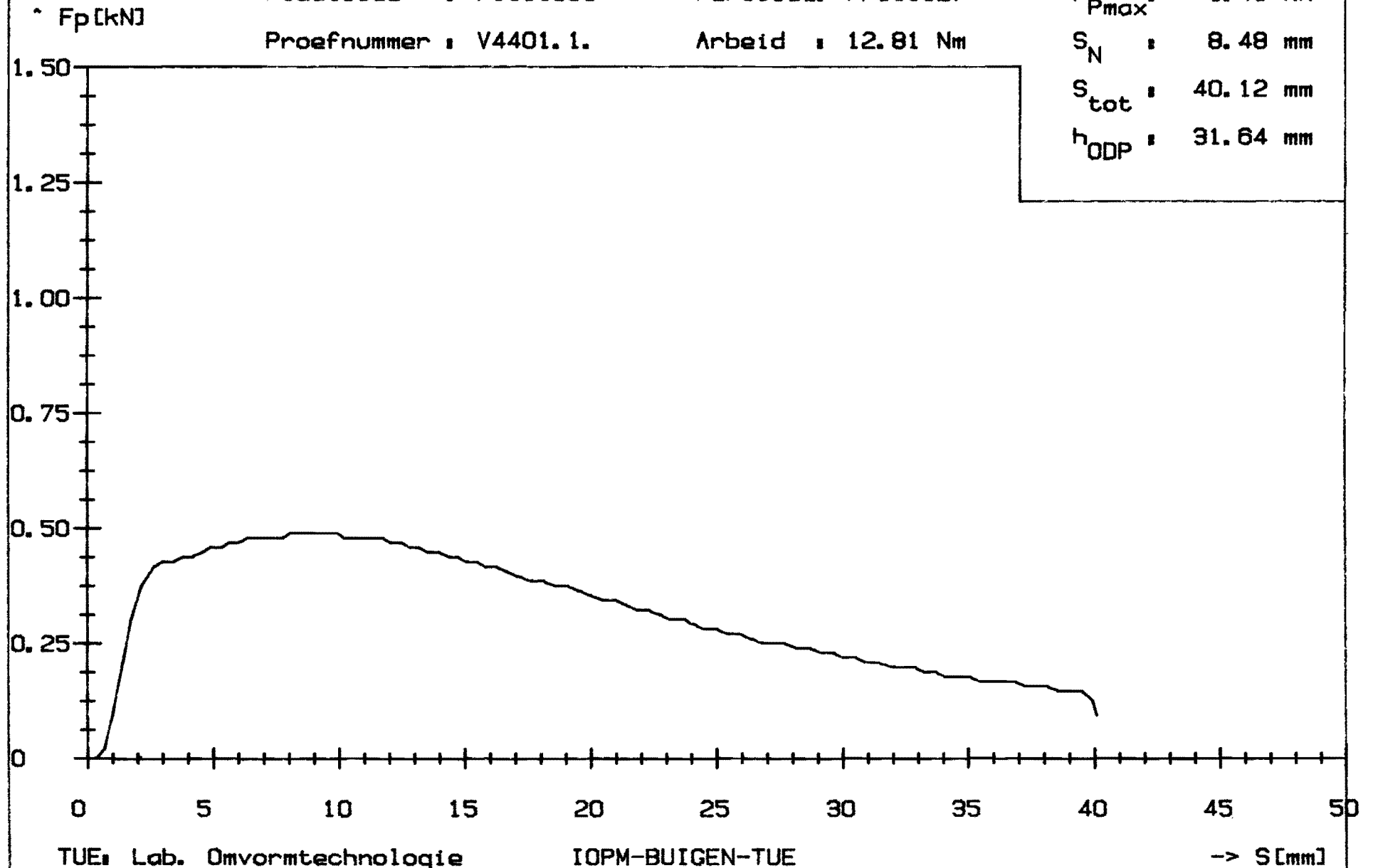
Proefnummer : V4401.1.

Arbeid : 12.81 Nm

S_N : 8.48 mm

S_{tot} : 40.12 mm

h_{ODP} : 31.64 mm



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-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891927

IOPM-BUIGEN-TUE

Plaatcode : F1101680

Proefnummer: V4401.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.36)	(0.02, 0.68)	(0.10, 1.04)
(0.21, 1.40)	(0.31, 1.76)	(0.37, 2.16)	(0.41, 2.64)
(0.43, 3.04)	(0.43, 3.44)	(0.44, 3.84)	(0.44, 4.20)
(0.45, 4.56)	(0.46, 4.92)	(0.46, 5.32)	(0.47, 5.68)
(0.47, 6.00)	(0.47, 6.40)	(0.48, 6.80)	(0.48, 7.28)
(0.48, 7.72)	(0.49, 8.12)	(0.49, 8.48)	(0.49, 8.84)
(0.49, 9.24)	(0.49, 9.60)	(0.49, 9.92)	(0.48, 10.28)
(0.48, 10.68)	(0.48, 11.08)	(0.47, 11.40)	(0.47, 11.76)
(0.47, 12.12)	(0.47, 12.48)	(0.46, 12.84)	(0.46, 13.20)
(0.45, 13.56)	(0.45, 14.00)	(0.44, 14.40)	(0.44, 14.76)
(0.43, 15.12)	(0.42, 15.48)	(0.42, 15.84)	(0.41, 16.24)
(0.40, 16.68)	(0.40, 17.12)	(0.39, 17.68)	(0.38, 18.12)
(0.38, 18.60)	(0.37, 19.08)	(0.36, 19.52)	(0.35, 19.96)
(0.35, 20.48)	(0.34, 20.96)	(0.33, 21.40)	(0.33, 21.84)
(0.32, 22.28)	(0.31, 22.76)	(0.30, 23.20)	(0.30, 23.64)
(0.29, 24.08)	(0.29, 24.52)	(0.28, 24.96)	(0.28, 25.40)
(0.27, 25.92)	(0.26, 26.36)	(0.25, 26.80)	(0.25, 27.28)
(0.25, 27.68)	(0.24, 28.20)	(0.24, 28.68)	(0.23, 29.16)
(0.23, 29.56)	(0.22, 30.04)	(0.22, 30.48)	(0.21, 30.92)
(0.21, 31.36)	(0.20, 31.96)	(0.20, 32.36)	(0.20, 32.80)
(0.19, 33.24)	(0.19, 33.68)	(0.18, 34.12)	(0.18, 34.60)
(0.17, 35.04)	(0.17, 35.48)	(0.17, 35.92)	(0.17, 36.36)
(0.16, 36.80)	(0.16, 37.24)	(0.15, 37.72)	(0.15, 38.12)
(0.15, 38.56)	(0.15, 39.04)	(0.14, 39.48)	(0.13, 39.92)
(0.10, 40.12)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.49
De deelprocesweg bij F_{Pmax}	S_N [mm] :	8.48
De totale procesweg	S_{tot} [mm] :	40.12
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	31.64
De opgenomen deformatie arbeid	W [Nm] :	12.81

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF891928
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 09-05-89
Aantal metingen : 97
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : P.H.G.G. Boonen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101690
Proefnummer : V5401.1.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	65.00
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.36
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	9.80
De totale procesweg	S_{tot}	[mm] :	40.12
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	30.32
De opgenomen deformatie arbeid	W	[Nm] :	10.71

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101690

Perscode: PF891928

F_{Pmax} : 0.36 kN

Proefnummer : V5401.1.

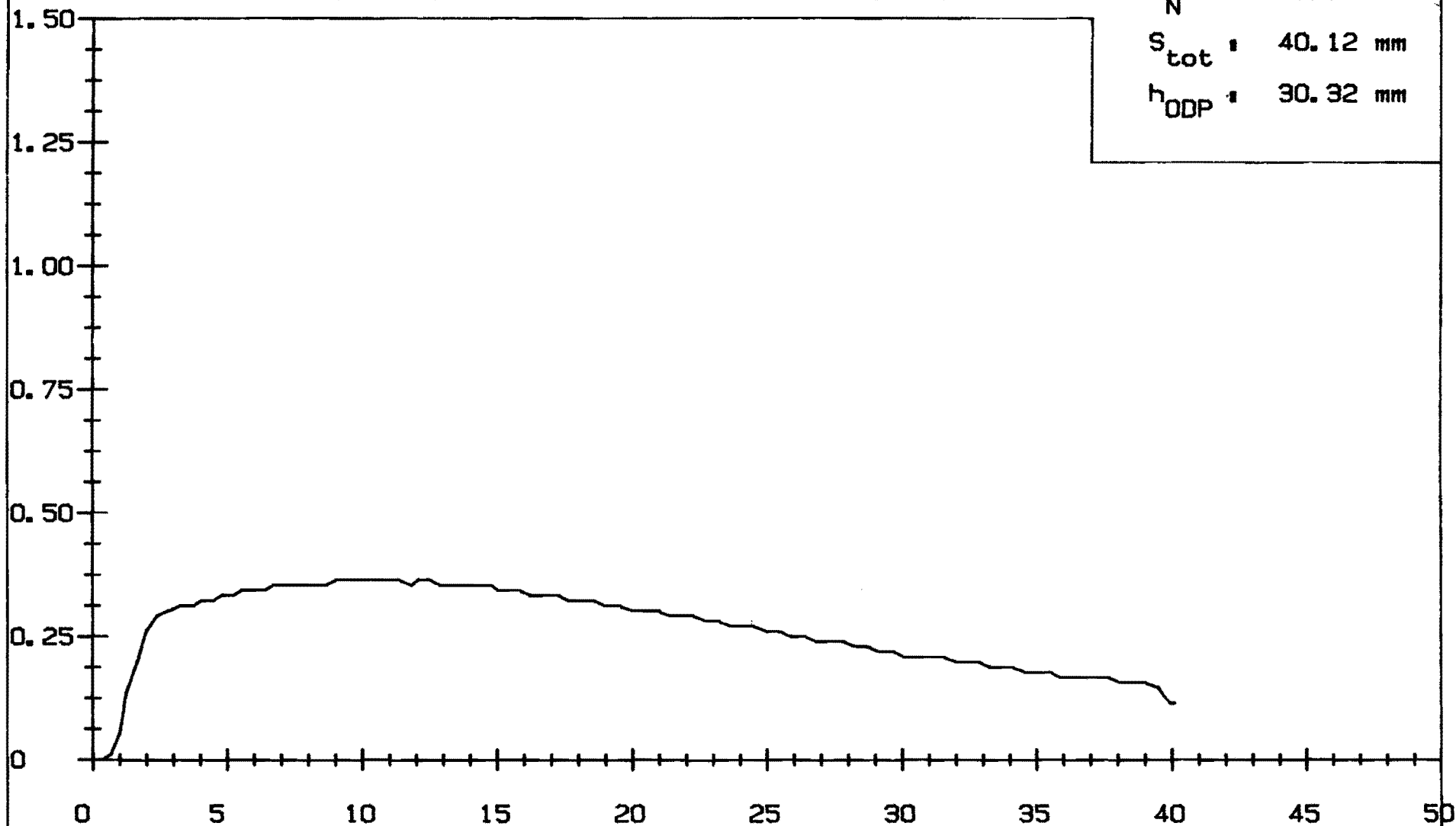
Arbeid : 10.71 Nm

S_N : 9.80 mm

S_{tot} : 40.12 mm

h_{ODP} : 30.32 mm

F_p [kN]



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-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891928

IOPM-BUIGEN-TUE

Plaatcode : F1101690

Proefnummer: V5401.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.32)	(0.01, 0.64)	(0.05, 0.96)
(0.13, 1.28)	(0.20, 1.64)	(0.26, 2.04)	(0.29, 2.44)
(0.30, 2.80)	(0.31, 3.32)	(0.32, 3.72)	(0.32, 4.12)
(0.33, 4.48)	(0.33, 4.84)	(0.34, 5.24)	(0.34, 5.60)
(0.34, 6.00)	(0.35, 6.40)	(0.35, 6.76)	(0.35, 7.12)
(0.35, 7.52)	(0.36, 7.88)	(0.36, 8.28)	(0.36, 8.68)
(0.36, 9.08)	(0.36, 9.40)	(0.36, 9.80)	(0.36, 10.20)
(0.36, 10.56)	(0.36, 10.92)	(0.36, 11.36)	(0.36, 11.80)
(0.36, 12.12)	(0.36, 12.48)	(0.36, 12.88)	(0.36, 13.20)
(0.35, 13.56)	(0.35, 14.00)	(0.35, 14.40)	(0.35, 14.76)
(0.35, 15.12)	(0.34, 15.48)	(0.34, 15.84)	(0.34, 16.24)
(0.34, 16.76)	(0.33, 17.24)	(0.33, 17.68)	(0.32, 18.12)
(0.32, 18.56)	(0.32, 19.04)	(0.31, 19.48)	(0.31, 19.96)
(0.30, 20.40)	(0.30, 20.92)	(0.29, 21.40)	(0.29, 21.88)
(0.29, 22.28)	(0.28, 22.76)	(0.28, 23.20)	(0.27, 23.64)
(0.27, 24.08)	(0.27, 24.52)	(0.26, 24.96)	(0.26, 25.40)
(0.25, 25.88)	(0.25, 26.40)	(0.24, 26.84)	(0.24, 27.36)
(0.23, 27.80)	(0.23, 28.24)	(0.23, 28.68)	(0.22, 29.16)
(0.22, 29.64)	(0.21, 30.12)	(0.21, 30.56)	(0.21, 31.04)
(0.20, 31.48)	(0.20, 31.96)	(0.20, 32.36)	(0.19, 32.84)
(0.19, 33.24)	(0.19, 33.68)	(0.18, 34.12)	(0.18, 34.56)
(0.18, 35.04)	(0.17, 35.48)	(0.17, 35.92)	(0.17, 36.36)
(0.17, 36.80)	(0.17, 37.24)	(0.16, 37.68)	(0.16, 38.12)
(0.15, 38.60)	(0.15, 39.04)	(0.15, 39.48)	(0.11, 39.92)
(0.11, 40.12)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.36
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.80
De totale procesweg	S_{tot} [mm] :	40.12
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	30.32
De opgenomen deformatie arbeid	W [Nm] :	10.71

=====

Plaatcode : F1101800

Perscode: PF891929

F_{Pmax} : 0.30 kN

Proefnummer : V6401.1.

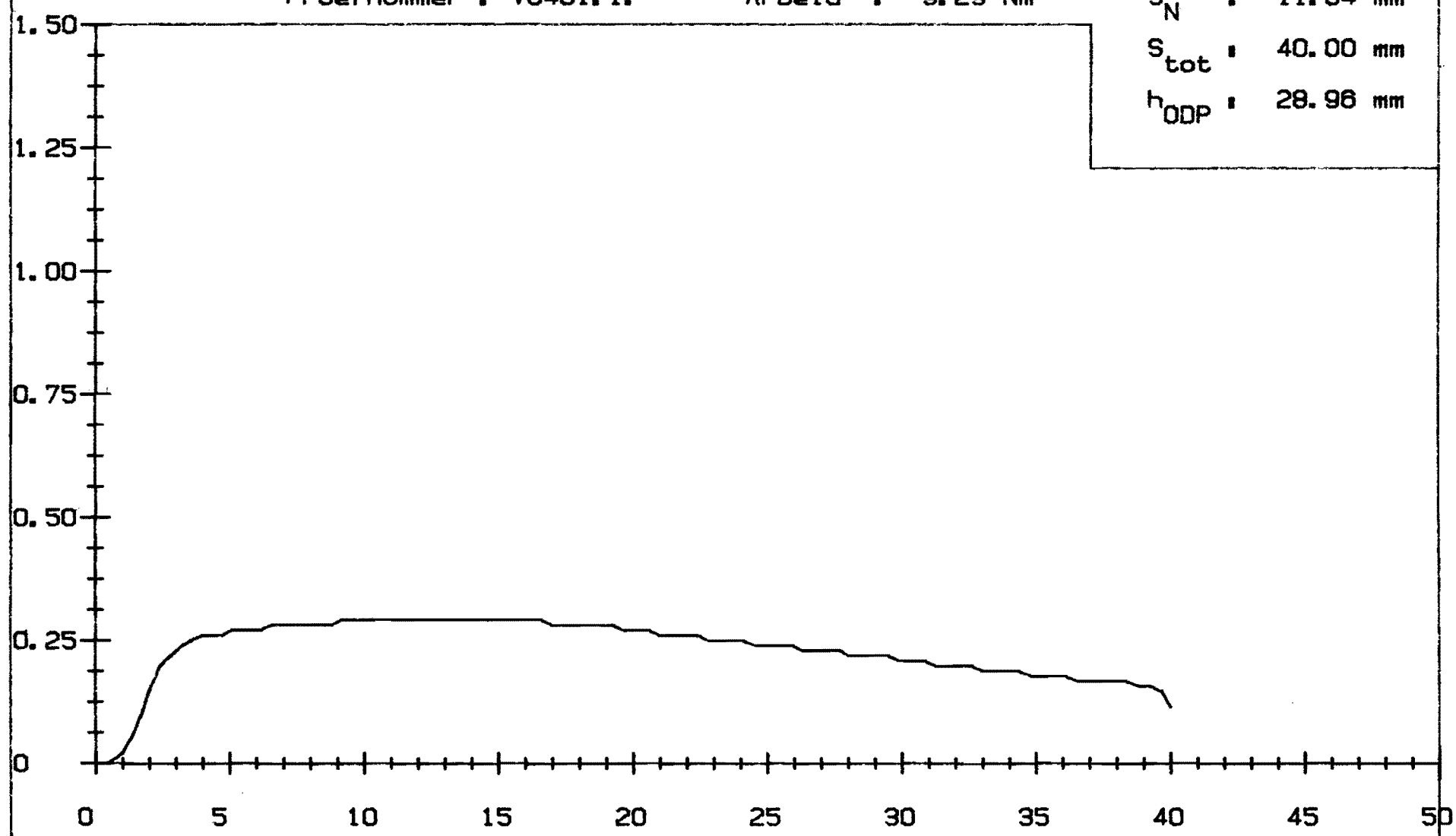
Arbeid : 9.29 Nm

S_N : 11.04 mm

S_{tot} : 40.00 mm

h_{ODP} : 28.96 mm

F_p [kN]



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IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891929

IOPM-BUIGEN-TUE

Plaatcode : F1101600

Proefnummer: V6401.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.40)	(0.01, 0.72)	(0.02, 1.04)
(0.06, 1.36)	(0.10, 1.68)	(0.14, 2.00)	(0.19, 2.44)
(0.22, 2.80)	(0.24, 3.24)	(0.25, 3.60)	(0.26, 4.00)
(0.26, 4.40)	(0.26, 4.76)	(0.27, 5.12)	(0.27, 5.48)
(0.27, 5.84)	(0.27, 6.20)	(0.28, 6.56)	(0.28, 6.92)
(0.28, 7.32)	(0.28, 7.72)	(0.28, 8.12)	(0.29, 8.48)
(0.29, 8.84)	(0.29, 9.20)	(0.29, 9.56)	(0.29, 9.92)
(0.29, 10.28)	(0.29, 10.68)	(0.30, 11.04)	(0.29, 11.40)
(0.30, 11.76)	(0.30, 12.12)	(0.30, 12.48)	(0.30, 12.84)
(0.30, 13.20)	(0.30, 13.56)	(0.29, 13.92)	(0.29, 14.28)
(0.29, 14.68)	(0.29, 15.04)	(0.29, 15.40)	(0.29, 15.76)
(0.29, 16.12)	(0.29, 16.56)	(0.29, 17.04)	(0.28, 17.48)
(0.28, 17.92)	(0.28, 18.36)	(0.28, 18.80)	(0.28, 19.24)
(0.27, 19.68)	(0.27, 20.12)	(0.27, 20.56)	(0.26, 21.04)
(0.26, 21.48)	(0.26, 21.92)	(0.26, 22.36)	(0.26, 22.80)
(0.25, 23.24)	(0.25, 23.68)	(0.25, 24.12)	(0.24, 24.56)
(0.24, 25.04)	(0.24, 25.48)	(0.24, 25.92)	(0.23, 26.36)
(0.23, 26.80)	(0.23, 27.24)	(0.23, 27.68)	(0.22, 28.12)
(0.22, 28.56)	(0.22, 29.04)	(0.21, 29.48)	(0.21, 29.92)
(0.21, 30.36)	(0.21, 30.80)	(0.20, 31.24)	(0.20, 31.68)
(0.20, 32.12)	(0.20, 32.56)	(0.19, 33.04)	(0.19, 33.48)
(0.19, 33.92)	(0.18, 34.36)	(0.18, 34.80)	(0.18, 35.24)
(0.18, 35.68)	(0.17, 36.12)	(0.17, 36.56)	(0.17, 37.04)
(0.17, 37.48)	(0.16, 37.92)	(0.16, 38.36)	(0.16, 38.80)
(0.16, 39.24)	(0.15, 39.68)	(0.11, 40.00)	

De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.30
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	11.04
De totale procesweg	S_{tot}	[mm] :	40.00
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	28.96
De opgenomen deformatie arbeid	W	[Nm] :	9.29

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Plaatcode : F1101110

Perscode: PF891930

F_{Pmax} : 0.72 kN

Proefnummer : V3401.1.

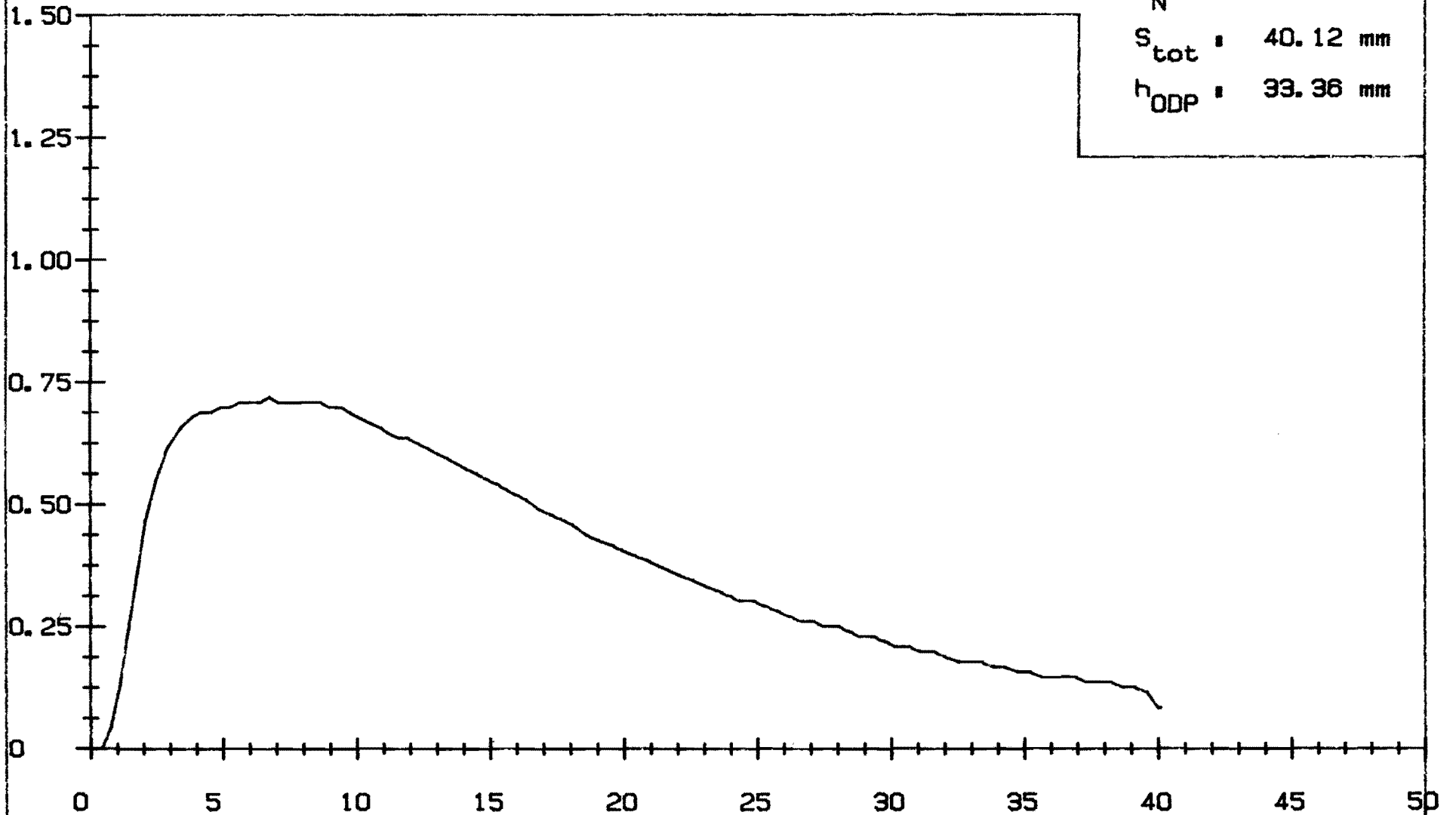
Arbeid : 15.76 Nm

S_N : 6.76 mm

S_{tot} : 40.12 mm

h_{ODP} : 33.36 mm

F_p [kN]



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-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891930

IOPM-BUIGEN-TUE

Plaatcode : F1101110

Proefnummer: V3401.1.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.00, 0.44)	(0.04, 0.76)	(0.13, 1.08)
(0.24, 1.40)	(0.36, 1.76)	(0.46, 2.12)	(0.55, 2.52)
(0.61, 2.92)	(0.66, 3.44)	(0.68, 3.84)	(0.68, 4.20)
(0.69, 4.56)	(0.70, 4.92)	(0.70, 5.28)	(0.71, 5.68)
(0.71, 6.00)	(0.71, 6.40)	(0.72, 6.76)	(0.71, 7.12)
(0.71, 7.48)	(0.71, 7.88)	(0.71, 8.28)	(0.70, 8.64)
(0.70, 9.04)	(0.69, 9.40)	(0.69, 9.76)	(0.68, 10.12)
(0.67, 10.48)	(0.66, 10.88)	(0.65, 11.20)	(0.64, 11.60)
(0.63, 11.92)	(0.62, 12.28)	(0.61, 12.64)	(0.60, 13.04)
(0.59, 13.40)	(0.58, 13.76)	(0.57, 14.12)	(0.56, 14.48)
(0.55, 14.84)	(0.54, 15.24)	(0.53, 15.60)	(0.52, 15.92)
(0.51, 16.36)	(0.49, 16.80)	(0.48, 17.24)	(0.46, 17.68)
(0.45, 18.12)	(0.44, 18.56)	(0.43, 19.04)	(0.42, 19.48)
(0.41, 19.92)	(0.40, 20.36)	(0.39, 20.80)	(0.38, 21.24)
(0.37, 21.68)	(0.36, 22.12)	(0.34, 22.56)	(0.34, 23.04)
(0.33, 23.48)	(0.32, 23.92)	(0.31, 24.36)	(0.30, 24.80)
(0.29, 25.24)	(0.28, 25.72)	(0.27, 26.20)	(0.27, 26.64)
(0.26, 27.08)	(0.25, 27.52)	(0.25, 27.96)	(0.24, 28.40)
(0.23, 28.84)	(0.22, 29.28)	(0.22, 29.76)	(0.21, 30.20)
(0.20, 30.64)	(0.20, 31.08)	(0.19, 31.60)	(0.19, 32.00)
(0.18, 32.48)	(0.18, 32.92)	(0.17, 33.36)	(0.17, 33.80)
(0.17, 34.24)	(0.16, 34.72)	(0.16, 35.16)	(0.15, 35.64)
(0.15, 36.00)	(0.15, 36.48)	(0.14, 36.92)	(0.14, 37.36)
(0.13, 37.80)	(0.13, 38.24)	(0.13, 38.68)	(0.13, 39.12)
(0.12, 39.60)	(0.08, 40.00)	(0.09, 40.12)	

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.72
De deelprocesweg bij F_{Pmax}	S_N [mm] :	6.76
De totale procesweg	S_{tot} [mm] :	40.12
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	33.36
De opgenomen deformatie arbeid	W [Nm] :	15.76

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Plaatcode : F1101710

Perscode: PF891931

F_{Pmax} : 0.82 kN

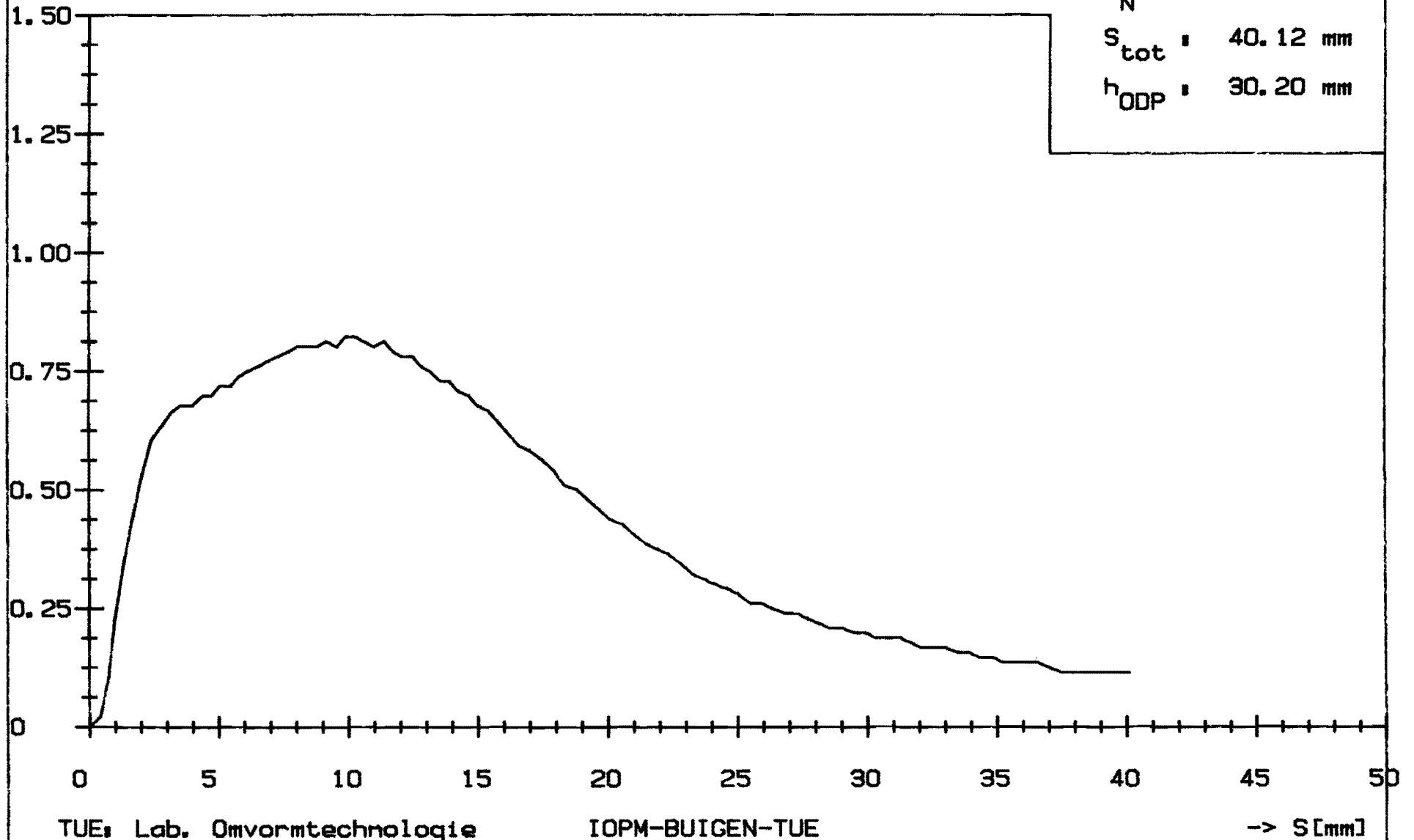
Proefnummer : V340101.

Arbeid : 17.34 Nm

S_N : 9.92 mm

S_{tot} : 40.12 mm

h_{ODP} : 30.20 mm



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TUE LABORATORIUM VOOR ONVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891931

IOPM-BUIGEN-TUE

Plaatcode : F1101710

Proefnummer : V340101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.02, 0.40)	(0.10, 0.72)	(0.23, 1.04)
(0.35, 1.36)	(0.44, 1.68)	(0.52, 2.00)	(0.60, 2.44)
(0.64, 2.80)	(0.67, 3.24)	(0.68, 3.60)	(0.68, 4.00)
(0.70, 4.40)	(0.70, 4.76)	(0.72, 5.12)	(0.72, 5.48)
(0.74, 5.84)	(0.75, 6.20)	(0.76, 6.56)	(0.77, 6.92)
(0.78, 7.32)	(0.79, 7.72)	(0.80, 8.12)	(0.80, 8.48)
(0.80, 8.84)	(0.81, 9.20)	(0.81, 9.56)	(0.82, 9.92)
(0.82, 10.28)	(0.81, 10.68)	(0.80, 11.04)	(0.81, 11.40)
(0.79, 11.76)	(0.78, 12.12)	(0.78, 12.48)	(0.77, 12.84)
(0.75, 13.20)	(0.73, 13.56)	(0.73, 13.92)	(0.71, 14.28)
(0.70, 14.68)	(0.68, 15.04)	(0.67, 15.40)	(0.64, 15.76)
(0.63, 16.12)	(0.60, 16.56)	(0.59, 17.04)	(0.56, 17.48)
(0.54, 17.92)	(0.51, 18.36)	(0.50, 18.80)	(0.48, 19.24)
(0.46, 19.68)	(0.44, 20.12)	(0.43, 20.56)	(0.41, 21.04)
(0.39, 21.48)	(0.37, 21.92)	(0.36, 22.36)	(0.34, 22.80)
(0.33, 23.24)	(0.32, 23.68)	(0.30, 24.12)	(0.29, 24.56)
(0.28, 25.04)	(0.26, 25.48)	(0.26, 25.92)	(0.25, 26.36)
(0.24, 26.80)	(0.24, 27.24)	(0.23, 27.68)	(0.22, 28.12)
(0.21, 28.56)	(0.21, 29.04)	(0.20, 29.48)	(0.20, 29.92)
(0.19, 30.36)	(0.18, 30.80)	(0.19, 31.24)	(0.18, 31.68)
(0.17, 32.12)	(0.16, 32.56)	(0.16, 33.04)	(0.15, 33.48)
(0.15, 33.92)	(0.15, 34.36)	(0.15, 34.80)	(0.13, 35.24)
(0.13, 35.68)	(0.14, 36.12)	(0.14, 36.56)	(0.13, 37.04)
(0.12, 37.48)	(0.12, 37.92)	(0.12, 38.36)	(0.11, 38.80)
(0.11, 39.24)	(0.12, 39.68)	(0.11, 40.12)	(0.11, 40.12)

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.82
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.92
De totale procesweg	S_{tot} [mm] :	40.12
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	30.20
De opgenomen deformatie arbeid	W [Nm] :	17.34

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Plaatcode : F1101120

Perocodes: PF891932

F_{Pmax} : 0.78 kN

Proefnummer : V340101.

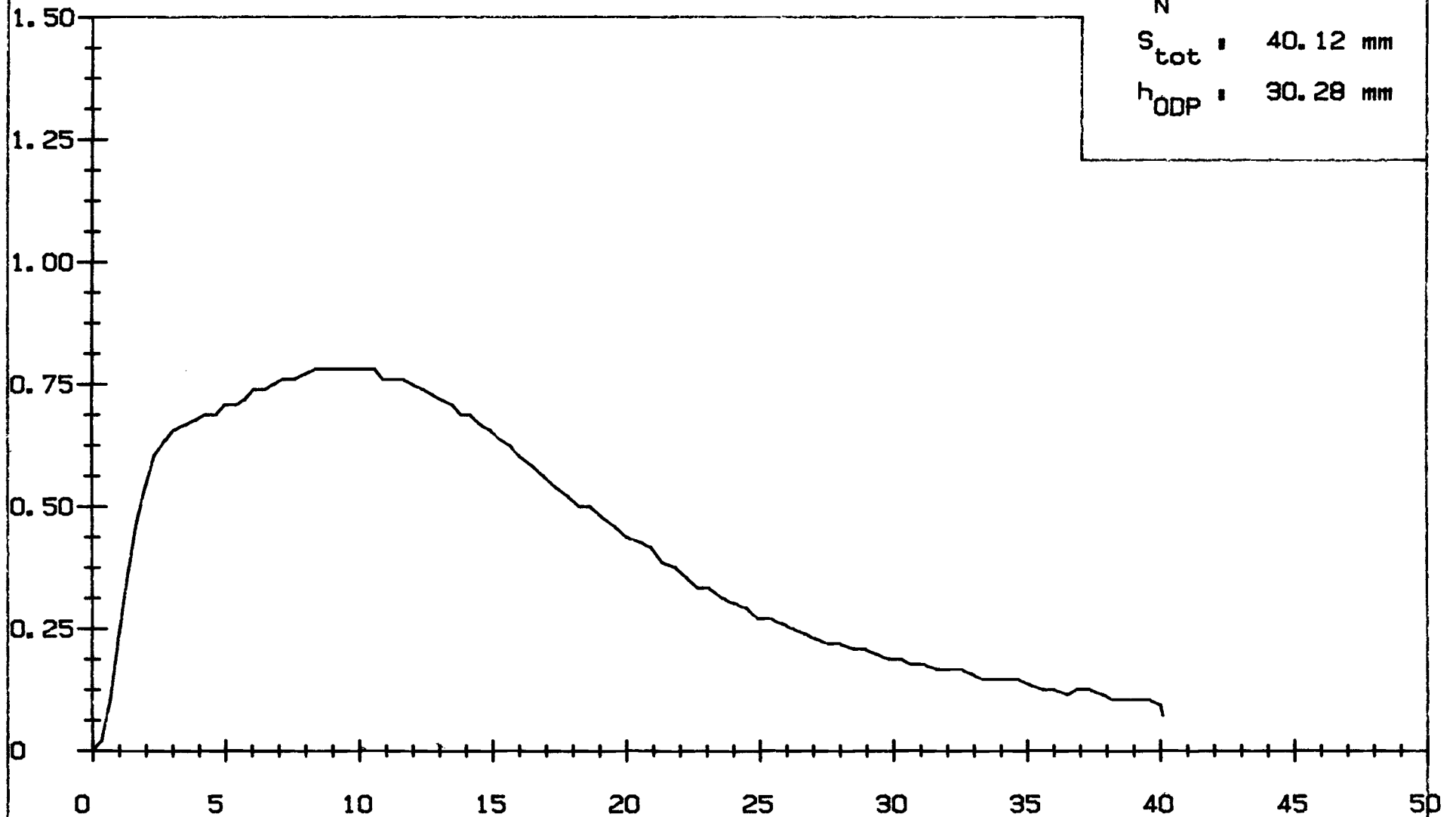
Arbeid : 16.89 Nm

S_N : 9.84 mm

S_{tot} : 40.12 mm

h_{ODP} : 30.28 mm

F_p [kN]



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-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891932

IOPM-BUIGEN-TUE

Plaatcode : F1101120

Proefnummer: V340101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.02, 0.36)	(0.11, 0.68)	(0.23, 1.00)
(0.36, 1.32)	(0.46, 1.64)	(0.54, 1.96)	(0.60, 2.32)
(0.63, 2.72)	(0.65, 3.12)	(0.67, 3.52)	(0.68, 3.92)
(0.69, 4.28)	(0.69, 4.64)	(0.70, 5.04)	(0.71, 5.40)
(0.72, 5.76)	(0.74, 6.12)	(0.74, 6.48)	(0.75, 6.84)
(0.76, 7.20)	(0.76, 7.60)	(0.77, 8.00)	(0.78, 8.40)
(0.78, 8.76)	(0.78, 9.12)	(0.78, 9.48)	(0.78, 9.84)
(0.78, 10.20)	(0.78, 10.56)	(0.76, 10.92)	(0.76, 11.32)
(0.76, 11.68)	(0.75, 12.00)	(0.74, 12.40)	(0.73, 12.76)
(0.71, 13.12)	(0.71, 13.48)	(0.69, 13.84)	(0.68, 14.20)
(0.67, 14.56)	(0.65, 14.92)	(0.64, 15.32)	(0.63, 15.68)
(0.60, 16.00)	(0.58, 16.48)	(0.56, 16.92)	(0.54, 17.36)
(0.52, 17.80)	(0.50, 18.24)	(0.50, 18.68)	(0.48, 19.12)
(0.46, 19.60)	(0.44, 20.00)	(0.43, 20.48)	(0.41, 20.92)
(0.38, 21.36)	(0.38, 21.80)	(0.35, 22.24)	(0.33, 22.68)
(0.33, 23.12)	(0.31, 23.60)	(0.30, 24.00)	(0.29, 24.48)
(0.27, 24.92)	(0.27, 25.36)	(0.26, 25.80)	(0.25, 26.24)
(0.23, 26.68)	(0.23, 27.12)	(0.22, 27.60)	(0.22, 28.00)
(0.21, 28.48)	(0.21, 28.92)	(0.20, 29.36)	(0.19, 29.80)
(0.19, 30.24)	(0.18, 30.68)	(0.18, 31.12)	(0.17, 31.60)
(0.17, 32.00)	(0.17, 32.48)	(0.15, 32.92)	(0.14, 33.36)
(0.14, 33.80)	(0.14, 34.24)	(0.14, 34.68)	(0.14, 35.12)
(0.13, 35.60)	(0.12, 36.00)	(0.12, 36.48)	(0.12, 36.92)
(0.12, 37.36)	(0.11, 37.80)	(0.11, 38.24)	(0.11, 38.68)
(0.10, 39.12)	(0.11, 39.60)	(0.09, 40.00)	(0.07, 40.12)

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.78
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.84
De totale procesweg	S_{tot} [mm] :	40.12
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	30.28
De opgenomen deformatie arbeid	W [Nm] :	16.89

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF891933
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 10-05-89
Aantal metingen : 99
Code bijbehorende trekproeven : TP891675-TP891676-TP891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101720
Proefnummer : V440101.

- OVERZICHT GEGEVENS UIT P-S KROMME -

Beginbreedte van de plaat b_0		[mm] : 65.01
De maximaal optredende perskracht	F_{Pmax}	[kN] : 0.52
De deelprocesweg bij F_{Pmax}	S_N	[mm] : 10.56
De totale procesweg	S_{tot}	[mm] : 39.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] : 29.36
De opgenomen deformatie arbeid	W	[Nm] : 13.77

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101720

Perscode: PF891933

F_{Pmax} : 0.52 kN

Proefnummer : V440101.

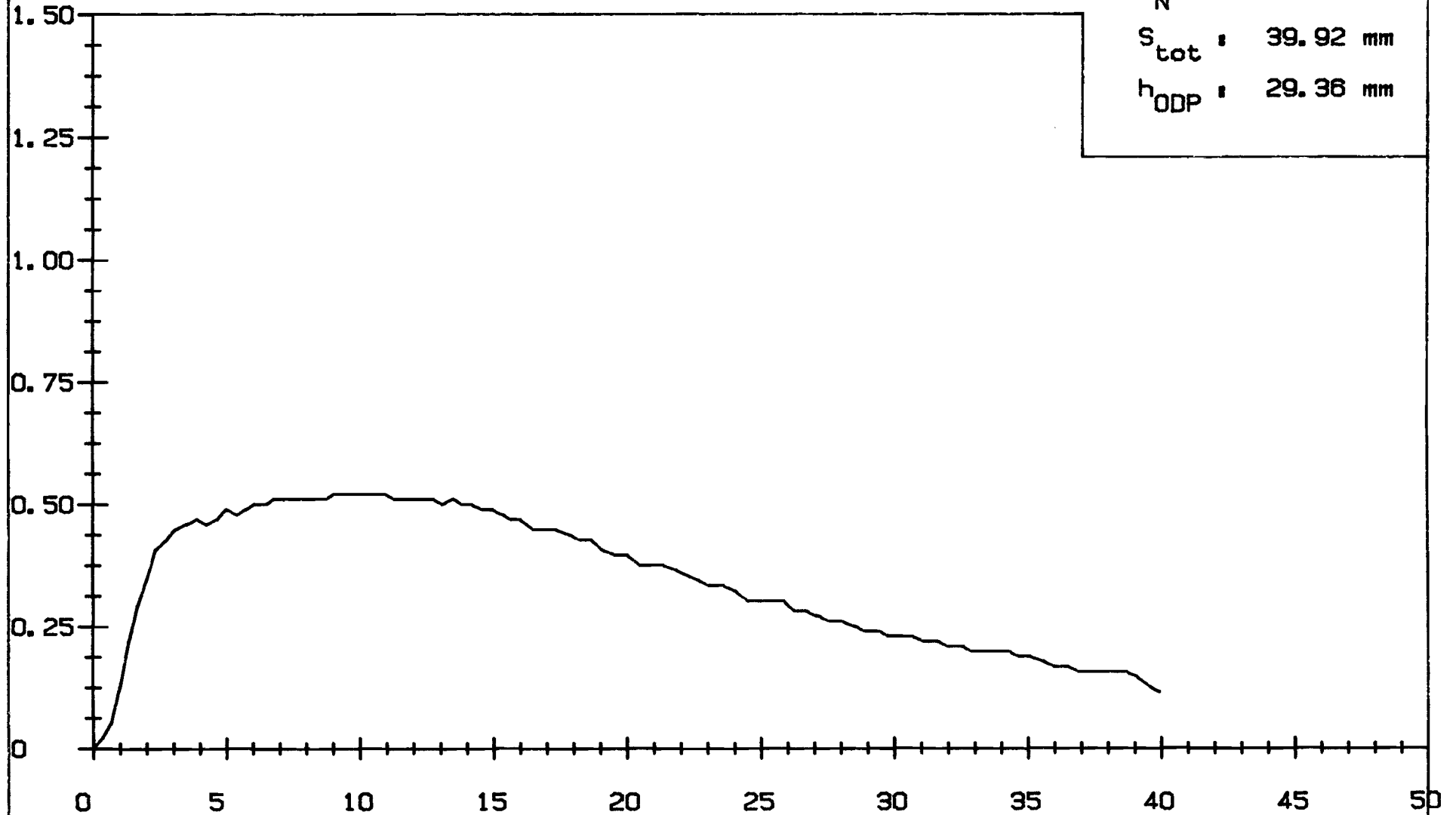
Arbeid : 13.77 Nm

S_N : 10.56 mm

S_{tot} : 39.92 mm

h_{ODP} : 29.36 mm

F_p [kN]



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-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891933

IOPM-BUIGEN-TUE

Plaatcode : F1101720

Proefnummer: V440101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.02, 0.36)	(0.05, 0.68)	(0.12, 1.00)
(0.22, 1.32)	(0.29, 1.64)	(0.35, 1.96)	(0.40, 2.32)
(0.43, 2.72)	(0.45, 3.12)	(0.45, 3.52)	(0.47, 3.92)
(0.46, 4.28)	(0.47, 4.64)	(0.49, 5.04)	(0.48, 5.40)
(0.49, 5.76)	(0.50, 6.12)	(0.50, 6.48)	(0.51, 6.84)
(0.51, 7.20)	(0.51, 7.60)	(0.51, 8.00)	(0.51, 8.40)
(0.51, 8.76)	(0.52, 9.12)	(0.52, 9.48)	(0.52, 9.84)
(0.52, 10.20)	(0.52, 10.56)	(0.52, 10.92)	(0.51, 11.32)
(0.51, 11.68)	(0.51, 12.00)	(0.51, 12.40)	(0.51, 12.76)
(0.50, 13.12)	(0.51, 13.48)	(0.50, 13.84)	(0.50, 14.20)
(0.49, 14.56)	(0.49, 14.92)	(0.48, 15.32)	(0.47, 15.68)
(0.47, 16.00)	(0.45, 16.48)	(0.45, 16.92)	(0.44, 17.36)
(0.44, 17.80)	(0.42, 18.24)	(0.42, 18.68)	(0.41, 19.12)
(0.40, 19.60)	(0.40, 20.00)	(0.38, 20.48)	(0.38, 20.92)
(0.38, 21.36)	(0.36, 21.80)	(0.35, 22.24)	(0.35, 22.68)
(0.34, 23.12)	(0.33, 23.60)	(0.32, 24.00)	(0.31, 24.48)
(0.30, 24.92)	(0.30, 25.36)	(0.30, 25.80)	(0.28, 26.24)
(0.28, 26.68)	(0.27, 27.12)	(0.27, 27.60)	(0.26, 28.00)
(0.25, 28.48)	(0.24, 28.92)	(0.24, 29.36)	(0.23, 29.80)
(0.23, 30.24)	(0.23, 30.68)	(0.21, 31.12)	(0.22, 31.60)
(0.21, 32.00)	(0.21, 32.48)	(0.20, 32.92)	(0.20, 33.36)
(0.20, 33.80)	(0.19, 34.24)	(0.19, 34.68)	(0.18, 35.12)
(0.18, 35.60)	(0.17, 36.00)	(0.17, 36.48)	(0.15, 36.92)
(0.16, 37.36)	(0.15, 37.80)	(0.15, 38.24)	(0.15, 38.68)
(0.14, 39.12)	(0.12, 39.60)	(0.11, 39.92)	

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.52
De deelprocesweg bij F_{Pmax}	S_N [mm] :	10.56
De totale procesweg	S_{tot} [mm] :	39.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	29.36
De opgenomen deformatie arbeid	W [Nm] :	13.77

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Plaatcode : F1101730

Perscode: PF891934

F_{Pmax} : 0.38 kN

Proefnummer : V540101.

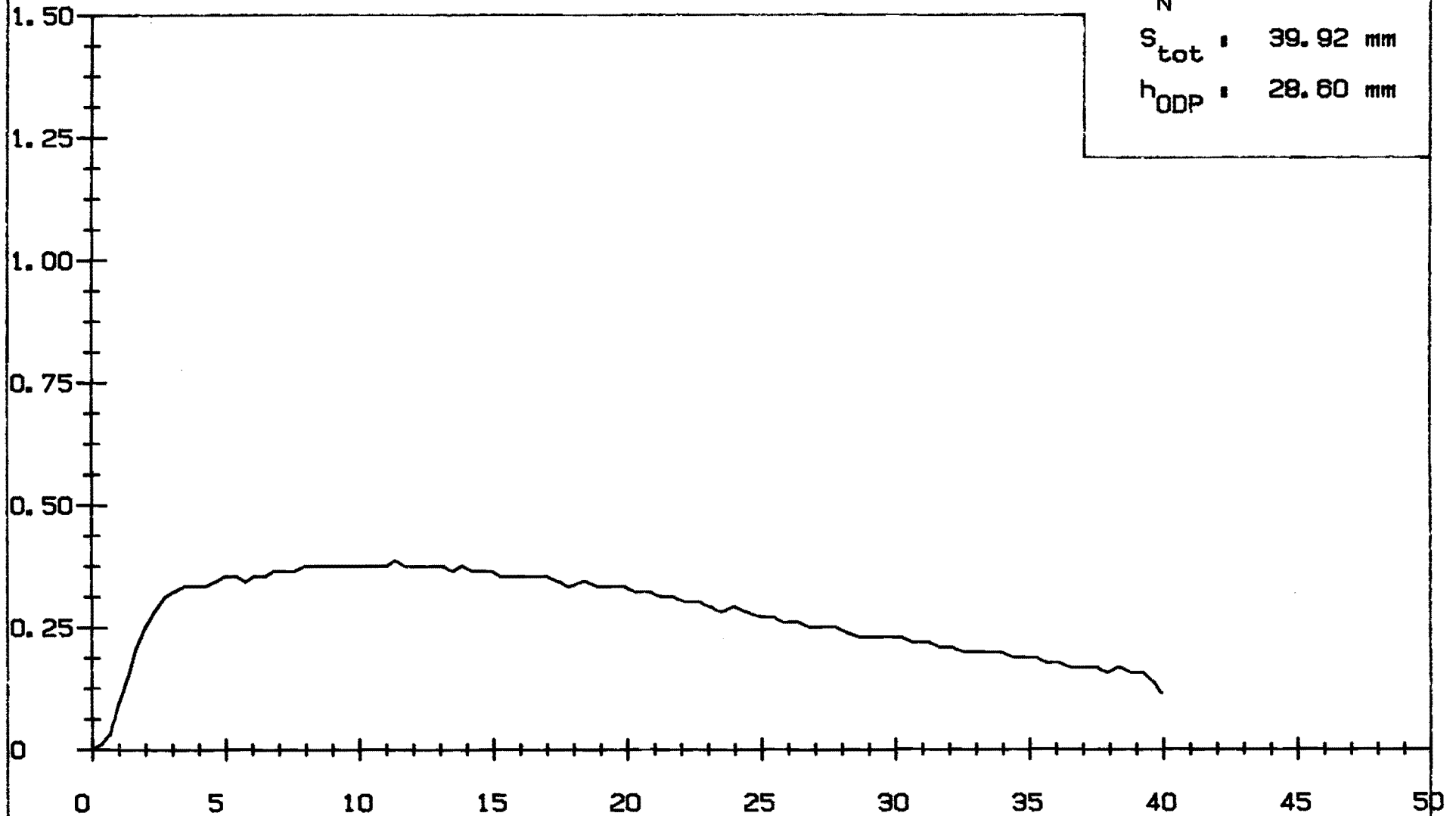
Arbeid : 11.16 Nm

S_N : 11.32 mm

S_{tot} : 39.92 mm

h_{ODP} : 28.60 mm

F_p [kN]



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IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891934

IOPM-BUIGEN-TUE

Plaatcode : F1101730
 Proefnummer: V540101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.01, 0.36)	(0.03, 0.68)	(0.09, 1.00)
(0.14, 1.32)	(0.21, 1.64)	(0.25, 1.96)	(0.29, 2.32)
(0.31, 2.72)	(0.32, 3.12)	(0.33, 3.52)	(0.34, 3.92)
(0.34, 4.28)	(0.34, 4.64)	(0.35, 5.04)	(0.35, 5.40)
(0.35, 5.76)	(0.36, 6.12)	(0.36, 6.48)	(0.36, 6.84)
(0.37, 7.20)	(0.37, 7.60)	(0.38, 8.00)	(0.38, 8.40)
(0.37, 8.76)	(0.38, 9.16)	(0.38, 9.48)	(0.38, 9.84)
(0.38, 10.24)	(0.38, 10.60)	(0.37, 10.96)	(0.38, 11.32)
(0.38, 11.72)	(0.37, 12.04)	(0.38, 12.40)	(0.37, 12.76)
(0.38, 13.12)	(0.36, 13.48)	(0.38, 13.84)	(0.37, 14.24)
(0.36, 14.60)	(0.36, 14.92)	(0.35, 15.32)	(0.35, 15.72)
(0.36, 16.08)	(0.36, 16.52)	(0.35, 16.96)	(0.35, 17.40)
(0.34, 17.84)	(0.34, 18.40)	(0.33, 18.92)	(0.33, 19.40)
(0.33, 19.84)	(0.32, 20.36)	(0.32, 20.80)	(0.31, 21.24)
(0.31, 21.68)	(0.31, 22.20)	(0.30, 22.64)	(0.30, 23.08)
(0.29, 23.52)	(0.29, 23.96)	(0.28, 24.40)	(0.27, 24.96)
(0.27, 25.40)	(0.26, 25.84)	(0.26, 26.36)	(0.25, 26.80)
(0.25, 27.24)	(0.25, 27.72)	(0.24, 28.20)	(0.23, 28.64)
(0.23, 29.12)	(0.22, 29.64)	(0.22, 30.24)	(0.22, 30.68)
(0.22, 31.24)	(0.21, 31.68)	(0.21, 32.12)	(0.20, 32.56)
(0.20, 33.04)	(0.19, 33.48)	(0.19, 33.92)	(0.19, 34.40)
(0.19, 34.80)	(0.19, 35.24)	(0.18, 35.68)	(0.18, 36.12)
(0.17, 36.60)	(0.17, 37.08)	(0.16, 37.48)	(0.16, 37.92)
(0.17, 38.36)	(0.16, 38.80)	(0.15, 39.24)	(0.14, 39.68)
(0.11, 39.92)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.38
De deelprocesweg bij F_{Pmax}	S_N [mm] :	11.32
De totale procesweg	S_{tot} [mm] :	39.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	28.60
De opgenomen deformatie arbeid	W [Nm] :	11.16

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF891935
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 10-05-89
Aantal metingen : 98
Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101740
Proefnummer : V640101.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	65.01
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.31
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	11.44
De totale procesweg	S_{tot}	[mm] :	40.24
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	28.80
De opgenomen deformatie arbeid	W	[Nm] :	9.46

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101740

Perescode: PF891935

F_{Pmax} : 0.31 kN

Proefnummer : V640101.

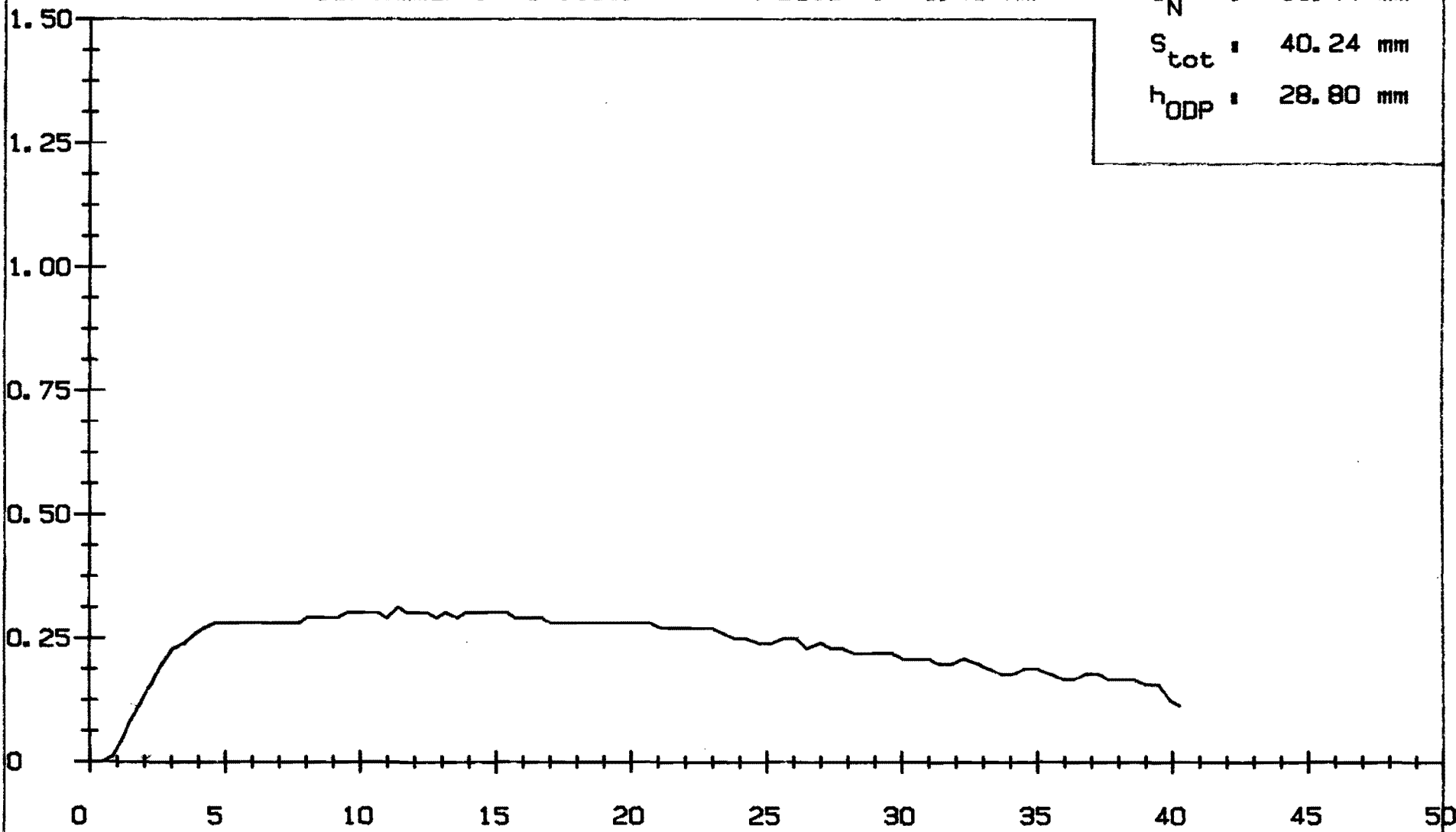
Arbeid : 9.46 Nm

S_N : 11.44 mm

S_{tot} : 40.24 mm

h_{ODP} : 28.80 mm

F_p [kN]



TUE: Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891935

IOPM-BUIGEN-TUE

Plaatcode : F1101740

Proefnummer: V640101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.00, 0.44)	(0.01, 0.80)	(0.04, 1.16)
(0.08, 1.48)	(0.12, 1.84)	(0.16, 2.24)	(0.20, 2.64)
(0.23, 3.08)	(0.24, 3.52)	(0.26, 3.92)	(0.27, 4.28)
(0.28, 4.64)	(0.28, 5.04)	(0.28, 5.40)	(0.28, 5.76)
(0.28, 6.12)	(0.28, 6.48)	(0.28, 6.88)	(0.29, 7.28)
(0.28, 7.76)	(0.29, 8.12)	(0.30, 8.48)	(0.29, 8.84)
(0.29, 9.20)	(0.30, 9.56)	(0.30, 9.92)	(0.30, 10.28)
(0.30, 10.68)	(0.29, 11.04)	(0.31, 11.44)	(0.30, 11.76)
(0.30, 12.12)	(0.30, 12.48)	(0.29, 12.84)	(0.30, 13.20)
(0.30, 13.56)	(0.30, 13.92)	(0.30, 14.32)	(0.30, 14.68)
(0.30, 15.08)	(0.30, 15.40)	(0.30, 15.76)	(0.29, 16.20)
(0.29, 16.64)	(0.28, 17.08)	(0.29, 17.52)	(0.28, 18.00)
(0.28, 18.48)	(0.28, 18.92)	(0.28, 19.36)	(0.28, 19.84)
(0.28, 20.28)	(0.28, 20.76)	(0.27, 21.20)	(0.27, 21.64)
(0.27, 22.08)	(0.27, 22.52)	(0.27, 23.00)	(0.26, 23.40)
(0.26, 23.84)	(0.26, 24.28)	(0.24, 24.76)	(0.24, 25.20)
(0.25, 25.64)	(0.25, 26.08)	(0.23, 26.52)	(0.24, 26.96)
(0.23, 27.40)	(0.23, 27.84)	(0.22, 28.28)	(0.22, 28.76)
(0.22, 29.20)	(0.22, 29.64)	(0.21, 30.08)	(0.21, 30.52)
(0.21, 30.96)	(0.20, 31.40)	(0.20, 31.84)	(0.20, 32.36)
(0.20, 32.80)	(0.19, 33.24)	(0.18, 33.68)	(0.18, 34.12)
(0.18, 34.56)	(0.18, 35.04)	(0.18, 35.48)	(0.17, 35.96)
(0.17, 36.36)	(0.17, 36.80)	(0.17, 37.24)	(0.17, 37.68)
(0.16, 38.12)	(0.16, 38.56)	(0.16, 39.04)	(0.15, 39.48)
(0.12, 39.92)	(0.12, 40.24)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.31
De deelprocesweg bij F_{Pmax}	S_N [mm] :	11.44
De totale procesweg	S_{tot} [mm] :	40.24
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	28.80
De opgenomen deformatie arbeid	W [Nm] :	9.46

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE
S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF891936
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 10-05-89
Aantal metingen : 126
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101370
Proefnummer : V325101.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] : 65.01
De maximaal optredende perskracht	F_{Pmax}	[kN] : 0.81
De deelprocesweg bij F_{Pmax}	S_N	[mm] : 9.24
De totale procesweg	S_{tot}	[mm] : 24.80
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] : 15.56
De opgenomen deformatie arbeid	W	[Nm] : 14.30

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]

[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101370

Perecoder: PF891936

F_{Pmax} : 0.81 kN

Proefnummer : V325101.

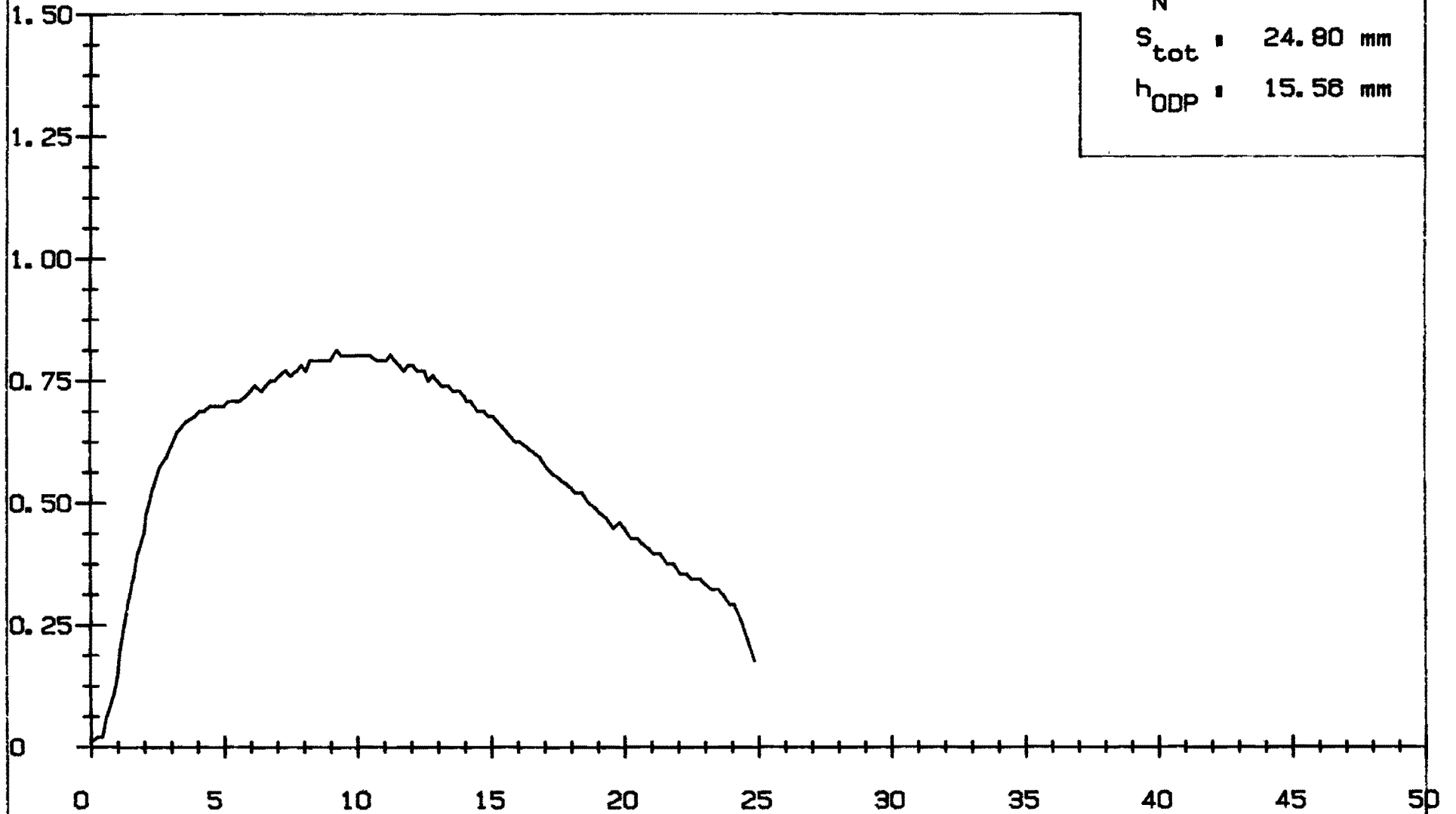
Arbeid : 14.30 Nm

S_N : 9.24 mm

S_{tot} : 24.80 mm

h_{ODP} : 15.56 mm

F_p [kN]



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IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891936

IOPM-BUIGEN-TUE

Plaatcode : F1101370

Proefnummer: V325101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.01, 0.00)	(0.02, 0.28)	(0.02, 0.44)	(0.06, 0.60)
(0.11, 0.80)	(0.15, 0.96)	(0.20, 1.12)	(0.25, 1.28)
(0.30, 1.44)	(0.34, 1.60)	(0.40, 1.76)	(0.44, 1.96)
(0.48, 2.12)	(0.53, 2.36)	(0.57, 2.56)	(0.59, 2.80)
(0.62, 3.04)	(0.64, 3.24)	(0.66, 3.44)	(0.66, 3.60)
(0.67, 3.88)	(0.68, 4.12)	(0.69, 4.28)	(0.69, 4.48)
(0.70, 4.64)	(0.70, 4.84)	(0.69, 5.04)	(0.71, 5.20)
(0.71, 5.40)	(0.71, 5.56)	(0.72, 5.80)	(0.73, 6.00)
(0.74, 6.20)	(0.73, 6.40)	(0.74, 6.56)	(0.75, 6.76)
(0.75, 6.92)	(0.76, 7.12)	(0.77, 7.32)	(0.76, 7.52)
(0.77, 7.72)	(0.78, 7.88)	(0.78, 8.12)	(0.79, 8.28)
(0.79, 8.48)	(0.79, 8.64)	(0.79, 8.84)	(0.79, 9.04)
(0.81, 9.24)	(0.80, 9.40)	(0.80, 9.60)	(0.80, 9.76)
(0.80, 9.96)	(0.80,10.12)	(0.80,10.28)	(0.80,10.48)
(0.79,10.72)	(0.79,10.88)	(0.79,11.08)	(0.80,11.24)
(0.79,11.40)	(0.78,11.60)	(0.78,11.76)	(0.78,11.92)
(0.78,12.12)	(0.77,12.28)	(0.77,12.48)	(0.75,12.68)
(0.76,12.84)	(0.75,13.04)	(0.74,13.20)	(0.74,13.40)
(0.73,13.56)	(0.73,13.80)	(0.72,13.96)	(0.71,14.12)
(0.71,14.28)	(0.69,14.48)	(0.69,14.72)	(0.67,14.88)
(0.68,15.08)	(0.67,15.24)	(0.66,15.40)	(0.65,15.60)
(0.63,15.76)	(0.63,15.92)	(0.62,16.12)	(0.62,16.36)
(0.60,16.56)	(0.59,16.80)	(0.57,17.08)	(0.56,17.28)
(0.55,17.52)	(0.54,17.76)	(0.53,17.96)	(0.52,18.20)
(0.52,18.40)	(0.51,18.68)	(0.49,18.92)	(0.48,19.12)
(0.47,19.36)	(0.45,19.60)	(0.45,19.80)	(0.44,20.04)
(0.43,20.24)	(0.43,20.48)	(0.41,20.68)	(0.40,20.92)
(0.40,21.12)	(0.39,21.36)	(0.38,21.56)	(0.38,21.80)
(0.36,22.08)	(0.36,22.32)	(0.34,22.52)	(0.34,22.80)
(0.33,23.04)	(0.32,23.24)	(0.32,23.48)	(0.31,23.68)
(0.30,23.92)	(0.29,24.12)	(0.26,24.36)	(0.22,24.56)
(0.18,24.80)	(0.18,24.80)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.81
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.24
De totale procesweg	S_{tot} [mm] :	24.80
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	15.56
De opgenomen deformatie arbeid	W [Nm] :	14.30

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF891937
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 10-05-89
Aantal metingen : 126
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CE2-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101380
Proefnummer : V425101.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] : 64.99
De maximaal optredende perskracht	F_{Pmax}	[kN] : 0.51
De deelprocesweg bij F_{Pmax}	S_N	[mm] : 10.56
De totale procesweg	S_{tot}	[mm] : 24.68
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] : 14.12
De opgenomen deformatie arbeid	W	[Nm] : 10.19

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]

[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101380

Perescoder: PF891937

F_{Pmax} : 0.51 kN

Proefnummer : V425101.

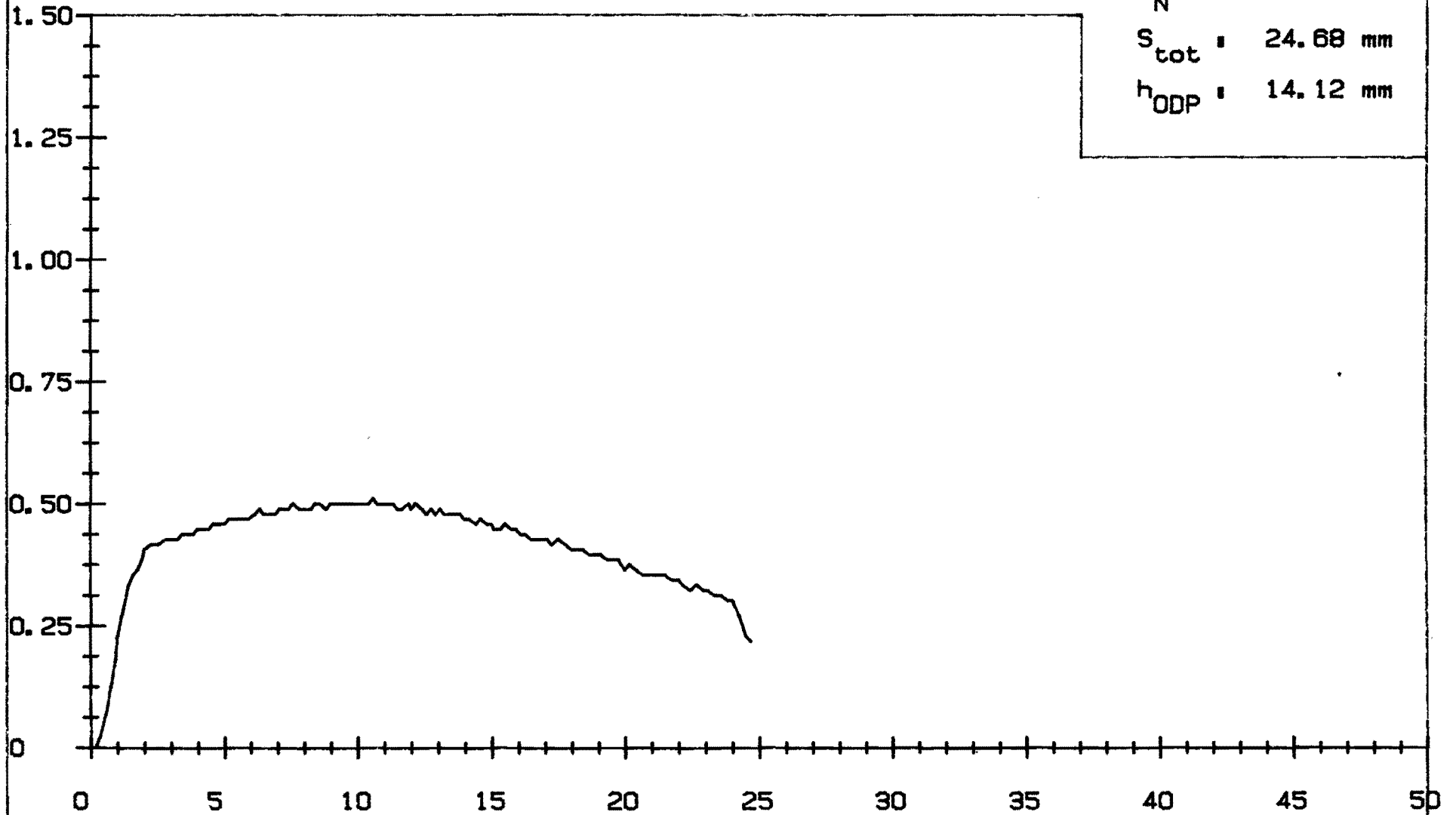
Arbeid : 10.19 Nm

S_N : 10.56 mm

S_{tot} : 24.68 mm

h_{ODP} : 14.12 mm

F_p [kN]



TUE, Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891937

IOPM-BUIGEN-TUE

Plaatcode : F1101380

Proefnummer: V425101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.01, 0.20)	(0.02, 0.36)	(0.07, 0.56)
(0.12, 0.72)	(0.18, 0.88)	(0.23, 1.04)	(0.27, 1.20)
(0.34, 1.40)	(0.35, 1.56)	(0.37, 1.72)	(0.38, 1.88)
(0.41, 2.04)	(0.41, 2.24)	(0.41, 2.52)	(0.42, 2.80)
(0.43, 3.04)	(0.42, 3.24)	(0.43, 3.44)	(0.43, 3.60)
(0.44, 3.84)	(0.45, 4.00)	(0.45, 4.20)	(0.45, 4.40)
(0.46, 4.60)	(0.46, 4.80)	(0.46, 4.96)	(0.46, 5.16)
(0.46, 5.36)	(0.47, 5.52)	(0.47, 5.72)	(0.47, 5.88)
(0.48, 6.16)	(0.49, 6.32)	(0.48, 6.52)	(0.48, 6.72)
(0.48, 6.88)	(0.49, 7.08)	(0.49, 7.28)	(0.49, 7.44)
(0.50, 7.60)	(0.49, 7.80)	(0.49, 8.00)	(0.49, 8.24)
(0.50, 8.40)	(0.50, 8.56)	(0.49, 8.80)	(0.50, 8.96)
(0.50, 9.12)	(0.50, 9.32)	(0.50, 9.48)	(0.50, 9.68)
(0.50, 9.84)	(0.50,10.00)	(0.50,10.20)	(0.50,10.40)
(0.51,10.56)	(0.50,10.76)	(0.50,10.92)	(0.50,11.12)
(0.50,11.32)	(0.49,11.48)	(0.49,11.68)	(0.50,11.88)
(0.49,12.04)	(0.50,12.20)	(0.49,12.40)	(0.48,12.56)
(0.49,12.76)	(0.48,12.92)	(0.49,13.12)	(0.48,13.28)
(0.48,13.48)	(0.48,13.68)	(0.48,13.84)	(0.47,14.00)
(0.47,14.20)	(0.46,14.40)	(0.46,14.56)	(0.46,14.80)
(0.46,14.96)	(0.45,15.12)	(0.45,15.32)	(0.46,15.48)
(0.45,15.72)	(0.45,15.88)	(0.44,16.08)	(0.43,16.28)
(0.43,16.52)	(0.43,16.84)	(0.42,17.08)	(0.42,17.28)
(0.42,17.52)	(0.42,17.76)	(0.41,17.96)	(0.41,18.20)
(0.41,18.40)	(0.40,18.64)	(0.40,18.88)	(0.39,19.08)
(0.38,19.32)	(0.38,19.52)	(0.38,19.76)	(0.37,19.96)
(0.37,20.20)	(0.36,20.40)	(0.36,20.64)	(0.36,20.84)
(0.35,21.08)	(0.35,21.28)	(0.35,21.52)	(0.35,21.76)
(0.34,21.96)	(0.33,22.20)	(0.33,22.40)	(0.33,22.64)
(0.33,22.92)	(0.32,23.12)	(0.32,23.36)	(0.32,23.60)
(0.30,23.80)	(0.30,24.00)	(0.27,24.24)	(0.23,24.48)
(0.22,24.68)	(0.22,24.68)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.51
De deelprocesweg bij F_{Pmax}	S_N [mm] :	10.56
De totale procesweg	S_{tot} [mm] :	24.68
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	14.12
De opgenomen deformatie arbeid	W [Nm] :	10.19

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

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- PROEFGEGEVENS -

Perscode : PF891938
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 10-05-89
Aantal metingen : 86
Code bijbehorende trekproeven : TF891669-TF891670-TF891671

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : MÜller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101390
Proefnummer : V525101.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 64.97
De maximaal optredende perskracht F_{Pmax} [kN] : 0.38
De deelprocesweg bij F_{Pmax} S_N [mm] : 9.12
De totale procesweg S_{tot} [mm] : 24.92
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 15.80
De opgenomen deformatie arbeid W [Nm] : 7.93

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101390

Perescode: PF891938

F_{Pmax} : 0.38 kN

Proefnummer : V525101.

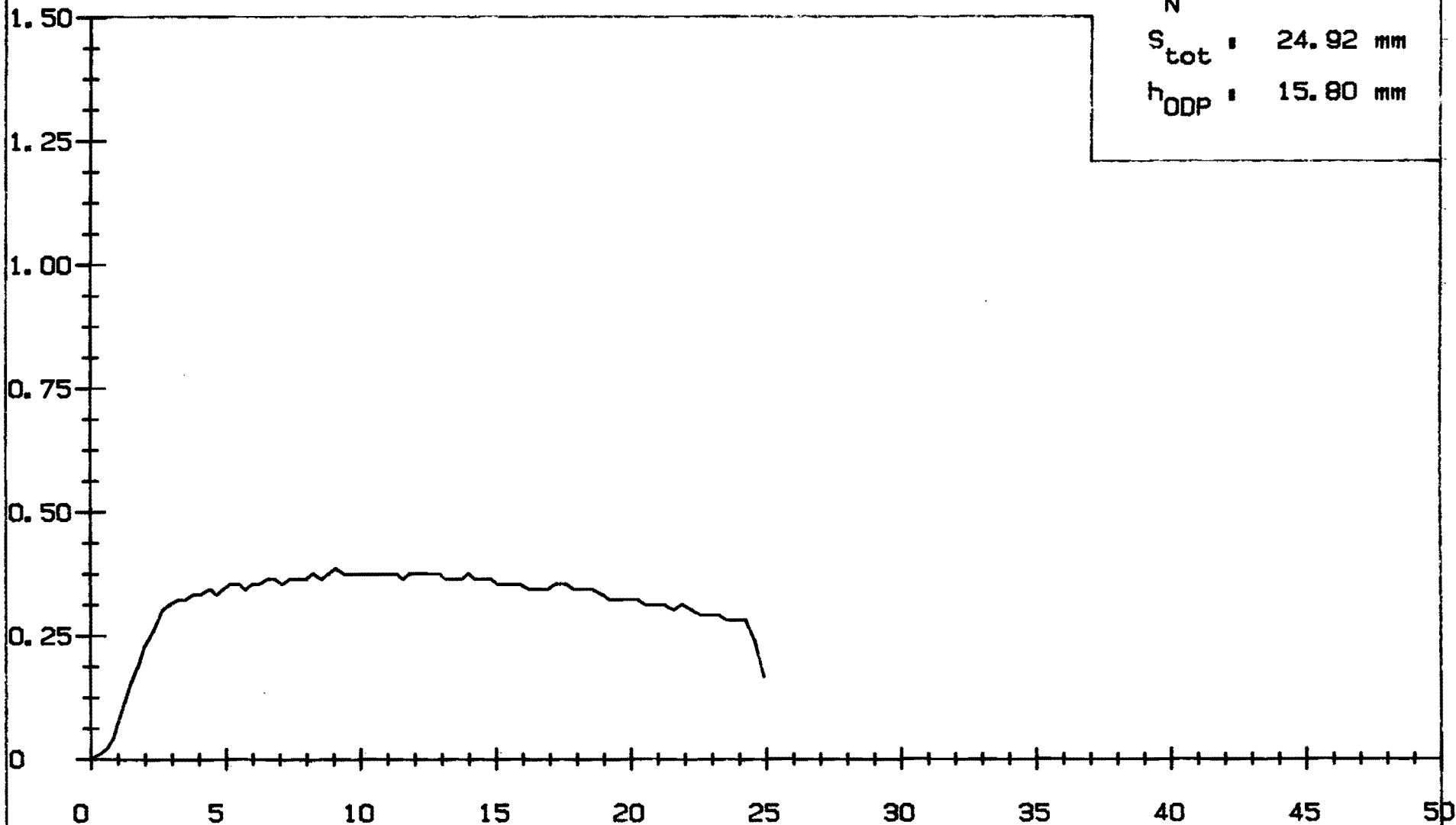
Arbeid : 7.93 Nm

S_N : 9.12 mm

S_{tot} : 24.92 mm

h_{ODP} : 15.80 mm

F_p [kN]



TUE, Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

--> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891938

IOPM-BUIGEN-TUE

Plaatcode : F1101390

Proefnummer: V525101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.01, 0.32)	(0.02, 0.56)	(0.04, 0.80)
(0.08, 1.04)	(0.11, 1.28)	(0.16, 1.52)	(0.19, 1.76)
(0.23, 2.00)	(0.26, 2.32)	(0.30, 2.64)	(0.31, 2.92)
(0.32, 3.24)	(0.33, 3.52)	(0.33, 3.84)	(0.33, 4.12)
(0.34, 4.40)	(0.34, 4.64)	(0.34, 4.92)	(0.35, 5.20)
(0.35, 5.48)	(0.34, 5.76)	(0.35, 6.00)	(0.36, 6.28)
(0.36, 6.56)	(0.36, 6.84)	(0.36, 7.12)	(0.36, 7.40)
(0.36, 7.72)	(0.37, 8.00)	(0.37, 8.28)	(0.37, 8.56)
(0.38, 8.84)	(0.38, 9.12)	(0.38, 9.40)	(0.38, 9.68)
(0.37, 9.92)	(0.37, 10.20)	(0.38, 10.48)	(0.37, 10.80)
(0.38, 11.04)	(0.38, 11.32)	(0.37, 11.60)	(0.38, 11.84)
(0.38, 12.12)	(0.37, 12.40)	(0.37, 12.64)	(0.37, 12.92)
(0.37, 13.20)	(0.37, 13.48)	(0.36, 13.76)	(0.37, 14.00)
(0.37, 14.28)	(0.36, 14.56)	(0.36, 14.84)	(0.35, 15.12)
(0.36, 15.40)	(0.36, 15.68)	(0.35, 15.92)	(0.35, 16.24)
(0.34, 16.56)	(0.34, 16.92)	(0.35, 17.24)	(0.35, 17.56)
(0.34, 17.92)	(0.34, 18.24)	(0.34, 18.56)	(0.33, 18.92)
(0.33, 19.24)	(0.33, 19.60)	(0.32, 19.92)	(0.32, 20.24)
(0.32, 20.56)	(0.31, 20.92)	(0.31, 21.24)	(0.30, 21.56)
(0.31, 21.92)	(0.30, 22.24)	(0.29, 22.56)	(0.30, 22.92)
(0.29, 23.24)	(0.28, 23.60)	(0.28, 23.92)	(0.28, 24.24)
(0.24, 24.56)	(0.17, 24.92)		

De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.38
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	9.12
De totale procesweg	S_{tot}	[mm] :	24.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	15.80
De opgenomen deformatie arbeid	W	[Nm] :	7.93

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF891939
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 10-05-89
Aantal metingen : 121
Code bijbehorende trekproeven : TP891669-TP891670-TP891671

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101300
Proefnummer : V625101.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	64.98
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.30
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	13.00
De totale procesweg	S_{tot}	[mm] :	24.48
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	11.48
De opgenomen deformatie arbeid	W	[Nm] :	6.30

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]

[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101300

Perscode: PF891939

F_{Pmax} : 0.30 kN

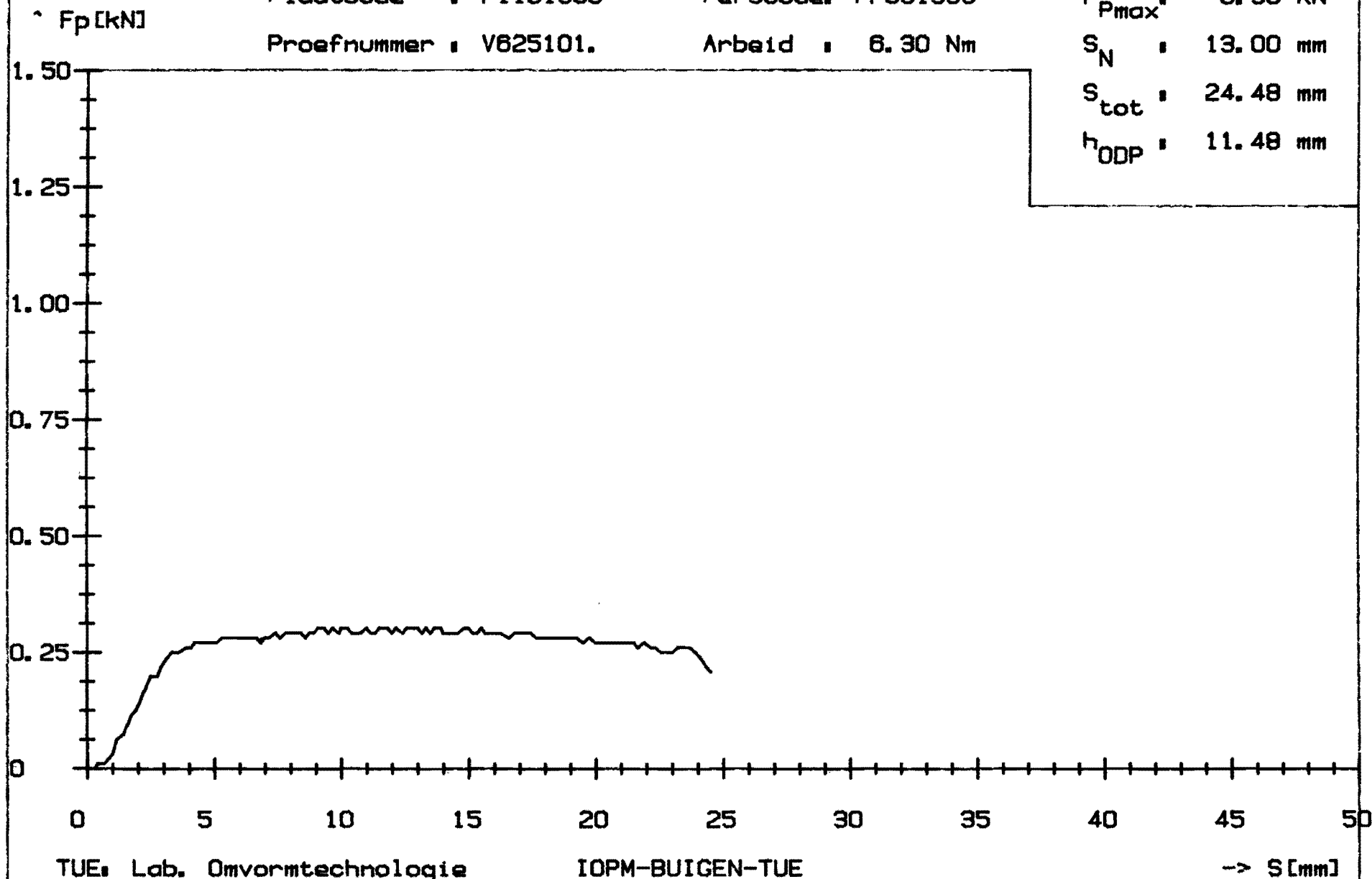
Proefnummer : V625101.

Arbeid : 6.30 Nm

S_N : 13.00 mm

S_{tot} : 24.48 mm

h_{ODP} : 11.48 mm



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TUE LABORATORIUM VOOR ONVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891939

IOPM-BUIGEN-TUE

Plaatcode : F1101300

Proefnummer: V625101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.00, 0.28)	(0.01, 0.44)	(0.01, 0.64)
(0.02, 0.84)	(0.03, 1.04)	(0.06, 1.20)	(0.07, 1.40)
(0.09, 1.56)	(0.11, 1.72)	(0.12, 1.88)	(0.14, 2.04)
(0.16, 2.28)	(0.19, 2.52)	(0.20, 2.72)	(0.22, 2.92)
(0.24, 3.16)	(0.25, 3.36)	(0.25, 3.60)	(0.26, 3.88)
(0.26, 4.12)	(0.27, 4.28)	(0.27, 4.48)	(0.27, 4.72)
(0.27, 4.92)	(0.28, 5.12)	(0.28, 5.32)	(0.28, 5.48)
(0.28, 5.68)	(0.28, 5.88)	(0.28, 6.12)	(0.28, 6.28)
(0.28, 6.48)	(0.28, 6.68)	(0.27, 6.84)	(0.28, 7.04)
(0.28, 7.20)	(0.29, 7.44)	(0.29, 7.60)	(0.29, 7.80)
(0.29, 8.00)	(0.29, 8.20)	(0.29, 8.40)	(0.29, 8.60)
(0.30, 8.76)	(0.29, 8.92)	(0.30, 9.12)	(0.30, 9.32)
(0.29, 9.48)	(0.30, 9.68)	(0.30, 9.88)	(0.30, 10.04)
(0.30, 10.24)	(0.29, 10.40)	(0.29, 10.56)	(0.30, 10.76)
(0.30, 10.96)	(0.30, 11.16)	(0.30, 11.32)	(0.30, 11.48)
(0.30, 11.68)	(0.30, 11.84)	(0.29, 12.00)	(0.30, 12.20)
(0.29, 12.44)	(0.30, 12.60)	(0.30, 12.80)	(0.30, 13.00)
(0.29, 13.16)	(0.30, 13.32)	(0.30, 13.48)	(0.30, 13.68)
(0.30, 13.88)	(0.30, 14.04)	(0.30, 14.20)	(0.30, 14.40)
(0.30, 14.60)	(0.30, 14.80)	(0.30, 15.00)	(0.29, 15.16)
(0.29, 15.32)	(0.30, 15.48)	(0.29, 15.68)	(0.29, 15.88)
(0.29, 16.08)	(0.29, 16.28)	(0.29, 16.56)	(0.29, 16.84)
(0.29, 17.12)	(0.29, 17.40)	(0.28, 17.64)	(0.28, 17.84)
(0.28, 18.08)	(0.28, 18.28)	(0.28, 18.52)	(0.29, 18.76)
(0.29, 18.96)	(0.28, 19.24)	(0.28, 19.52)	(0.28, 19.76)
(0.27, 19.96)	(0.27, 20.20)	(0.27, 20.40)	(0.27, 20.68)
(0.27, 20.96)	(0.27, 21.24)	(0.27, 21.48)	(0.26, 21.68)
(0.27, 21.92)	(0.26, 22.16)	(0.26, 22.36)	(0.25, 22.56)
(0.25, 22.80)	(0.25, 23.04)	(0.26, 23.24)	(0.26, 23.48)
(0.26, 23.68)	(0.25, 23.92)	(0.24, 24.12)	(0.22, 24.36)
(0.21, 24.48)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.30
De deelprocesweg bij F_{Pmax}	S_N [mm] :	13.00
De totale procesweg	S_{tot} [mm] :	24.48
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	11.48
De opgenomen deformatie arbeid	W [Nm] :	6.30

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Plaatcode : F1101470

Perescode: PF891940

F_{Pmax} : 0.78 kN

Proefnummer : V310101.

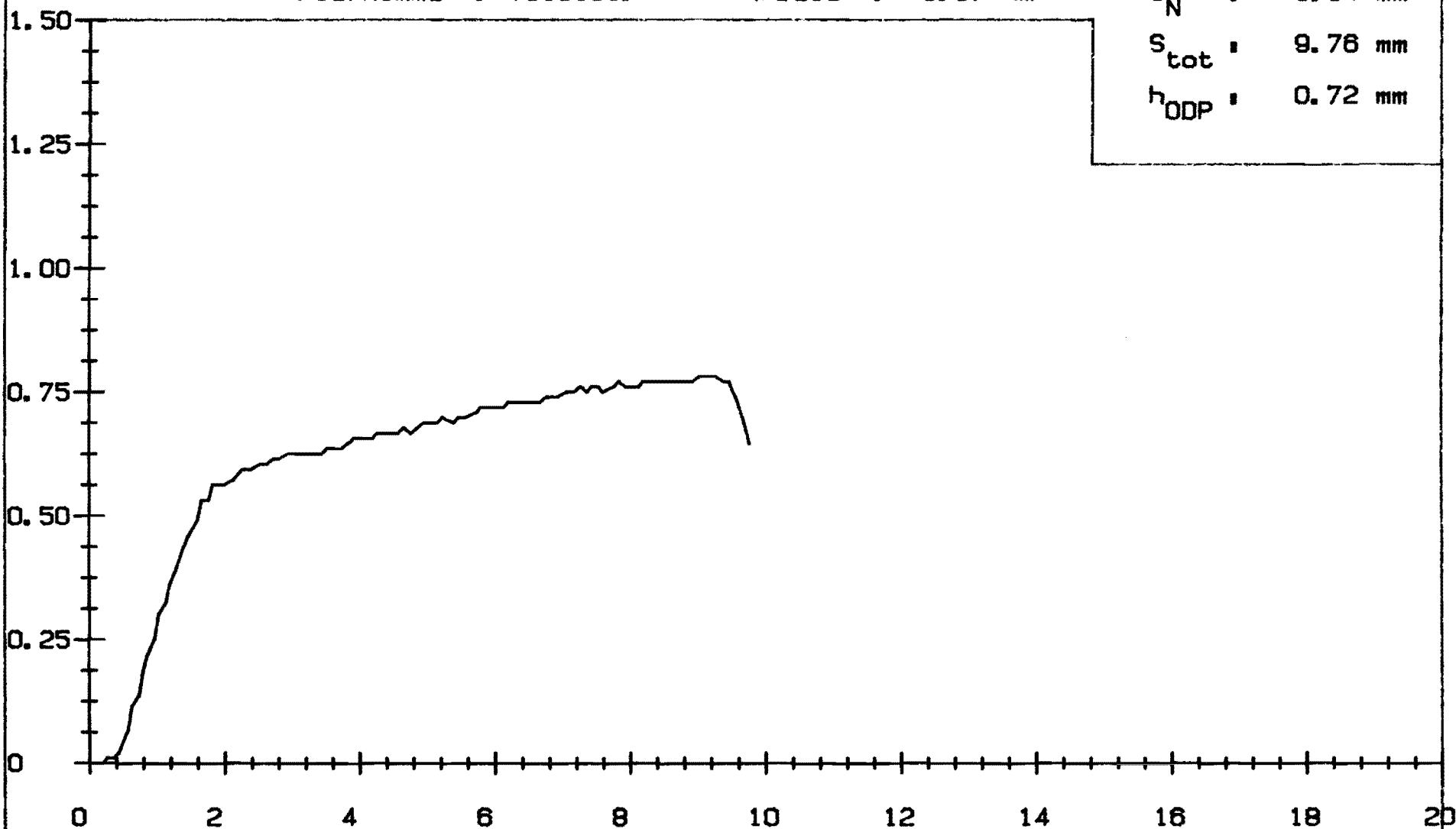
Arbeid : 5.97 Nm

S_N : 9.04 mm

S_{tot} : 9.76 mm

h_{ODP} : 0.72 mm

F_p [kN]



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IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OVMORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891940

IOPM-BUIGEN-TUE

Plaatcode : F1101470

Proefnummer: V310101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(-0.00, 0.08)	(-0.00, 0.20)	(0.01, 0.28)
(0.01, 0.36)	(0.02, 0.44)	(0.06, 0.56)	(0.12, 0.64)
(0.13, 0.72)	(0.19, 0.80)	(0.22, 0.88)	(0.25, 0.96)
(0.30, 1.04)	(0.33, 1.12)	(0.36, 1.20)	(0.38, 1.28)
(0.44, 1.40)	(0.46, 1.48)	(0.49, 1.60)	(0.53, 1.68)
(0.53, 1.76)	(0.56, 1.84)	(0.56, 1.92)	(0.57, 2.00)
(0.57, 2.12)	(0.59, 2.28)	(0.60, 2.40)	(0.60, 2.52)
(0.60, 2.64)	(0.61, 2.72)	(0.61, 2.80)	(0.62, 2.96)
(0.62, 3.12)	(0.63, 3.24)	(0.63, 3.32)	(0.63, 3.44)
(0.64, 3.52)	(0.64, 3.60)	(0.64, 3.72)	(0.65, 3.84)
(0.66, 3.92)	(0.65, 4.00)	(0.65, 4.12)	(0.65, 4.20)
(0.67, 4.28)	(0.66, 4.40)	(0.67, 4.48)	(0.67, 4.56)
(0.68, 4.68)	(0.67, 4.76)	(0.68, 4.88)	(0.68, 4.96)
(0.69, 5.08)	(0.68, 5.16)	(0.70, 5.24)	(0.69, 5.40)
(0.70, 5.48)	(0.70, 5.56)	(0.71, 5.72)	(0.72, 5.80)
(0.71, 5.88)	(0.72, 6.00)	(0.72, 6.12)	(0.73, 6.20)
(0.73, 6.28)	(0.73, 6.40)	(0.73, 6.48)	(0.73, 6.56)
(0.73, 6.68)	(0.74, 6.76)	(0.74, 6.84)	(0.74, 6.92)
(0.75, 7.08)	(0.75, 7.16)	(0.76, 7.28)	(0.75, 7.36)
(0.76, 7.44)	(0.76, 7.52)	(0.75, 7.60)	(0.76, 7.76)
(0.77, 7.84)	(0.76, 7.92)	(0.76, 8.00)	(0.76, 8.12)
(0.77, 8.20)	(0.77, 8.28)	(0.77, 8.40)	(0.77, 8.48)
(0.77, 8.56)	(0.77, 8.64)	(0.78, 8.76)	(0.77, 8.84)
(0.77, 8.92)	(0.78, 9.04)	(0.78, 9.12)	(0.78, 9.20)
(0.78, 9.28)	(0.77, 9.40)	(0.77, 9.48)	(0.74, 9.56)
(0.70, 9.68)	(0.65, 9.76)	(0.65, 9.76)	

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.78
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.04
De totale procesweg	S_{tot} [mm] :	9.76
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	0.72
De opgenomen deformatie arbeid	W [Nm] :	5.97

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Plaatcode : F1101480

Perscode: PF891941

F_{Pmax} : 0.51 kN

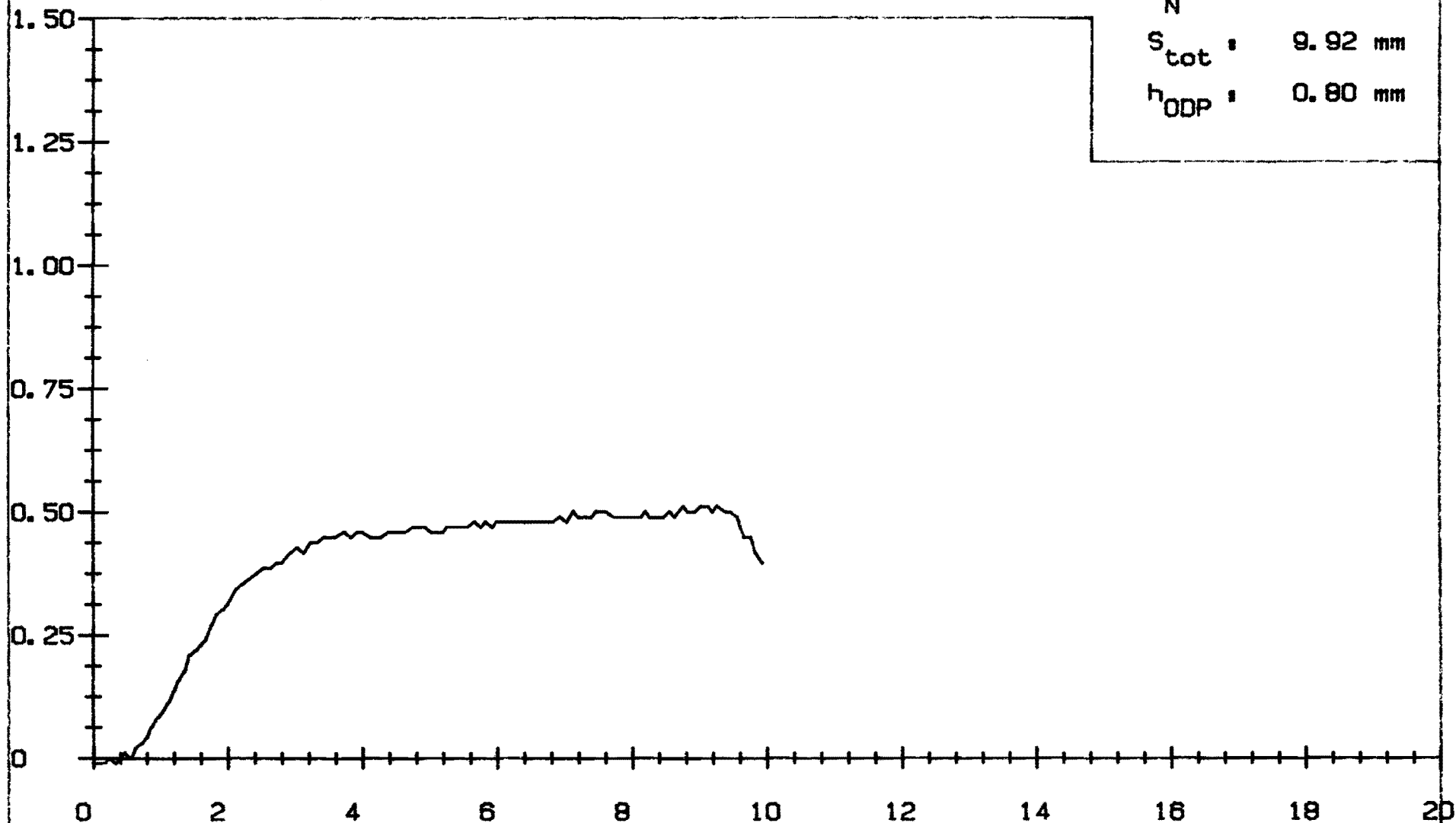
Proefnummer : V410101.

Arbeid : 3.88 Nm

S_N : 9.12 mm

S_{tot} : 9.92 mm

h_{ODP} : 0.80 mm



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IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891941

IOPM-BUIGEN-TUE

Plaatcode : F1101480

Proefnummer: V410101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.01, 0.00)	(-0.01, 0.16)	(-0.00, 0.24)	(-0.01, 0.32)
(0.00, 0.40)	(0.01, 0.48)	(0.00, 0.56)	(0.02, 0.64)
(0.04, 0.72)	(0.04, 0.80)	(0.06, 0.88)	(0.08, 0.96)
(0.10, 1.04)	(0.11, 1.12)	(0.14, 1.20)	(0.16, 1.28)
(0.17, 1.36)	(0.20, 1.44)	(0.22, 1.52)	(0.23, 1.60)
(0.24, 1.68)	(0.27, 1.76)	(0.29, 1.84)	(0.30, 1.92)
(0.31, 2.00)	(0.34, 2.12)	(0.35, 2.24)	(0.36, 2.32)
(0.37, 2.44)	(0.39, 2.52)	(0.39, 2.64)	(0.40, 2.72)
(0.40, 2.80)	(0.42, 2.92)	(0.42, 3.04)	(0.42, 3.12)
(0.44, 3.24)	(0.44, 3.32)	(0.44, 3.44)	(0.44, 3.52)
(0.45, 3.60)	(0.46, 3.72)	(0.45, 3.84)	(0.46, 3.92)
(0.46, 4.00)	(0.45, 4.12)	(0.45, 4.20)	(0.45, 4.28)
(0.46, 4.40)	(0.46, 4.48)	(0.46, 4.56)	(0.46, 4.64)
(0.46, 4.76)	(0.46, 4.84)	(0.47, 4.92)	(0.46, 5.04)
(0.46, 5.12)	(0.46, 5.20)	(0.47, 5.28)	(0.47, 5.40)
(0.46, 5.48)	(0.47, 5.56)	(0.47, 5.68)	(0.47, 5.76)
(0.48, 5.84)	(0.47, 5.92)	(0.47, 6.00)	(0.48, 6.12)
(0.48, 6.20)	(0.48, 6.28)	(0.48, 6.40)	(0.48, 6.48)
(0.48, 6.56)	(0.48, 6.68)	(0.48, 6.76)	(0.48, 6.84)
(0.49, 6.92)	(0.48, 7.04)	(0.50, 7.12)	(0.49, 7.20)
(0.49, 7.32)	(0.49, 7.40)	(0.50, 7.48)	(0.50, 7.60)
(0.49, 7.72)	(0.49, 7.80)	(0.49, 7.88)	(0.49, 8.00)
(0.49, 8.12)	(0.50, 8.20)	(0.49, 8.28)	(0.49, 8.40)
(0.49, 8.48)	(0.50, 8.56)	(0.49, 8.64)	(0.51, 8.76)
(0.50, 8.84)	(0.50, 8.92)	(0.51, 9.04)	(0.51, 9.12)
(0.50, 9.20)	(0.51, 9.28)	(0.50, 9.40)	(0.50, 9.48)
(0.49, 9.56)	(0.45, 9.68)	(0.45, 9.76)	(0.42, 9.84)
(0.39, 9.92)	(0.39, 9.92)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.51
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.12
De totale procesweg	S_{tot} [mm] :	9.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	0.80
De opgenomen deformatie arbeid	W [Nm] :	3.88

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF891942
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 10-05-89
Aantal metingen : 109
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101490
Proefnummer : V510101.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	64.99
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.39
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	9.40
De totale procesweg	S_{tot}	[mm] :	10.00
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	0.60
De opgenomen deformatie arbeid	W	[Nm] :	2.90

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101490

Persecode: PF891942

F_{Pmax} : 0.39 kN

Proefnummer : V510101.

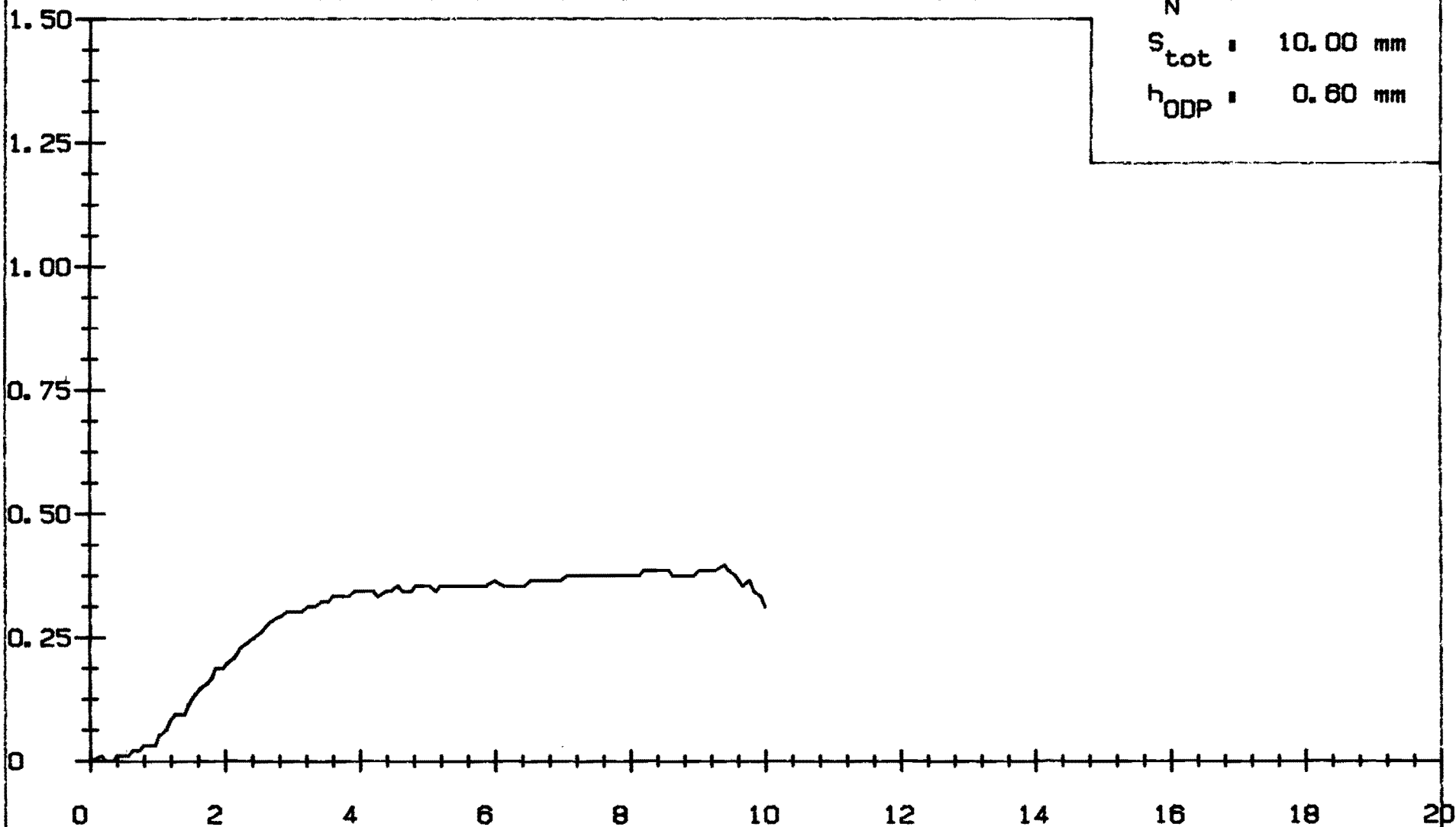
Arbeid : 2.90 Nm

S_N : 9.40 mm

S_{tot} : 10.00 mm

h_{ODP} : 0.60 mm

F_p [kN]



TUE, Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891942

IOPM-BUIGEN-TUE

Plaatcode : F1101490

Proefnummer: V510101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.01, 0.16)	(0.00, 0.24)	(-0.00, 0.32)
(0.01, 0.40)	(0.01, 0.48)	(0.01, 0.56)	(0.02, 0.64)
(0.02, 0.72)	(0.03, 0.80)	(0.03, 0.88)	(0.04, 0.96)
(0.05, 1.04)	(0.06, 1.12)	(0.08, 1.20)	(0.09, 1.28)
(0.10, 1.40)	(0.12, 1.48)	(0.14, 1.56)	(0.14, 1.64)
(0.16, 1.72)	(0.17, 1.80)	(0.19, 1.88)	(0.19, 1.96)
(0.20, 2.04)	(0.21, 2.12)	(0.23, 2.24)	(0.24, 2.32)
(0.25, 2.44)	(0.26, 2.52)	(0.28, 2.68)	(0.29, 2.80)
(0.30, 2.92)	(0.31, 3.04)	(0.31, 3.12)	(0.32, 3.24)
(0.32, 3.32)	(0.32, 3.44)	(0.32, 3.52)	(0.34, 3.60)
(0.33, 3.72)	(0.34, 3.84)	(0.34, 3.92)	(0.35, 4.00)
(0.35, 4.12)	(0.35, 4.20)	(0.34, 4.28)	(0.35, 4.40)
(0.35, 4.48)	(0.35, 4.56)	(0.35, 4.64)	(0.35, 4.76)
(0.35, 4.84)	(0.35, 4.92)	(0.35, 5.04)	(0.35, 5.12)
(0.35, 5.20)	(0.35, 5.28)	(0.35, 5.40)	(0.36, 5.48)
(0.35, 5.56)	(0.36, 5.68)	(0.36, 5.76)	(0.36, 5.88)
(0.36, 6.00)	(0.35, 6.12)	(0.35, 6.20)	(0.35, 6.28)
(0.36, 6.44)	(0.37, 6.52)	(0.37, 6.64)	(0.36, 6.72)
(0.36, 6.80)	(0.36, 6.88)	(0.37, 6.96)	(0.37, 7.08)
(0.38, 7.16)	(0.37, 7.28)	(0.37, 7.36)	(0.37, 7.44)
(0.37, 7.52)	(0.37, 7.60)	(0.38, 7.72)	(0.37, 7.80)
(0.37, 7.88)	(0.38, 8.00)	(0.37, 8.12)	(0.38, 8.20)
(0.38, 8.28)	(0.38, 8.40)	(0.38, 8.48)	(0.38, 8.56)
(0.37, 8.64)	(0.38, 8.76)	(0.38, 8.84)	(0.38, 8.92)
(0.38, 9.04)	(0.39, 9.12)	(0.39, 9.20)	(0.39, 9.28)
(0.39, 9.40)	(0.39, 9.48)	(0.38, 9.56)	(0.35, 9.68)
(0.36, 9.76)	(0.34, 9.84)	(0.34, 9.92)	(0.32, 10.00)
(0.32, 10.00)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.39
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.40
De totale procesweg	S_{tot} [mm] :	10.00
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	0.60
De opgenomen deformatie arbeid	W [Nm] :	2.90

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF891943
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 10-05-89
Aantal metingen : 111
Code bijbehorende trekproeven : TF891672-TF891673-TF891674

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : MÜller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101400
Proefnummer : V610101.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	64.99
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.30
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	9.28
De totale procesweg	S_{tot}	[mm] :	9.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	0.64
De opgenomen deformatie arbeid	W	[Nm] :	2.23

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]

[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101400

Perrecode: PF891943

F_{Pmax} : 0.30 kN

Proefnummer : V610101.

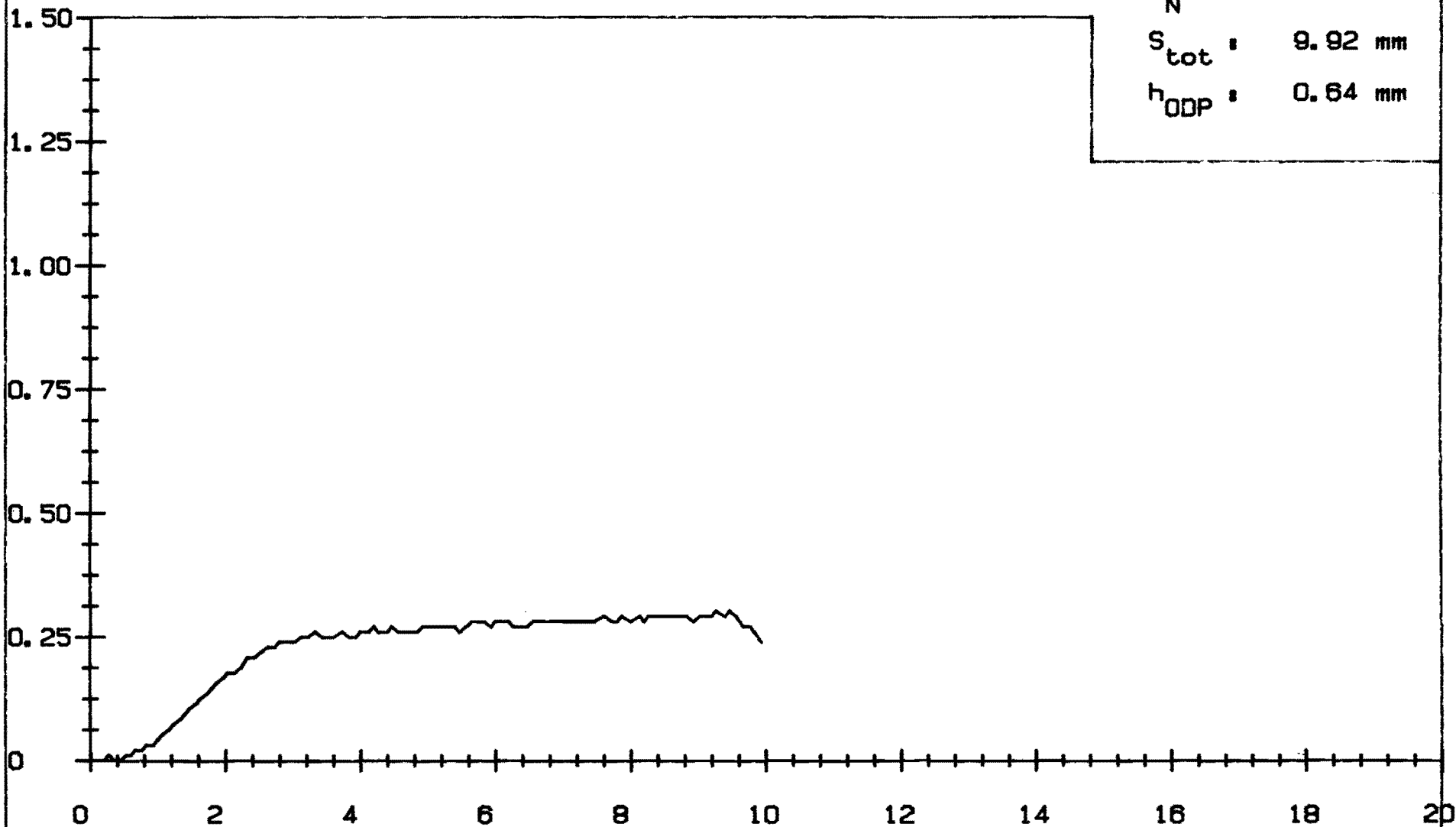
Arbeid : 2.23 Nm

S_N : 9.28 mm

S_{tot} : 9.92 mm

h_{ODP} : 0.64 mm

F_p [kN]



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-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891943

IOPM-BUIGEN-TUE

Plaatcode : F1101400

Proefnummer : V610101.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(-0.00, 0.12)	(-0.00, 0.20)	(0.01, 0.28)
(0.00, 0.36)	(-0.00, 0.44)	(0.01, 0.52)	(0.01, 0.60)
(0.02, 0.68)	(0.02, 0.76)	(0.03, 0.84)	(0.03, 0.92)
(0.05, 1.00)	(0.05, 1.08)	(0.06, 1.16)	(0.07, 1.24)
(0.08, 1.32)	(0.09, 1.40)	(0.10, 1.48)	(0.11, 1.56)
(0.12, 1.64)	(0.13, 1.72)	(0.14, 1.80)	(0.15, 1.88)
(0.17, 1.96)	(0.18, 2.04)	(0.18, 2.12)	(0.19, 2.24)
(0.20, 2.32)	(0.21, 2.44)	(0.22, 2.52)	(0.23, 2.64)
(0.23, 2.72)	(0.24, 2.80)	(0.24, 2.92)	(0.24, 3.04)
(0.25, 3.12)	(0.25, 3.24)	(0.26, 3.32)	(0.25, 3.44)
(0.25, 3.52)	(0.25, 3.60)	(0.26, 3.72)	(0.25, 3.84)
(0.25, 3.92)	(0.26, 4.00)	(0.26, 4.12)	(0.27, 4.20)
(0.26, 4.28)	(0.26, 4.40)	(0.27, 4.48)	(0.26, 4.56)
(0.26, 4.64)	(0.26, 4.76)	(0.26, 4.84)	(0.27, 4.92)
(0.27, 5.04)	(0.27, 5.12)	(0.27, 5.20)	(0.27, 5.28)
(0.27, 5.40)	(0.26, 5.48)	(0.27, 5.56)	(0.28, 5.68)
(0.28, 5.76)	(0.28, 5.84)	(0.27, 5.92)	(0.28, 6.00)
(0.28, 6.12)	(0.28, 6.20)	(0.27, 6.28)	(0.27, 6.40)
(0.27, 6.48)	(0.28, 6.56)	(0.29, 6.68)	(0.28, 6.76)
(0.28, 6.84)	(0.29, 6.92)	(0.28, 7.04)	(0.28, 7.12)
(0.28, 7.20)	(0.29, 7.32)	(0.29, 7.40)	(0.28, 7.48)
(0.29, 7.60)	(0.29, 7.72)	(0.28, 7.80)	(0.29, 7.88)
(0.28, 8.00)	(0.29, 8.12)	(0.28, 8.20)	(0.29, 8.28)
(0.29, 8.40)	(0.29, 8.48)	(0.29, 8.56)	(0.30, 8.64)
(0.29, 8.76)	(0.29, 8.84)	(0.29, 8.92)	(0.29, 9.04)
(0.29, 9.12)	(0.29, 9.20)	(0.30, 9.28)	(0.29, 9.40)
(0.30, 9.48)	(0.29, 9.56)	(0.27, 9.68)	(0.27, 9.76)
(0.26, 9.84)	(0.24, 9.92)	(0.24, 9.92)	

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.30
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.28
De totale procesweg	S_{tot} [mm] :	9.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	0.64
De opgenomen deformatie arbeid	W [Nm] :	2.23

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF891944
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 11-05-89
Aantal metingen : 101
Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101750
Proefnummer : V6103.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 65.02
De maximaal optredende perskracht F_{Pmax} [kN] : 0.29
De deelprocesweg bij F_{Pmax} S_N [mm] : 8.56
De totale procesweg S_{tot} [mm] : 9.92
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 1.36
De opgenomen deformatie arbeid W [Nm] : 2.06

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101750

Perscode: PF891944

F_{Pmax} : 0.29 kN

Proefnummer : V6103.3.

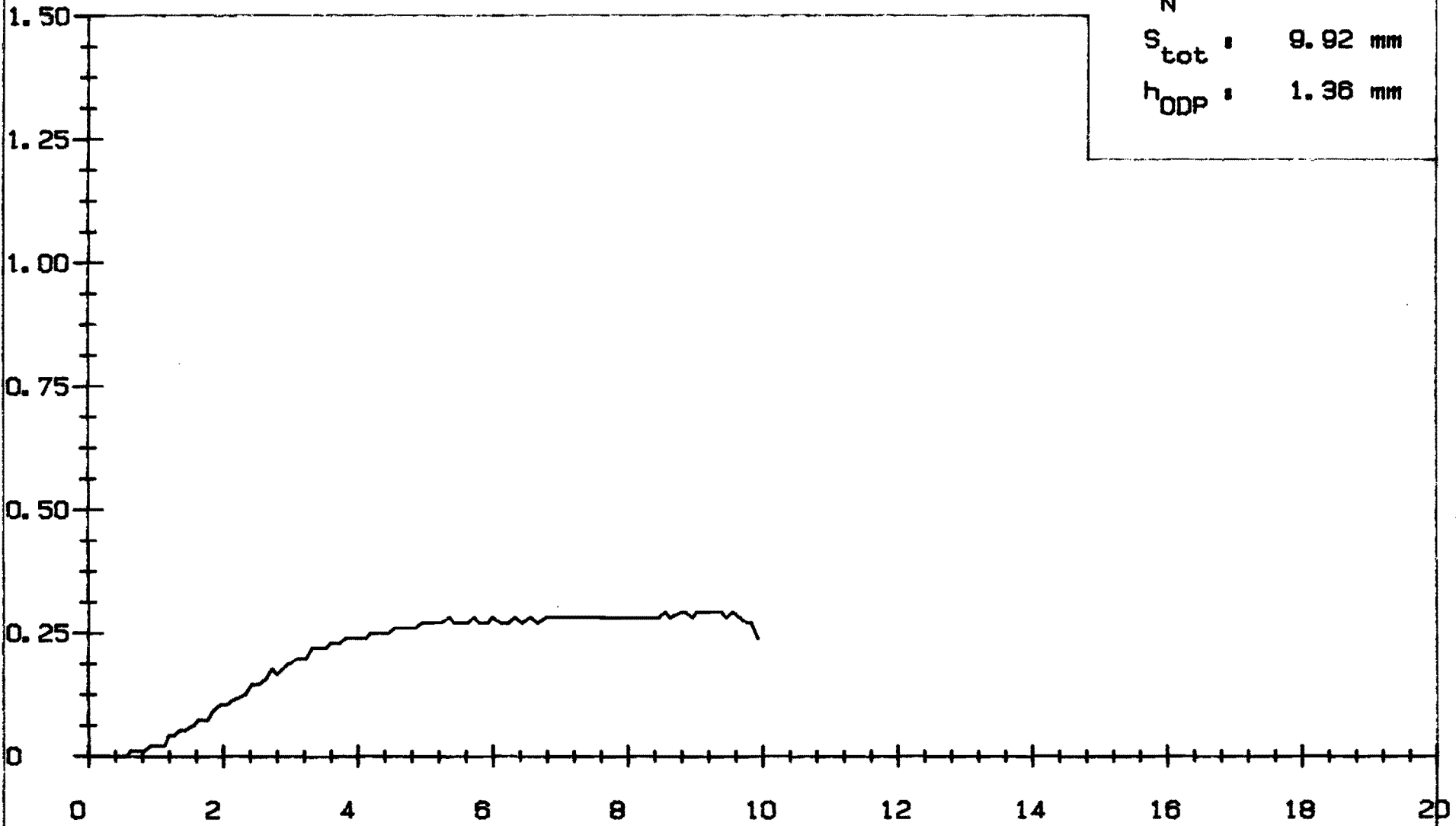
Arbeid : 2.06 Nm

S_N : 8.56 mm

S_{tot} : 9.92 mm

h_{ODP} : 1.36 mm

F_p [kN]



TUE: Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891944

IOPM-BUIGEN-TUE

Plaatcode : F1101750

Proefnummer: V6103.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.24)	(0.00, 0.32)	(0.00, 0.40)
(0.00, 0.48)	(0.00, 0.56)	(0.01, 0.64)	(0.01, 0.72)
(0.02, 0.84)	(0.02, 0.92)	(0.02, 1.00)	(0.02, 1.12)
(0.04, 1.20)	(0.04, 1.28)	(0.05, 1.36)	(0.05, 1.44)
(0.06, 1.56)	(0.07, 1.64)	(0.08, 1.76)	(0.09, 1.88)
(0.10, 1.96)	(0.11, 2.04)	(0.11, 2.16)	(0.13, 2.32)
(0.15, 2.44)	(0.15, 2.52)	(0.16, 2.64)	(0.18, 2.72)
(0.17, 2.80)	(0.19, 2.96)	(0.20, 3.12)	(0.20, 3.24)
(0.21, 3.32)	(0.22, 3.44)	(0.22, 3.52)	(0.23, 3.60)
(0.23, 3.72)	(0.24, 3.84)	(0.24, 3.92)	(0.24, 4.00)
(0.24, 4.12)	(0.25, 4.20)	(0.25, 4.28)	(0.25, 4.40)
(0.25, 4.48)	(0.26, 4.56)	(0.26, 4.68)	(0.26, 4.80)
(0.26, 4.88)	(0.27, 4.96)	(0.27, 5.12)	(0.27, 5.24)
(0.28, 5.36)	(0.27, 5.44)	(0.27, 5.52)	(0.27, 5.64)
(0.28, 5.72)	(0.27, 5.80)	(0.27, 5.92)	(0.28, 6.00)
(0.27, 6.12)	(0.27, 6.24)	(0.28, 6.32)	(0.27, 6.44)
(0.28, 6.56)	(0.27, 6.68)	(0.28, 6.80)	(0.28, 6.88)
(0.28, 7.00)	(0.28, 7.12)	(0.28, 7.24)	(0.28, 7.32)
(0.28, 7.40)	(0.28, 7.52)	(0.28, 7.60)	(0.29, 7.72)
(0.28, 7.84)	(0.28, 7.96)	(0.28, 8.04)	(0.28, 8.12)
(0.28, 8.24)	(0.28, 8.32)	(0.28, 8.40)	(0.28, 8.48)
(0.29, 8.56)	(0.29, 8.64)	(0.29, 8.80)	(0.29, 8.88)
(0.28, 8.96)	(0.29, 9.04)	(0.29, 9.12)	(0.29, 9.20)
(0.29, 9.28)	(0.29, 9.40)	(0.29, 9.48)	(0.29, 9.56)
(0.28, 9.68)	(0.27, 9.76)	(0.27, 9.84)	(0.24, 9.92)
(0.24, 9.92)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.29
De deelprocesweg bij F_{Pmax}	S_N [mm] :	8.56
De totale procesweg	S_{tot} [mm] :	9.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	1.36
De opgenomen deformatie arbeid	W [Nm] :	2.06

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF891945
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 11-05-89
Aantal metingen : 108
Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101760
Proefnummer : V6103.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 65.00
De maximaal optredende perskracht F_{Pmax} [kN] : 0.29
De deelprocesweg bij F_{Pmax} S_N [mm] : 9.20
De totale procesweg S_{tot} [mm] : 9.76
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 0.56
De opgenomen deformatie arbeid W [Nm] : 2.08

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101760

Perscode: PF891945

F_{Pmax} : 0.29 kN

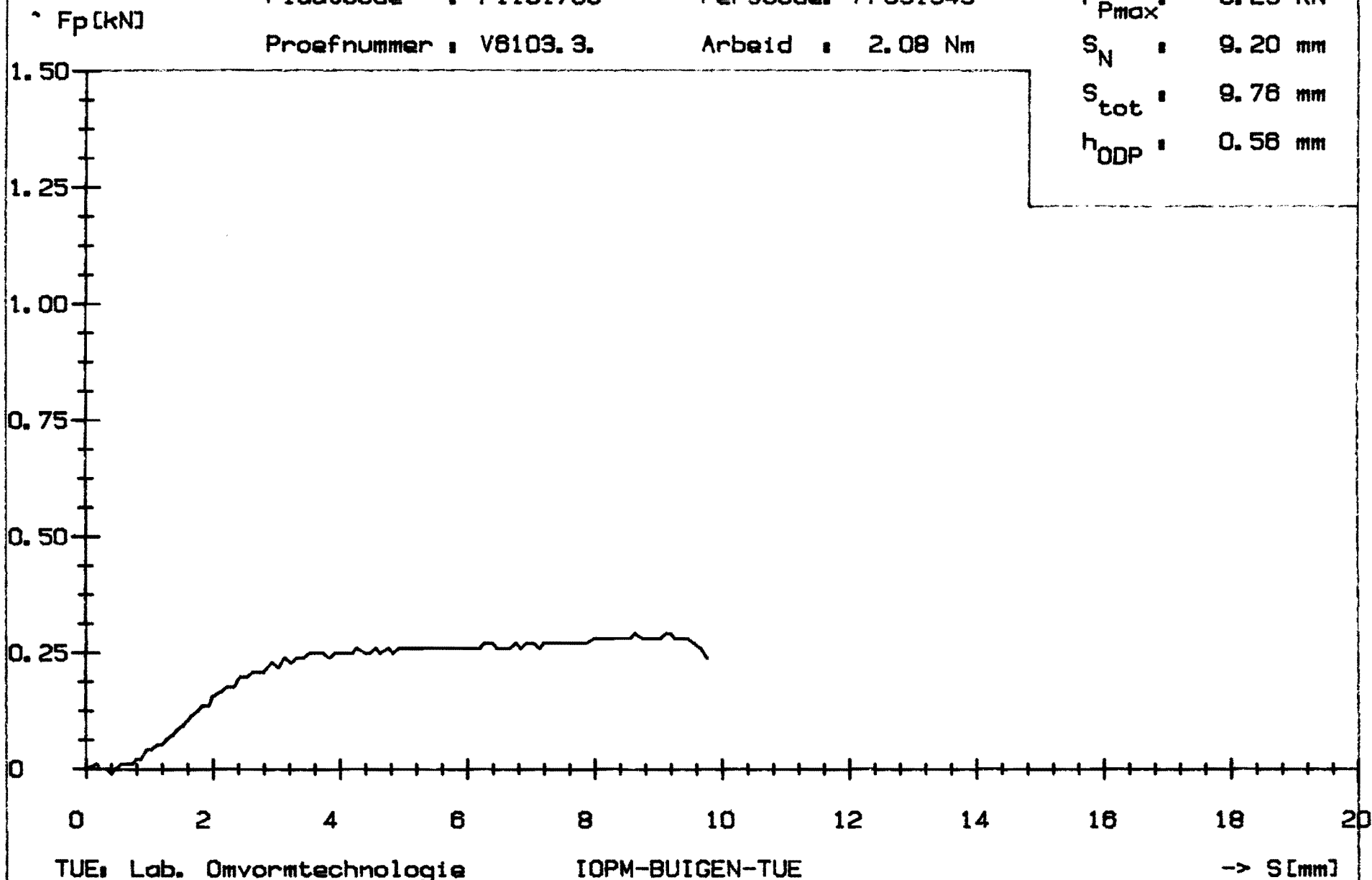
Proefnummer : V8103.3.

Arbeid : 2.08 Nm

S_N : 9.20 mm

S_{tot} : 9.76 mm

h_{ODP} : 0.56 mm



TUE, Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OVMORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891945

IOPM-BUIGEN-TUE

Plaatcode : F1101760

Proefnummer: V6103.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.01, 0.16)	(0.00, 0.24)	(-0.00, 0.32)
(-0.01, 0.40)	(0.00, 0.48)	(0.01, 0.56)	(0.01, 0.64)
(0.01, 0.72)	(0.02, 0.80)	(0.03, 0.88)	(0.04, 0.96)
(0.04, 1.04)	(0.05, 1.12)	(0.06, 1.20)	(0.06, 1.28)
(0.08, 1.36)	(0.09, 1.44)	(0.10, 1.52)	(0.10, 1.60)
(0.11, 1.68)	(0.12, 1.76)	(0.13, 1.84)	(0.14, 1.92)
(0.15, 2.00)	(0.17, 2.12)	(0.18, 2.24)	(0.18, 2.32)
(0.20, 2.44)	(0.20, 2.52)	(0.21, 2.64)	(0.21, 2.72)
(0.21, 2.80)	(0.22, 2.92)	(0.22, 3.04)	(0.24, 3.12)
(0.23, 3.24)	(0.24, 3.32)	(0.24, 3.44)	(0.25, 3.52)
(0.25, 3.60)	(0.25, 3.72)	(0.24, 3.84)	(0.25, 3.92)
(0.25, 4.00)	(0.25, 4.12)	(0.25, 4.20)	(0.26, 4.28)
(0.25, 4.40)	(0.25, 4.48)	(0.26, 4.56)	(0.25, 4.64)
(0.26, 4.76)	(0.25, 4.84)	(0.26, 4.92)	(0.26, 5.04)
(0.26, 5.12)	(0.26, 5.20)	(0.26, 5.28)	(0.26, 5.40)
(0.26, 5.48)	(0.26, 5.56)	(0.26, 5.68)	(0.26, 5.76)
(0.26, 5.84)	(0.27, 5.92)	(0.26, 6.00)	(0.26, 6.12)
(0.27, 6.20)	(0.27, 6.28)	(0.27, 6.40)	(0.27, 6.48)
(0.27, 6.56)	(0.26, 6.68)	(0.27, 6.76)	(0.27, 6.84)
(0.27, 6.92)	(0.27, 7.04)	(0.27, 7.12)	(0.27, 7.20)
(0.27, 7.32)	(0.27, 7.40)	(0.27, 7.48)	(0.27, 7.60)
(0.27, 7.72)	(0.27, 7.80)	(0.27, 7.88)	(0.28, 8.00)
(0.28, 8.12)	(0.28, 8.20)	(0.28, 8.28)	(0.28, 8.40)
(0.28, 8.48)	(0.28, 8.56)	(0.29, 8.64)	(0.28, 8.76)
(0.28, 8.84)	(0.28, 8.92)	(0.28, 9.04)	(0.29, 9.12)
(0.29, 9.20)	(0.28, 9.28)	(0.28, 9.40)	(0.28, 9.48)
(0.27, 9.56)	(0.26, 9.68)	(0.24, 9.76)	(0.24, 9.76)

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.29
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.20
De totale procesweg	S_{tot} [mm] :	9.76
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	0.56
De opgenomen deformatie arbeid	W [Nm] :	2.08

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF891946
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 11-05-89
Aantal metingen : 102
Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : MÜller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101770
Proefnummer : V6103.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	64.99
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.29
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	8.92
De totale procesweg	S_{tot}	[mm] :	9.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	1.00
De opgenomen deformatie arbeid	W	[Nm] :	2.04

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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\hat{F}_p [kN]

Plaatcode : F1101770

Perescode: PF891946

F_{Pmax} : 0.29 kN

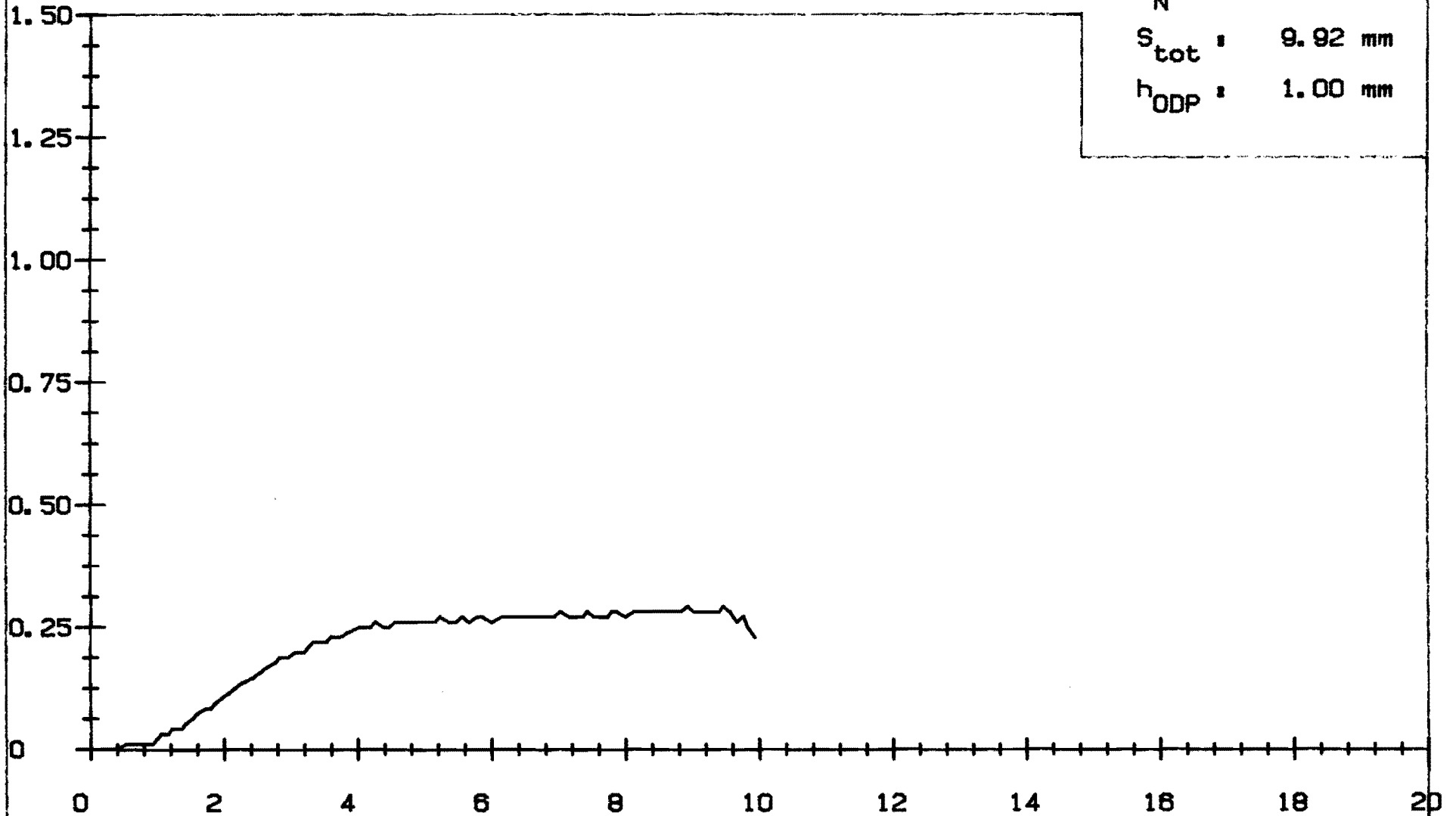
Proefnummer : V6103.3.

Arbeid : 2.04 Nm

S_N : 8.92 mm

S_{tot} : 9.92 mm

h_{ODP} : 1.00 mm



TUE: Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891946

IOPM-BUIGEN-TUE

Plaatcode : F1101770

Proefnummer: V6103.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(-0.00, 0.24)	(0.00, 0.32)	(-0.00, 0.40)
(0.01, 0.52)	(0.01, 0.60)	(0.01, 0.68)	(0.01, 0.76)
(0.01, 0.84)	(0.01, 0.92)	(0.02, 1.00)	(0.03, 1.08)
(0.03, 1.16)	(0.04, 1.24)	(0.04, 1.36)	(0.05, 1.44)
(0.06, 1.52)	(0.07, 1.60)	(0.08, 1.72)	(0.09, 1.80)
(0.09, 1.88)	(0.10, 1.96)	(0.11, 2.08)	(0.12, 2.16)
(0.14, 2.28)	(0.15, 2.44)	(0.16, 2.52)	(0.16, 2.64)
(0.18, 2.76)	(0.19, 2.84)	(0.19, 2.96)	(0.20, 3.08)
(0.20, 3.20)	(0.22, 3.32)	(0.21, 3.44)	(0.22, 3.52)
(0.23, 3.60)	(0.23, 3.72)	(0.24, 3.88)	(0.25, 4.04)
(0.25, 4.12)	(0.25, 4.20)	(0.26, 4.28)	(0.25, 4.40)
(0.25, 4.48)	(0.26, 4.56)	(0.26, 4.64)	(0.26, 4.80)
(0.26, 4.88)	(0.26, 5.00)	(0.26, 5.08)	(0.26, 5.16)
(0.27, 5.24)	(0.26, 5.36)	(0.26, 5.48)	(0.27, 5.56)
(0.26, 5.68)	(0.27, 5.80)	(0.27, 5.88)	(0.26, 6.00)
(0.27, 6.16)	(0.27, 6.24)	(0.27, 6.36)	(0.27, 6.44)
(0.27, 6.52)	(0.27, 6.68)	(0.27, 6.76)	(0.27, 6.84)
(0.27, 6.92)	(0.28, 7.04)	(0.27, 7.16)	(0.27, 7.28)
(0.27, 7.36)	(0.28, 7.44)	(0.27, 7.52)	(0.27, 7.60)
(0.27, 7.72)	(0.28, 7.80)	(0.28, 7.88)	(0.27, 8.00)
(0.28, 8.12)	(0.28, 8.20)	(0.28, 8.28)	(0.28, 8.40)
(0.28, 8.48)	(0.28, 8.56)	(0.28, 8.68)	(0.28, 8.76)
(0.28, 8.84)	(0.29, 8.92)	(0.28, 9.04)	(0.29, 9.12)
(0.28, 9.20)	(0.28, 9.28)	(0.29, 9.40)	(0.29, 9.48)
(0.28, 9.56)	(0.26, 9.68)	(0.27, 9.76)	(0.25, 9.84)
(0.23, 9.92)	(0.23, 9.92)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.29
De deelprocesweg bij F_{Pmax}	S_N [mm] :	8.92
De totale procesweg	S_{tot} [mm] :	9.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	1.00
De opgenomen deformatie arbeid	W [Nm] :	2.04

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF891947
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 11-05-89
Aantal metingen : 107
Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101780
Proefnummer : V6103.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	64.97
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.29
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	9.28
De totale procesweg	S_{tot}	[mm] :	9.76
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	0.48
De opgenomen deformatie arbeid	W	[Nm] :	2.04

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101780

Perencode: PF891947

F_{Pmax} : 0.29 kN

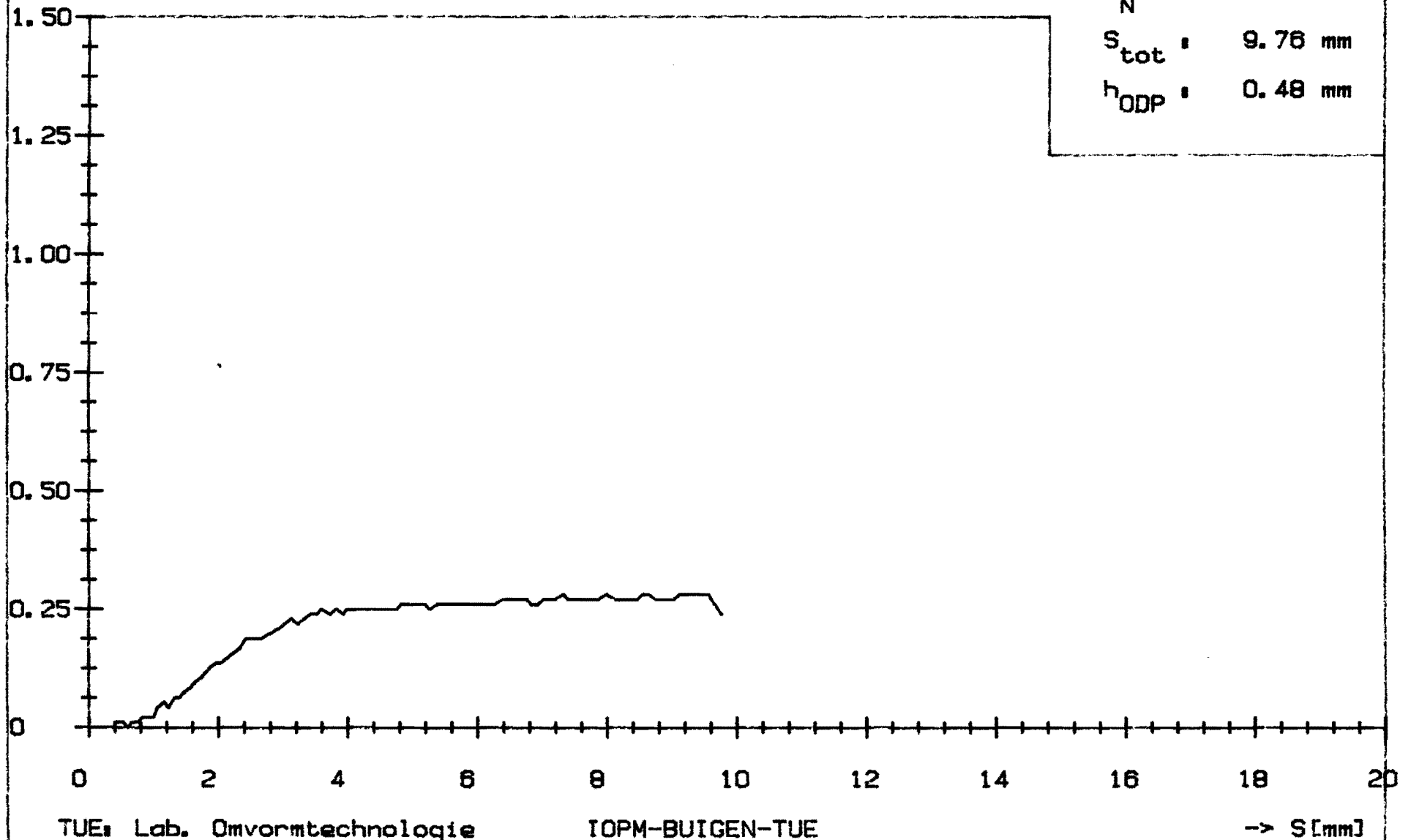
Proefnummer : V6103.3.

Arbeid : 2.04 Nm

S_N : 9.28 mm

S_{tot} : 9.76 mm

h_{ODP} : 0.48 mm



TUE Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891947

IOPM-BUIGEN-TUE

Plaatcode : F1101780

Proefnummer: V6103.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.00, 0.20)	(0.00, 0.28)	(0.00, 0.36)
(0.01, 0.44)	(0.01, 0.52)	(0.00, 0.60)	(0.01, 0.68)
(0.02, 0.76)	(0.02, 0.84)	(0.03, 0.92)	(0.03, 1.00)
(0.04, 1.08)	(0.05, 1.16)	(0.05, 1.24)	(0.06, 1.32)
(0.07, 1.40)	(0.08, 1.48)	(0.09, 1.56)	(0.09, 1.64)
(0.11, 1.72)	(0.11, 1.80)	(0.12, 1.88)	(0.13, 1.96)
(0.14, 2.04)	(0.15, 2.12)	(0.16, 2.24)	(0.17, 2.32)
(0.19, 2.44)	(0.19, 2.52)	(0.19, 2.68)	(0.20, 2.80)
(0.20, 2.92)	(0.22, 3.04)	(0.23, 3.12)	(0.22, 3.24)
(0.23, 3.32)	(0.24, 3.44)	(0.24, 3.52)	(0.25, 3.60)
(0.24, 3.72)	(0.25, 3.84)	(0.24, 3.92)	(0.25, 4.00)
(0.25, 4.12)	(0.25, 4.20)	(0.25, 4.28)	(0.25, 4.40)
(0.25, 4.48)	(0.26, 4.56)	(0.26, 4.64)	(0.25, 4.76)
(0.26, 4.84)	(0.26, 4.92)	(0.26, 5.04)	(0.26, 5.12)
(0.26, 5.20)	(0.26, 5.28)	(0.26, 5.40)	(0.26, 5.48)
(0.26, 5.56)	(0.26, 5.68)	(0.26, 5.76)	(0.26, 5.84)
(0.26, 5.92)	(0.26, 6.00)	(0.26, 6.12)	(0.26, 6.20)
(0.26, 6.28)	(0.27, 6.40)	(0.27, 6.48)	(0.27, 6.56)
(0.27, 6.68)	(0.27, 6.76)	(0.26, 6.84)	(0.26, 6.92)
(0.27, 7.04)	(0.27, 7.12)	(0.27, 7.20)	(0.28, 7.32)
(0.27, 7.40)	(0.27, 7.48)	(0.27, 7.60)	(0.27, 7.72)
(0.27, 7.80)	(0.27, 7.88)	(0.28, 8.00)	(0.27, 8.12)
(0.27, 8.20)	(0.27, 8.28)	(0.27, 8.40)	(0.27, 8.48)
(0.28, 8.56)	(0.28, 8.64)	(0.27, 8.76)	(0.27, 8.84)
(0.27, 8.92)	(0.27, 9.04)	(0.28, 9.12)	(0.28, 9.20)
(0.29, 9.28)	(0.29, 9.40)	(0.29, 9.48)	(0.29, 9.56)
(0.26, 9.68)	(0.24, 9.76)	(0.24, 9.76)	

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.29
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.28
De totale procesweg	S_{tot} [mm] :	9.76
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	0.48
De opgenomen deformatie arbeid	W [Nm] :	2.04

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF891948
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 11-05-89
Aantal metingen : 98
Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101700
Proefnummer : V6103.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] :	64.98
De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.29
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	9.48
De totale procesweg	S_{tot}	[mm] :	10.00
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	0.52
De opgenomen deformatie arbeid	W	[Nm] :	1.97

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101700

Perescode: PF891948

F_{Pmax} : 0.29 kN

Proefnummer : V6103.3.

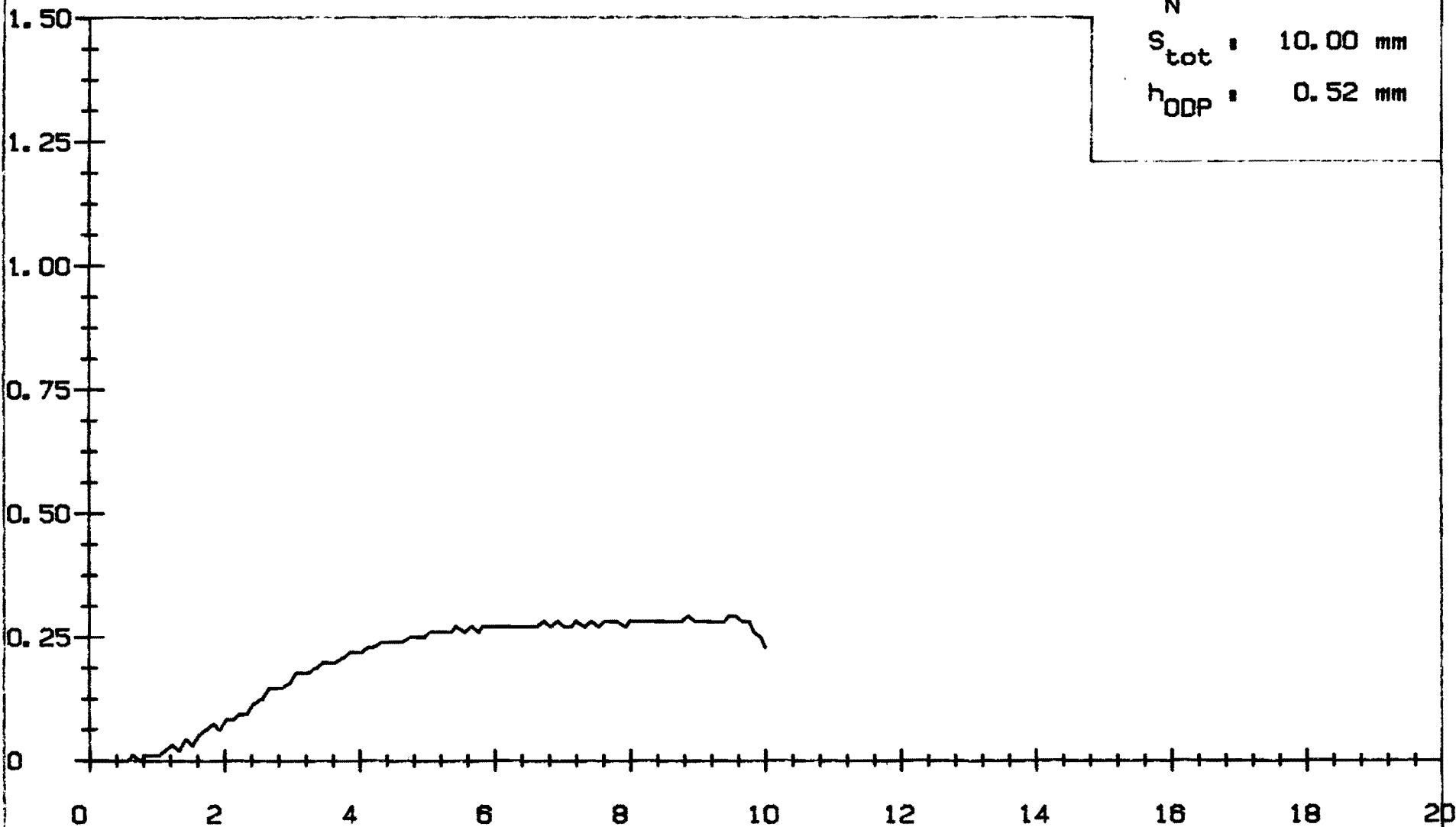
Arbeid : 1.97 Nm

S_N : 9.48 mm

S_{tot} : 10.00 mm

h_{ODP} : 0.52 mm

F_p [kN]



TUE, Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891948

IOPM-BUIGEN-TUE

Plaatcode : F1101700

Proefnummer: V6103.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(-0.00, 0.32)	(-0.00, 0.44)	(-0.00, 0.56)
(0.01, 0.64)	(0.00, 0.76)	(0.01, 0.84)	(0.01, 0.92)
(0.01, 1.04)	(0.02, 1.12)	(0.03, 1.24)	(0.02, 1.32)
(0.04, 1.44)	(0.03, 1.52)	(0.05, 1.64)	(0.06, 1.72)
(0.07, 1.84)	(0.07, 1.92)	(0.09, 2.04)	(0.09, 2.12)
(0.10, 2.24)	(0.10, 2.32)	(0.11, 2.44)	(0.12, 2.56)
(0.14, 2.68)	(0.15, 2.84)	(0.16, 2.96)	(0.17, 3.08)
(0.17, 3.24)	(0.19, 3.36)	(0.20, 3.48)	(0.20, 3.64)
(0.21, 3.76)	(0.22, 3.88)	(0.22, 4.04)	(0.23, 4.12)
(0.23, 4.20)	(0.23, 4.32)	(0.24, 4.44)	(0.24, 4.56)
(0.24, 4.64)	(0.25, 4.76)	(0.25, 4.84)	(0.25, 4.96)
(0.26, 5.08)	(0.26, 5.16)	(0.26, 5.24)	(0.26, 5.36)
(0.27, 5.44)	(0.26, 5.56)	(0.27, 5.68)	(0.26, 5.76)
(0.27, 5.84)	(0.27, 5.96)	(0.27, 6.04)	(0.27, 6.12)
(0.27, 6.24)	(0.27, 6.32)	(0.28, 6.44)	(0.27, 6.52)
(0.27, 6.64)	(0.28, 6.72)	(0.27, 6.84)	(0.28, 6.92)
(0.27, 7.04)	(0.27, 7.12)	(0.28, 7.20)	(0.27, 7.32)
(0.28, 7.44)	(0.27, 7.52)	(0.28, 7.64)	(0.28, 7.72)
(0.28, 7.80)	(0.28, 7.92)	(0.28, 8.00)	(0.28, 8.12)
(0.28, 8.20)	(0.28, 8.28)	(0.28, 8.40)	(0.28, 8.48)
(0.28, 8.56)	(0.28, 8.64)	(0.28, 8.76)	(0.29, 8.88)
(0.28, 8.96)	(0.28, 9.04)	(0.28, 9.12)	(0.28, 9.20)
(0.28, 9.32)	(0.28, 9.40)	(0.29, 9.48)	(0.29, 9.56)
(0.28, 9.68)	(0.28, 9.76)	(0.29, 9.84)	(0.29, 9.92)
(0.23, 10.00)	(0.23, 10.00)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.29
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.48
De totale procesweg	S_{tot} [mm] :	10.00
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	0.52
De opgenomen deformatie arbeid	W [Nm] :	1.97

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Plaatcode : F1101810

Perescode: PF891949

F_{Pmax} : 0.37 kN

Proefnummer : V5253.3.

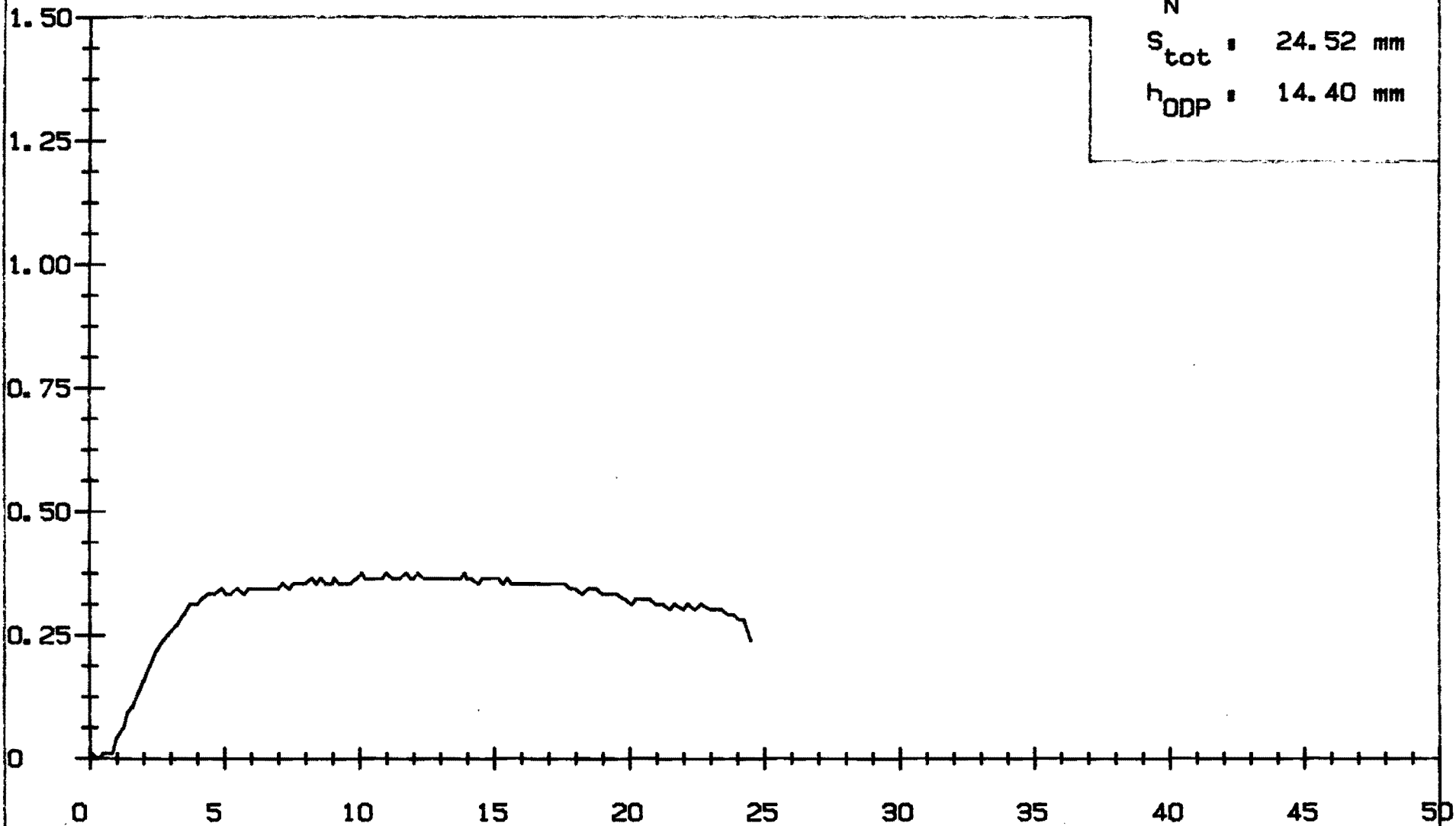
Arbeid : 7.62 Nm

S_N : 10.12 mm

S_{tot} : 24.52 mm

h_{ODP} : 14.40 mm

\hat{F}_p [kN]



TUE: Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891949

IOPM-BUIGEN-TUE

Plaatcode : F1101810

Proefnummer: V5253.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.01, 0.00)	(0.00, 0.32)	(0.01, 0.48)	(0.01, 0.64)
(0.02, 0.80)	(0.04, 1.04)	(0.06, 1.24)	(0.09, 1.44)
(0.10, 1.60)	(0.14, 1.80)	(0.15, 2.00)	(0.19, 2.24)
(0.21, 2.48)	(0.24, 2.72)	(0.25, 2.92)	(0.27, 3.24)
(0.30, 3.52)	(0.31, 3.72)	(0.31, 4.04)	(0.32, 4.20)
(0.33, 4.44)	(0.33, 4.64)	(0.34, 4.88)	(0.34, 5.08)
(0.34, 5.28)	(0.34, 5.52)	(0.34, 5.72)	(0.35, 5.92)
(0.34, 6.12)	(0.34, 6.32)	(0.35, 6.52)	(0.35, 6.80)
(0.35, 7.00)	(0.35, 7.16)	(0.35, 7.40)	(0.36, 7.60)
(0.36, 7.80)	(0.36, 8.00)	(0.36, 8.24)	(0.36, 8.40)
(0.37, 8.56)	(0.35, 8.76)	(0.36, 8.96)	(0.37, 9.12)
(0.36, 9.28)	(0.36, 9.52)	(0.36, 9.68)	(0.37, 9.88)
(0.37, 10.12)	(0.37, 10.28)	(0.37, 10.52)	(0.37, 10.68)
(0.37, 10.84)	(0.37, 11.04)	(0.37, 11.24)	(0.37, 11.48)
(0.37, 11.72)	(0.37, 11.88)	(0.36, 12.04)	(0.37, 12.20)
(0.36, 12.40)	(0.37, 12.56)	(0.37, 12.76)	(0.37, 12.92)
(0.37, 13.16)	(0.36, 13.36)	(0.37, 13.52)	(0.37, 13.72)
(0.37, 13.88)	(0.37, 14.04)	(0.36, 14.20)	(0.36, 14.40)
(0.36, 14.60)	(0.36, 14.76)	(0.37, 14.92)	(0.36, 15.16)
(0.36, 15.32)	(0.36, 15.52)	(0.35, 15.68)	(0.36, 15.84)
(0.36, 16.00)	(0.35, 16.24)	(0.36, 16.48)	(0.35, 16.72)
(0.35, 16.92)	(0.35, 17.24)	(0.35, 17.56)	(0.35, 17.80)
(0.34, 18.00)	(0.34, 18.28)	(0.34, 18.52)	(0.34, 18.76)
(0.34, 18.96)	(0.34, 19.24)	(0.33, 19.48)	(0.32, 19.80)
(0.32, 20.08)	(0.32, 20.28)	(0.32, 20.52)	(0.32, 20.76)
(0.31, 20.96)	(0.32, 21.24)	(0.31, 21.48)	(0.31, 21.68)
(0.31, 21.96)	(0.31, 22.20)	(0.30, 22.40)	(0.31, 22.68)
(0.30, 22.96)	(0.30, 23.20)	(0.30, 23.40)	(0.29, 23.64)
(0.29, 23.84)	(0.28, 24.08)	(0.28, 24.28)	(0.24, 24.52)
(0.24, 24.52)			

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.37
De deelprocesweg bij F_{Pmax}	S_N [mm] :	10.12
De totale procesweg	S_{tot} [mm] :	24.52
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	14.40
De opgenomen deformatie arbeid	W [Nm] :	7.62

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF891950
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 11-05-89
Aantal metingen : 120
Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101820
Proefnummer : V5253.3.

- OVERZICHT GEGEVENS UIT P-S KROMME -

Beginbreedte van de plaat b_0		[mm] : 65.03
De maximaal optredende perskracht	F_{Pmax}	[kN] : 0.37
De deelprocesweg bij F_{Pmax}	S_N	[mm] : 9.52
De totale procesweg	S_{tot}	[mm] : 24.56
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] : 15.04
De opgenomen deformatie arbeid	W	[Nm] : 7.59

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101820

Perescode: PF891950

F_{Pmax} : 0.37 kN

Proefnummer : V5253.3.

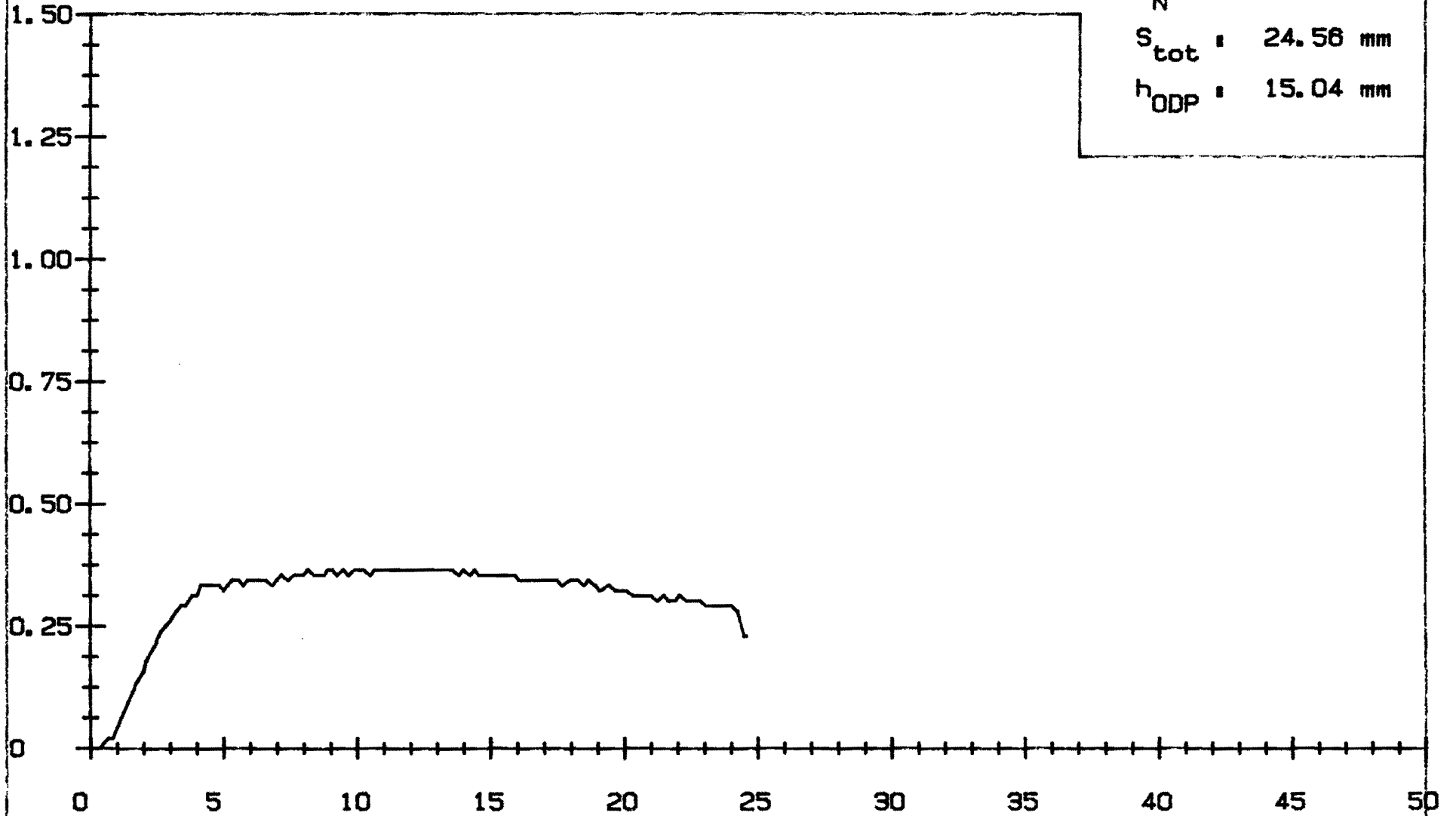
Arbeid : 7.59 Nm

S_N : 9.52 mm

S_{tot} : 24.56 mm

h_{ODP} : 15.04 mm

F_p [kN]



TUE, Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF891950

IOPM-BUIGEN-TUE

Plaatcode : F1101820

Proefnummer: V5253.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(-0.00, 0.32)	(0.01, 0.48)	(0.02, 0.64)
(0.03, 0.80)	(0.04, 1.00)	(0.06, 1.20)	(0.09, 1.40)
(0.11, 1.56)	(0.13, 1.76)	(0.15, 1.96)	(0.18, 2.12)
(0.21, 2.40)	(0.24, 2.64)	(0.25, 2.80)	(0.26, 3.04)
(0.29, 3.24)	(0.30, 3.44)	(0.30, 3.60)	(0.31, 3.84)
(0.32, 4.00)	(0.33, 4.20)	(0.33, 4.44)	(0.33, 4.60)
(0.33, 4.80)	(0.33, 5.00)	(0.33, 5.16)	(0.34, 5.36)
(0.34, 5.56)	(0.33, 5.76)	(0.35, 5.92)	(0.35, 6.16)
(0.34, 6.32)	(0.35, 6.56)	(0.34, 6.80)	(0.34, 7.04)
(0.35, 7.20)	(0.34, 7.40)	(0.36, 7.64)	(0.35, 7.84)
(0.36, 8.00)	(0.36, 8.20)	(0.36, 8.40)	(0.36, 8.56)
(0.36, 8.76)	(0.36, 8.92)	(0.36, 9.12)	(0.36, 9.28)
(0.37, 9.52)	(0.36, 9.68)	(0.37, 9.88)	(0.36, 10.12)
(0.36, 10.28)	(0.36, 10.48)	(0.36, 10.68)	(0.37, 10.88)
(0.37, 11.08)	(0.37, 11.32)	(0.37, 11.48)	(0.37, 11.68)
(0.36, 11.88)	(0.36, 12.12)	(0.36, 12.28)	(0.36, 12.52)
(0.37, 12.68)	(0.37, 12.84)	(0.36, 13.08)	(0.37, 13.24)
(0.36, 13.40)	(0.37, 13.56)	(0.35, 13.80)	(0.36, 14.00)
(0.36, 14.24)	(0.36, 14.40)	(0.35, 14.56)	(0.36, 14.76)
(0.36, 14.96)	(0.36, 15.16)	(0.35, 15.36)	(0.36, 15.56)
(0.35, 15.72)	(0.35, 15.88)	(0.34, 16.12)	(0.35, 16.36)
(0.34, 16.60)	(0.34, 16.80)	(0.34, 17.04)	(0.34, 17.24)
(0.35, 17.48)	(0.34, 17.68)	(0.34, 18.00)	(0.34, 18.24)
(0.33, 18.48)	(0.34, 18.68)	(0.33, 18.92)	(0.33, 19.12)
(0.33, 19.40)	(0.33, 19.64)	(0.33, 19.92)	(0.32, 20.12)
(0.32, 20.36)	(0.32, 20.60)	(0.32, 20.80)	(0.31, 21.04)
(0.31, 21.24)	(0.31, 21.48)	(0.31, 21.68)	(0.30, 21.92)
(0.31, 22.12)	(0.30, 22.36)	(0.30, 22.56)	(0.30, 22.84)
(0.29, 23.08)	(0.29, 23.36)	(0.29, 23.60)	(0.29, 23.80)
(0.29, 24.00)	(0.28, 24.24)	(0.23, 24.48)	(0.23, 24.56)

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.37
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.52
De totale procesweg	S_{tot} [mm] :	24.56
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	15.04
De opgenomen deformatie arbeid	W [Nm] :	7.59

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Plaatcode : F1101830

Persecode: PF091951

F_{Pmax} : 0.36 kN

Proefnummer : V5253.3.

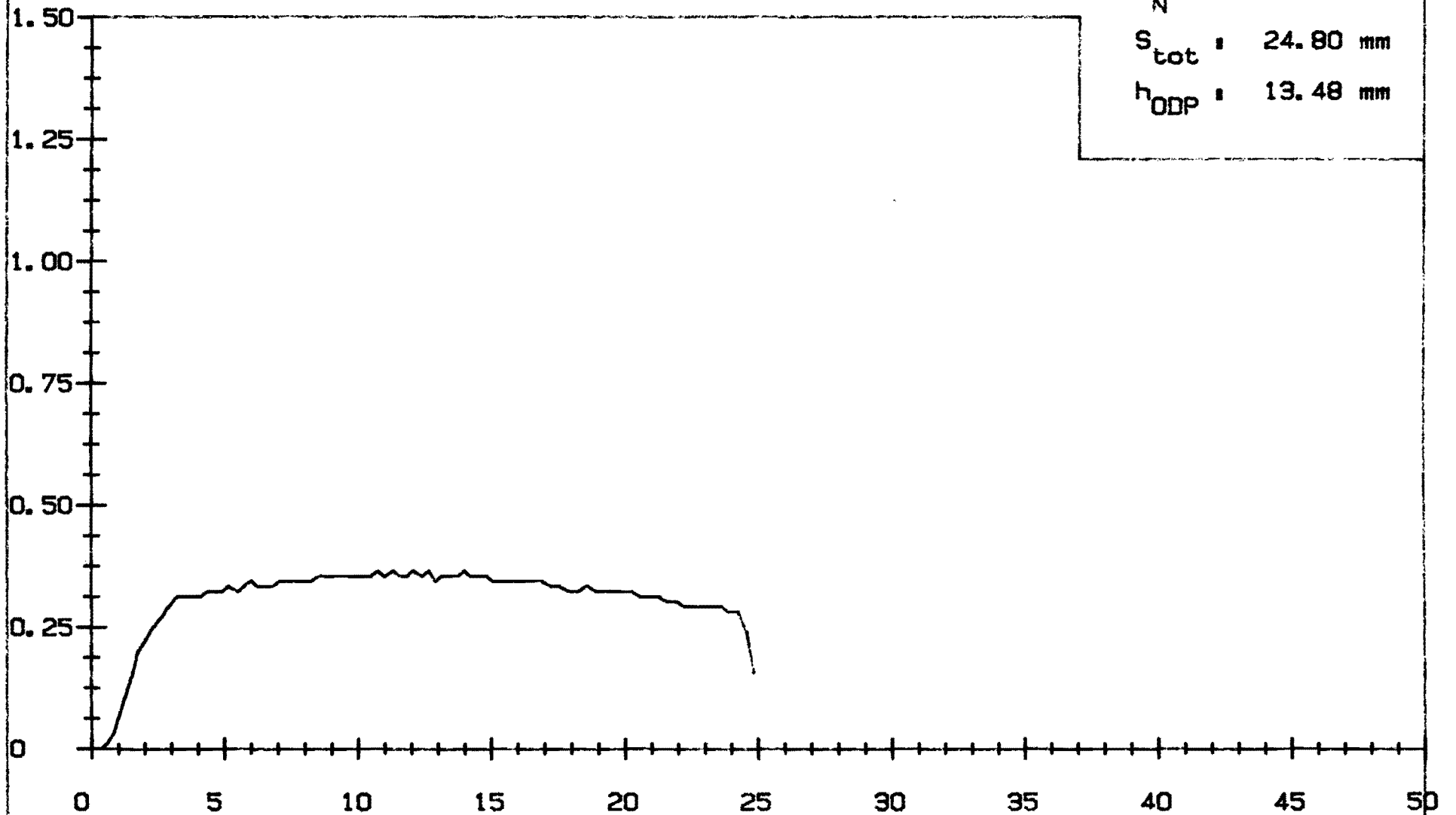
Arbeid : 7.83 Nm

S_N : 11.32 mm

S_{tot} : 24.80 mm

h_{ODP} : 13.48 mm

F_p [kN]



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IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF091951

IOPM-BUIGEN-TUE

Plaatcode : F1101830

Proefnummer: V5253.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.32)	(0.01, 0.56)	(0.04, 0.80)
(0.06, 1.04)	(0.10, 1.28)	(0.15, 1.52)	(0.19, 1.76)
(0.22, 2.00)	(0.25, 2.32)	(0.27, 2.64)	(0.30, 2.92)
(0.31, 3.24)	(0.31, 3.52)	(0.32, 3.84)	(0.32, 4.12)
(0.32, 4.40)	(0.32, 4.64)	(0.33, 4.92)	(0.33, 5.20)
(0.33, 5.48)	(0.33, 5.76)	(0.34, 6.00)	(0.33, 6.28)
(0.33, 6.56)	(0.33, 6.84)	(0.35, 7.12)	(0.35, 7.40)
(0.34, 7.72)	(0.35, 8.00)	(0.35, 8.28)	(0.36, 8.56)
(0.35, 8.84)	(0.36, 9.12)	(0.36, 9.40)	(0.35, 9.68)
(0.35, 9.92)	(0.36, 10.20)	(0.36, 10.48)	(0.36, 10.76)
(0.36, 11.04)	(0.36, 11.32)	(0.36, 11.60)	(0.36, 11.84)
(0.36, 12.12)	(0.36, 12.40)	(0.36, 12.64)	(0.35, 12.92)
(0.35, 13.20)	(0.36, 13.48)	(0.36, 13.76)	(0.36, 14.00)
(0.36, 14.28)	(0.36, 14.56)	(0.35, 14.84)	(0.35, 15.12)
(0.35, 15.40)	(0.35, 15.68)	(0.34, 15.92)	(0.34, 16.24)
(0.34, 16.56)	(0.34, 16.92)	(0.33, 17.24)	(0.34, 17.56)
(0.33, 17.92)	(0.33, 18.24)	(0.33, 18.56)	(0.32, 18.92)
(0.33, 19.24)	(0.32, 19.60)	(0.32, 19.92)	(0.32, 20.24)
(0.32, 20.56)	(0.31, 20.92)	(0.31, 21.24)	(0.30, 21.56)
(0.30, 21.92)	(0.30, 22.24)	(0.29, 22.56)	(0.29, 22.92)
(0.29, 23.24)	(0.29, 23.60)	(0.28, 23.92)	(0.28, 24.24)
(0.24, 24.56)	(0.16, 24.80)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.36
De deelprocesweg bij F_{Pmax}	S_N [mm] :	11.32
De totale procesweg	S_{tot} [mm] :	24.80
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	13.48
De opgenomen deformatie arbeid	W [Nm] :	7.63

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF091952
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 11-05-89
Aantal metingen : 86
Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101840
Proefnummer : V5253.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] : 65.02
De maximaal optredende perskracht	F_{Pmax}	[kN] : 0.35
De deelprocesweg bij F_{Pmax}	S_N	[mm] : 9.40
De totale procesweg	S_{tot}	[mm] : 24.80
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] : 15.40
De opgenomen deformatie arbeid	W	[Nm] : 7.51

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101840

Perscode: PF091952

F_{Pmax} : 0.35 kN

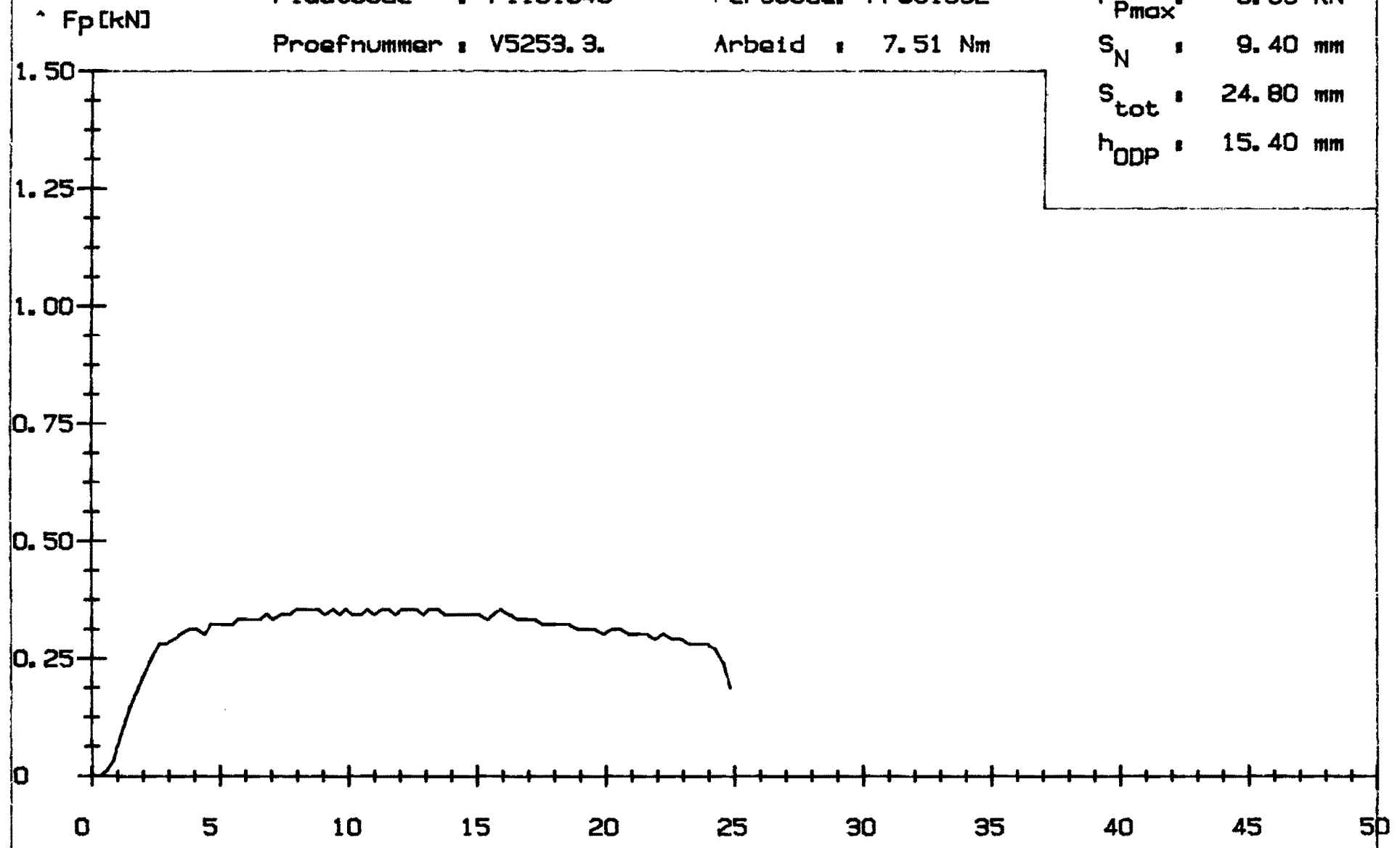
Proefnummer : V5253.3.

Arbeid : 7.51 Nm

S_N : 9.40 mm

S_{tot} : 24.80 mm

h_{ODP} : 15.40 mm



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IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF091952

IOPM-BUIGEN-TUE

Plaatcode : F1101840

Proefnummer: V5253.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.32)	(0.01, 0.56)	(0.03, 0.80)
(0.06, 1.04)	(0.11, 1.28)	(0.14, 1.52)	(0.18, 1.76)
(0.21, 2.00)	(0.25, 2.32)	(0.28, 2.64)	(0.28, 2.92)
(0.29, 3.24)	(0.30, 3.52)	(0.31, 3.84)	(0.31, 4.12)
(0.30, 4.40)	(0.32, 4.64)	(0.33, 4.92)	(0.32, 5.20)
(0.32, 5.48)	(0.33, 5.76)	(0.33, 6.00)	(0.33, 6.28)
(0.33, 6.56)	(0.34, 6.84)	(0.34, 7.12)	(0.34, 7.40)
(0.35, 7.72)	(0.35, 8.00)	(0.35, 8.28)	(0.35, 8.56)
(0.35, 8.84)	(0.34, 9.12)	(0.35, 9.40)	(0.35, 9.68)
(0.35, 9.92)	(0.35, 10.20)	(0.34, 10.48)	(0.35, 10.76)
(0.35, 11.04)	(0.35, 11.32)	(0.35, 11.60)	(0.34, 11.84)
(0.35, 12.12)	(0.35, 12.40)	(0.35, 12.64)	(0.35, 12.92)
(0.35, 13.20)	(0.35, 13.48)	(0.35, 13.76)	(0.35, 14.00)
(0.34, 14.28)	(0.34, 14.56)	(0.34, 14.84)	(0.34, 15.12)
(0.34, 15.40)	(0.34, 15.68)	(0.35, 15.92)	(0.34, 16.24)
(0.33, 16.56)	(0.34, 16.92)	(0.33, 17.24)	(0.33, 17.56)
(0.33, 17.92)	(0.33, 18.24)	(0.32, 18.56)	(0.31, 18.92)
(0.32, 19.24)	(0.31, 19.60)	(0.31, 19.92)	(0.32, 20.24)
(0.31, 20.56)	(0.30, 20.92)	(0.30, 21.24)	(0.30, 21.56)
(0.29, 21.92)	(0.31, 22.24)	(0.29, 22.56)	(0.29, 22.92)
(0.29, 23.24)	(0.28, 23.60)	(0.28, 23.92)	(0.28, 24.24)
(0.24, 24.56)	(0.18, 24.80)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.35
De deelprocesweg bij F_{Pmax}	S_N [mm] :	9.40
De totale procesweg	S_{tot} [mm] :	24.80
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	15.40
De opgenomen deformatie arbeid	W [Nm] :	7.51

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF091953
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 11-05-89
Aantal metingen : 85
Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : P1101850
Proefnummer : V5253.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 65.00
De maximaal optredende perskracht F_{Pmax} [kN] : 0.36
De deelprocesweg bij F_{Pmax} S_N [mm] : 11.12
De totale procesweg S_{tot} [mm] : 24.56
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 13.44
De opgenomen deformatie arbeid W [Nm] : 7.46

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101850

Paracode: PF091953

F_{Pmax} : 0.36 kN

Proefnummer : V5253.3.

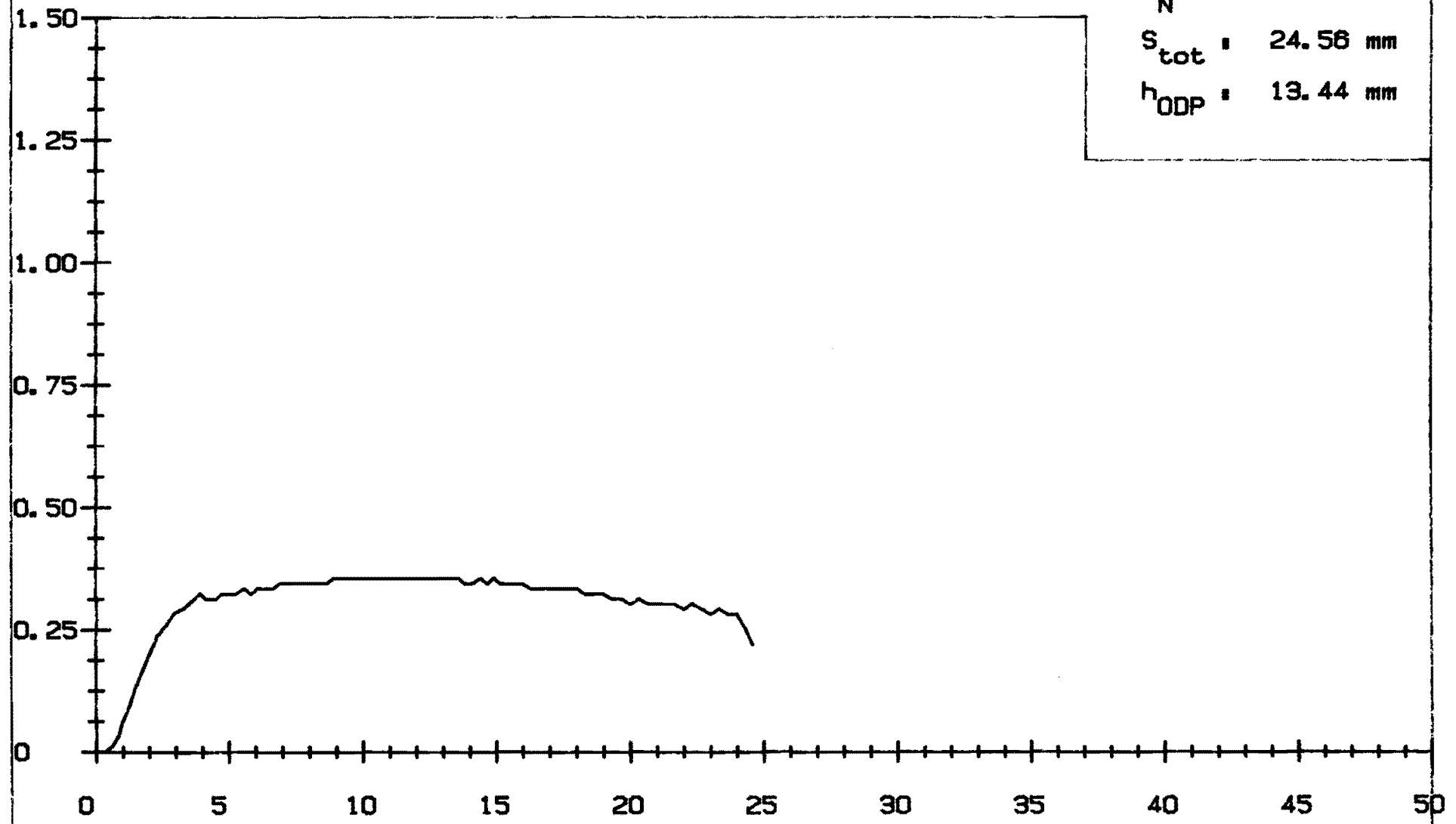
Arbeid : 7.46 Nm

S_N : 11.12 mm

S_{tot} : 24.56 mm

h_{ODP} : 13.44 mm

F_p [kN]



TUE, Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF091953

IOPM-BUIGEN-TUE

Plaatcode : F1101850

Proefnummer: V5253.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(-0.00, 0.32)	(0.01, 0.56)	(0.03, 0.80)
(0.06, 1.04)	(0.10, 1.28)	(0.14, 1.52)	(0.17, 1.76)
(0.20, 2.00)	(0.23, 2.32)	(0.26, 2.64)	(0.29, 2.92)
(0.29, 3.24)	(0.30, 3.52)	(0.32, 3.88)	(0.31, 4.20)
(0.32, 4.48)	(0.32, 4.76)	(0.32, 5.04)	(0.33, 5.28)
(0.33, 5.56)	(0.32, 5.84)	(0.33, 6.12)	(0.34, 6.40)
(0.34, 6.68)	(0.34, 6.92)	(0.34, 7.20)	(0.34, 7.48)
(0.34, 7.80)	(0.34, 8.12)	(0.35, 8.40)	(0.34, 8.64)
(0.35, 8.92)	(0.35, 9.20)	(0.35, 9.48)	(0.36, 9.76)
(0.35, 10.00)	(0.35, 10.28)	(0.35, 10.56)	(0.35, 10.84)
(0.36, 11.12)	(0.35, 11.40)	(0.35, 11.68)	(0.35, 11.92)
(0.36, 12.20)	(0.35, 12.48)	(0.35, 12.76)	(0.36, 13.04)
(0.35, 13.28)	(0.35, 13.56)	(0.35, 13.84)	(0.34, 14.12)
(0.35, 14.40)	(0.35, 14.68)	(0.35, 14.92)	(0.34, 15.20)
(0.34, 15.48)	(0.34, 15.76)	(0.34, 16.00)	(0.34, 16.36)
(0.34, 16.68)	(0.34, 17.04)	(0.34, 17.36)	(0.33, 17.68)
(0.33, 18.00)	(0.33, 18.36)	(0.33, 18.68)	(0.33, 19.04)
(0.31, 19.36)	(0.32, 19.68)	(0.31, 20.00)	(0.31, 20.36)
(0.30, 20.68)	(0.30, 21.04)	(0.31, 21.36)	(0.30, 21.68)
(0.29, 22.00)	(0.30, 22.36)	(0.29, 22.68)	(0.28, 23.04)
(0.29, 23.36)	(0.29, 23.68)	(0.28, 24.00)	(0.25, 24.36)
(0.22, 24.56)			

De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.36
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	11.12
De totale procesweg	S_{tot}	[mm] :	24.56
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	13.44
De opgenomen deformatie arbeid	W	[Nm] :	7.46

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPORT PERS

- PROEFGEGEVENS -

Perscode : PF091954
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 11-05-89
Aantal metingen : 114
Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101860
Proefnummer : V4403.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] : 64.99
De maximaal optredende perskracht	F_{Pmax}	[kN] : 0.49
De deelprocesweg bij F_{Pmax}	S_N	[mm] : 10.56
De totale procesweg	S_{tot}	[mm] : 40.12
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] : 29.56
De opgenomen deformatie arbeid	W	[Nm] : 12.95

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101860

Perencode: PF091954

F_{Pmax} : 0.49 kN

Proefnummer : V4403.3.

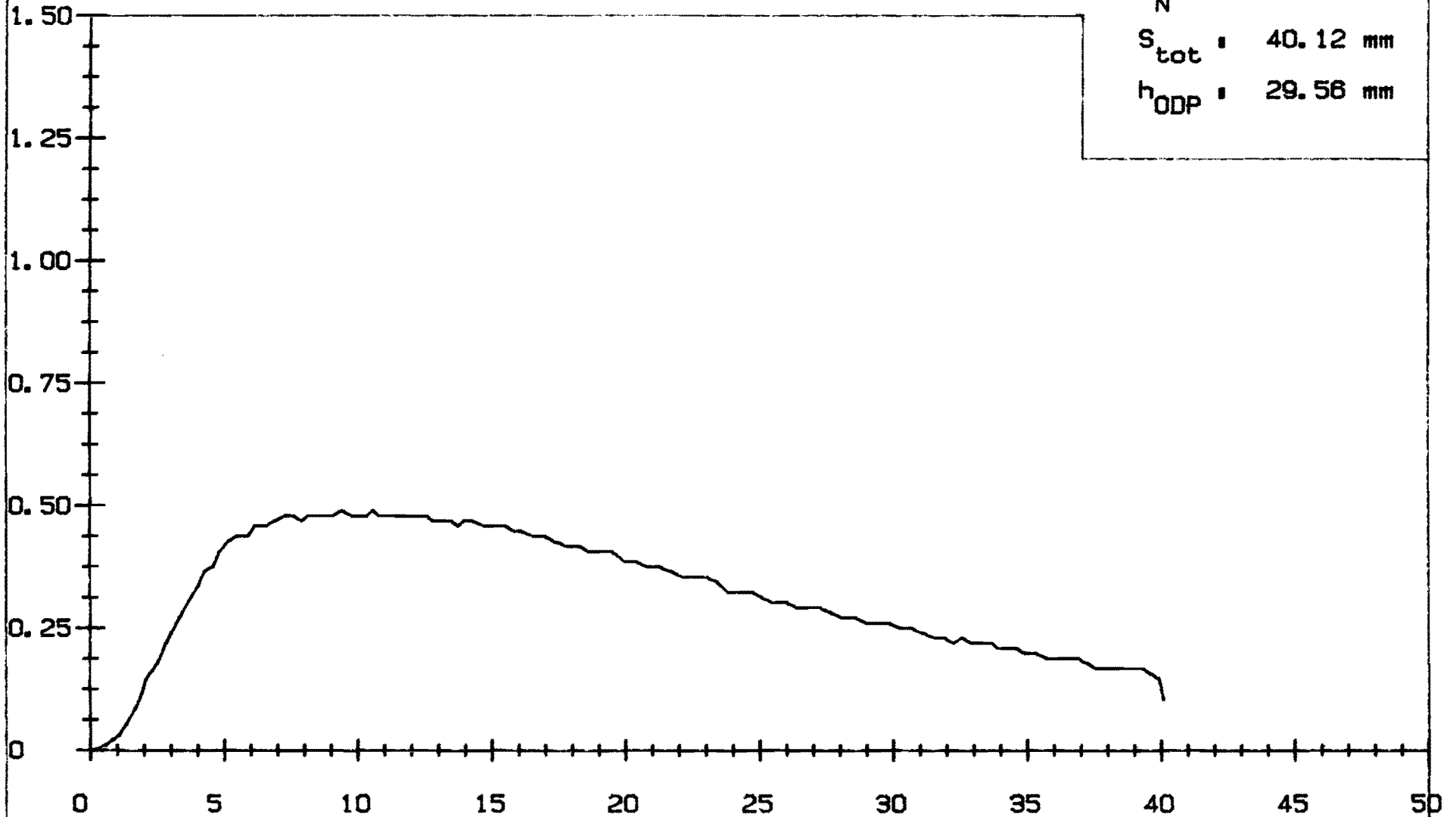
Arbeid : 12.95 Nm

S_N : 10.56 mm

S_{tot} : 40.12 mm

h_{ODP} : 29.56 mm

F_p [kN]



TUE: Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF091954

IOPM-BUIGEN-TUE

Plaatcode : F1101860

Proefnummer: V4403.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.01, 0.60)	(0.02, 0.84)	(0.03, 1.12)
(0.06, 1.36)	(0.08, 1.64)	(0.11, 1.88)	(0.14, 2.12)
(0.18, 2.48)	(0.22, 2.80)	(0.27, 3.32)	(0.31, 3.72)
(0.33, 4.00)	(0.36, 4.28)	(0.38, 4.56)	(0.40, 4.84)
(0.42, 5.20)	(0.43, 5.52)	(0.44, 5.88)	(0.45, 6.20)
(0.46, 6.56)	(0.47, 6.88)	(0.48, 7.32)	(0.48, 7.60)
(0.47, 7.92)	(0.48, 8.20)	(0.48, 8.52)	(0.48, 8.80)
(0.48, 9.12)	(0.49, 9.44)	(0.48, 9.80)	(0.48, 10.08)
(0.48, 10.32)	(0.49, 10.56)	(0.48, 10.84)	(0.48, 11.20)
(0.48, 11.52)	(0.48, 11.76)	(0.48, 12.04)	(0.48, 12.32)
(0.48, 12.56)	(0.47, 12.84)	(0.47, 13.16)	(0.47, 13.52)
(0.46, 13.76)	(0.47, 14.04)	(0.46, 14.28)	(0.45, 14.72)
(0.46, 14.96)	(0.45, 15.24)	(0.45, 15.48)	(0.45, 15.84)
(0.44, 16.12)	(0.43, 16.56)	(0.44, 17.00)	(0.43, 17.36)
(0.42, 17.84)	(0.42, 18.24)	(0.41, 18.68)	(0.41, 19.12)
(0.40, 19.52)	(0.39, 19.96)	(0.38, 20.40)	(0.38, 20.80)
(0.37, 21.28)	(0.36, 21.72)	(0.36, 22.16)	(0.36, 22.56)
(0.35, 22.96)	(0.34, 23.40)	(0.33, 23.84)	(0.32, 24.28)
(0.32, 24.76)	(0.32, 25.08)	(0.31, 25.52)	(0.30, 26.00)
(0.29, 26.44)	(0.29, 26.84)	(0.29, 27.28)	(0.28, 27.68)
(0.27, 28.08)	(0.27, 28.56)	(0.26, 28.96)	(0.26, 29.40)
(0.26, 29.84)	(0.25, 30.24)	(0.25, 30.68)	(0.24, 31.12)
(0.23, 31.56)	(0.23, 31.92)	(0.22, 32.28)	(0.23, 32.56)
(0.22, 32.92)	(0.21, 33.28)	(0.22, 33.64)	(0.21, 33.92)
(0.21, 34.24)	(0.21, 34.56)	(0.20, 34.92)	(0.20, 35.36)
(0.18, 35.72)	(0.19, 36.12)	(0.18, 36.48)	(0.18, 36.84)
(0.18, 37.28)	(0.17, 37.60)	(0.17, 37.96)	(0.17, 38.24)
(0.17, 38.56)	(0.16, 38.92)	(0.17, 39.32)	(0.16, 39.60)
(0.15, 39.92)	(0.11, 40.12)		

De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.49
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	10.56
De totale procesweg	S_{tot}	[mm] :	40.12
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	29.56
De opgenomen deformatie arbeid	W	[Nm] :	12.95

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

STANDAARD MEETRAPPOR T PERS

- PROEFGEGEVENS -

Perscode : PF091955
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 11-05-89
Aantal metingen : 94
Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101870
Proefnummer : V4403.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] : 64.98
De maximaal optredende perskracht	F_{Pmax}	[kN] : 0.47
De deelprocesweg bij F_{Pmax}	S_N	[mm] : 10.60
De totale procesweg	S_{tot}	[mm] : 39.68
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] : 29.08
De opgenomen deformatie arbeid	W	[Nm] : 12.61

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101870

Persecode: PF091955

F_{Pmax} : 0.47 kN

Proefnummer : V4403.3.

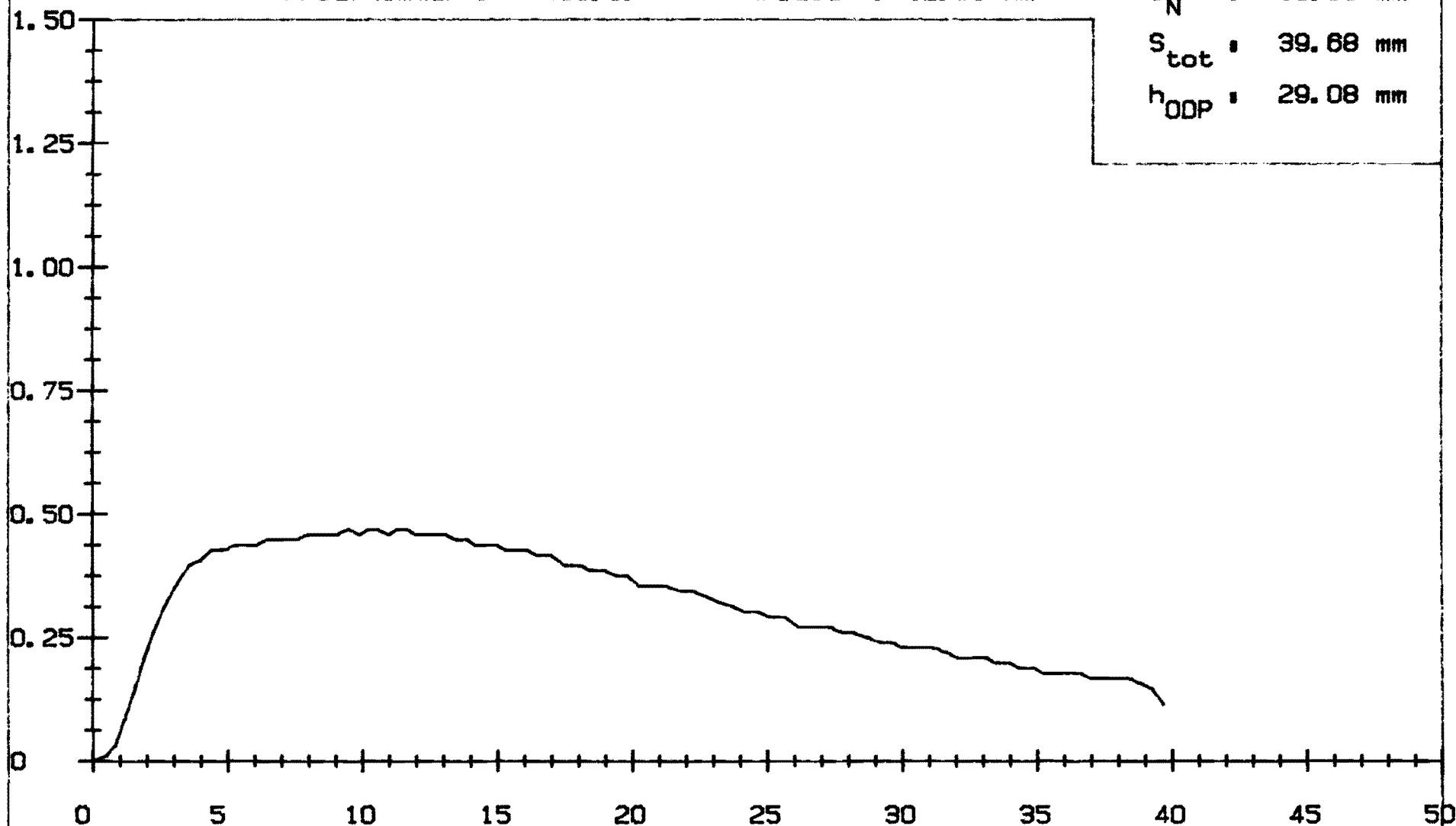
Arbeid : 12.81 Nm

S_N : 10.60 mm

S_{tot} : 39.68 mm

h_{ODP} : 29.08 mm

F_p [kN]



TUE, Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF091955

IOPM-BUIGEN-TUE

Plaatcode : F1101870

Proefnummer: V4403.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.01, 0.48)	(0.03, 0.80)	(0.08, 1.16)
(0.13, 1.52)	(0.21, 1.88)	(0.26, 2.24)	(0.32, 2.64)
(0.36, 3.08)	(0.39, 3.56)	(0.41, 4.00)	(0.43, 4.40)
(0.43, 4.84)	(0.44, 5.36)	(0.44, 5.76)	(0.44, 6.12)
(0.44, 6.48)	(0.44, 6.84)	(0.45, 7.28)	(0.45, 7.60)
(0.45, 8.00)	(0.46, 8.40)	(0.46, 8.76)	(0.46, 9.12)
(0.47, 9.52)	(0.46, 9.88)	(0.47, 10.24)	(0.47, 10.60)
(0.46, 10.96)	(0.46, 11.32)	(0.46, 11.68)	(0.46, 12.00)
(0.46, 12.40)	(0.45, 12.76)	(0.45, 13.12)	(0.45, 13.52)
(0.44, 13.88)	(0.44, 14.20)	(0.44, 14.56)	(0.44, 14.96)
(0.43, 15.32)	(0.43, 15.72)	(0.42, 16.08)	(0.42, 16.52)
(0.41, 16.96)	(0.40, 17.52)	(0.40, 17.96)	(0.39, 18.52)
(0.39, 18.96)	(0.38, 19.40)	(0.37, 19.84)	(0.36, 20.28)
(0.35, 20.80)	(0.35, 21.28)	(0.34, 21.80)	(0.34, 22.24)
(0.33, 22.76)	(0.32, 23.20)	(0.31, 23.76)	(0.31, 24.20)
(0.30, 24.64)	(0.29, 25.12)	(0.29, 25.68)	(0.27, 26.20)
(0.27, 26.68)	(0.27, 27.24)	(0.26, 27.76)	(0.26, 28.20)
(0.25, 28.64)	(0.24, 29.16)	(0.24, 29.56)	(0.23, 30.00)
(0.23, 30.52)	(0.22, 31.12)	(0.22, 31.64)	(0.21, 32.12)
(0.21, 32.60)	(0.21, 33.08)	(0.20, 33.48)	(0.20, 33.96)
(0.19, 34.36)	(0.18, 34.84)	(0.18, 35.24)	(0.18, 35.72)
(0.18, 36.12)	(0.17, 36.56)	(0.17, 37.04)	(0.16, 37.52)
(0.16, 37.92)	(0.16, 38.36)	(0.16, 38.80)	(0.15, 39.24)
(0.12, 39.68)	(0.12, 39.68)		

De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.47
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	10.60
De totale procesweg	S_{tot}	[mm] :	39.68
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	29.08
De opgenomen deformatie arbeid	W	[Nm] :	12.61

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Plaatcode : F1101880

Perescode: PF091956

F_{Pmax} : 0.48 kN

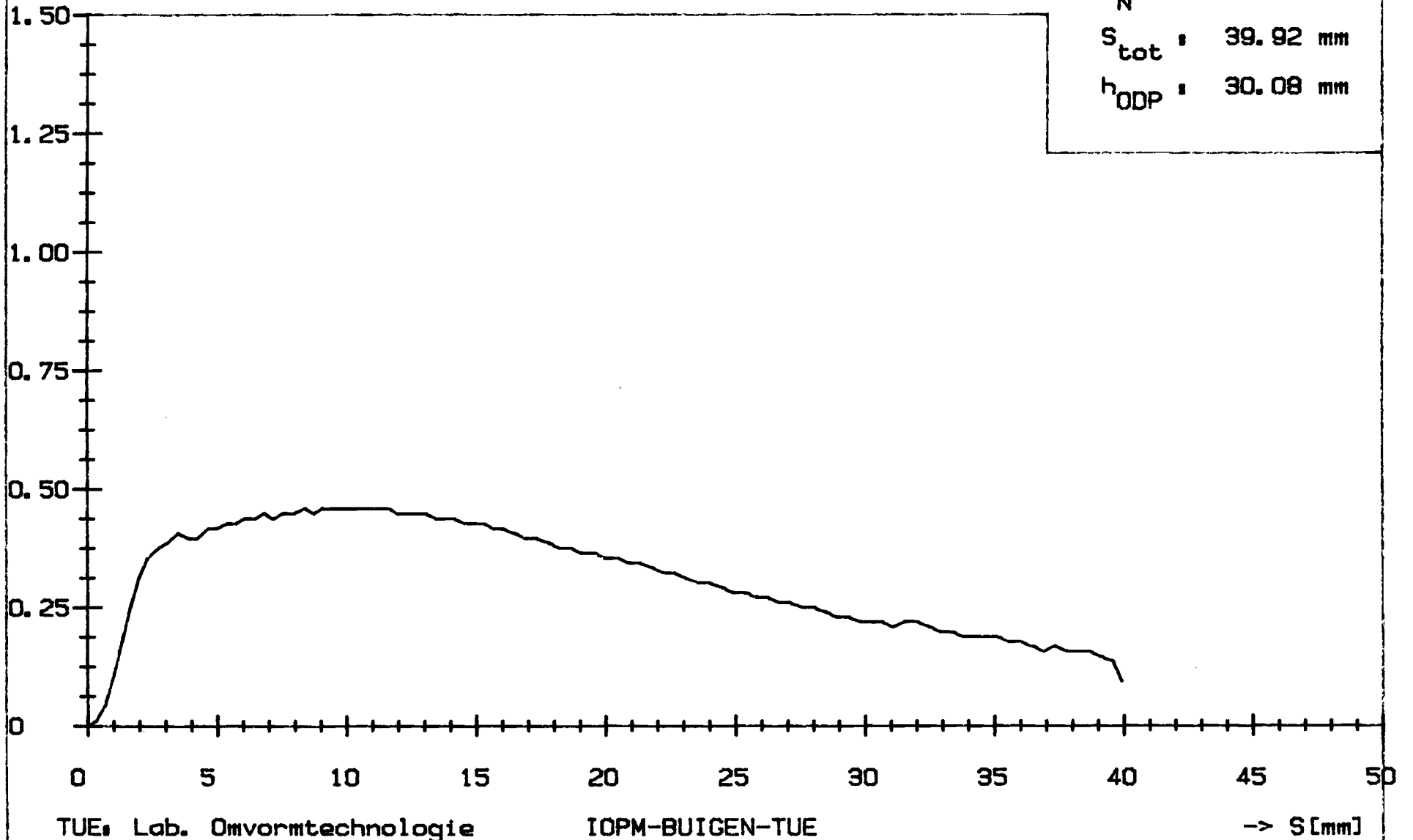
Proefnummer : V4403.3.

Arbeid : 12.48 Nm

S_N : 9.84 mm

S_{tot} : 39.92 mm

h_{ODP} : 30.08 mm



TUE, Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF091956

IOPM-BUIGEN-TUE

Plaatcode : F1101880

Proefnummer: V4403.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.00, 0.00)	(0.01, 0.36)	(0.04, 0.68)	(0.10, 1.00)
(0.18, 1.32)	(0.25, 1.64)	(0.31, 1.96)	(0.35, 2.32)
(0.37, 2.72)	(0.39, 3.12)	(0.40, 3.52)	(0.40, 3.92)
(0.40, 4.28)	(0.41, 4.64)	(0.42, 5.04)	(0.43, 5.40)
(0.43, 5.76)	(0.44, 6.12)	(0.44, 6.48)	(0.44, 6.84)
(0.44, 7.20)	(0.45, 7.60)	(0.45, 8.00)	(0.45, 8.40)
(0.45, 8.76)	(0.46, 9.12)	(0.46, 9.48)	(0.46, 9.84)
(0.46, 10.20)	(0.46, 10.56)	(0.46, 10.92)	(0.45, 11.32)
(0.46, 11.68)	(0.45, 12.00)	(0.45, 12.40)	(0.45, 12.76)
(0.44, 13.12)	(0.44, 13.48)	(0.43, 13.84)	(0.44, 14.20)
(0.43, 14.56)	(0.42, 14.92)	(0.42, 15.32)	(0.41, 15.68)
(0.42, 16.00)	(0.41, 16.48)	(0.40, 16.92)	(0.39, 17.36)
(0.39, 17.80)	(0.38, 18.24)	(0.37, 18.68)	(0.37, 19.12)
(0.36, 19.60)	(0.35, 20.00)	(0.35, 20.48)	(0.34, 20.92)
(0.34, 21.36)	(0.33, 21.80)	(0.32, 22.24)	(0.32, 22.68)
(0.31, 23.12)	(0.30, 23.60)	(0.30, 24.00)	(0.29, 24.48)
(0.29, 24.92)	(0.28, 25.36)	(0.27, 25.80)	(0.27, 26.24)
(0.26, 26.68)	(0.26, 27.12)	(0.25, 27.60)	(0.25, 28.00)
(0.24, 28.48)	(0.23, 28.92)	(0.23, 29.36)	(0.22, 29.80)
(0.22, 30.24)	(0.22, 30.68)	(0.21, 31.12)	(0.21, 31.60)
(0.21, 32.00)	(0.21, 32.48)	(0.20, 32.92)	(0.19, 33.36)
(0.19, 33.80)	(0.18, 34.24)	(0.18, 34.68)	(0.18, 35.12)
(0.18, 35.60)	(0.17, 36.00)	(0.17, 36.48)	(0.16, 36.92)
(0.17, 37.36)	(0.16, 37.80)	(0.16, 38.24)	(0.15, 38.68)
(0.15, 39.12)	(0.14, 39.60)	(0.09, 39.92)	

De maximaal optredende perskracht	F_{Pmax}	[kN] :	0.46
De deelprocesweg bij F_{Pmax}	S_N	[mm] :	9.84
De totale procesweg	S_{tot}	[mm] :	39.92
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] :	30.08
De opgenomen deformatie arbeid	W	[Nm] :	12.48

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF091957
Materiaalsoort : SP/D
Werkstofnummer : 1.0330
Herkomst materiaal : MCB/TUE MAG.
Plaatdikte s_0 [mm] : 1.0
Datum beproeving [dd-mm-jj] : 11-05-89
Aantal metingen : 98
Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
Type pers : CEZ-25-2-6
Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
Plaatcode : F1101890
Proefnummer : V4403.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0 [mm] : 65.00
De maximaal optredende perskracht F_{Pmax} [kN] : 0.46
De deelprocesweg bij F_{Pmax} S_N [mm] : 11.32
De totale procesweg S_{tot} [mm] : 39.80
Deelprocesweg F_{Pmax} tot ODP h_{ODP} [mm] : 28.48
De opgenomen deformatie arbeid W [Nm] : 12.52

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
[Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101890

Perencode: PF091957

F_{Pmax} : 0.48 kN

Proefnummer : V4403.3.

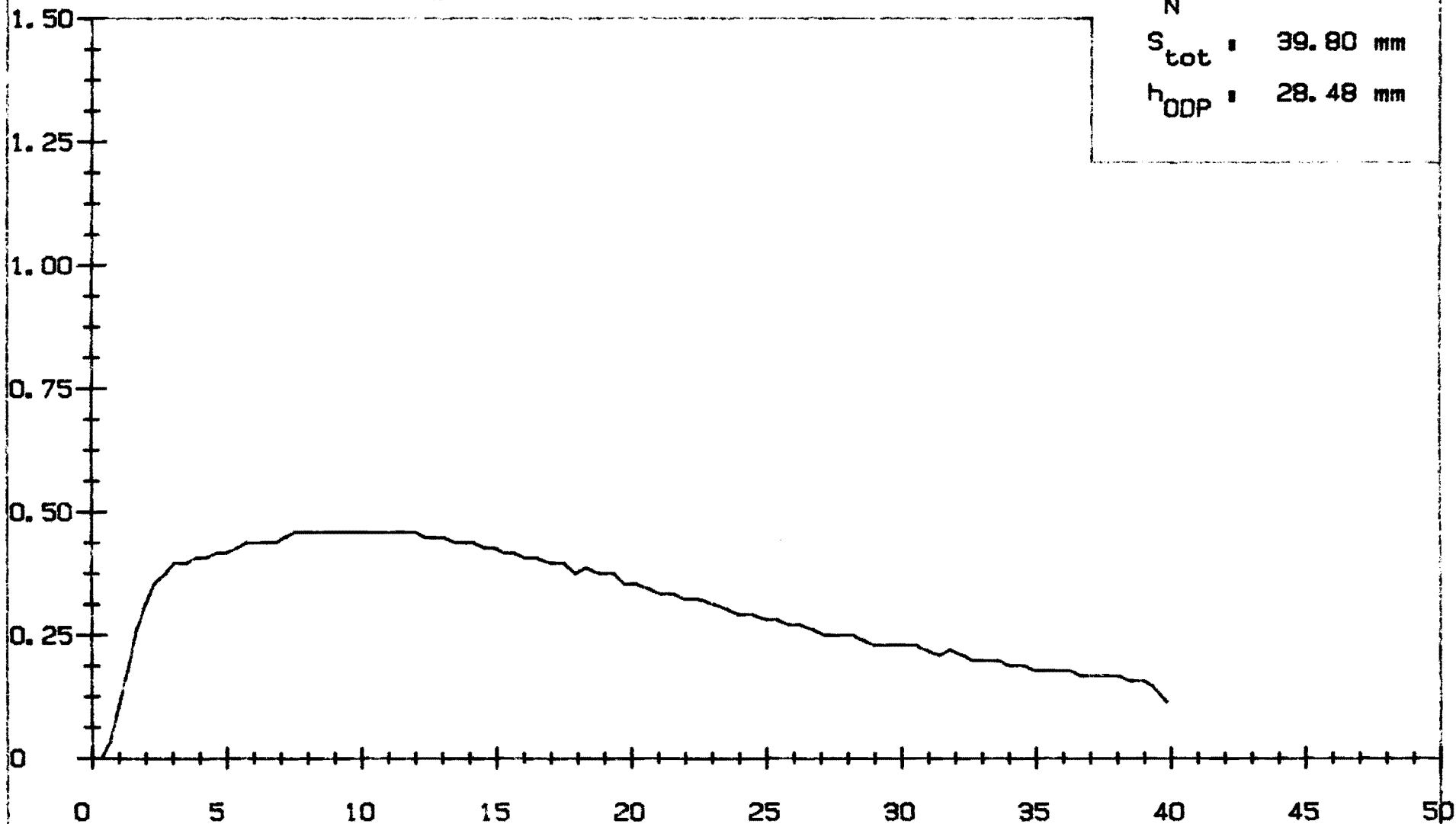
Arbeid : 12.52 Nm

S_N : 11.32 mm

S_{tot} : 39.80 mm

h_{ODP} : 28.48 mm

F_p [kN]



TUE: Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF091957

IOPM-BUIGEN-TUE

Plaatcode : F1101890
 Proefnummer: V4403.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(0.00, 0.00)	(0.00, 0.36)	(0.04, 0.68)	(0.10, 1.00)
(0.18, 1.32)	(0.26, 1.64)	(0.31, 1.96)	(0.35, 2.32)
(0.38, 2.72)	(0.39, 3.12)	(0.40, 3.52)	(0.41, 3.92)
(0.41, 4.28)	(0.42, 4.64)	(0.42, 5.04)	(0.43, 5.40)
(0.43, 5.76)	(0.44, 6.12)	(0.44, 6.48)	(0.44, 6.84)
(0.45, 7.20)	(0.46, 7.60)	(0.46, 8.00)	(0.46, 8.40)
(0.45, 8.76)	(0.46, 9.12)	(0.46, 9.48)	(0.46, 9.84)
(0.46, 10.20)	(0.46, 10.56)	(0.46, 10.92)	(0.46, 11.32)
(0.46, 11.68)	(0.45, 12.00)	(0.45, 12.40)	(0.45, 12.76)
(0.45, 13.12)	(0.44, 13.48)	(0.43, 13.88)	(0.44, 14.20)
(0.43, 14.56)	(0.43, 14.92)	(0.42, 15.32)	(0.42, 15.68)
(0.41, 16.08)	(0.40, 16.52)	(0.39, 17.04)	(0.39, 17.48)
(0.38, 17.92)	(0.38, 18.36)	(0.37, 18.84)	(0.37, 19.32)
(0.36, 19.76)	(0.35, 20.20)	(0.34, 20.64)	(0.33, 21.12)
(0.33, 21.60)	(0.33, 22.00)	(0.32, 22.52)	(0.31, 23.08)
(0.30, 23.60)	(0.29, 24.00)	(0.29, 24.48)	(0.28, 24.96)
(0.28, 25.44)	(0.27, 25.84)	(0.27, 26.28)	(0.26, 26.76)
(0.25, 27.20)	(0.25, 27.68)	(0.25, 28.16)	(0.24, 28.56)
(0.23, 29.04)	(0.23, 29.52)	(0.23, 30.00)	(0.22, 30.48)
(0.22, 30.92)	(0.21, 31.40)	(0.22, 31.84)	(0.21, 32.24)
(0.20, 32.68)	(0.20, 33.12)	(0.20, 33.60)	(0.19, 34.04)
(0.19, 34.48)	(0.18, 34.96)	(0.18, 35.36)	(0.18, 35.80)
(0.17, 36.24)	(0.17, 36.68)	(0.17, 37.16)	(0.16, 37.60)
(0.16, 38.04)	(0.16, 38.48)	(0.16, 38.96)	(0.15, 39.36)
(0.11, 39.80)	(0.11, 39.80)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.46
De deelprocesweg bij F_{Pmax}	S_N [mm] :	11.32
De totale procesweg	S_{tot} [mm] :	39.80
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	28.48
De opgenomen deformatie arbeid	W [Nm] :	12.52

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

- PROEFGEGEVENS -

Perscode : PF091958
 Materiaalsoort : SP/D
 Werkstofnummer : 1.0330
 Herkomst materiaal : MCB/TUE MAG.
 Plaatdikte s_0 [mm] : 1.0
 Datum beproeving [dd-mm-jj] : 11-05-89
 Aantal metingen : 98
 Code bijbehorende trekproeven : TF891675-TF891676-TF891677

Operator : J.A.M. Kempen
 Projectleider : Ir. L.J.A. Houtackers

Merk pers : Müller pers
 Type pers : CEZ-25-2-6
 Serienummer : 4536 Baujahr 1963

Opmerkingen : IOPM-BUIGEN-TUE
 Plaatcode : F1101800
 Proefnummer : V4403.3.

- OVERZICHT GEGEVENS UIT F-S KROMME -

Beginbreedte van de plaat b_0		[mm] : 65.00
De maximaal optredende perskracht	F_{Pmax}	[kN] : 0.46
De deelprocesweg bij F_{Pmax}	S_N	[mm] : 10.28
De totale procesweg	S_{tot}	[mm] : 39.68
Deelprocesweg F_{Pmax} tot ODP	h_{ODP}	[mm] : 29.40
De opgenomen deformatie arbeid	W	[Nm] : 12.45

[Krachtmeting: Nauwkeurigheid +/- 15 N voor $F_{Pmax} \leq 50$ kN.]
 [Wegmeting : Nauwkeurigheid +/- 0,04 mm voor $S_{tot} \leq 370$ mm.]

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Plaatcode : F1101800

Perscode: PF091958

F_{Pmax} : 0.46 kN

Proefnummer : V4403.3.

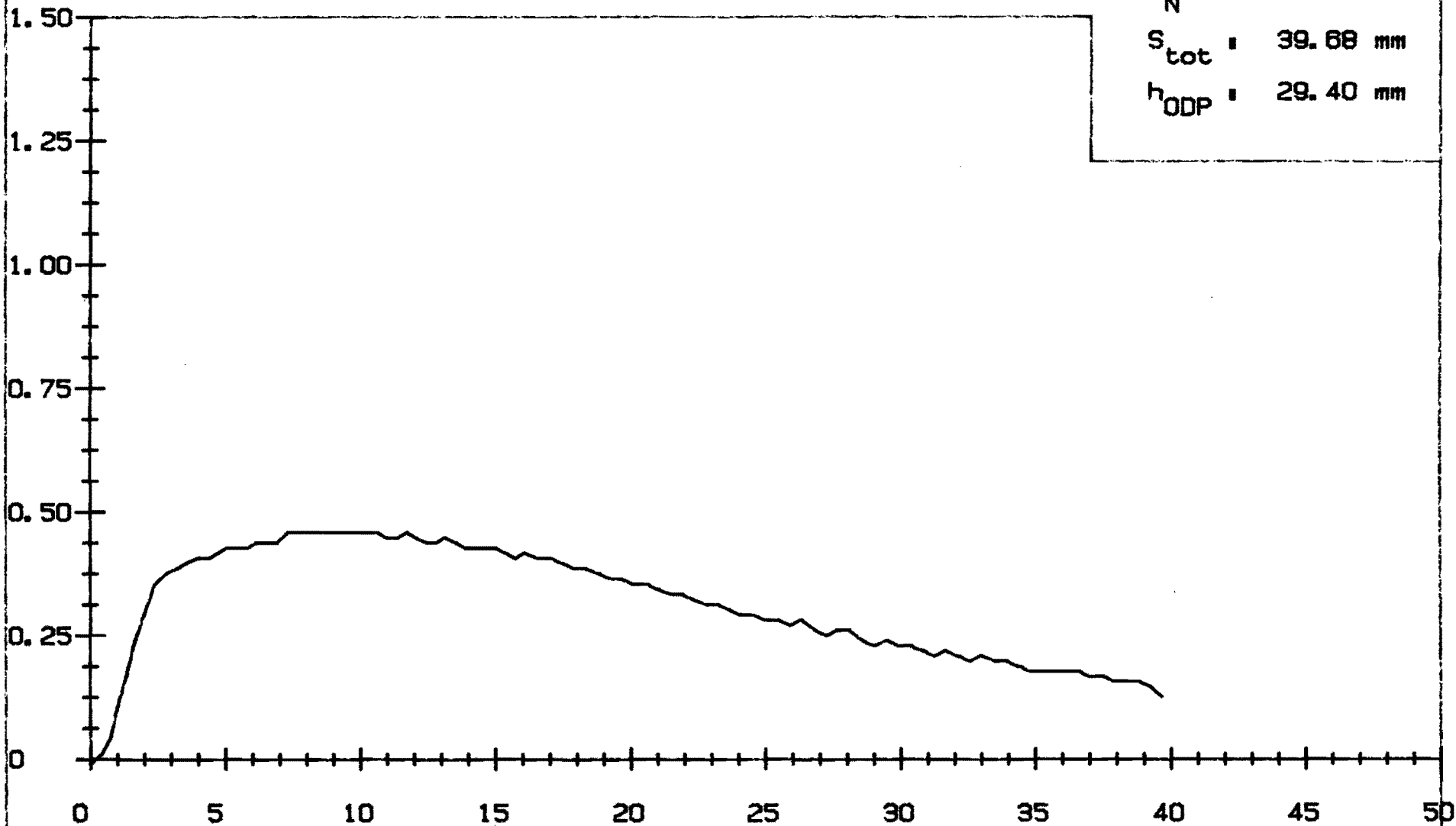
Arbeid : 12.45 Nm

S_N : 10.28 mm

S_{tot} : 39.68 mm

h_{ODP} : 29.40 mm

F_p [kN]



TUE, Lab. Omvormtechnologie

IOPM-BUIGEN-TUE

-> S [mm]

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TUE LABORATORIUM VOOR OMVORMTECHNOLOGIE

S T A N D A A R D M E E T R A P P O R T P E R S

Perscode : PF091958

IOPM-BUIGEN-TUE

Plaatcode : F1101800

Proefnummer: V4403.3.

Het kracht- wegverloop is als volgt: (kracht[kN],weg[mm])

(-0.01, 0.00)	(0.01, 0.40)	(0.04, 0.72)	(0.10, 1.04)
(0.17, 1.36)	(0.24, 1.68)	(0.30, 2.00)	(0.35, 2.44)
(0.38, 2.80)	(0.39, 3.24)	(0.40, 3.60)	(0.40, 4.00)
(0.41, 4.40)	(0.41, 4.76)	(0.42, 5.12)	(0.43, 5.48)
(0.43, 5.84)	(0.43, 6.20)	(0.43, 6.56)	(0.44, 6.92)
(0.45, 7.32)	(0.45, 7.72)	(0.45, 8.12)	(0.45, 8.48)
(0.45, 8.84)	(0.46, 9.20)	(0.45, 9.56)	(0.45, 9.92)
(0.46, 10.28)	(0.45, 10.68)	(0.45, 11.04)	(0.45, 11.40)
(0.45, 11.76)	(0.45, 12.12)	(0.44, 12.48)	(0.43, 12.84)
(0.44, 13.20)	(0.44, 13.56)	(0.43, 13.92)	(0.43, 14.28)
(0.42, 14.68)	(0.42, 15.04)	(0.42, 15.40)	(0.41, 15.76)
(0.42, 16.12)	(0.40, 16.56)	(0.40, 17.04)	(0.39, 17.48)
(0.39, 17.92)	(0.38, 18.36)	(0.37, 18.80)	(0.37, 19.24)
(0.37, 19.68)	(0.35, 20.12)	(0.35, 20.56)	(0.34, 21.04)
(0.33, 21.48)	(0.33, 21.92)	(0.32, 22.36)	(0.32, 22.80)
(0.31, 23.24)	(0.30, 23.68)	(0.30, 24.12)	(0.29, 24.56)
(0.29, 25.04)	(0.28, 25.48)	(0.27, 25.92)	(0.28, 26.36)
(0.26, 26.80)	(0.26, 27.24)	(0.26, 27.68)	(0.26, 28.12)
(0.24, 28.56)	(0.23, 29.04)	(0.24, 29.48)	(0.23, 29.92)
(0.23, 30.36)	(0.22, 30.80)	(0.21, 31.24)	(0.21, 31.68)
(0.21, 32.12)	(0.20, 32.56)	(0.21, 33.04)	(0.20, 33.48)
(0.20, 33.92)	(0.18, 34.36)	(0.18, 34.80)	(0.18, 35.24)
(0.18, 35.68)	(0.17, 36.12)	(0.17, 36.56)	(0.17, 37.04)
(0.16, 37.48)	(0.15, 37.92)	(0.16, 38.36)	(0.16, 38.80)
(0.15, 39.24)	(0.13, 39.68)		

De maximaal optredende perskracht	F_{Pmax} [kN] :	0.46
De deelprocesweg bij F_{Pmax}	S_N [mm] :	10.28
De totale procesweg	S_{tot} [mm] :	39.68
Deelprocesweg F_{Pmax} tot ODP	h_{ODP} [mm] :	29.40
De opgenomen deformatie arbeid	W [Nm] :	12.45

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