

spines; over 2X as wide as deep, depth decreasing towards anterior. Prominent micro-setae lined pit present at base of procoxae; another pit (lacking micro-setae) between bases of meso- and meta-coxae. Propodeal plates as long as propodeal spines, directed posteriorly towards petiole. Anterior subpetiolar process prominent. Petiole pedunculate; stalk approximately $\frac{1}{2}$ length of petiole; node rising gradually. Anterior subpostpetiolar process enlarged into a prominent bump; posterior subpostpetiolar process greatly reduced. Head rugose (including vertex and occipital vertex) except as follows: frontal area carinate; carina diverging posteriorly; central $\frac{1}{3}$ of frontal area between antennal sockets glassy-smooth; clypeal area with 1 weak carinulae extending from each side of emargination, converging towards frontal area; vertex of some specimens approaching scabrous. Interstices with numerous small non-piligerous and piligerous punctures. Thoracic dorsum rugose, except area near pronotal humeri nearly glassy-smooth. Thoracic pleura nearly smooth beneath pronotum, rugose until reaching propodeal pleura which are longitudinally carinate. Neck of pronotum rugulose. Metanotal impression scrobiculate. Mesopleuron with scrobiculate median area. Coxae with weak longitudinal carinae. Remainder of legs smooth with scattered piligerous punctures. Propodeal dorsum with transversely carinate basal face, some weak transverse carinae between spines, and usually glassy-smooth declivitous face (some specimens with trace of transverse carinae). Alitrunk interstices shining with numerous piligerous and non-piligerous punctures. Petiolar node dorsum glassy-smooth with a faint trace of rugae in some specimens; remaining surfaces rugose except posterior surface of node punctulate and venter rugulose. Postpetiolar node dorsum glassy-smooth; remaining surfaces rugose, becoming rugulose towards venter. First gastral tergite base carinate with several carinae diverging towards posterior; carinae not exceeding $\frac{1}{4}$ to 0.20 length of postpetiole. First gastral sternite base glassy-smooth. Remainder of gaster glassy-smooth (even at high magnifications), with some piligerous punctures. Setae on head moderately dense, decumbent to appressed and of irregular length except: setae on clypeal margin erect, setae on mandible appressed; setae of scape subdecumbent to appressed (mostly subdecumbent on anterior surface), setae of funiculus mostly appressed. Setae on dorsum and side of alitrunk erect to suberect; setae on alitrunk venter very sparse, erect to appressed. Setae on legs mostly suberect to appressed, becoming more appressed towards tibiae. Setae of petiole appressed on anterior surface, erect to suberect on posterior surface, mostly suberect on dorsum and side (and of varying length), setae of venter absent. Setae on postpetiolar dorsum, side, anterior and posterior surfaces of node